Rolls-Royce plc Annual Report 2015



FOCUS TRANSFORM DELIVER

WEDNESDAY



LD4

29/06/2016 COMPANIES HOUSE #91

ROLLS-ROYCE IS A PRE-EMINENT ENGINEERING COMPANY FOCUSED ON WORLD-CLASS POWER AND PROPULSION SYSTEMS.

Financial highlights

Order book

£76,399m

2014: £73,674m

Underlying* revenue

£13,354m

2014: £13,864m

Underlying* profit before tax

£1,432m

2014: £1,620m

Free cash flow

£166m

2014: £437m

Reported** revenue

£13,725m

2014: £13,736m

Reported** profit before tax

2014: £146m

Net cash

2014: £666m

Underlying explanation is in note 2 on page 80 From continuing operations

All figures in the narrative of the Strategic Report are underlying unless otherwise stated

FORWARD-LOOKING STATEMENTS

This Annual Report contains forward looking statements. Any statements that express forecasts, expectations and projections are not guarantees of future performance and guidance may be updated from time to time. This report is intended to provide information to shareholders, and is not designed to be relied upon by any other party or for any other purpose and the Company and its Directors accept no liability to any other person other than that required under English law Latest information will be made available on the Group's website. By their nature, these statements involve risk and uncertainty, and a number of factors could cause material differences to the actual results or developments.

Contents

STRATEGIC REPORT	
Group at a glance	2
Chief Executive's review	4
Review of 2015	6
Strategic priorities	13
Business model	14
Engineering and innovation	16
Business review	20
Financial review	40
Sustainability	46
Key performance indicators	50
Principal risks	52

DIRECTORS' REPORT	
Board of Directors	55
Internal control and risk management	59
Share capital	60
Other statutory information	61
Directors report and financial statements	62

FINANCIAL STATEMENTS	
Financial statements contents	64
Group financial statements	65
Company financial statements	119

OTHER INFORMATION	
Subsidiaries joint ventures and associates	143
Independent auditor's report	150
Additional financial information	151
Glossary	153

Group

The Group is organised into five customer-facing businesses Civil Aerospace, Defence Aerospace, Power Systems, Marine and Nuclear

Underlying revenue

£13,354m

£1,432m

Underlying revenue mix

GROUP AT A GLANCE

■ Civil Aerospace	52%
■ Defence Aerospace	15%
■ Power Systems	18%
■ Marine	10%
■ Nuclear	5%

Order book

Invested in R&D

£76.4bn

£1.2bn

Patents applied for

Countries

626

46

Engineers (year end)

Employees (year average)

15,690

50,500

Cıvıl Aerospace

Underlying revenue

£6,933m

Underlying profit*

£812m

PAGES 20 TO 25 FOR MORE INFORMATION

Underlying revenue mix

■ OE revenue 47%
■ Services revenue 53%

Defence Aerospace

Underlying revenue

£2,035m

Underlying profit*

£393m

PAGES 26 TO 29 FOR MORE INFORMATION

Underlying revenue mix

■ OE revenue 39%
■ Services revenue 61%

Power Systems

Underlying revenue

£2,385m

Underlying profit*

£194m

PAGES 30 TO 33 FOR MORE INFORMATION

Underlying revenue mix

■ OE revenue	68%
■ Services revenue	32%

Marine

Underlying revenue

£1,324m

Underlying profit*

£15m

PAGES 34 TO 37 FOR MORE INFORMATION

Underlying revenue mix

■ OE revenue 58%
■ Services revenue 42%

Nuclear

Underlying revenue

£687m

Underlying profit*

£70m

PAGES 38 TO 39 FOR MORE INFORMATION

Underlying revenue mix

■ OE revenue 37%
■ Services revenue 63%

[•] Underlying profit before financing and taxation

TRANSFORM



In the context of challenging trading conditions our overall performance for the year was in line with the expectations we set out in July 2015 It was a year of considerable change for Rolls-Royce in our management, in some market conditions and in our near-term outlook At the same time, there were some important constants the underlying growth of our long-term markets, the quality of our mission-critical technology and services, and strength of customer demand for these, which are reflected in our growing order book While we have some near-term challenges, these constants provide us with confidence in a strong, profitable, cash-generative future'

Warren East Chief Executive

Welcome to my first Chief Executive's review for Rolls-Royce My intention is that this report will share with you all, in a clear and open way, how we performed last year, the opportunities ahead of us and the clear goals and priorities we are setting ourselves to maximise value creation

We are now taking great steps to transform the business adding pace and simplicity to what we do, a process we started in November 2015 This will be covered extensively in next year's report In the meantime, we have significantly enhanced the disclosure in this year s report to present our performance in a more transparent and understandable way I hope you find it informative

In this Strategic Report, I will describe the business in depth and we will provide further information on our financial position and business performance.

06 | Review of 2015

How the Group performed in a year of significant change

14 | Business model

How we deliver value from mission-critical systems and services

20 Business review

Reviewing each of our five customer-facing businesses, with analysis of their markets

46 Sustainability

Setting out the approach we take and the targets we set for a more sustainable business

52 Principal risks

Outlining our main risks together with our risk management process

13 Strategic priorities

Our clear focus and priorities for developing the business

16 Engineering and innovation

Creating engineering excellence with world-class knowledge and technology

40 Financial review

Explaining our financial performance in 2015 ın detail

50 Key performance indicators

How financial and non-financial indicators are used to measure the Group

REVIEW OF 2015 AND BUSINESS TRANSFORMATION

Performance in 2015

Our performance in 2015 was broadly in line with our early expectations, with Marine markets causing most of the weakness. At the same time we have continued to invest in products and services to support our customers and reinforce the long-term strength of our order book, valued at £76 4bn at the year end, up 4% on 2014

Group revenue was broadly unchanged on a constant currency basis with good growth in Civil Aerospace offsetting weaknesses in Marine. The combination of some difficult market conditions, sustained engineering investment and high fixed costs led to underlying profit before finance charges and tax 11% being lower at £1,492m.

Civil Aerospace delivered an underlying profit before finance charges and tax of £812m (2014 £942m) Defence Aerospace delivered £393m (2014 £366m) Power Systems £194m (2014 £253m) and Marine £15m (2014 £138m) Nuclear delivered £70m (2014 £50m) More detail on each business is included in the Business review

After underlying financing costs of £60m (2014 £61m), underlying profit before tax was £1,432m (2014 £1 620m) Excluding the benefit of a one-off intellectual property settlement of £58m, triggered by the third-party acquisition of a former business partner, and a favourable £19m R&D credit benefiting our Nuclear business, underlying profit before tax would have been £1,355m, in line with the lower half of the 2015 guidance range set out in July 2015

After an underlying tax charge of £351m (2014 £388m) and adjusting for non-controlling interests, underlying profit for the year was £1,080m (2014 £1 226m)

Reported profit before tax was £160m (2014 £67m), compared to an underlying profit before tax of £1,432m (2014 £1 620m) A full reconciliation of headline to underlying profit can be found in note 2 to the Consolidated Financial Statements

Free cash flow of £179m was materially higher than our third quarter expectations reflecting strong cash collections at the end of the year from a number of key customers, a better than expected overall working capital performance and the non-recurring cash settlement arising from the intellectual property agreement mentioned above Some of this positive variance is likely to reverse early in 2016

A more detailed review of financial performance is included in the Financial review

FINANCIAL REVIEW P40

Our strategic priorities in 2015

Customer

Placing the customer at the heart of our organisation is key. We listen to our customers, share ideas, really understand their needs and then relentlessly focus on delivering our promises.

Innovation

This is our lifeblood. We continually innovate to remain competitive. To drive innovation, we create the right environment – curious, challenging, unafraid of failure, disciplined, open-ininded and able to change with pace. Most importantly, we ensure our innovation is relevant to our customers' needs.

Profitable growth

By focusing on our customers and offering them a competitive portfolio of products and services, we create the opportunity to grow our market share. We have to make sure that we are not just growing, but growing profitably. That means ensuring our costs are competitive. We look after our cash and we win right.

Performance in 2015

Trent XWB completes exemplary first year in service with Qatar Airways.

Gulfstream G650 corporate jet with BR725 engines enters service.

F-35B Lightning II with Rolls-Royce LiftSystem® declared operational by US Marine Corps.

US Air Force, Boeing and Embraer all name Rolls-Royce in their top supplier categories.

Testing of Trent 1000 TEN and Trent XWB-97 development engines is progressing well.

MTU signs agreement with Daimler to jointly develop EU Stage 5, emissions compliant diesel engines for off-highway applications.

We produce the world's largest 3D component for the aerospace industry.

We are leading an international research programme into remote and autonomous ship control.

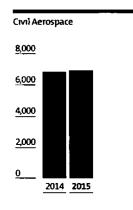
Our largest ever order secured, US\$9.2bn from Emirates for Trent 900s.

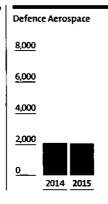
We expand TotalCare® service offering range and our maintenance, repair and overhaul (MRO) network.

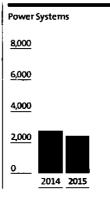
€100m order for MTU engines to power rail locomotives for Dalian of China.

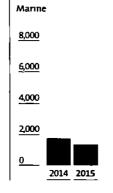
US\$600m investment announced for re-developing our production facilities in Indianapolis, US.

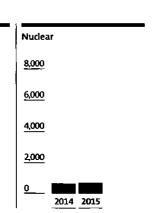
Underlying revenue (£m)











Positive market developments continue to drive long-term growth

The long-term positive market trends for our leading power systems remain unchanged despite some near-term uncertainties that are expected to impact small aerospace engine production volumes and service activity on older widebody engines over the next couple of years. The trends driving demand for growth in large passenger aircraft, corporate jets and maritime activity remain strong in particular a growing aspirational and mobile middle-class, particularly in Asia, and globalisation in business, trade and tourism in addition, capacity constraints at the airframe manufacturers and a strong underlying demand for newer, more fuel efficient aircraft, should provide resilience to manufacturing schedules over the next few years as the industry transitions to new airframes during a strong replacement cycle

The most significant short-term challenge that has emerged in 2015 relates to the changing demand for our Trent 700 engine as Airbus transitions production from old to

new airframes. This has had a knock on effect on both demand for and pricing of the remaining engines to be delivered. Once completed, we will benefit from an exclusive position with the new Trent 7000 on the A330neo In the near-term the profit impact of this transition is negative, the impact of lower pricing and gross margin is exacerbated by the accounting effects of changes within our large engine aerospace product mix as we transition to a portfolio increasingly comprising 'unlinked' platform positions. However, the roll-out of new engines will significantly grow our market share and the installed base of new engines will deliver strong aftermarket revenues for decades to come

We recognise that these changes have been exacerbated by market uncertainty as to the impact of TotalCare accounting on our financial statements. As a result, we are increasing our financial disclosure to present a simpler narrative that will more clearly describe how the key drivers of performance translate into our financial results and aid transparency and understanding. These are included in the Business review.

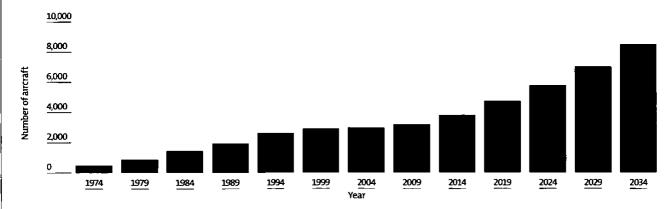
BUSINESS REVIEW P20

Announced initial findings of a detailed operational review

Our strategic priorities for 2015 remained largely consistent throughout the year, with a clear focus on the customer innovation and on driving long-term profitable growth However, with short-term market conditions around us changing, it has been appropriate to review these priorities as we look to the next three or four years

Since July 2015, we have been conducting a review of operations and presented the initial conclusions in November 2015. As part of this we shared our views on the strengths and weaknesses of our business portfolio and updated management s future focus and priorities around delivery and transformation.

Strong growth expected in installed widebody fleet



■ Company estimates

Clear areas for business improvement

The review of operations also highlighted a number of opportunities to drive further performance improvements over and above the extensive restructuring programmes already underway. As we grew as an organisation we embedded costs and complexity in the business which, in periods of significant investment and product transition like now, are impacting our performance. But the higher costs also present a significant opportunity to simplify what we do and sustainably reduce the cost of management, creating a more streamlined resilient and sustainable business.

Strategic focus going forward

The review has led us to recast our priorities for 2016 onwards. As before, the overarching theme continues to be developing our products services and order book to drive long-term profitable growth. We will do this by focusing on three common themes across all our businesses.

- investing in and developing engineering excellence,
- driving a manufacturing and supply chain transformation which will embed operational excellence in lean, lower-cost facilities and processes, and
- leveraging our installed base, product knowledge and engineering capabilities to provide customers with outstanding service through which we can capture aftermarket value long into the future

Our ability to deliver these priorities will be enhanced by a major transformation of our organisation, to simplify our processes and management structure to add pace to our decision making and execution, and to provide space to develop our people and create a stronger high performance culture

These themes will become the cornerstones of our operational priorities going forward



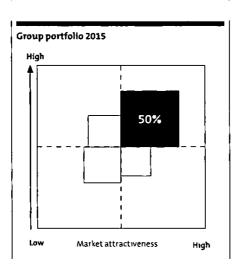
Rolls-Royce is in growing markets. We are strongly positioned and growing market share"

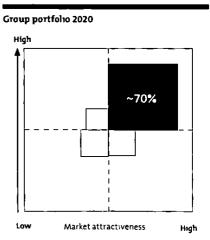
Warren East 24 November 2015

Portfolio analysis

"We have a strong portfolio of products and services with strong competitive positions and many in sustainably attractive markets. We have the opportunity to strengthen products, routes to market or to reduce their costs so they can be more competitive in the future."

Warren East 24 November 2015





Major new transformation programme creating meaningful cost savings

The objective of our new transformation programme is to simplify the organisation, streamline senior management, reduce fixed costs and add greater pace and accountability to decision making. Our target is to deliver incremental gross cost savings of between £150m and £200m per annum with the full benefits accruing from the end of 2017 onwards.

In the last two months, we have already announced a 20% reduction in the top two layers of senior management with further reductions planned for 2016 and onwards. This has included removal of the divisional structure. To date we have already identified around 50%, or £75-100m, of targeted cost savings with a related exceptional restructuring charge of £75-100m. Around £30-50m of the initial savings should be achieved in 2016 with the full run rate benefiting 2017. Further actions are underway to quantify the additional savings needed to reach our goals, together with the related costs which we expect to take in 2017.

To ensure we remain focused, we have set up a transformation team which will drive change to simplify processes and activities across the Group to deliver sustainable performance improvements. The new team will ensure other restructuring programmes maintain progress They will also help develop the comprehensive range of key performance indicators needed to support the changes we are looking to make inside the business. Several measures around site level productivity and aerospace engine unit costs have already been adopted within the business. These and other measures will be important indicators of the changing culture around productivity, cost reduction, investment efficiency and process waste Details on new measures will be set out in further announcements

Restructuring initiatives started prior to November continue to make good progress

During 2014 and 2015 restructuring initiatives were started, largely focused on our operational footprint within Aerospace and Marine

In 2015, we consolidated our Civil Aerospace repair and overhaul activities, enabling the closure of sites in Brazil and the UK, along with further rationalisation of our UK manufacturing footprint. To date, nearly 80% of the targeted 2,600 Civil and Defence Aerospace headcount reductions have been completed, with an 11% reduction in our 2013 operational footprint.

In May 2015, we announced a Marine restructuring programme to make significant reductions in both manufacturing footprint and headcount (by 600) and generate £25m in annual savings from 2016 onwards. This included work to consolidate our footprint and increase lower-cost country sourcing. At the start of October 2015, we announced an additional programme of restructuring, focused largely on back-office administrative functions. This will lead to a further 400 reduction in headcount.

Good progress has been made overall with related headcount reductions across Aerospace and Marine totalling 2,500 by the end of 2015



We have significant opportunities to improve our operating performance and our pace, customer delivery, programme delivery, project delivery, lean manufacturing, as well as reducing our footprint"

David Smith Chief Financial Officer 24 November 2015

HOW WE ARE TRANSFORMING THE BUSINESS



My review has highlighted a number of areas where we can simplify the way we work and inject pace into our decision making"

Warren East 24 November 2015

RESTRUCTURING PROGRAMMES ANNOUNCED PRIOR TO NOVEMBER 2015

Incremental changes (as previously announced)*	2015	2016	2017
Aerospace			
Net improvement Headcount reduction	£0m 2,200**	£80m 400	£0m -
Marine			
Net improvement Headcount reduction	£(10)m 600	£35m 400	£40m

* Overall benefits expected to be broadly in line with previously announced estimate:	5
Includes 545 who left the business in 2014	

	2015	2020	
Aerospace			
Footprint	14 million sqm	1 1 million sqm	1 20%
Output – number of widebody engines	~330	~600	♠ 80%

NOVEMBER 2015: NEW TRANSFORMATION PROGRAMME TO CREATE SIGNIFICANT INCREMENTAL SAVINGS

Focus and deploy resources to maximise value to customers and add pace and simplicity to the business

Engineering excellence

Operational excellence

Capturing aftermarket value

£150-200m

initial saving targeted with maximum 1-2 year payback

Primarily senior level, corporate and divisional fixed costs

Transforming our US operations

In October 2015, we confirmed the decision to invest nearly US\$600m in modernising our manufacturing base in Indianapolis, US

This investment is the largest by Rolls-Royce in the US since we purchased the Allison Engine Company in 1995

The new facility is part of a five-year modernisation plan and the investment is in line with the Group's ongoing commitment to consolidate operations and significantly reduce operational costs The new facility will be a state-of-the-art manufacturing centre that combines modern production systems and machinery together with a highly-skilled workforce

We currently employ around 4,000 people in Indianapolis, where engines are designed, assembled and tested for US defence aircraft, civil helicopters, regional and business jets and power systems for US naval vessels

Outlook for 2016

Our outlook for 2016 is unchanged from that set out in November 2015. On a constant currency basis, Group revenue for 2016 is expected to be marginally lower than that achieved in 2015, partially reflecting the pricing and volume effects in Civil Aerospace and the continued weakness in offshore marine markets. Overall, the net profit trading headwinds discussed in previous announcements are unchanged at around £650m compared to our underlying profit before financing, excluding £58m intellectual property settlement included in 'Other' and £19m research and development (R&D) credit which benefited Nuclear

Individual outlooks are provided for each business in the Business review



BUSINESS REVIEW P20

Looking further ahead

The successful roll-out of new engines, led in particular by the Trent XWB, Trent 1000 and Trent 7000, together with a growing aftermarket, is expected to drive significant revenue growth over the next ten years as we build toward a 50% plus share of the installed widebody passenger market While the impact of the transition to the Trent 7000 has reduced Trent 700 deliveries and will hold back Civil Aerospace profit in the near term we are confident that the important investments we are making to transition our production will create a strong platform to drive customer service, improved margins and strong cash flows

Our 2014 and 2015 initiatives to reduce manufacturing and back office costs within Aerospace and Marine are on track to reduce costs by £145m by the end of 2017

In addition, we have made a good start to the transformation programme that will add pace and simplify our business, and create incremental enduring cost savings of between £150m and £200m per annum from the end of 2017 onwards. These initiatives will make us a more efficient and resilient business At the same time, we will continue to invest appropriately to strengthen our engineering and operational excellence and aftermarket products and services. We have started the journey that will return the Company to its long-term trend of profitable growth

OUR **STRATEGIC PRIORITIES**GOING FORWARD

VISION – BETTER POWER FOR A CHANGING WORLD "...to be the market leader in high-performance power systems where our engineering expertise, global reach and deep industry knowledge deliver outstanding customer relationships and sustainable solutions."

STRATEGIC FOCUS – OUR PRIORITIES FOR DEVELOPING THE BUSINESS '...focus on differentiated, mission-critical power systems which create high barriers to entry in our chosen markets. Leverage world-leading engineering, operational and customer service excellence to drive growing market shares, capture long-term aftermarket value and deliver profitable growth.'

1

Engineering excellence

Investing in and developing the excellence of our engineering to produce high-performance power systems

<u>2</u>

Operational excellence

Transforming our manufacturing and supply chain to embed a lean approach across our facilities and processes

3

Capturing aftermarket value

Leveraging our installed base, product knowledge and capabilities to provide outstanding services to customers

Underpinned by a commitment to developing our people and our culture in a safe and ethical environment.

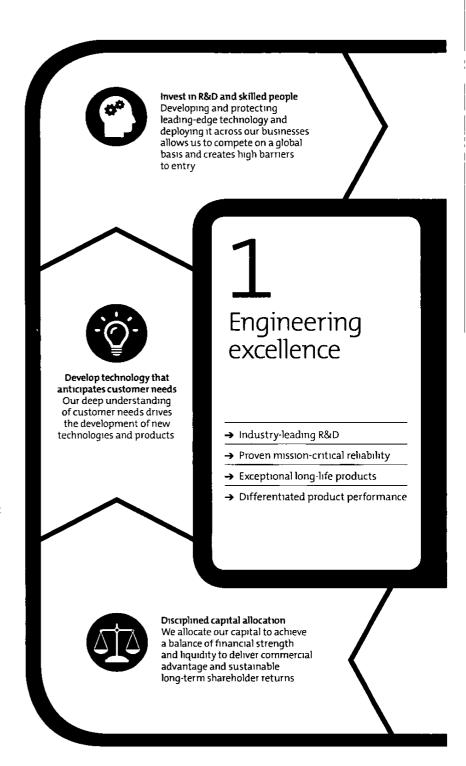
OUR BUSINESS MODEL

Our business model is to capture value from markets for high-performance power. We do this by developing advanced, integrated power and propulsion systems and providing long-term aftermarket support and delivery of outstanding customer services.

Our long-life products operate in challenging environments where they are expected to deliver sustained levels of differentiated performance. They deliver value to customers through outstanding power or other performance capabilities, together with greater fuel efficiency and mission-critical reliability. This is often combined with a flexible service offering to best suit each customer's operating needs.

We make significant investments in advanced technology and engineering programmes to deliver market-leading products. We seek to recoup our investment through developing superior products, many of which are selected for use on major multi-year programmes. We benefit from increasingly cost-efficient manufacturing as production levels rise, and by securing strong aftermarket revenues. In certain markets we strengthen our customer relationships typically through long-term service agreements where we commit to deliver exceptional standards of service, including high levels of product operational availability. This provides significant value to customers and in return we achieve long-term predictable revenues.

By growing our installed base of power systems over time and leveraging our aftermarket service activities, we enhance revenue, profit and cash flow Cash flow is then invested to support future product development and technology programmes to drive growth while providing good shareholder returns





Design and make world-class products We differentiate on performance We win and retain customers by developing and delivering products that provide more capability and offer better through-life value than those of our competitors



Manufacturing capability We manufacture cost-efficiently through a combination of economies of scale, developing a lean enterprise and integrated management of our supply chain

Operational excellence

- → Strong supply chain partnerships
- → Sustained cost reduction
- → Transforming to world-class production capability
- → Cost-focused lean enterprise
- → High performance culture

Capturing aftermarket value

- → Long-term relationships with civil and defence customers
- → Decades of in-service experience
- → Flexible range of service offerings
- Growing installed base and global service footprint



Grow market share and installed base

Our substantial order book for both original equipment and services provides good visibility of future revenues and provides a firm foundation to invest with confidence



Investment in future programme development We make significant investment in development programmes which we believe will deliver cost-efficient and competitive next-generation products



Secure and maximise service opportunity

Our equipment is in service for decades Our deep design knowledge and in-service experience ensures that we are best placed to optimise product performance and availability

ENGINEERING OUR FUTURE

CREATING WORLD-CLASS TECHNOLOGY

In 2015, we invested £1 2bn in gross R&D, which includes funding from governments and other bodies £831m was from our own funds As a result, we applied for 626 patents during the year It is this investment that creates the intellectual property we then develop and embed in our products

We leverage our own scientific and engineering talent globally to create world-class technology and also partner with leading academic institutions. This ensures we benefit from the knowledge of renowned experts in their fields, and get the best value from our investment

READ MORE AT ROLLS ROYCE COM

INVESTING IN PEOPLE AND SKILLS



Our investment in technology and skilled people is vital for a company that has advanced engineering at its core Ultimately it delivers the differentiated. high-technology products that attract our customers"

Colin Smith **Group President** Director - Engineering & Technology throughout 2015

We seek to attract and retain the best and brightest engineers. We then create a culture of innovation that allows them to develop their skills. We encourage all employees to contribute to our Innovation Portal via the Company intranet In 2015, this generated well over 1,000 ideas from which we conducted dozens of challenges

Graduates recruited in 2015

Apprentices recruited in 2015

277

Gross R&D investment in 2015

RESEARCH AND **TECHNOLOGY CENTRES**

We have a network of 31 University Technology Centres (UTCs) dedicated to advancing our understanding in specialist science and technologies that are core to our business 2015 marked the 25th anniversary of our UTC network

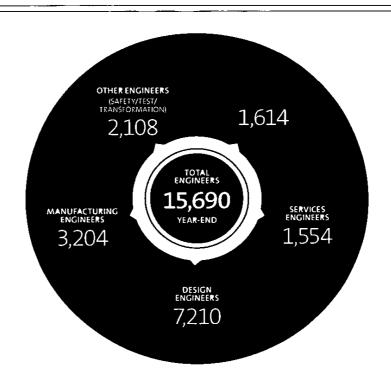
University Technology Centres

EXPERT KNOWLEDGE

Within our engineering community, we have some of the world's most knowledgeable people in specialist disciplines There are over 100 members of the Rolls-Royce Fellowship (fellows and associate fellows) - each recognised as an expert in a particular field of science and technology

STEM SUPPORT

We are actively engaged in supporting the study and teaching of science, technology, engineering and mathematics (STEM) subjects The Rolls-Royce Science Prize is a prime example This is an annual award programme that rewards excellence in science teaching - this year, we received 2,000 entries



ENGINEERING EXCELLENCE

...THROUGH DESIGN

Structured development

Our latest Product Development System, introduced in 2015, provides an even more rigorous and structured method for developing game-changing capabilities and embedding these across the Group It allows us to substantially improve our performance

Lean thinking

We further increased focus on lean thinking and behaviours during 2015, with the aim of transforming our business into a true lean enterprise. By a relentless pursuit of efficiency and continuous improvement we are seeking to empower our people to reduce waste in all its forms and deliver products and services efficiently.

Our Vision 20 approach to research and development of technology over a 20-year horizon

VISION

5

Near-term technologies ready to embed into new products

VISION

10

Leading edge and validated technologies

VISION

20

Emerging and as yet unproven technologies

LATEST MARINE THRUSTERS

Permanent magnet tunnel thrusters are now entering service. These improve efficiency and response, while reducing vibration, noise and emissions.

FUTURE MAKING

...THROUGH **MANUFACTURING**

An important part of the design process is to consider the most effective way of manufacturing the often complex components that go into our products These considerations are an intrinsic part of design engineering for any Rolls-Royce product Teams of design and manufacturing engineers work closely on the development of future products

Advanced Manufacturing Research Centres (AMRCs)

Our growing network of seven AMRCs forms a unique resource to bridge the gap between early research and industrial application, delivering step-change improvements in product competitiveness and business performance. The network supports all our key manufacturing process technologies including additive layer manufacturing (3D printing) and advanced composites

These highly collaborative public/private partnerships are a national asset, supported by long-term government commitment and delivering benefits through the entire supply chain for both original equipment and aftermarket activities

Advanced Manufacturing Research Centres

READ MORE AT ROLLS ROYCE COM

BUSINESS REVIEW

Summary

The Civil Aerospace business is a major manufacturer of aero engines for the commercial large aircraft and corporate jet markets. We power 35 types of commercial aircraft and have more than 13,000 engines in service around the world.

Key highlights

- → Underlying revenue up 3%, solid growth in aftermarket revenues offset lower new engine sales.
- → Underlying profit before financing 14% lower than 2014, largely reflecting lower gross margins, due to adverse mix effects and higher R&D charges, partially offset by the impact of life-cycle cost improvements, retrospective long-term contract accounting benefits, a reversal of impairment of contractual aftermarket rights and lower restructuring costs.
- → £3.8bn order book growth, led by Trent 900 and Trent XWB orders Trent XWB now nearly 50% of order book.
- → New Trent engines, 1000 TEN, XWB-97 and 7000, on track for entry into service in 2017 and 2018
- Good progress modernising supply chain to reduce costs and increase capacity for Trent XWB ramp up over next four years.

Underlying revenue mix

- O£ revenue 47%
 Services revenue 53%
- Underlying revenue by sector
- Large engines 63°
 Small & medium 37°

CIVIL AEROSPACE

OPERATIONAL REVIEW

Overall underlying revenue for Civil Aerospace grew 3% on a constant currency basis (up 1% at actual rates) with steady growth in services (up 9% at constant rates, including a £189m one-off benefit discussed below) which more than offset the reduction in original equipment (down 3% at constant rates) Second-half growth was particularly strong as the business improved original equipment delivery performance on a number of programmes, notably in corporate jets

Original equipment revenues from widebody engines linked and other reduced 11% reflecting a slow-down in linked Trent 700 deliveries for the Airbus A330 ahead of the introduction of the Trent 7000 for the A330neo, together with reduced sales of linked Trent 900 engines for the Airbus A380, partly offset by increased linked Trent 1000 engine sales for the Boeing 787 Dreamliner in addition, sales of spare engines to joint ventures generated revenue of £189m (2014 £138m)

Original equipment revenues from unlinked widebody engines increased by 29%, largely a result of an increase in unlinked Trent XWB and other Trent engine deliveries

The 17% increase in widebody services revenue was mainly driven by increased flying hours from our growing fleet of installed Trent 700, Trent 900 and Trent 1000 engines and a £189m one-off benefit resulting from refining the basis for taking account of risk in our forecasts of future revenue on long-term contracts. This was partially offset by lower utilisation of some of our more mature engine types, notably the Trent 500 and Trent 800

Within our corporate engine business we had good revenue growth from our BR725 engine which powers the Gulfstream G650 and G650ER This was offset by lower volumes for our other products due to weaker demand. from Chinese, Russian and Brazilian customers As a result, corporate original equipment revenues declined 1% Despite a reduction in new corporate engine deliveries, our installed base of corporate jet engines continued to grow, contributing to a 13% increase in services revenues from these products

Services revenues from our regional jet engines declined 14%, reflecting retirements and reduced utilisation of relevant fleets by North American operators

On the V2500 programme, original equipment revenues declined 9% due to reduced demand from International Aero Engines (IAE) for V2500 modules to power the Airbus A320ceo, reflecting a mix change in engine types powering the aircraft ahead of the introduction of the A320neo Despite continued growth in the installed base of engines, services revenues on the V2500 were down 1% overall reflecting a combination of fewer overhauls, lower spare parts sales and reduced engine flying hours

Overall gross margins for Civil Aerospace were 22 0% (2014 24 5%) The year-on-year reduction in margin of £139m reflected the lower

proportion of linked Trent 700 engine sales, weaker corporate jet engine volumes and a declining regional aftermarket, partially offset by £16m higher gross margin contribution from sales of spare engines to joint ventures (£67m in 2015 compared to £51m in 2014)

In addition, these factors were partially offset by a number of contract accounting adjustments and reversals of impairments and provisions

The in-year benefit of retrospective long-term contract accounting adjustments as expected was a net positive of £222m (2014 total benefit of £150m) Of this, £189m was a one-off benefit resulting from refining the basis for taking account of risk in our forecasts of future revenue In 2012, it was agreed with the Group Audit Committee that a comprehensive review would be completed during 2015. The new enhanced methodology should better reflect risk, current experience and expected long-term performance Other long-term contract accounting adjustments totalled a net benefit of £33m (2014 total benefit of £150m) This comprised a retrospective charge of £107m (2014 benefit of £90m), reflecting reduced customer fleet utilisation mainly in respect of the Trent 500 and Trent 800, other commercial changes and technical risks, offset by the benefit of £140m (2014 benefit of £60m) from life-cycle cost improvements

Full-year performance also benefited from the reversal of previously recognised impairments on contractual aftermarket rights (CARs) and release of a related provision with a profit of £65m being recognised (2014) impairment charge of £19m) This reflected a significantly more positive outlook for future maintenance costs for a Trent 1000 launch customer which enabled the reversal of a previous impairment. This also resulted in the capitalisation of £22m of 2015 CARs that would otherwise have been impaired

Costs below gross margin were £5m lower than the previous year Within this, R&D charges were £64m higher, reflecting increased spend on key programmes, particularly in respect of the Trent 1000 TEN, the Trent 7000 and the Trent XWB-97 These engines, now in their final stages of preparation before flight testing, are due to enter service in 2017 and 2018. They represent a significant advance on previous Trent designs, providing substantial fuel burn improvements The Trent 7000 and Trent XWB-97 programmes have yet to reach a point at which their costs can be capitalised In addition, following its successful entry into service, continuing investment in the Trent XWB 84 engine can no longer be capitalised investment also increased to develop future corporate jet engine technology

CIVIL AEROSPACE / KEY FINANCIAL DATA

	2014	Underlying change	Acquisitions & disposals	Foreign exchange	2015
Order book	63,229	3,800		_	67,029
Engine deliveries	739	(27)		_	712
Underlying revenue	6,837	201	_	(105)	6,933
Change		+3%		-2%	+1%
Underlying OE revenue*	3,463	(117)		(88)	3,258
Change		-3%		-3%	-6%
Underlying services revenue*	3,374	318		(17)	3,675
Change		+9%		+1%	+9%
Underlying gross margin	1,675	(139)		(10)	1,526
Gross margin %	24 5%	-270 bps			22 0%
Commercial and administrative costs	(283)	(14)		1	(296)
Restructuring costs	(82)	75			(7)
Research and development costs	(461)	(65)	_	11	(515)
Joint ventures and associates	93	8	-	3	104
Underlying profit before financing	942	(135)	_	5	812
Change		-14%	_		-14%
Underlying operating margin	13 8%	-230 bps			11 7%

The methodology basis for the allocation of Civil Aerospace revenues on linked TotalCare contracts between original equipment and aftermarket has been reviewed and amendments made to reflect better the commercial substance of the combined contracts. Historically, the allocation has resulted in original equipment revenue and aftermarket revenue reflecting the contractual terms rather than the commercial substance of the contracts. The 2014 figures have been restated on the same basis. the impact was an increase in original equipment revenue of £198m and an equal decrease in aftermarket revenue

The R&D charge was reduced by £94m (2014 £71m) by the recognition of entry fees receivable from risk and revenue sharing arrangements (RRSA)

Underlying corporate, administration and other costs were £14m higher Restructuring costs were £75m lower reflecting the significant charges taken in 2014

As a result, profit before financing and tax was 14% down, reflecting a combination of lower overall gross margins, increased R&D and reduced restructuring costs. Taking account of foreign exchange effects, underlying profit before financing and tax was £812m (2014 £942m).

Trading cash flow before working capital movements improved year-on-year by £48m, despite the headline drop in underlying profit before financing of £130m and the higher level of CARs additions. This is largely due to a reduced level of property, plant and

equipment additions and a lower spend on certification costs and participation fees. The £286m year-on-year difference in working capital movements was largely due to differences in the timing of payments to suppliers and increased draw down of deposits in 2015.

Investment and business development

Order intake of £12 8bn in 2015 for Civil Aerospace was £1 1bn up on the previous year As a result, the order book closed at £67 0bn, up £3 8bn or 6% on the previous year

Significant orders during the year included our largest ever order by value to provide Trent 900 engines and TotalCare service support for 50 Airbus A380s for Emirates worth \$9 2bn of which \$6 1bn is recognised within the order book. Other major orders included Trent 1000 engines to power 21

Boeing 787 Dreamliner aircraft and long-term TotalCare support for Air China and Ethiopian Airlines, and a \$2 4bn order for engines and services with HNA Group

Engineering excellence remains the cornerstone of our value to Civil Aerospace customers

Several important engineering milestones were achieved during 2015. For widebody engines, the focus has been on completing the development and testing of the new Trent 1000 TEN and the Trent XWB-97. The results of initial tests on both engines are broadly in line with expectations. In December 2015, the Trent XWB-97 flew for the first time and has since undergone rigorous testing in a number of conditions. The Trent 1000 TEN has also completed several major milestones. In addition, a hybrid Trent 7000, produced to de-risk the development programme, ran for the first.

CIVIL AEROSPACE / NEW DISCLOSURE ON REVENUE SEGMENTATION

	2014		Underlying Foreign		2015	
	%	£m	change	exchange	%	£m
Underlying revenue	100%	6,837	201	(105)	100%	6,933
Underlying OE revenue	51%	3,463	(117)	(88)	48%	3,258
Widebody engines linked and other	26%	1,766	(191)	(5)	23%	1,570
Widebody engines unlinked installed	6%	392	114	(2)	7%	504
Corporate (and other small engines)	14%	974	(9)	(62)	14%	903
V2500	5%	331	(31)	(19)	4%	281
Underlying services revenue	49%	3,374	318	(17)	52%	3,675
Widebody engines	30%	2 029	336	6	34%	2,371
Corporate	6%	383	50	(8)	6%	425
Regional	6%	427	(61)	(6)	5%	360
V2500	7%	535	(7)	(9)	7%	519

CIVIL AEROSPACE / NEW DISCLOSURE ON TRADING CASH FLOW

£m	2015	2014	Change
Underlying profit before financing	812	942	(130)
Depreciation and amortisation	410	381	29
Sub-total Sub-total	1,222	1,323	(101)
CARs additions	(161)	(86)	(75)
Property, plant, equipment and other intangibles	(502)	(748)	246
Other timing differences*	(75)	(53)	(22)
Trading cash flow pre-working capital movements	484	436	48
Net long-term contract debtor movements	(406)	(463)	57
Other working capital movements	(78)	208	(286)
Trading cash flow**	0	181	(181)

Includes timing differences between underlying profit before financing and cash associated with joint venture profits less dividends received provision charges higher/ (lower) than cash payments, non-underlying cash and profit timing differences (including restructuring) and financial assets and liabilities movements

^{**} Trading cash flow is cash flow before deficit contributions to the pension fund taxes payments to shareholders foreign exchange on cash balances and acquisitions and disposals

time and is now being put through its paces with a series of rigorous tests

For corporate jets, developments in the year were more modest. Strong orders for the BR725 have sustained steady original equipment volumes as the new Gulfstream G650ER entered service, despite a weakening market Failure in past years to secure new positions on some important new corporate jet platforms contributed to a weak order intake in the year which will impact future volumes and revenues adversely As part of our technology strategy, investments are being made to secure future opportunities and regain its position as the leading provider to the important market of large cabin long-range corporate jets

Investing in new aerospace supply chain capabilities to help drive operational excellence

As part of the supply chain transformation underway in the business, several important new facilities were completed during the year. These included the opening of our Advanced Blade Casting Facility in Rotherham, UK, which will halve the time it takes to manufacture turbine blades, and an expansion of our Trent XWB production centre in Derby We also announced plans to invest in our facility in Inchinnan to create a new Centre of Competence for manufacturing aerofoils and established a joint venture with Liebherr to develop manufacturing capability and capacity for the power gearbox for our UltraFan™ demonstrator programme

Strengthening our aerospace aftermarket service offering

During 2015, we broadened our service offering and strengthened our support network to provide customers with greater choice, flexibility and capability at all stages of the engine lifecycle, supporting a growing installed base

This included making improvements to our Trent service network which will result in increased competition among our Approved Maintenance Centres (AMCs) and the announcement of our first independent AMC, Delta TechOps We have also set up a global network of Customer Service Centres,

bringing us closer to our customers, working in their time-zones

We launched a new service, SelectCare™, which fits between our comprehensive TotalCare and general maintenance repair and overhaul services, where customers contract for individual shop visit support At the same time, we announced American Airlines as the launch customer We also announced our first customers for TotalCare Flex®, a new service targeting owners and operators of more mature engines. Cathay Pacific, AerCap, South African Airways and BMI Regional chose the service for Trent 800, Trent 500 and AE 3007 engines

Civil Aerospace outlook

As we set out in November 2015, we believe the long-term outlook for Civil Aerospace remains very good, led by a strong widebody order book for fuel efficient engines. Key to the long-term success of the business is converting this exceptional order book into a large installed base of engines that meet customer demands for safe, reliable, efficient operation while driving profitable engine flying hour revenues. The next few years will be very important as we ramp up production of new engines - in new, efficient facilities and invest in the development of future engine platforms that will benefit the order book from 2020 onwards. As a result, until we gain additional aftermarket scale, or complete our industrial transformation and improve unit costs and cash margins, the business will continue to be a net investor of cash

Over the next few years the transition from 'linked to 'unlinked contracts creates a headwind to reported profit but no change to cash flows

In the future, an increasing proportion of our new engines will be sold to the airframer on a sole-source basis, in particular the new Trent XWB and Trent 7000 for use on the Airbus A350 and A330neo respectively As a result, a significantly larger proportion of our sales in the future will be accounted for on an 'unlinked' basis. While this does not change. cash flows, it does change the timing of when profit is recognised across the OE and aftermarket contracts Under 'unlinked' accounting the engine sale and aftermarket contracts are accounted for separately

Engines delivered in 2015

This typically results in lower upfront profit recognition on engine delivery with significantly higher proportion of profit in the aftermarket period. This is in comparison to 'linked' accounting, where a blended margin is applied across the engine sale and aftermarket contracts

Near-term conditions in some segments remain challenging. We continue to expect our Civil Aerospace business to underperform 2015 underlying profit before finance and tax by around £550m. The significant headwinds related to Trent 700 volume reductions and the non-recurrence of a number of one-off benefits seen in 2015 remain broadly unchanged in addition, we still expect to see weaker demand for new corporate jets and declines in demand within our regional jet aftermarket. The aftermarket benefit of higher levels of engine deliveries and increased installed thrust is expected to be largely offset by the underutilisation of older large engines However, the business will benefit from reduced costs from the restructuring initiatives started in 2014

We now expect the TotalCare net asset to grow from £2 2bn and peak at around £2 5bn allowing for a more positive demand outlook for our 'linked' accounted engines and the benefit of further life-cycle cost improvements now being seen in engine performance

MARKET REVIEW

Rolls-Royce is one of the world's leading civil aero-engine manufacturers with particular strengths in engines for civil widebody aircraft and large business jets, underpinned by our strength and continued investment in technology

We are market leaders in the large business jet fleet market powering aircraft from most of the main airframers. We have a strong market position on widebody aircraft produced by the world's two major airframers. Boeing and Airbus, who are broadly consistent in forecasting traffic growth (Revenue Passenger Kilometres) of approximately 5% CAGR over the next 20 years. In the engine market for narrowbody aircraft, we continue to supply some parts and services for the IAE V2500 engine family

Potential for OE and services over the next 20 years

Civil Aerospace – all sectors

\$1,720bn

Original equipment

\$1,110bn

Aftermarket

\$610bn

Market dynamics

- Overall there has been a slowdown in all major geographical markets for new aircraft orders reflecting a period of higher than normal order placement for new airframe products in recent years (principally Airbus A350 and A330 neo, and Boeing 787 and 777X)
- Long term growth in the number of widebody aircraft in the global fleet has historically been strongly correlated to global GDP growth
- Asia and the Middle East are strong drivers of growth, correlating to their regional GDP growth
- Historically, growth has recovered quickly following major economic shocks

Our current share in the widebody engine market is at 31% of the installed widebody passenger fleet and is expected to reach 50% early in the next decade

Older widebody aircraft are experiencing reduced utilisation by certain airlines, in particular Boeing 777s and Airbus A340s

 The re engining of the A330, announced in summer 2014, reduced Trent 700 sales ahead of the new Trent 7000 entering service in 2017 as the sole source engine for A330neo

- Over 90% of Rolls-Royce large engine fleet is covered by our TotalCare service agreements
- We are the market leader in large business jet aircraft engines, with 55% market share of the large/very large business jet market in 2015

Over 65% of Rolls-Royce business jet engines are covered by our CorporateCare® service agreements

Demand for large business jets is related to global economic growth and increases in the number of high net-worth individuals the sector has historically been fairly resilient to financial shocks

 The current business jet market is slowly recovering in the US (our largest market), but is currently going through a slowdown elsewhere due to political tensions and customer anticipation of new models about to enter into service Overall, this sector is expected to grow faster than global GDP in the long term

In the regional sector, after market demand for engines on 50-70 seat aircraft is reducing as aircraft approach the end of their lives

Business risks

If we experience a major product failure in service, then this could result in loss of life and critical damage to our reputation

- If an external event or severe economic downturn significantly reduces air travel, then our financial performance may be impacted
- If our airframer customers significantly delay their production rates then our financial performance may be impacted
- If we fail to achieve cost reductions at the necessary pace then our ability to invest in future programmes and technology may be reduced

If we experience significant pricing pressure from increased competitor challenge in our key markets, then our financial performance may be impacted

If we suffer a major disruption in our supply chain, then our delivery schedules may be delayed, damaging our financial performance and reputation

 If there are significant changes to the regulatory environment for the airline industry then our market position may be impacted

Competition

 GE is the main competitor supplying engines in the widebody sector. In 2015. deliveries of engines for widebody passenger aircraft were split Rolls-Royce 38%, GE 54%. Pratt & Whitney 2% and Engine Alliance 6%.

Rolls Royce is well positioned on all Airbus widebody airliner programmes and competes with GE on the Boeing 787 family

Rolls-Royce is the sole engine provider on the Airbus A350 XWB family where 775 aircraft have been ordered so far

GE is the sole engine provider on the Boeing 777X aircraft, scheduled to enter into service in 2020 where 306 have been ordered

- In large business jets the main competition is GE, Pratt & Whitney and Safran, in 2015 the GE-Honda joint venture entered the market in very low thrust engines
- Rolls-Royce has 3,100 powered business jets flying representing 55% market share of the large/very large business jet fleet

Opportunities

Our position and long-term prospects in the widebody sector are strong across our Trent family

The Trent XWB has successfully completed its first year in service and the new Trent XWB 97 engine made its first test flight in November 2015 and is on schedule to enter into service ın 2017

The new Trent 7000 is scheduled to enter into service in 2017 on the A330neo We have sole source on this platform which will replace the A330, on which we are one of three engine providers

We will be introducing the new Trent 1000 TEN in 2017 for the Boeing 787 On the 787 Rolls Royce engines have been selected for 42% of the current order book

A potential significant new entrant into the civil sector is China's COMAC which is developing a narrowbody aircraft for entry into service towards the end of the decade COMAC is also planning a joint programme with Russia's UAC to develop a widebody aircraft targeting entry into service around 2025. We remain in close dialogue with COMAC and UAC to understand their plans and whether their widebody programme presents an opportunity for Rolls-Royce

Our business jet market share is likely to fall in the medium term with the success of new entrants into the large/very large sector, but the market remains attractive and we will continue to invest to improve our position and retain leadership

Key Rolls-Royce differentiators

Barriers to entry are extremely high in the civil sector. We invest heavily to maintain market leading technologies and system level integration capabilities to deliver the best engine performance for our customers We offer a wide range of aftermarket services which provide flexible and cost effective options to our customers and build long term customer relationships

Exemplary year for Trent XWB

On 15 January 2016, the world's most efficient aero engine completed its first year in service. The Trent XWB on the A350 XWB airliner achieved the milestone in style having delivered outstanding performance over its first 12 months of operation, with launch customer Qatar Airways.

The engine lived up to its credentials in terms of being the most efficient engine ever and the Trent XWB also managed to claim the crown of being the most reliable engine with a dispatch rate of 99.83%.

Designed as the next generation of medium-/long-haul airliners, the A350 is an all-new family of aircraft from Airbus.

The Trent XWB engine represents the largest single element of our £76.4bn order book by some margin. Over 1,500 of the engines have been ordered by more than 40 airlines, from important existing customers and from new Rolls-Royce customers all over the world.

READ MORE AT ROLLS-ROYCE COM

Summary

We are a leading engine maker for the military transport market and the second largest provider of defence aero-engine products and services globally. Defence has 16,000 engines in service with 160 customers in over 100 countries.

Key highlights

- → Underlying revenue 5% lower; revenues impacted by weaker helicopter and trainer volumes, partially offset by higher combat original equipment sales.
- Underlying profit before financing up 4%, steady gross margin and lower restructuring costs offset higher R&D charges.
- → Strong positions in transport and patrol, and combat underpin outlook for a steady performance in 2016.
- → Major five-year \$600m investment in Indianapolis, US, to improve cost base and benefit long-term growth.

Underlying revenue mix

■ OE revenue	39%
Services revenue	61%

Underlying revenue by sector

Combat	36%
 Transport and patrol 	43%
Other	21%

DEFENCE AEROSPACE

OPERATIONAL REVIEW

Underlying revenue at £2,035m was 5% lower on a constant currency basis (down 2% at actual exchange rates). Lower original equipment volumes for helicopters and trainers were partially offset by growth in LiftSystem™ volumes. Aftermarket revenues reflected lower volumes on helicopter spares partially offset by higher revenues related to long-term service agreements for UK combat aircraft.

Despite the reduced revenues, gross margin improved to 28.5%. Lower helicopter volumes and lower margins on some transport contract extensions were offset by higher LiftSystem volumes and increased retrospective margin improvements of £101m (2014 £53m) on existing long-term contracts. These relate to various combat platforms, where overall profitability has been improved by changed flying patterns and lower service costs, including approximately £40m (2014 £nil) due to one-off contract and scope variations.

Overall R&D costs were £20m higher in 2015 reflecting increased investment in new programmes. Restructuring costs were lower due to reduced level of severance costs and lower costs related to changing our operational footprint.

Underlying profit before financing of £393m was 4% up on the prior year on a constant currency basis, reflecting the lower volumes, the one-off margin improvements increased R&D charges and lower restructuring charges As a result operating margin improved by 170 basis points to 193%

Investments and business development

Overall, the Defence order book declined 5%, in large part reflecting the 2014 benefit of the significant multi-year order for engines to power C-130J aircraft With a major focus within defence budgets on cost control, 2015 saw significant interest in availability-based service contracts and also on offering efficiency upgrades New contracts included an extension of the UK's Hercules Integrated Operational Support contract and commitment to the UKs Future Combat Air System (FCAS) programme After successful first flights on US 'Hurricane Hunter' P-3 aircraft in May we received strong international interest including an initial USAAF order for the T56 3 5 technology insertion kit upgrade delivering both fuel saving and performance benefits for an engine programme which has been in existence for over 50 years

Outside the UK and US markets, our particular focus has been on positioning ourselves to be competitive for forthcoming combat programmes. We had success in South Korea in conjunction with Airbus, with the contract being awarded to power the A330 tanker fleet with Trent 700 engines, as well as agreeing an order for our largest ever number of engines - a ten-year order with Robinson to supply at least 1,000 RR300 engines

Long term it remains essential that we have a cost-efficient supply chain to support the profitable growth of our business in a competitive market. To support future business competitiveness we initiated a major \$600m investment in the upgrading of our indianapolis facility which will bring a combination of cost reductions, operational efficiencies and greater development capabilities for defence technologies. This investment recognises the importance of the US market and our strong position there

Defence Aerospace outlook

The long-term outlook for Defence Aerospace remains positive with good opportunities to capitalise on its strong positions in transport and patrol and combat Investment in developing new advanced technologies will be a feature of R&D for the next few years as the business ensures it can compete for new opportunities

The outlook for revenues in 2016 remains steady Operating profit will be adversely impacted by the lower level of expected long-term contract benefits in 2016, together with higher R&D and operational restructuring costs

Free cash flow from Defence Aerospace is expected to remain strong in the longer term reflecting the high proportion of aftermarket revenues However, in the coming year free cash flow is expected to be lower reflecting the increased cost of investment and the run out of costs on key UK programmes where deposits have been received in advance of delivery

Investment in US facilities

S600m

DEFENCE AEROSPACE / KEY FINANCIAL DATA

£m	2014	Underlying change	Acquisitions & disposals	Foreign	7015
Order book	4,564	(248)	cz disposais	exchange	2015 4,316
Engine deliveries	744	(95)			649
Underlying revenue	2,069	(101)	_	67	2,035
Change		-5%		+3%	-2%
Underlying OE revenue	816	(45)		30	801
Change		-6%	_	+4%	-2%
Underlying services revenue	1,253	(56)	_	37	1,234
Change		-5%	_	+3%	-2%
Underlying gross margin	567	(9)	_	21	579
Gross margin %	274%	+90bps	_	-	28 5%
Commercial and administrative costs	(112)	(7)	_	(5)	(124)
Restructuring costs	(55)	48	_	(1)	(8)
Research and development costs	(50)	(20)		(3)	(73)
Joint ventures and associates	16	3	_	<u>-</u>	19
Underlying profit before financing	366	15	_	12	393
Change		+4%			+7%
Underlying operating margin	177%	+170bps	_	_	19 3%

MARKET REVIEW

Rolls-Royce is a market leader in defence aero engines for military transport aircraft and has strong positions in other sectors, including combat, trainer aircraft and helicopters. We are pursuing new opportunities emerging in Asia and the Middle East to mitigate flat defence budgets in the established North American and European markets.

Market dynamics

Defence budgets are expected to show modest growth, flat in real terms in the US and UK partially offset by growth in other emerging markets

Western customers are seeking to reduce and minimise costs by delaying or deferring purchases, improving asset availability and extending lifecycles of aircraft/engines

Increasing levels of economic affluence and political tension in the Asia Pacific and Middle East regions are leading to increases in both original equipment and services spend

Revenue has historically been broadly balanced between original equipment sales and aftermarket services, biased towards the latter

Competition

- GE Pratt & Whitney Honeywell and Safran are the main competition in our sectors. In Europe, large defence programmes tend to be addressed by consortia of two or more companies due to the political environment Examples include our collaboration with ITP MTU and Safran on the TP400 engine for the Airbus A400M and with GE Avio, ITP and MTU on the EJ200 engine for the Eurofighter Typhoon.
- We support/lead sales campaigns globally on behalf of Eurojet for export sales opportunities of Eurofighter Typhoon
- Barriers to entry are high and we do not envisage the competitive landscape changing significantly in the near future

Business risks

If we experience a major product failure in service then this could result in loss of life and critical damage to our reputation

If global defence spending experiences a further downturn then our financial performance may be impacted

- If we do not continue to invest to improve the performance and cost of our products then we may lose market share
- If we suffer a major disruption in our supply chain then our delivery schedules may be delayed damaging our financial performance and reputation

If we do not secure new applications, then our capabilities may be eroded in the long term

Opportunities

 The UK's FCAS potentially a joint programme with France presents a longer-term combat opportunity to Rolls-Royce

Our LiftFan¹¹⁰ system for the F-35B is only just entering service and we expect to deliver over 400 systems in the next 20 years

 Emerging markets, such as India, Turkey and South Korea are inviting bids on new combat aircraft. We estimate a potential of over 300 aircraft for these programmes.
 In transport, we believe the Airbus A400M transport aircraft and V-22 Osprey have overseas sales opportunities.

We see strong growth potential for increased service provision to the military and we are well positioned with programmes such as MissionCare®

Key Rolls-Royce differentiators

We are investing heavily in technology integration capabilities and facility modernisation to deliver capable, affordable engines for our customers. Additionally, we leverage our large installed base and strong services capabilities to provide superior and affordable service solutions.

Potential for OE and services over the next 20 years

Defence Aerospace – all sectors

\$400bn

Original equipment

\$125bn

Aftermarket

\$275bn

World leader in transport engines

The Lockheed Martin C-130J is one of the most reliable and versatile transport aircraft in the world (the KC-130) being the tanker version).

Powered by the Rolls-Royce AE 2100 engine, the C·130J family of aircraft follows on from the original, venerable, C-130, which is still giving sterling service all over the world with its Rolls-Royce T56 powerplants

In fact, Rolls-Royce has breathed further life into the T56 by developing a new version of the engine which is delivering significant fuel savings and which the Group believes will see the T56 continue in service for many years to come. In December 2015, we announced that Rolls-Royce was one of three companies to benefit from a £369m contract. to support the RAF's C-130 fleet

The C-130t has also seen developments beyond its transport and refuelling role. One of the lessons learned in Afghanistan was the constant demand for airborne video surveillance and the requirement for a

'quick strike' weapon to help protect troops on the ground. The US Marine Corps turned to the KC-130J. The aircraft can loiter in the air for over ten hours thanks to the performance of its AE 2100 engines and so they armed it with a quick strike weapon that would not affect the core mission of aerial refuelling.

In its tanker role, the aircraft has the ability to refuel both low-speed helicopters and high-speed jet aircraft by changing the basket on the drogue system. The aerial refuelling pods can deliver more than 12,000 US gallons of fuel and can refuel two arrcraft simultaneously.

In addition to the V-22 and C-130J families, Rolls-Royce also powers the Airbus A330 Voyager tanker/transport with Trent 700 engines and we are a major partner in the Europrop International consortium responsible for the design and build of the TP400 engine for the new A400M military transport aircraft. The first A400M began active service with the RAF during 2015.

Summary

Power Systems is a leading provider of high- and medium-speed reciprocating engines, complete propulsion and drive systems, distributed energy solutions and fuel injection systems. The business serves the marine, naval, land defence, rail, mining, oil & gas, construction & agriculture and power generation markets through its core brands MTU, MTU Onsite Energy, Bergen and L'Orange.

Key highlights

- Underlying revenue 3% lower; weaker original equipment partially offset by good growth in services.
- Underlying profit before financing 15% lower; led by lower gross margin.
- Positive outlook for 2016; healthy closing order book with good positions in key market segments.
- → Long-term R&D investments to increase cost competitiveness in higher volume engine applications.

Underlying revenue mix

 OE revenue 	68%
 Services revenue 	32%

Underlying revenue by sector

Marine	37%
Industrial	21%
Energy	30%
Defence and other	17%

POWER SYSTEMS

OPERATIONAL REVIEW

Underlying revenue of £2,385m was 3% lower on a constant currency basis (12% lower at actual rates) Original equipment revenue was 5% lower reflecting weaker oil & gas markets and weaker governmental demand which peaked in 2014 This was partially offset by an improved luxury yacht demand and some recovery in our sections of the construction and agriculture market where new emissions regulations increased demand Underlying service revenues were up 3% despite some weakness in spare parts sales in North America and Europe

Gross margins were slightly lower at 26 6% (2014 273%) reflecting a change in product mix and lower overall volumes as expected

Underlying profit declined 15% as a result of the lower gross margins. On a constant currency basis costs below gross margin were unchanged

Investment and business development

Our Power Systems business serves a variety of markets ranging from marine, industrial, construction & agriculture to defence and power generation. This diversity enabled. the business to mitigate some of the weak environment, particularly that linked to oil and commodities

2015 order intake was £2 5bn (2014 £2 6bn) with the closing order book broadly unchanged at £19bn Within this, the defence sector demonstrated greater resilience with a combination of a higher proportion of long-term service contracts together with the winning of the first order worth approximately €80m from the British Army for 589 MTU diesel engines for the new Scout Specialist Vehicle

Within the broad range of industrial applications, while a number of markets deteriorated through the year, there was positive news. This included contract wins from a Chinese company for 232 MTU Series 4000 engines for freight locomotives bound for South Africa, and further orders for luxury yacht engines. An extension to our longstanding co-operation with Daimler was also agreed for the development of a new range of industrial engines, which comply with new EU off-highway regulations for reduced soot emissions

The energy segment generated an increased order intake in 2015 reflecting good growth in gas gensets, particularly in Asia In addition, the easing of the trading embargo with Iran is enabling the business to secure a good foothold in the country As a result, we enjoy a strong market position within back-up power, particularly for larger mission-critical applications, which is a growing market Recent notable orders came from Kuwait, Turkey and Bangladesh for the provision of back-up power for hospital modernisations and continuous power for a steel mill

Power Systems outlook

The outlook for Power Systems remains steady The business finished the year with a healthy order book for many of its key markets. As a result, while some markets remain difficult, we continue to expect the business to deliver modest growth in revenue and profit in 2016

Closing order book

£1.9bn

POWER SYSTEMS / KEY FINANCIAL DATA

£m	2014	Underlying change	Acquisitions & disposals	Foreign exchange	2015
Order book	1,971	(43)	a disposais	exchange —	1,928
Underlying revenue	2,720	(72)	_	(263)	2,385
Change		-3%	_	-10%	-12%
Underlying OE revenue	1,893	(97)	_	(178)	1,618
Change		-5%		-9%	-15%
Underlying services revenue	827	25		(85)	7 67
Change	·	+3%	_	-10%	-7%
Underlying gross margin	742	(37)	_	(70)	635
Gross margin %	273%	-70bps			26 6%
Commercial and administrative costs	(296)	(9)		30	(275)
Restructuring costs	(7)	3			(4)
Research and development costs	(183)	3		18	(162)
Joint ventures and associates	(3)	3			
Underlying profit before financing	253	(37)		(22)	194
Change		-15%			-23%
Underlying operating margin	9 3%	-110bps	<u> </u>	_	8 1%

MARKET REVIEW

The markets served by Power Systems are driven by global megatrends such as increasing population growth, rising energy, resource and food demand, increasing and stricter emissions legislation and government defence budgets. Despite the current market downturn in some of our markets, most noticeably in oil & gas and offshore, we expect long-term recovery in these and continuous growth in all of our markets. We estimate that Power Systems 'off-highway' reciprocating engine markets offer an opportunity of £650bn

Market dynamics

Population growth and increasing urbanisation are driving rising demands for energy resources and food and continuous infrastructure developments

Global GDP development with particular growth in Asia

- Increasing global and regional trade and transport of goods
- Geopolitics and an increasing multipolar world are driving modest defence budget growth (1-2%) in NATO countries with more growth in emerging markets

Increasing focus on renewable energy sources requires decentralised and clean energy solutions (eg. continuous gas and back-up power generation solutions)

Increasing environmental legislation and efficiency requirements drive emission and efficiency technologies

Current weak environment in certain markets (eg oil & gas and mining), due to current low oil and commodity price levels

Competition

Fragmented competitor landscape in 'off highway' engine markets which varies depending on specific market segments many players although a few dominate

- Continuing industry consolidation results in strong, large scale and integrated players
- Expansion of western competitors in our specific core engine markets
- Competition from Asia increasingly focusing on higher power ranges where MTU operates
- While traditional competition has been limited to engine suppliers, solution providers are becoming more relevant

Business risks

Economic some markets are currently affected by low oil and commodity prices (oil & gas mining) while some regional markets show challenges due to the current economic situation

Political increasing political tensions and sanctions might limit levels of global trade and customer access

Competitive upcoming competitors from Asia and new entrants into our existing markets can potentially put pressure on volumes and margins

Technological complementary technologies might replace existing solutions eg-energy storage for back up power

Opportunities

- Regional growth, eg. Asia, through leveraging partner companies
- Continuous development into clean propulsion and energy solutions which are compliant with new emissions regulations

Development of efficiency solutions, eg e drive/ hybrid drives and fuel diversification towards gas/dual-fuel

Enhancement of system competence and solutions to create customer value through optimised total system functionality and performance

Expansion of service portfolio, customised offerings and intelligent applications and services

Key Rolls-Royce differentiators

Technology leadership and reputation with market-leading performance and system approach especially in mission-critical applications, new product innovation (eg_hybrid/e-drive), and high level of customisation

Potential for OE and services over the next 20 years

Power Systems – all sectors

£650bn

Hybrid rail technology is the energy-saving combination of a conventional diesel engine and an electric drive system.

During 2015, Rolls-Royce completed further trials on its hybrid drive power system, the result of five years of pioneering work.

A conventional MTU railway PowerPack combines all the individual elements needed for power and efficiency into a single functional unit mounted on a supporting frame. MTU has delivered more than 6,000 of these PowerPacks to the rail industry.

The MTU hybrid PowerPack combines the benefits of a conventional diesel system with an electric propulsion module, energy storage and propulsion control system.

The basic idea of hybrid rail technology is that the kinetic energy initially generated by the diesel engine is recovered via an electric motor operating as an electric brake. This energy is stored chemically in a powerful battery for later use.

The recovery of the kinetic energy in braking mode is extremely energy- and cost-efficient, particularly in stop-and-go situations on local public transport lines where there are a large number of stops and on inclined rail sections on hilly terrains.

In 2015, for the first time, MTU performed its own tests on a hybrid train. During the tests, fuel consumption was shown to be reduced by more than 23% compared to straight forward diesel mode. Under optimum conditions, MTU believes fuel savings of 25% or more are possible.

READ MORE AT ROLLS-ROYCE, COM

Summary

Marine is a leading provider of complex and integrated propulsion and handling systems to the maritime offshore, merchant and naval markets. The product offering ranges from individual items of equipment to integrated systems and flexible mission-critical solutions, including complete vessel designs. The business has more than 4,000 customers. Seventy naval forces and over 30,000 commercial vessels use our equipment.

Key highlights

- → Underlying revenue down 16%; weak offshore markets impacting both OE and aftermarket revenues.
- → Underlying profit before financing down 94%; significant reduction in gross margin, led by lower volumes, and higher restructuring costs only partially offset by reduced commercial and administration costs.
- → Challenging outlook for 2016; led by reduced demand in offshore oil & gas markets.
- → Launched two restructuring programmes in 2015 focused on manufacturing footprint and back-office functions, expected benefits to start to accrue from 2016 onwards.

Underlying revenue mix

■ OE revenue■ Services revenue42%

Underlying revenue by sector

Merchant	24%
Offshore	56%
■ Naval	20%

MARINE

OPERATIONAL REVIEW

Underlying revenue of £1,324m was 16% lower on a constant currency basis (down 23% at actual rates). Within this, original equipment revenues were 19% down at £773m. Service revenues were more robust, although still declined 10%. This reflected weaknesses in offshore and merchant, as ship owners deferred overhaul and maintenance on the back of reduced utilisation of their vessels.

As a result of the revenue weaknesses, price pressure and cost under-recovery gross margins declined 500 basis points to 19 6% and overall gross margin was £260m, £139m lower than in 2014. As a result, with only modest reductions to date being achieved in corporate, administration and other costs, underlying profit was £15m, 94% down on a constant currency basis.

Around £15m of restructuring charges were incurred in 2015 and excluding these, underlying profit declined 83% In the first half we took a non-underlying charge of £69m for the impairment of goodwill on two of our businesses owing to a less favourable business outlook, partly driven by the impact of market deteriorations on our offshore businesses

Investment and business development

The focus in 2015 has been on repositioning the Marine business to reflect the very challenging market environment and outlook During the year, we also announced a number of restructuring programmes that will in total lead to the loss of around 1,000 employees in operations and back-office functions as we shrink our Northern European footprint, reduce indirect headcount, and consolidate manufacturing activity This will deliver projected cost savings of £65m per annum from 2017 onwards and create a business better able to compete in an increasingly cost-conscious market place which is geographically shifting towards Asia

Overall, the Marine order book declined 26% during the year, mainly reflecting a very weak offshore market, particularly in Northern Europe Orders for new vessels, projects and services were all sharply lower than 2014 and as a result order intake was only £997m, 45% down on the previous year

The offshore market was extremely weak reflecting a low oil price and reduced capital expenditure within the upstream oil exploration and related services sectors Targeted investment in R&D and improving our Asian position saw progress later in the year with two major orders from China These comprised an equipment contract for nine tug supply vessels and a package of advanced ship equipment for a dive support vessel We also saw demand from non-oil related sectors such as wind farm support and fishing trawlers

Activity within our target merchant sectors was subdued, but we made progress in our strategy of developing markets for offshore derived technologies within specialist areas such as azimuth propulsion systems for double-ended ferries. We also delivered Asia's first LNG-powered tug and the first of two all-gas powered cargo vessels for a Norwegian transport company

The naval business was focused on further development work and deliveries against contracts in both the UK and US. These included the first DDG 1000 multi-mission destroyer class for the US Navy and the world's largest, gas turbine engines, the MT30 for the UK's two new aircraft carriers. We also signed a contract to supply MT30s for operation on the first three of the Royal Navy's new Type 26 Global Combat Ship

Product development work within the business included expanding the range of permanent magnet-based propulsion systems, as well as spearheading research into our pioneering ship intelligence technology focused on data-driven valueadded services

Closing order book

Marine outlook

Overall the outlook for Marine remains cautious. We expect that the market will continue to be hit by low oil prices which will impact on demand for our products and services. As a result we will sustain our cost reduction programmes, focusing on manufacturing facilities supply chain and overhead costs, in order to drive a more competitive business while also adapting to volume risks

As set out in November 2015, we expect the net impact of weak trading conditions and cost saving initiatives to result in 2016 profits being between £75m and £100m lower than those achieved in 2015 As a result, the business is expected to be significantly loss making in 2016

MARINE / KEY FINANCIAL DATA

Ęm	2014	Underlying change	Acquisitions & disposals	Foreign exchange	2015
Order book	1,567	(403)			1,164
Underlying revenue	1,709	(269)		(116)	1,324
Change		-16%		-7%	-23%
Underlying OE revenue	1,070	(204)	_	(93)	773
Change		-19%	_	-9%	-28%
Underlying services revenue	639	(65)		(23)	551
Change		-10%	- "	-4%	-14%
Underlying gross margin	425	(139)	-	(26)	260
Gross marqin %	24 9%	-500bps	_		196%
Commercial and administrative costs	(254)	27	_	26	(201)
Restructuring costs	(4)	(16)	_	4	(16)
Research and development costs	(29)	(2)	_	3	(28)
Underlying profit before financing	138	(130)		7	15
Change		-94%		_	-89%
Underlying operating margin	81%	-750bps	_	_	1 1%

MARKET REVIEW

In Marine, where we offer integrated ship solutions (including design, propulsion, deck machinery, automation and control, and power electrics), we forecast the market opportunity across the offshore, merchant and naval market segments to be £250bn

Market dynamics

Increasing environmental legislation and system efficiency requirements

Population growth is leading to an increasing energy and resources demand for cargo and passenger transportation in the long term increasing global and regional trade and transport of goods with effects on short-sea shipping

Strong shift from traditional markets towards
Asia both in shipbuilding and operation
Geopolitics and an increasing multipolar world
results in increasing defence expenditures
especially in emerging markets which
stimulates demand for naval vessels
Increased technology requirements for harsher
environments, eg deepwater
Currently significant challenges in offshore
markets due to low oil prices and weak

Competition

especially China

Major competitors fall into two groups

 focus on strengthening systems capability
 or focus on product and technology

 Industry consolidation within recent years
 has resulted in the establishment of large
 market players
 Increasing competition from Asia

Increasing competition from industrial and electric companies driven by more focus on efficiency and electrification

Busmess risks

investment signals

Markets significant reduction in oil price creates pressure in the offshore market with all customer groups seeking to reduce costs and capital commitments

Order delays and cancellations impact our revenue cash and profit but also put our supply chain under financial stress

Competition competitors react to a depressed market by cutting costs, pricing aggressively and partnering with other players

Business continuity the main risk is our key suppliers remaining solvent. We monitor and manage this to ensure no supplier has critical mass and maintain business continuity plans for these risks and other operational risks such as IT.

Technology failure to invest in the right technologies to meet customer demand in the future

Risk of product failure in the field resulting in the need for intervention to rectify the issue with financial consequences

Opportunities

- Capture value on more advanced vessels
 in offshore
- Grow in tugs ferries and workboats and short sea shipping in merchant segments
 Continue to leverage the joint value proposition in naval markets together with MTU
- Continue to develop clean propulsion solutions which are emission compliant to new regulations, including alternative fuels (eg. gas/dual-fuel)
 Grow in integrated propulsion and electric systems

Establish a leading position in ship intelligence Leverage local partnerships to generate regional growth in Asia especially China

Potential for OE and services over the next 20 years

Marine – all sectors

£250bn

Key Rolls-Royce differentiators

Unique domain knowledge, unique system portfolio including vessel design, joint value proposition within naval together with MTU, continuous innovation and technology leadership, and leadership in ship intelligence

Waterjets for fast cats

Watercat M18 multi-purpose vessels use Rolls-Royce Steel Series Kamewa waterjets to propel them at speeds of over 40 knots. These lightweight, agile boats from Marine Alutech of Finland are ideal for fast patrol and troop transportation roles.



→ READ MORE AT ROLLS-ROYCE COM

Summary

Nuclear is a leader in propulsion system design and development for the Royal Navy's nuclear submarine fleet and is the sole provider and technical authority, managing all aspects of plant design, safety, manufacture, performance and through-life support.

In civil nuclear we provide nuclear reactor vendors and utility operators with integrated, long-term support services and solutions spanning the whole reactor lifecycle, from concept design through to obsolescence management and plant-life extension. Safety-critical systems have been supplied to around 50% of the global nuclear power plants in service. We have been a key player in the nuclear industry for more than 50 years.

Key highlights

- Underlying revenue 9% higher; strongservice revenues led by increased submarine work.
- Underlying profit before financing unchanged, excluding the benefit from a £19m R&D credit; volume benefit offset by lower margins.
- 2016 outlook steady, focus on improving delivery performance and developing civil nuclear opportunities.
- → Investing in the business to extend systems offering and increase service scope.

Potential for OE and services in civil nuclear over the next 20 years

£360bn

Underlying revenue mix

■ OE revenue■ Services revenue

63%

Underlying revenue by sector

Submarines 80%
Civil 20%

NUCLEAR

OPERATIONAL REVIEW

Underlying revenue increased 9% on a constant currency basis, led by growth in both original equipment and services. In particular, growth in submarine activities was strong. Revenue growth for our instrumentation and controls businesses was also good, particularly in Europe.

Despite the growth in revenue, gross margin declined by 240 basis points to 16 2% or £111m. This was largely due to increased costs on a number of projects with lower margin. Gross margin was also impacted by a reclassification of site costs from commercial, administration and other of around £7m. This favourably benefited costs below gross margin which also benefited from lower. R&D charges as a result of an R&D credit of £19m which covered the current and the two previous years. Excluding this, underlying profit before tax was £50m in line with the prior year. After the release, underlying profit of £70m is 40% up on the prior year.

Investment and business developments

The order book fell around 13%, reflecting delivery of our long-term contracts across both submarines and civil nuclear businesses. New orders were biased to the second half of the year, benefiting from the expansion of our business reach and capabilities.

Our civil nuclear business focuses on multi-year projects and specialist services for what is a growing global industry We were selected as preferred bidder by EDF to work on heat exchangers and waste treatment for the Hinkley Point C project in the UK and we were selected by Hitachi to be part of the Wylfa power station delivery team, the second nuclear power station scheduled in the UK's new-build programme. We also won a contract to supply safety measurement systems for the entire French fleet of 900MW reactors These mandates help to further consolidate our significant position in the European marketplace and position us well to seek further opportunities for partnerships in growing nuclear markets

In the US our acquisition of ROV Technologies Inc in March 2015 expanded our nuclear services portfolio, bringing complementary Boiling Water Reactor expertise and broadening our existing Pressurised Water Reactor remote inspection capability

Our submarine activities have concentrated on delivering against long-term contracts for the Royal Navy's nuclear submarine fleet, including delivery of the nuclear propulsion system to power HMS Artful the third Astute-class submarine, which was launched in August 2015 Our work on the Vanguard class included work on a refuelling programme and also the first successful upgrade to the reactor control and instrumentation update for HMS Vengeance At the Naval Reactor Test Establishment. HMS Vulcan the PWR2 test facility reactor was safely shut down having completed its prototyping role Development work on the new PWR3 power plant for the Successor submarine fleet continues with contract extensions agreed in preparation ahead of the government final investment decision

Nuclear outlook

The outlook for Nuclear remains steady Both submarines and civil nuclear enjoy long-term secure aftermarket revenues. While business development opportunities remain modest in the near-term new power plants for the Successor together with long-term opportunities to develop relevant products for civil nuclear applications should provide incremental growth

MARKET REVIEW

All respected global energy forecasts predict that nuclear power will continue to play a significant role in providing low-carbon, continuous and secure power. The demand for mission-critical equipment, systems and engineering services and the associated reactor support services for the civil nuclear market is forecast to be £360bn over the next 20 years

Market dynamics

Population growth and improved living standards in emerging markets are driving a rise in demand for electricity Within the future energy mix, low-carbon energy is expected to increase, with nuclear energy accounting for a significant share

Growth in nuclear power generation is predominantly driven by non-OECD countries strong growth is expected especially in China Solid growth in mature markets based on current operations and plant life extensions

Competition

 In civil nuclear the competitor landscape is fragmented and comprises reactor vendors original equipment manufacturers multi skilled companies and nuclear operators in service

Plant operators increasingly outsource service activities

Business risks

Delivery failure to meet customer expectations or regulatory requirements

Markets if nuclear markets do not grow as anticipated due to external or other political events then business will be diminished Customer strategy if programmes are cancelled as a result of strategic decisions such as abandonment of the UK nuclear deterrent or vertical integration by reactor vendors, then future revenues will be diminished

- If we experience a major product failure in service then this could result in loss of life and critical damage to our reputation
- If we suffer a major disruption in our supply chain then our delivery schedules may be delayed damaging our financial performance and reputation

Opportunities

Increasing the pace of growth of the civil nuclear business

Focusing on growth regions beyond current core markets

Strengthening our position with the rapidly growing importance of China in the civil nuclear market

Capturing a higher share of the nuclear service market through extension of our geographic reach

Key Rolls-Royce differentiators

Unique key technology capability in defence and civil nuclear with substantial credibility (more than 50 years' experience), broad mix of offerings over the whole lifecycle, reactor independent portfolio, capable of global reach

NUCLEAR / KEY FINANCIAL DATA

£m	2014	Underlying change	Acquisitions & disposals	Foreign exchange	2015
Order book	2,499	(331)	er (hapoadia	–	2,168
Underlying revenue	638	56	_	(7)	687
Change		+9%	_	-1%	+8%
Underlying OE revenue	230	27	_	(6)	251
Change		+12%	_	-3%	+9%
Underlying services revenue	408	29		(1)	436
Change		+7%		-	+7%
Underlying gross margin	119	(6)	_	(2)	111
Gross margin %	18 7%	-240bps		_	16 2%
Commercial and administrative costs	(61)	6		2	(53)
Restructuring costs	(1)	(1)			(2)
Research and development costs	(7)	21			14
Underlying profit before financing	50	20			70
Change	-	+40%		_	+40%
Underlying operating margin	78%	+230bps		_	10 2%

DELIVER

Consistent with the plans we laid out in November 2015, we have enhanced the financial disclosures for all our reporting segments to include gross margin, R&D and other costs below gross margin, as well as restructuring charges in addition, within Civil Aerospace we have provided additional revenue segmentation and a trading cash flow breakdown. These disclosures apply to both 2014 and 2015 and should help further analysis of trading performance.

Order book and order intake

During the year our order book increased by £2 7bn to £76 4bn Key orders included our record single order from Emirates for 200 Trent 900 engines which contributed \$6 1bn to the order book Throughout the year new order intake in our Marine business was very weak, driven by significant market deterioration in offshore Overall, orders were lower in Defence and Nuclear, although we view the prospects for these businesses as unchanged, reflecting long-term orders won in previous years

Underlying trading

Underlying Group revenue declined 1% in 2015 compared to 2014 on a constant currency basis. This reflects a 5% decline in revenue from original equipment, partially offset by a 4% increase in services revenue, led by Civil Aerospace. By business on a constant currency basis. Civil Aerospace revenue increased 3%, Defence Aerospace revenue decreased 5%, Power Systems revenue decreased 3%, Marine revenue decreased 16% and Nuclear revenue increased 9%.

Underlying profit before financing of £1 492m (2014 £1,681m) was 11% lower on a constant currency basis, led by a significant reduction in Marine profit, driven by weak offshore markets in particular Civil Aerospace was down year-on year, although performance was helped by around £222m of retrospective benefits (2014 £150m) led by refining the basis for taking account of risk in our forecasts of

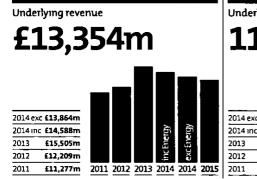


We have significantly enhanced this year's Annual Report with additional disclosures to increase transparency and understanding"

David Smith Chief Financial Officer

GROUP TRADING SUMMARY

		Underlying	Acquisitions	Foreign	
£m	2014	change	8: disposals	exchange	2015
Order book	73,674	2 725	_	_	76,399
Underlying revenue	13,864	(96)		(414)	13,354
Change		-1%_		-3%	-4%
Underlying OE revenue	7,418	(363)	_	(331)	6,724
Change		-5%		-5%	-9%
Underlying services revenue	6 446	267		(83)	6 630
Change		+4%	-	-1%	+3%
Underlying gross margin	3,523	(251)		(90)	3,182
Gross margin %	25 4%	-160bps			23 8%
Corporate and administrative costs	(1,069)	11	_	54	(1,004)
Restructuring costs	(149)	107		3	(39)
Research and development costs	(730)	(64)	-	29	(765)
Joint ventures and associates	106	10		2	118
Underlying profit before financing	1,681	(187)	-	(2)	1,492
Change		-11%			-11%
Underlying operating margin	12 1%	-130bps	_		11 2%



Underlying operating margin 11.2% 2014 exc 12 1%

Underlying profit before financing £1,492m 2014 exc £1,681m 2014 inc £1,678m 2013 £1,832m

future revenue on long-term contracts, and the reversal of previously recognised impairment on contractual aftermarket rights (CARs) and release of a related provision. Defence Aetospace delivered an improved year on-year profit which included one-time contract benefits, led by contract extensions and reduced long-term costs Power Systems was down year-on year in line with our expectations on a constant currency basis as the business managed well within a number of weaker markets Marine, as expected was sharply lower, reflecting the weak oil & gas offshore sector and Nuclear was in line, after excluding the positive R&D credit

The R&D charge increased 11% over 2014 on a constant currency basis, largely reflecting ongoing investments in Civil Aerospace for the Trent 1000 TEN and Trent XWB-97, together with higher spending on the Trent 7000 and corporate jet programmes in addition, we increased investment in future technology demonstrator programmes and improved emissions solutions for Power Systems applications in addition, capitalisation of R&D declined significantly largely due to the entry

into service of the Trent XWB 84 in January 2015 and increased recognition of entry fees

2011 2012 2013 2014 2014 2015

Underlying financing charges were £60m (2014 £61m) Underlying profit before tax was £1,432m (2014 £1,620m) The underlying tax charge was £351m, with an effective tax rate of 24 5% (2014 24 0%)

Free cash flow

11 5%

11 8%

12 2%

10 7%

Cash capital expenditure in 2015 reduced to £479m (2014 £616m), largely reflecting lower spend on new aerospace facilities Cash taxes were £160m (2014 £265m excluding Energy) The cash cost of defined benefit pension schemes in excess of the earnings charge was £46m (2014 £154m excluding Energy)

Overall, the free cash inflow for the year was £166m (2014 inflow of £437m, adjusted for Energy) The significant decline from 2014 primarily reflects lower trading margins and adverse working capital movements The TotalCare net asset movement year-onyear was slightly higher than expectations

Net debt

£1,490m

£1,206m

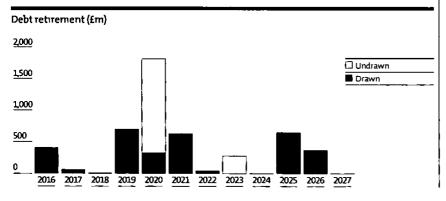
2012

2011

The Group is committed to maintaining a robust balance sheet and a strong investment-grade credit rating, which it believes are important when selling products which will be in service for decades. Standard & Poor's updated the rating of Rolls-Royce Holdings plc in January 2016 to A/negative outlook and Moody's maintained a rating of A3/stable

2011 2012 2013 2014 2014 2015

At the end of 2015, the Group's net cash balance reduced from £666m to a net debt position of £111m, reflecting the £166m positive free cash inflow, movements on balances with Rolls-Royce Holdings plc as a result of its share repurchases totalling £414m and shareholder payments of £421m Other items include residual payments related to the divestment of the Energy business and non-cash foreign exchange movements. During the year we refinanced our revolving credit facility, increasing it to £15bn, and issued two new US bonds, totalling US\$1 5bn



FINANCIAL REVIEW CONTINUED

Results broadly in line with the expectations set out in July 2015

UNDERLYING INCOME STATEMENT			
£m	2015	2014	Change
Revenue	13,354	13,864	-510
Gross profit	3,182	3,523	-341
Commercial and administrative costs	(1,004)	(1,069)	+65
Restructuring	(39)	(149)	+110
Research and development costs	(765)	(730)	-35
Share of results of joint ventures and associates	118	106	+12
Profit before financing	1,492	1,681	-189
Net financing	(60)	(61)	+1
Profit before tax	1,432	1 620	-188
Tax	(351)	(388)	+37
Profit for the year	1,081	1 232	-151
Gross R&D investment	(1,240)	(1,249)	+9
Net R&D charge	(765)	(730)	-35

SEGMENTAL ANALYSIS

	Revenue		Gross profit		Profit before financing				
£m	2015	2014	Change	2015	2014	Change	2015	2014	Change
Cıvıl	6,933	6 837	+96	1,526	1,675	-149	812	942	-130
Defence	2,035	2 069	-34	579	567	+12	393	366	+27
Aerospace Division	8,968	8,906	+62	2,105	2 242	-137	1,205	1,308	-103
Power Systems	2,385	2 720	-335	635	742	-107	194	253	-59
Marine	1,324	1 709	-385	260	425	-165	15	138	-123
Nuclear	687	638	+49	111	119	-8	70	50	+20
Other	96	46	+50	64	8	+56	52	(2)	+54
Intra-segment	(106)	(155)	+49	7	(13)	+20	7	(13)	+20
Land & Sea Division	4,386	4 958	-572	1,077	1 281	-204	338	426	-88
Central costs				-			(51)	(53)	+2
Group	13,354	13,864	-510	3,182	3,523	-341	1,492	1 681	-189

£13,725m

Reported profit before taxation **£160m**

Net R&D as a proportion of underlying revenue **6.2%**

2014 £13,736m 2013 £15,513m 2012 £12,161m 2011 £11,124m 2014 £146m 2013 £2,019m 2012 £2,705m 2011 £1,106m 2014 exc 5.9% 2014 inc 5.8% 2013 4.8% 2012 4.7% 2011 4.6%

Underlying income statement

The Other category in the segmental analysis includes residual retained assets relating to the Energy business which were not included in the sale to Siemens in 2014 and a one-off intellectual property settlement of £58m The value of these is not material to the Group

Underlying profit before financing and taxation is discussed in the Business review on pages 20 to 39

Underlying financing costs were stable versus 2014 An increase in net interest of £13m was offset by changes in other underlying financing costs An underlying foreign exchange gain of £34m is included, arising from realised gains on foreign exchange contracts settled to translate overseas dividends into sterling

Underlying taxation was £351m, an underlying tax rate of 24 5% compared with 24 0% in 2014

Reported results

Consistent with past practice and IFRS accounting standards, the Group provides both reported and underlying figures We believe underlying figures are more representative of the trading performance, by excluding the impact of year-end mark-tomarket adjustments, principally the GBP USD hedge book. In addition, financing of post-retirement benefits, effects of acquisition accounting and impairment of goodwill are also excluded Adjustments between underlying profit and reported profit in the income statement are set out in more detail in note 2 to the Consolidated Financial Statements This basis of presentation has been applied consistently

Mark-to-market adjustments are principally driven by movements in the GBP USD exchange rate which moved from 156 to 1 48 during 2015

Movements in other financial instruments relate entirely to financial risk and revenue sharing arrangements. The put option on the non-controlling interest in Power Systems was exercised in 2014, so this had no impact in 2015

P	R	o	FΠ	BE	FOR	ET/	LAX	ION
---	---	---	----	----	-----	-----	------------	-----

£m	2015	2014
Underlying profit before tax	1,432	1,617
Mark-to-market of derivatives and related adjustments	(1,065)	(1,254)
Movements on other financial instruments	8	(8)
Effects of acquisition accounting	(124)	(142)
Exceptional restructuring	(49)	(39)
Acquisitions and disposals	2	8
Impairment of goodwill	(75)	_
Post-retirement scheme financing	32	(29)
Other	(1)	(7)
Reported profit before tax from continuing operations	160	146

The effects of acquisition accounting in accordance with IFRS 3 are excluded from underlying profit so that all businesses are measured on an equivalent basis Impairment of goodwill principally relates to the Marine business

Costs associated with the substantial closure or exit from, a site, facility or activity are classified as exceptional restructuring and excluded

Profits and losses arising on acquisitions and disposals during the year are excluded

Net financing on post-retirement schemes is excluded from underlying profit

Appropriate tax rates are applied to these adjustments, the net effect of which was an increase of £275m in the reported tax charge (2014 £239m increase, including a £64m reduction in the amount of recoverable advance corporation tax recognised)

The 2014 reported results also included £142m relating to discontinued operations

Balance sheet

Intangible assets (note 8) represent long-term assets of the Group These assets decreased by £159m in the year, with additions of £408m being more than offset by amortisation of £407m, impairments to goodwill of £75m (including £69m Marine impairment reported in the first half) and exchange losses of £134m (largely relating to euro-denominated intangible assets arising from the acquisition of Rolls-Royce Power Systems AG)

The CARs balance increased by £156m to £405m The increase included £50m arising from the reversal of previously recognised impairments During the year, following analysis of the first major overhauls of Trent 1000 engines the recoverable amount of certain CARs has been reassessed. This demonstrated that aftermarket cash flows from these engines are better than originally assumed arising from both operational and contractual performance improvements Accordingly, cumulative impairments prior to 2015 of £50m have been reversed This has resulted in the capitalisation of £22m of CARs in 2015 that would otherwise have been impaired, including £16m recognised in the interim results

FINANCIAL REVIEW CONTINUED

SUMMARY BALANCE SHEET		
£m	2015	2014
Intangible assets	4,645	4 804
Property, plant and equipment	3,490	3,446
Joint ventures and associates	576	539
Net working capital	(743)	(712)
Net funds	(111)	666
Provisions	(640)	(807)
Net post-retirement scheme (deficits)/surpluses	(77)	555
Net financial assets and liabilities	(1,854)	(833)
Other net assets and habilities	(483)	(827)
Net assets	6,289	6,831
Other items		
US\$ hedge book (US\$bn)	28 8	25 6
TotalCare assets	2,994	2,492
TotalCare liabilities	(783)	(687)
Net TotalCare assets	2,211	1,805
Customer financing contingent commitments		
Gross	269	388
Net	54	59

Carrying values of intangible assets are assessed for impairment against the present value of forecast cash flows generated by the intangible asset. The principal risks remain reductions in assumed market share, programme timings, increases in unit cost assumptions, and adverse movements in discount rates. Other than noted above there have been no significant impairments in 2015.

Property, plant and equipment (note 9) increased by £44m Capital expenditure of £494m was largely offset by depreciation of £373m, disposals of £34m and foreign exchange movements of £32m

Investments in joint ventures and associates (note 10) increased modestly, principally as the share of retained profit exceeded dividends received

Net post-retirement scheme (deficits)/ surpluses (note 18) decreased by £632m, comprising a reduction of £692m in the UK and an increase of £60m overseas

The reduction in UK schemes is principally due to relative movements in assumptions used to value the underlying assets and liabilities in the UK schemes in accordance

with IAS 19 While the corporate bond yields used to measure the habilities remained broadly stable, gilt yields which are the principal driver of asset valuations increased, reducing the value of the assets. The schemes adopt a low risk investment strategy that reduces funding volatility (for which both assets and habilities are measured on a gilt basis) interest rate and inflation risks are largely hedged and the exposure to equities is around 9% of scheme assets.

The increase in overseas schemes arose largely due to higher discount rates in Germany and the US

Provisions (note 17) largely relate to warranties and guarantees provided to secure the sale of OE and services. The decrease is largely a result of the utilisation of warranty and restructuring provisions.

Net financial assets and liabilities (note 16) include the fair value of derivatives and financial RRSAs. The increase in liabilities primarily reflects the impact on the US\$ hedge book of the GBP USD exchange rate falling to 1 48 from 1 56 at the beginning of the year.

The Group hedges transactional foreign exchange exposures to reduce volatility. The most significant exposure is net US\$ income. The US\$ hedge book increased by 12.5% to US\$28.8bn, which represents around five years of net exposure and has an average book rate of £1 to US\$1.59.

Net TotalCare assets relate to long-term service agreement contracts in the Civil Aerospace business, including the flagship services product TotalCare. These assets represent the timing difference between the recognition of income and costs in the income statement and cash receipts and payments.

The net asset increased in 2015 by £406m (2014 £463m), reflecting accounting for new 'linked' engines of £521m (2014 £588m) and retrospective TotalCare accounting adjustments of £222m (2014 £150m) taken in the year, offset by cash flows and other items of £337m (2014 £275m)

Customer financing facilitates the sale of OE and services by providing financing support to certain customers. Where such support is provided by the Group, it is almost exclusively to customers of the Civil Aerospace business and takes the form of various types of credit.

and asset value guarantees These exposures produce contingent liabilities that are outlined in note 17 Contingent liabilities represent the maximum aggregate discounted gross and net exposure in respect of delivered aircraft, regardless of the point in time at which such exposures may arise During 2015, the Group's gross exposure on delivered aircraft reduced by £119m, mainly due to guarantees expiring

Summary funds flow

Movement in working capital includes an increase in the net TotalCare asset of £406m and a reduction in the amount of net customer deposits of £143m. The reduction in customer deposits is largely in the Marine business as a result of lower order intake in the offshore market and lower government spend

Expenditure on property plant and equipment and intangible assets the decrease reflects reductions in additions to property plant and equipment (£174m), participation fees and certification costs (£86m) and capitalised development costs (£45m), offset by increased expenditure on contractual aftermarket rights (£68m) and foreign exchange movements of £51m

Pensions contributions to defined benefit pension schemes in 2015 reduced by £63m, which included a reduction in the UK deficit funding payments of £36m and the nonrecurrence of discretionary increase contributions of £33m. The total operating charge increased by £43m largely due to past service credits of £8m in 2015 compared to £31m in 2014 Funding of defined benefit schemes is expected to be similar in 2016

Movements on balances with parent company primarily reflects the parent company's payments to shareholders and share buyback, funded by Rolls-Royce plc

Discontinued operations in 2015 reflect a sales price adjustment of £42m paid in 2015 on the 2014 disposal of the Energy business and wind-down costs

Free cash flow £166m

2014 exc	437
2014 inc	244
2013	738
2012	550
2011	543

SUMMARY FUNDS FLOW

	2015		2014		
£m		Previously reported	Energy	Excluding Energy	Change
Opening net funds	666	1,939			_
Closing net funds	(111)	1,273			
Change in net funds	(777)	(666)			
Underlying profit before tax	1,432	1 617	(3)	1,620	-188
Depreciation and amortisation	613	600	18	582	+31
Movement in net working capital	(546)	(520)	(152)	(368)	-178
Expenditure on property, plant and equipment and intangible assets	(887)	(1,114)	(30)	(1,084)	+197
Other	(240)	89	(17)	106	-346
Trading cash flow	372	672	(184)	856	484
Contributions to defined benefit post retirement schemes in excess of PBT charge	(46)	(152)	2	(154)	+108
Tax	(160)	(276)	(11)	(265)	+105
Free cash flow	166	244	(193)	437	-271
Movement on balances with parent company	(822)	(465)		(465)	-357
Shareholder payments		(76)	_	(76)	+76
Acquisitions and disposals	(3)	(965)	_	(965)	+962
Net funds acquired	_	(30)	_	(30)	+30
Discontinued operations	(121)		193	(193)	+72
Foreign exchange	3	19	_	19	-16
Change in net funds	(777)	(1,273)		(1,273)	

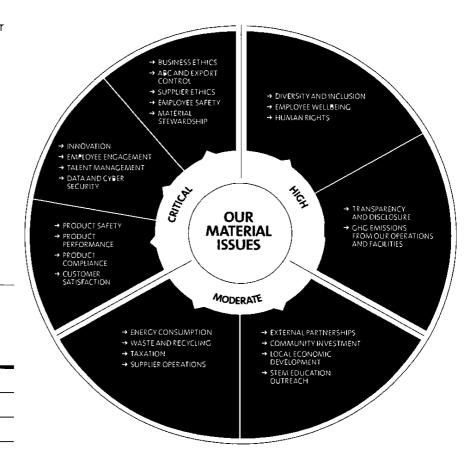
DEVELOPING A **SUSTAINABLE** BUSINESS

As a leading power systems provider we have a fundamental role in meeting the environmental and societal opportunities and challenges that the world faces

WHAT MATTERS MOST

Understanding and prioritising the issues that matter most to the Group and our stakeholders enables us to manage our business effectively for the long term. This informs our strategy, approach and reporting. We have policies, processes, targets and governance in place to manage the most important issues.

- READ MORE AT ROLLS ROYCE COM
- Better power
- Better future
- Better business



EXTERNAL RECOGNITION

Dow Jones Sustainability Index
We have been awarded Industry
Leader, Industry Mover and Gold
Class award for the Aerospace and
Defense sector in the Dow Jones
Sustainability Index Achieving an
overall score of 77, we have been
listed in the DJSI World and
DJSI Europe indexes

CDP Chmate Change Index
Our score of 99B in the CDP is our highest to date and has earned us a place in the FTSE 350 Chimate Disclosure Leadership Index
This reflects our commitment to continuously improve our environmental performance and disclosure

OUR APPROACH

Better power

Helping our customers do more, using less

Our engineering expertise helps us to deliver more efficient products for our customers. Our commitment is to improve continuously the environmental performance of our products and services Each year we invest over £1 2bn in gross R&D, two thirds of which is aimed at improving environmental performance

Our environment strategy focuses on three areas supporting our customers by further reducing the environmental impact of our products and services, developing new technology for future low emissions products, and maintaining our drive to reduce the environmental impact of our business activities

We work with our customers to ensure optimal performance from our products throughout their operational life. We deliver a broad range of learning solutions, ranging from product operations and maintenance to simulation activities

We have an extensive range of field service personnel and service operations centres that ensure we have the expertise and equipment available to service our products with minimal disruption

Our products and services are designed to the highest standards of product safety and we consistently pursue proactive opportunities for improvement Product safety and environmental requirements are an integral part of each stage of the product lifecycle

Better future

Committed to innovation, powering better, cleaner economic growth

Innovation is embedded in all of our products and services and is a key competitive advantage. The skills, knowledge and passion of our workforce help us to innovate and to deliver on behalf of customers. We are working towards creating an environment where everyone can reach their full potential. We encourage diversity, engagement and development

We are committed to protecting the human rights of our employees Our Global Human Rights policy sets out this commitment through employment standards covering employee involvement, diversity and equality pay and benefits, working hours, forced labour and child labour Compliance is assessed on a regular basis

Employee health and wellbeing are the foundation of high performance. We focus our health improvement programmes on key areas in accordance with our risk profile health risk management resilience and wellbeing

A diverse workforce will help ensure our continued success as a global business and contribute towards a better future

We use a variety of channels to communicate with employees and encourage participation and engagement Our community investment and education outreach programmes are a key component of our employee involvement activities

Better business

Investing in technology, people and ideas to improve all aspects of performance

We are committed to conducting every aspect of our business to the highest ethical standards and ensuring we are in line with all applicable laws. We have a zero tolerance approach to any form of ethical misconduct, bribery or corruption

We have a Global Code of Conduct that applies to all employees of Rolls-Royce our subsidiaries and controlled joint ventures. wherever they are located. We set equivalent standards for our supply chain through our Global Supplier Code of Conduct

We regard the health and safety of our employees and those working on our premises or on our behalf, as paramount

We continue to focus on managing the health and safety risks through risk-based improvement programmes, strengthening leadership and cultural change

Reducing the environmental impact of our business activities is a key part of our environment strategy. We continue to invest in improving the performance of our operations by reducing energy use, greenhouse gas emissions and waste

We are committed to optimising material and resource efficiency. We are working to better manage the use of chemicals in our processes and to phase out the use of substances that are considered dangerous to the environment or harmful to health

Average number of employees per region*

■ UK	23,200	■ Germany	10,700
■ USA	6,400	■ Nordic countries	3,800
■ Canada	1,100	Rest of world	5,300

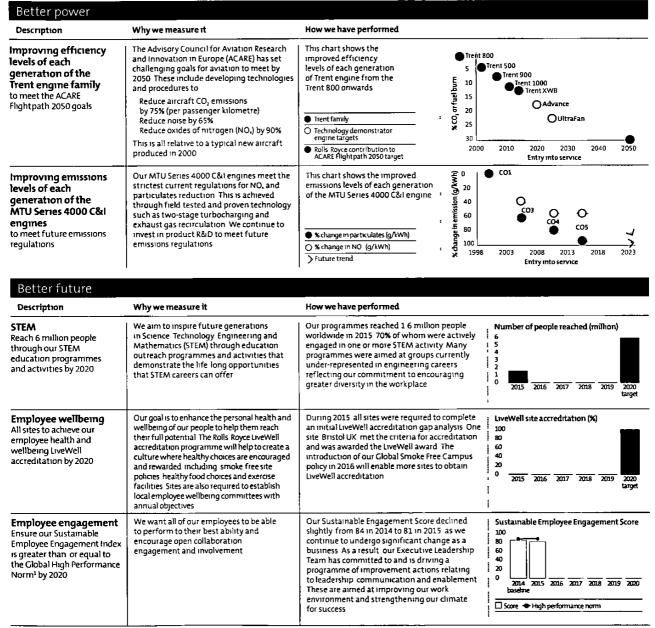
Headcount data is calculated in terms of average full time employees for 2015 See note 6 Employee information on page 88 for comparative data

Average number of employees by business unit*

■ Civil Aerospace	23,200	Marine	6,000
■ Defence Aerospa	■ Nuclear	4,100	
■ Power Systems	10,600	☐ Other	200

SUSTAINABILITY PERFORMANCE INDICATORS

We launched our dashboard of sustainability performance indicators in 2015, with higher stretching targets base-lined on our 2014 performance



¹ Employee Engagement survey Sustainable Employee Engagement Index and Global High Performance Norm provided independently by Towers Watson

Description	Why we measure it	How we have performed	
Ethics All employees to complete year-on-year Global Code of Conduct certification and mandatory ethics training	Our Global Code of Conduct sets out the ethical principles that underpin our values and the way we do business it also provides guidance on how to apply these principles in everything we do	During the year 100% of our managers have certified that they have access to, understand and will comply with our Global Code of Conduct . Our ethics training continued to require managers to lead ethical discussions around dilemmas with their teams During 2015 97% of employees completed dilemma based training	75 50 25
Reduce energy use in our operations and facilities by 30%, normalised by evenue by 2020 excluding product test and development)	Understanding our energy use helps us to identify inefficiency and opportunities for improvement across our global operations and activities. Upgrading existing facilities and investing in energy efficient technology helps us to reduce energy consumption and cost	We continue to invest in energy efficient technology to reduce our energy consumption and cost. Our energy use in 2015 was 112 MWh/Em. This represents a decrease of 3% compared to 2014. We have invested in upgrading lighting systems. Variable speed drives and voltage optimisation. We have also introduced more efficient cooling systems.	2014 2015 2016 2017 2018 2019 2020 baseline targe
GHG emissions* Adduce greenhouse gas GHG) emissions in our operations and facilities by 50%, absolute, by 2025 excluding product test and levelopment)	Investing in renewable energy sources and other opportunities to reduce our GHG emissions reduces cost and mitigates risk associated with energy price volatility	Our total GHG emissions for 2015 excluding product test and development, was 455 ktCO ₂ e. This represents an 8% reduction from 2014. We continue to drive energy efficiency and have developed a number of low carbon and renewable energy projects across our global facilities. These include combined heat and power tri generation power systems and solar.	Absolute GHG emissions (ktCO ₂ e) ³ 500 400 300 200 100 2014 2015 2016 2017 2018 2019 2020 2020 2020 2020 2020 2020 2020
Waste Reduce total solid and liquid waste in our operations and facilities by 25% normalised by revenue by 2020	We recognise that improving the environmental performance of our operations contributes to profitable growth. The four principal waste streams that contribute to our waste production are recyclable solid wastes liquid wastes sent for disposal recyclable metals, and solid wastes sent for landfill.	Our total solid and liquid waste normalised by revenue was 4 31 t/£m in 2015	Total solid and liquid waste (t/£m)' 5 4 3 2 1 0 2014 2015 2016 2017 2018 2019 2024 target
Recyching Zero waste to landfill in our operations and facilities by 2020 excluding hazardous waste)	We are committed to both increasing our recycling rates and achieving zero waste to landfill from our manufacturing and office facilities. We are concentrating on the recycling of metals and packaging. Hazardous waste will continue to be managed in a safe and controlled manner.	The amount of waste sent to landfill has increased from 6 700 tonnes in 2014 to 7 200 tonnes in 2015. This is due in part to an increase in waste from our Power Systems business and improved waste reporting across the Group Since 2009 we have reduced our waste to landfill by 3 000 tonnes and remain confident that more sites will achieve zero waste to landfill	Waste to landfill (000 tonnes) ³ 8 6 4 2 0 2014 2015 2016 2017 2018 2019 2028 target
Safety Reduce total reportable enjury (TRI) rate to 0 3 per 100 employees by 2020, o achieve first quartile operformance	We are dedicated to providing a safe and healthy place of work for all our employees contractors and visitors to our facilities and wherever they may work on our behalf	Our TRI rate deteriorated in 2015 to 0 82 compared to 0 64 in 2014. This is primarily due to the inclusion of Power Systems data and improved reporting of safety incidents across the Group We continue to focus our improvement programmes on high consequence activities in accordance with our risk profile, for example electrical safety and process safety management.	TRI rate (per 100 employees) ³ 10 0.75 0.50 0.25 0.2014 2015 2016 2017 2018 2019 2022 1.2024 2015 Power Systems Rest of Group
Supphers All supphers aligned to our own ambitions all suppliers agree adherence to the Global supplier Code of Conduct by 2016	Our Global Supplier Code of Conduct sets out the minimum standards of behaviour and practices we require of our suppliers. We work to align them to our own ambitions in ethics, and support suppliers in managing their energy and waste, and in completing submissions to the CDP.	We released a revision to our Global Supplier Code of Conduct at the start of 2015. Our terms of business now include agreement to the Code which makes our compliance expectations clear 75% of our suppliers have now contractually agreed adherence. We plan to launch strategic supplier monitoring programmes in 2016.	Suppliers agreed adherence to the Global Supplier Code of Conduct (%) 2016 target 2015 0 20 40 60 80 10



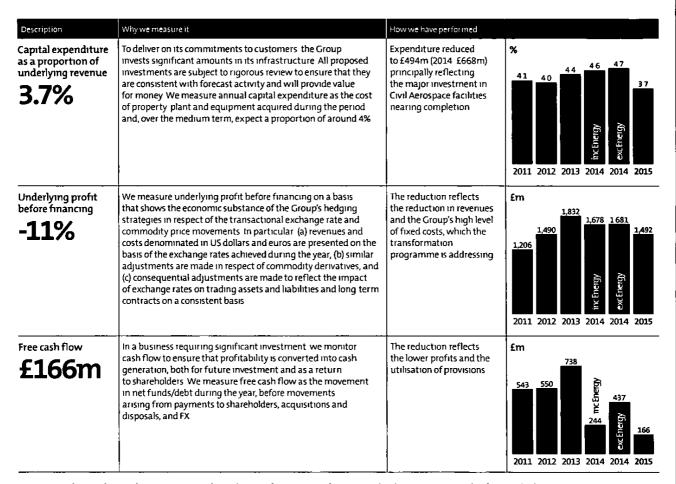
READ MORE AT ROLLS ROYCE COM

 ²⁰¹⁵ certification by managers only
 2014 data has been restated to reflect the inclusion of Power Systems
 Regulatory GHG emissions data detailed on page 61

KEY PERFORMANCE INDICATORS

Financial performance indicators are shown below Other non-financial performance indicators are shown in the Sustainability section on pages 48 and 49

Description	Why we measure it	How we have performed	
Order book +4%	The order book provides an indicator of future business. We measure it at constant exchange rates and list prices and include both firm and announced orders. In Civil Aerospace it is common for a customer to take options for future orders in addition to firm orders placed. Such options are excluded from the order book. In Defence Aerospace, long term programmes are often ordered for only one year at a time. In such circumstances even though there may be no alternative engine choice available to the customer only the contracted business is included in the order book. Conservatively, we only include the first seven years, revenue of long term aftermarket contracts.	The order book grew by £2 7bn An increase of £3 8bn in Civil Aerospace was offset by a reduction of £0 4bn in Marine, reflecting the current weak market conditions	
Order intake -4%	Order intake is a measure of new business secured during the year and represents new firm orders, adjusted for the movement in the announced order book between the start and end of the period. Any orders which were recorded in previous periods and which are subsequently cancelled reducing the order book are included as a reduction to intake. We measure order intake at constant exchange rates and list prices and, consistent with the order book policy of recording the first seven years revenue of long-term aftermarket contracts, include the addition of the following year of revenue on long term aftermarket contracts.	An increase of £0 9bn in Civil Aerospace order intake was offset by weaker intake in Defence Aerospace and Marine	£bn 269 194 190 18.2 163 161 6
Underlying revenue -4% -1% excluding FX	Monitoring of revenue provides a measure of business growth Underlying revenue is used as it reflects the impact of our FX hedging policy by valuing foreign currency revenue at the actual exchange rates achieved as a result of settling FX contracts. This provides a clearer measure of the year-on-year trend.	The reduction reflects a 9% reduction in OE revenue, offset by a 3% increase in services revenue Marine revenue fell by 23% reflecting the weak market conditions	£m 15,505 14,588 13,864 13,354 11,277 2011 2012 2013 2014 2014 2015
Net R&D expenditure as a proportion of underlying revenue 6.2%	This measure reflects the need to generate current returns as well as to invest for the future. We measure R&D as the self-funded expenditure before both amounts capitalised in the year and amortisation of previously-capitalised balances. We expect to spend approximately 5% of underlying revenues on R&D although this proportion will fluctuate depending on the stage of development of current programmes. We expect this proportion will reduce modestly over the medium term	The increase is largely due to changes in net capitalisation, reflecting the phasing of new Civil Aerospace programmes, in particular the Trent XWB-84 and the Trent 1000 TEN	% 46 47 48 58 59 62 62 62 63 62 64 65 65 65 65 65 62 62 65 65 65 65 62 65 65 66 7 65 65 65 66 7 65 65 65 67 7 65 65 65 68 7 65 65 65 69 7 65 65 65 60 7 65 65 65 60 7 65 65 65 60 7 65 65 65 60 7 65 65 65 60 7 65 65 65 60 7 65 65 65 60 7 7 65 60 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7



Average cash is no longer being monitored as a key performance indicator, as the focus is now on the free cash flow

Non-financial KPIs

As we undertake significant restructuring, reorganisation and transformation, it is imperative that we do not lose focus on our customers, and that we ensure our employees are fully engaged in the transformation. So for 2016, we are introducing two non-financial measures to the Annual Performance Related Award, relating to customers and employees in line with our remuneration policy, financial performance will still be required for any payout, as the non-financial measures will be subject to achieving a profit before taxation threshold

Description	How performance is measured
Customer satisfaction	This is measured by the percentage of on time to purchase order and includes measures for new equipment, spare parts, equipment repair and overhaul. This is tracked Group-wide in our scheduling and order fulfilment system.
Employee engagement	This is measured through our Employee Opinion Survey which produces a composite engagement score The targets will be based on absolute scores

PRINCIPAL RISKS

Risk management

Risk management is built into our daily activities and is an integral part of how we work from our engineering design through to engine production, servicing and how we run our operations

The Board is responsible for the Group's risk management and internal control system and reviewing its effectiveness. The system is designed to identify and manage, rather than eliminate, the risk of failure to achieve business objectives and to provide reasonable but not absolute assurance against material misstatement or loss.

Our risk management system (RMS) helps us make better decisions and to deal with problems if they occur it is implemented through a Group-wide framework mandated in the Group risk management policy, a network of trained risk management facilitators, and a software tool

In 2015, we performed a comprehensive review of our RMS and are implementing a programme of work to enhance our RMS which will continue to be embedded throughout 2016. This activity is sponsored by the General Counsel and Chief Financial Officer and is regularly reviewed by the Audit Committee. The enhancements touch all areas of our RMS including categorisation, governance operating model, reporting and infrastructure.

Our RMS is designed so that principal risks can be identified from multiple sources. Key bottom-up risks are identified by businesses and functions and the detail of risks that meet the Group threshold are subject to review and challenge by the Executive Leadership Team (ELT) and the Board during their risk reviews. This includes monitoring the status of mitigation actions, adequacy of controls and any incidents that have occurred since the last review. Risks are also captured during the strategy and business planning activities to inform the development of the principal risks.

The Board, assisted by the ELT, has carried out a robust assessment of, and reviewed our appetite for, the principal risks facing the Group These include those that threaten the business model future performance, solvency and liquidity These reviews have been complemented by financial scenario modelling of our principal risks

The Board, or the most appropriate Board committee, undertakes periodic in-depth reviews of our principal risks in which it assesses our material controls and the effectiveness of our risk management and mitigation activities

Business units and functions are accountable for identifying and managing risk in line with the Group risk management policy Business continuity plans are in place to mitigate continuity risks

The Group's enterprise risk team, led by the Director of Risk, is responsible for disseminating risk policy and processes and co-ordinating the effective operation of the RMS Progress of actions to mitigate risks and the adequacy of risk controls are also now regularly reviewed by the sector audit committees

Joint ventures constitute an increasingly large part of the Group's activities Responsibility for risk and internal control in joint ventures lies with the managers of those operations. We seek to exert influence over such joint ventures through board representation. Management and internal audit regularly review the activities of these joint ventures.

The Board is aware that the effectiveness of risk management is highly dependent on behaviours, as a good process does not automatically lead to a good outcome. Our ethics and compliance improvement programme, aimed at securing compliance with our ethical standards, and the Global Code of Conduct are reinforcing the values and behaviours required, which in turn will continue to strengthen our risk management culture.

Principal risks

During the year, the Board and ELT focused on the principal risks and the actions and controls in place to manage them

This involved discussing changes to the risks, reviewing the risk indicators for principal risks, and hearing from management about how risks will be managed

This ongoing review of risks has resulted in a further principal risk being added this year talent and capability. This risk has been added to reflect the significant transformation agenda ahead and our future growth requirements and plans.

Management of principal risks

Our risk framework ensures that risks are identified, managed and communicated at every level of the Group



Risk or uncertainty and potential impact	How we manage it	Strate priorit
Product failure Product not meeting safety expectations, or causing significant impact to customers or the environment through failure in quality control	Embedding and operating a safety-first culture Applying our engineering design and validation process from initial design through production and into service The Safety & Ethics Committee reviewing the scope and effectiveness of the Group's product safety policies to ensure that they operate to the highest industry standards Operating a safety management system (SMS), governed by the product safety review board, and subject to continual improvement based on experience and industry best practice Product safety training is an integral part of our SMS Improving our supply chain quality Crisis management team jointly chaired by the Group President and the General Counsel This principal risk is subject to review by the Safety & Ethics Committee	2
Business continuity Breakdown of external supply chain or internal facilities that could be caused by destruction of key facilities, natural disaster, regional conflict, insolvency of a critical supplier or scarcity of materials which would reduce the ability to meet customer commitments, win future business or achieve operational results	Continued investment in adequate capacity and modern equipment and facilities Identifying and assessing points of weakness in our internal and external supply chain our IT systems and our people skills Selecting and developing stronger suppliers Developing dual sources or dual capability Developing and testing incident management and business continuity plans Crisis management team jointly chaired by the Group President and the General Counsel Customer excellence centres providing improved response to supply chain disruption This principal risk is subject to review by the Audit Committee	3
Competitive position The presence of large financially strong competitors in the majority of our markets means that the Group is susceptible to significant price pressure for original equipment or services even where our markets are mature, or the competitors are few Our main competitors have access to significant government funding programmes, as well as the ability to invest heavily in technology and industrial capability	Accessing and developing key technologies and service offerings which differentiate us competitively (see Engineering and innovation on page 16) Focusing on being responsive to our customers and improving the quality delivery and reliability of our products and services Partnering with others effectively Driving down cost and improving margins (see Chief Executive's review on page 10) Protecting credit lines Investing in innovation, manufacturing and production, and continuing governance of technology programmes (see Engineering and innovation on page 16 Maintaining a strong balance sheet to enable access to cost-effective sources of third-party funding Understanding our competitors This principal risk is subject to review by the Board	2
Pohtical risk Geopolitical factors that lead to an unfavourable business climate and significant tensions between major trading parties or blocs which could impact the Group's operations For example explicit trade protectionism differing tax or regulatory regimes, potential for conflict, or broader political issues	Where possible, locating our facilities and supply chain in countries with a low level of political risk and/or ensuring that we maintain dual capability Diversifying global operations to avoid excessive concentration of risks in particular areas The international network of Rolls-Royce and its business units proactively monitoring local situations Maintaining a balanced business portfolio with high barriers to entry and a diverse customer base (see Chief Executive's review on page 6) Proactively influencing regulation where it affects us This principal risk is subject to review by the Board	2
Major programme delivery Failure to deliver a major programme on time, within budget, to specification, or technical performance falling significantly short of customer expectations, or not delivering the planned business benefits would have potentially significant adverse financial and reputational consequences, including the risk of impairment of the carrying value of the Group's intangible assets and the impact of potential litigation	Major programmes are subject to Board approval (see Additional financial information on page 151) Reviewing major programmes at levels and frequencies appropriate to their criticality and performance, against key financial and non-financial deliverables and potential risks throughout the programme's life cycle (see Additional financial information on page 151) Conducting technical audits at pre-defined points which are performed by a team that is independent from the programme Requiring programmes to address the actions arising from reviews and audits and monitoring and controlling progress through to closure Applying knowledge management principles to provide benefit to current and future programmes This principal risk is subject to review by the Board	1 2

References to committees are to committees of Rolls-Royce Holdings plc

PRINCIPAL RISKS CONTINUED

Risk or uncertainty and potential impact	How we manage it	Strategi prioritie
Compliance Non-compliance by the Group with egislation or other regulatory requirements in the regulated environment in which it operates (egilex export controls, offset, use of controlled chemicals and substances and intribribery and corruption legislation) compromising our ability to conduct ousiness in certain jurisdictions and exposing the Group to potential reputational damage financial penalties, debarment from government contracts for a period of time and/or suspension of export privileges or export credit financing any of which could have a material adverse effect	Taking an uncompromising approach to compliance Operating an extensive compliance programme. This programme and the Global Code of Conduct are disseminated throughout the Group and are updated from time to time to ensure their continued relevance, and to ensure that they are complied with, both in spirit and to the letter. The Global Code of Conduct and the Group's compliance programme are supported by appropriate training. Strengthening of the ethics, anti-bribery and corruption, compliance and export control teams. A legal team is in place to manage any ongoing regulatory investigations. Implementing a comprehensive REACH compliance programme. This includes establishing appropriate data systems and processes, working with our suppliers customers and trade associations and conducting research on alternative materials. This principal risk is subject to review by the Safety & Ethics Committee.	2
Market and financial shock The Group is exposed to a number of market risks, some of which are of a macro-economic nature (eg-foreign currency oil price exchange rates) and some of which are more specific to the Group (eg-liquidity and credit risks, reduction in air travel or disruption to other customer operations). Significant extraneous market events could also materially damage the Group's competitiveness and/or creditworthiness. This would affect operational results or the outcomes of financial transactions.	Maintaining a strong balance sheet through managing cash balances and debt levels (see Financial review on page 40) Providing financial flexibility by maintaining high levels of liquidity and an investment grade credit rating Sustaining a balanced portfolio through earning revenue both from the sale of original equipment and aftermarket services providing a broad product range and addressing diverse markets that have differing business cycles (see Chief Executives review on page 6) Deciding where and what currencies to source in and where and how much credit risk is extended or taken. The Group has a number of treasury policies that are designed to hedge residual risks using financial derivatives (foreign exchange interest rates and commodity price risk) This principal risk is subject to review by the Audit Committee.	3
IT vulnerability Breach of IT security causing controlled or critical data to be lost, made inaccessible, corrupted or accessed by unauthorised users	Implementing defence in depth through deployment of multiple layers of software and processes including web gateways filtering firewalls, intrusion, advanced persistent threat detectors and integrated reporting Running security and network operations centres Actively sharing IT security information through industry government and security forums This principal risk is subject to review by the Audit Committee	2
Talent and capability Inability to attract and retain the critical capabilities and skills needed in sufficient numbers and to effectively organise, deploy and incentivise our people to deliver our strategy business plan and projects	Attracting rewarding and retaining the right people with the right skills globally in a planned and targeted way, including regular benchmarking of remuneration. Developing and enhancing organisational leadership, technical and functional capability to deliver global programmes. Continuing a strong focus on individual development and succession planning. Proactively monitoring retirement in key areas and actively managing the development and career paths of our people with a special focus on employees with the highest potential. Embedding a lean agile high performance culture that tightly aligns Group strategy with individual and team objectives. Retaining, incentivising and effectively deploying the critical capabilities, skills and people needed to deliver our strategic priorities, plans and projects whilst implementing the Group's major programme to transform its business, to be resilient and to act with pace and simplicity Tracking engagement through our annual employee opinion survey and a commitment to drive year-on-year improvement to the employee experience and communications (see Sustainability on page 46). This principal risk is subject to review by the Nominations & Governance Committee.	3

Waren East

Warren East Chief Executive 24 February 2016

BOARD OF DIRECTORS

Ian Davis

Appointment to the Board Appointed to the Board in March 2013 and as Chairman in May 2013

Current directorships and business interests

- Johnson & Johnson Inc non-executive director
- BPplc non-executive director
- UK Cabinet Office Board non-executive member (stepping down in March 2016)
- Apax Partners LLP, senior adviser Temasek, European Advisory Panel member Teach for All Inc, director Majid Al Futtaim Holdings LLC

Career, skills and experience lan spent his early career at Bowater, moving to McKinsey & Company in 1979 He was managing partner of McKinsey's practice in the UK and Ireland from 1996 to 2003 In 2003 he was appointed as chairman and worldwide managing director of McKinsey, serving in this capacity until 2009 and retiring as senior partner in 2010 During his career with McKinsey, lan served as a consultant to a range of global organisations across the private, public and not-for profit sectors He is now senior partner emeritus of McKinsey

Warren East CBE

Chief Executive

Appointment to the Board Appointed as an independent Non-executive Director in January 2014 and as Chief Executive in July 2015

Current directorships and business interests

- Dyson Ltd non-executive director A member of the UK Government's **Business Advisory Group**
- Trustee of the Institute of Engineering and Technology

Career, skills and experience Warren held various senior appointments at ARM Holdings plc from 1994 including CEO from 2001 to 2013 He is a fellow of the Institute of Engineering and Technology a fellow of the Royal Academy of Engineering and a distinguished fellow of the BCS the Chartered Institute for IT He was awarded a CBE in 2014 for services to the technology industry

David Smith

Chief Financial Officer

Appointment to the Board Appointed as an Executive Director ın November 2014

Current directorships and business interests

Motability Operations Group plc non-executive director Warwick Business School advisory board member Chartered Institute of Management Accountants member of Advisory Panel

Career, skills and experience David joined Rolls Royce in January 2014 as Chief Financial Officer for the Aerospace Division Before joining Rolls-Royce he was chief financial officer for technology group Edwards

He has spent over 25 years in the automotive industry at Ford and Jaguar Land Rover

Cohn Smith CBE

Group President

Appointment to the Board Appointed as an Executive Director in July 2005

Current directorships and business interests

Council for Science and Technology member

Career, skills and experience Colin joined Rolls-Royce in 1974 He has held a variety of key positions within the Group including Director - Research & Technology, Director of Engineering & Technology -Civil Aerospace and Group Director - Engineering & Technology, before being appointed as Group President in January 2016 Colin is a fellow of the Royal Society the Royal Academy of Engineering the Royal Aeronautical Society and the Institution of Mechanical Engineers In June 2012 he was awarded a CBE for services to UK engineering

BOARD OF DIRECTORS CONTINUED

Dame Helen Alexander

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in September 2007

Current directorships and business interests

- UBM plc chairman Huawei Technologies (UK) Co Limited non-executive director
- · Bain Capital, senior adviser
- EDF Energy's Stakeholder Advisory Panel member
- University of Southampton, chancellor
- She is also involved in not-for-profit organisations in media and the arts

Career, skills and experience

Dame Helen was chief executive of the Economist Group until 2008, having joined the company in 1985, and was managing director of the Economist Intelligence Unit from 1993 to 1997 She was president of the CBI from 2009 to 2011, she has also been chairman of Incisive Media and Port of London Authority, and a non executive director of Northern Foods plc, BT Group plc and Centrica plc She was awarded a DBE in 2011 for services to business

Lewis Booth CBE

Senior Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in May 2011

Current directorships and business interests

- Mondelez International Inc, non-executive director
- Gentherm Inc., non-executive director

Career, skills and experience

Lewis is the former executive vice president and chief financial officer of Ford Motor Company a position he held for over three years until his retirement from the company in April 2012 During his 34-year career at Ford he held a series of senior positions in Europe Asia, Africa and the US Lewis began his career with British Leyland before joining Ford in 1978. He was awarded a CBE in June 2012 for services to the UK audiostries.

Ruth Cairnie

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in September 2014

Current directorships and business interests

- Associated British Foods plc non executive director
- Keller Group plc non executive director
- Rotterdam School of Management member of the advisory board
- Cambridge University finance committee member

Career, skills and experience

Ruth was executive vice president strategy and planning at Royal Dutch Shell Pic until 2014, before which she held a number of other senior international roles at Shell, including managing its global commercial fuels business from 2005 to 2011

Ruth served on the boards of Shell Pakistan Ltd and joint venture companies in Germany and Thailand

She also chairs the POWERful women initiative supporting the progression of women to senior positions in the energy sector

Sir Frank Chapman

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in November 2011

Current directorships and business interests

Myeloma UK vice chairman

Career, skills and experience
Sir Frank has worked in the oil & gas industry for 38 years including appointments within Royal Dutch Shell plc and BP plc He was chief executive of BG Group plc for 12 years until December 2012 and chairman of Golar LNG Ltd from 2014 to 2015 Sir Frank is a fellow of the Royal Academy of Engineering, the Institution of Mechanical Engineers and the Energy Institute He was knighted in 2011 for services to the oil & gas industry

Alan Davies

Independent Non executive Director

Appointment to the Board Appointed as an independent Non-executive Director in November 2015

Current directorships and business interests

Rio Tinto Diamonds and Minerals division, chief executive

Career, skills and experience

Alan joined Rio Tinto in 1997 and has held a number of senior positions in Australia London and the US predominantly in Rio Tintos iron ore product group where he has served as CFO managing director global development and as president international operations. Alan is a fellow of the Institute of Chartered Accountants in Australia

Itene Dorner

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non executive Director in July 2015

Current directorships and business interests

OUTleadership Advisory Board member

South East Asia Rainforest Research Partnership, trustee

Career, skills and experience

Irene was CEO and president of HS8C, US, until December 2014 where she was responsible for all of HSBC's operations in the US and played a key role in strengthening the financial institution's risk processes. During a 29 year career at HSBC, she held a number of international roles including as the first woman to lead HSBC in Malaysia and launching its islamic banking unit

frene was a consultant at PwC until February 2016 She is a fellow of St Anne's College Oxford

3

Lee Hsien Yang

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in January 2014

Current directorships and business interests

General Atlantic LLC and associated funds special adviser

- Civil Aviation Authority of Singapore chairman
- The Islamic Bank of Asia Private Limited, chairman The Australian and New Zealand Banking Group Ltd, director Lee Kuan Yew School of Public Policy, member of the Board of governors INSEAD SE Asia Council, president Singapore Exchange Ltd, director Capital International Inc consultant to advisory board

Career, skills and experience Hsien Yang was chief executive of Singapore Telecommunications Limited for 12 years until 2007 He served as chairman and non executive director of Fraser and Neave Limited from 2007 until February 2013

John McAdam

Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in February 2008

Current directorships and business interests

J Sainsbury plc, senior independent director Rentokil Initial plc chairman United Utilities Group PLC chairman

Career, skills and experience John was the chief executive of ICI plc until ICI's acquisition by Akzo Nobel in 2008 He held a number of positions at Unilever within its Birds Eye Walls Quest International and Unichema

International businesses and is a former non-executive director of Severn Trent plc and Sara Lee Corporation

Board members by gender

Balance of the Board

Tenure of Non-executive Directors Nationalities of Directors*

■ Male 10 ■ Female

■ Executive Directors ■ Non-executive Directors

■ 0-3 years	6
■ 3 - 6 years	3
■ 6 - 9 years	2

■ British	11
■ German	1
■ Singaporean	1
■ Australian	1

According to the Company's Articles of Association at least 50% of all Directors must be British citizens

BOARD OF DIRECTORS CONTINUED

Sir Kevin Smith CBE Independent Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in November 2015

Current directorships and business interests

Unitas Capital senior adviser

Career, skills and experience
Sir Kevin joined Unitas Capital in 2012
and served as partner and chairman
of its operating advisor group until
October 2015. He was chief executive
officer of GKN plc until 31 December
2011, having led GKN's Aerospace
division from 1999 to 2003. Before
joining GKN, he spent nearly 20 years
with British Aerospace (BAe plc),
becoming group managing director of
BAes New Business division. Sir Kevin
served as a non-executive director
of Scottish and Southern Energy plc
between June 2004 and July 2008.

He was knighted in 2006 for services to industry and is a fellow of the University of Central Lancashire, The Royal Aeronautical Society and The Chartered Institute of Management

Jasmın Staiblın

Independent

Non-executive Director

Appointment to the Board Appointed as an independent Non-executive Director in May 2012

Current directorships and business interests

- Alpiq Holding AG CEO
- Georg Fischer AG, non executive director
 Federal Institute of Technology the ETH Domain board member

Career, skills and experience
Jasmin is the CEO of Alpiq Holding AG
She held a number of senior positions
at ABB Switzerland Ltd a subsidiary
of the ABB Group culminating in her

serving as CEO of ABB Switzerland Ltd

until December 2012 She has lived

and worked in Switzerland Sweden and Australia

Pamela Coles

Company Secretary

Appointment

Appointed as Company Secretary in October 2014

Career, skills and experience
Pamela has been a fellow of the
Institute of Chartered Secretaries
and Administrators since 1997,
and is an expert in governance
and company law. She has held a
variety of company secretary roles
throughout her career She joined
Rolls-Royce from Centrica plc
where she was head of secretariat
Pamela's previous roles also include
group company secretary and a
member of the executive committee
at The Rank Group plc and company
secretary & head of legal at RAC plc

The names of the directors who held office during the year are set out on pages 55 to 58, with the exception of James Guyette and John Neill who left the Company on 8 May 2015 and John Rishton who left the Company on 2 July 2015

At 31 December 2015, all the directors were also directors of Rolls-Royce Holdings plc the ultimate parent company. As directors of the ultimate parent company, there is no requirement to disclose their remuneration or their interests in the shares of Rolls-Royce group companies in this Directors' Report as they are included in the Annual Report of Rolls-Royce Holdings plc

EXECUTIVE LEADERSHIP TEAM

The Executive Leadership Team is the executive forum in which the Group's senior leaders come together to communicate, review and agree on issues and actions of Group-wide significance, and assist the Chief Executive in the performance of his duties

Warren East CBE

Chief Executive

Colin Smith CBE
Group President

David Smith

Chief Financial Officer

Chris Barkey Group Director – Engineering & Technology

Marion Blakey President & CEO Rolls-Royce North America **Chris Cholerton**

President - Defence Aerospace

Miles Cowdry

Corporate Development Director

Dr Uhnch Dohle

CEO - Power Systems

Mark Gregory

General Counsel

Harry Holt

Group Operations Strategy Director (Transitional support) President – Nuclear Mary Humiston

Group Human Resources Director

Mikael Makınen

President – Marine

Eric Schulz

President – Civil Aerospace

Lawrie Haynes

Executive

Executive (Transitional support)

Tony Wood

Executive (Transitional support)

INTERNAL CONTROL AND **RISK MANAGEMENT**

The Board's responsibility for internal control and risk management

The Board has overall responsibility to the shareholders for the Group's system of internal control over its business and risk management processes and the risks identified through the risk management process

In developing our internal governance framework we looked at how the Company's risk management and internal control systems work together As noted on page 52, these systems are designed to manage rather than eliminate the risk of failure to achieve objectives and so can only provide reasonable and not absolute assurance against material misstatement or loss. The Board has reviewed the effectiveness of the risk management and internal control systems including controls in relation to the financial reporting process, for the year under review and to the date of this report

The Group has a long-standing process for identifying risks and planning mitigating actions and for assessing the effectiveness of internal control During 2015, as an enhanced model for representing the system was approved, comprising

- entity-level controls covering leadership and direction from the top, and
- specific control activities, covering detailed process controls, and internal and external assurance activities

The Board will continue routinely to challenge management in order to ensure that the system of internal control is constantly improving and remains fit for purpose. A major review of our risk management framework has been conducted over the past year and implementation is now underway

This model was then populated and the operation and effectiveness of the controls rated. This commenced in 2015 and prioritised

- entity-level controls,
- · controls over principal risks as described on pages 52 to 54,
- controls over key risks and critical processes for each of the Group's business, and
- core financial controls

Work will continue during 2016 to complete the definition and documentation of the controls in the enhanced model

Judgement is required in evaluating the risks facing the Group in achieving its objectives, in determining the risks that are considered acceptable in determining the likelihood of those risks materialising, in identifying the Group's ability to reduce the incidence and impact on the business of risks that do materialise, and in ensuring the costs of operating particular controls are proportionate to the benefit provided

The Group is also using this standardisation of the internal control framework as an opportunity to improve the consistency of reporting, in particular from the Group's smaller operations

Particular attention was paid to internal controls over financial reporting and, mindful of the current business challenges the Group is facing

Financial reporting

The Group has a comprehensive budgeting system with an annual budget approved by the Board Revised forecasts for the year are reported at least quarterly Actual results, at both a business and Group level are reported monthly against budget and variances are kept under scrutiny Since his appointment in November 2014 the Chief Financial Officer has undertaken an in-depth review of our management reporting and budgeting processes to ensure that they fully provide what we need, taking into account the size and shape of the Group and the structure of our operations

Financial managers are required to acknowledge in writing that their routine financial reporting is based on reliable data and that results are properly stated in accordance with Group requirements In addition, for annual reporting, business presidents and finance directors are required to confirm that their business has complied with the Group's finance manual

The Audit Committee

Rolls-Royce Holdings plc has an Audit Committee, whose key objective is assist the Board in ensuring the integrity of its financial statements in addressing the key objective, the committee reviewed financial statements with both management and the external auditor, concentrating on

Financial reporting

- review financial statements focusing on the appropriateness of critical accounting policies, judgements and estimates and consistent application of those accounting policies,
- inclusion of appropriate disclosures, and
- · compliance with relevant regulations

Risk and control environment

- assess the scope and effectiveness of the systems to identify manage and monitor financial and non-financial risks
- assess the management of principal risks allocated to the committee business continuity, market and financial shock and IT vulnerability,
- review the procedures for detecting, monitoring and managing the risk of fraud,

INTERNAL CONTROL AND RISK MANAGEMENT CONTINUED

 review the system of internal control over the business processes and the risks identified through the risk management process

Internal audit

 review the scope, resources, results and effectiveness of internal audit

External auditors

oversee the relationship with the external auditor, reviewing the
effectiveness of the external audit process and making
recommendations to the Board for the external auditor's
appointment and fees

The Rolls-Royce Holdings plc Ethics Committee and the referral the Serious Fraud Office

Regulatory investigations

We previously reported that the Serious Fraud Office (SFO) had begun a formal investigation. The Group is continuing to cooperate with the authorities in the UK, US and elsewhere. The Ethics Committee received regular updates on the regulatory investigations. As the investigations are still ongoing we are unable to give any further details or a timescale for when they will conclude

Disciplinary proceedings under the Global Code of Conduct (Global Code)

If an employee is found to have acted in breach of the Company's Global Code, the Group takes appropriate action to address that breach. That action may include giving a disciplinary warning imposing another penalty or, ultimately, terminating employment in the most serious of cases. In 2015, there were 33 employees whose employment ended for reasons relating to breaches of the Global Code.

Ethics and compliance improvement programme and Lord Gold's review

Lord Gold was engaged in 2013 to provide independent assessment and guidance to assist the Company in improving its ethics and compliance culture. In December 2014. Lord Gold issued a second interim report and recommendations on the results from his detailed review. The Group has been implementing these recommendations in 2015 through its ethics and compliance improvement programme under the committee's oversight, and has continued to make good progress. Lord Gold attended three meetings of the committee during the year. We discussed the results of his review and his observations, including insights from focus groups held with a mix of employees in different countries.

The size, structure and skills of the risk team were kept under review during the year with regard to required resourcing to deliver and maintain the appropriate level of focus

SHARE CAPITAL

Throughout 2015, the Company's authorised share capital was £400 million, comprising 2,000,000,000 ordinary shares of 20p On 31 December 2015, there were 1,630,996 508 ordinary shares missing

Each member has one vote for each ordinary share held Holders of ordinary shares are entitled to receive the Company's

Annual Report, attend and speak at general meetings of the Company, to appoint one or more proxies or if they are corporations, corporate representatives, and to exercise voting rights

The ordinary shares are not listed

OTHER STATUTORY **INFORMATION**

Disclosures in the strategic report

The Board has taken advantage of section 414C(11) of the Companies Act 2006 to include disclosures in the Strategic Report on

	page(s)
disabled people and employee involvement,	47
the future development, performance and position of the Group,	1 to 54
the financial position of the Group,	40 to 45
R&D activities, and	16
the principal risks and uncertainties	52 to 54

Political donations

In line with its established policy, the Company does not make, and does not intend to make, donations to political parties within the normal meaning of the expression political donations' However, it is possible that certain activities undertaken by the Group may unintentionally fall within the broad scope of the provisions contained in the Companies Act 2006 (the Act)

During 2015, expenses incurred by Rolls-Royce North America Inc (RRNA) in providing administrative support for the Rolls-Royce North America Political Action Committee (RRNA PAC) was US\$45,021 (2014 US\$52,690) PACs are a common feature of the US political system and are governed by the Federal Election Campaign Act

The RRNA PAC is independent of the Group and independent of any political party. The RRNA PAC funds are contributed voluntarily by employees and the Group cannot affect how they are applied although, under US law, the business expenses are paid by the employer company (RRNA) Such contributions do not require authorisation by shareholders under the Act

Greenhouse gas emissions

In 2015, our total greenhouse gas (GHG) emissions from our facilities and processes, including product test and development was 602 kilotonnes carbon dioxide equivalent (ktCO3e) This represents a decrease of 12% compared with 683 ktCOze in 2014

All figures exclude fugitive emissions of hydrofluorocarbons (HFCs) associated with air conditioning equipment. We are putting in place a system to be able to extract this data from records kept under the F-Gas regulations. We do not anticipate a material impact on our reported GHG emissions

· · · · · · · · · · · · · · · · · · ·					
Total GHG emissions (ktCO ₃ e)	2011	2012	2013	2014*	2015
Direct emissions – facilities processes product test and development (Scope 1)	218	219	241	231	242
Indirect emissions – facilities processes, product test and development (Scope 2)	327	313	313	382	360
Total for facilities, processes, product test and development	545	532	554	683	602
Direct emissions – power generation to grid (Scope 1)			153	155	132
Indirect emissions – power generation to grid (Scope 2)			12	14	15
Total for facilities, processes, product test and development, and power generation to grid			719	852	749
Intensity ratio (total emissions normalised by revenue) for facilities, processes, product test and development, and power generation to grid (ktCO ₂ e/£m)			0 048	0 062	0 055

2014 data has been restated to reflect the inclusion of greenhouse gas emissions data from Power Systems. Figures for prior years (2011 to 2013) do not include data from Power Systems and therefore are not directly comparable.

With the exceptions noted above, we have reported on all of the emission sources required under the Companies Act 2006 (Strategic Report and Directors Reports) Regulations 2013 These sources fall within our Consolidated Financial Statements. We do not have responsibility for any emission sources that are not included in our Consolidated Financial Statements

We have used the GHG Protocol Corporate Accounting and Reporting Standard (revised edition) as of 31 December 2014, data gathered to fulfil our requirements under the Carbon Reduction Commitment (CRC) Energy Efficiency scheme and emission factors from the UK Government's GHG Conversion Factors for Company Reporting 2015

Further details on our methodology for reporting and the criteria used can be found within our Basis of Reporting, available to download from our website at rolls-royce com

OTHER STATUTORY INFORMATION CONTINUED

Branches

We are a global company and our activities and interests are operated through subsidiaries, branches of subsidiaries, joint ventures and associates which are subject to the laws and regulations of many different jurisdictions. Our subsidiaries and joint ventures are listed on pages 143 to 149

Post balance sheet events

There have been no events affecting the Group since 31 December 2015 which need to be reflected in the 2015 Financial Statements

Financial instruments

Details of the Group's financial instruments are set out in note 16 to the Consolidated Financial Statements

Related party transactions

Related party transactions are set out in note 23 to the Consolidated Financial Statements

Management report

The Strategic Report and the Directors' Report together are the management report for the purposes of Rule 4 1 8R of the Financial Conduct Authority's (FCA's) Disclosure Rules and Transparency Rules

DIRECTORS' REPORT AND FINANCIAL STATEMENTS

Responsibility statements

Statement of Directors' responsibilities in respect of the Annual Report and the Financial statements

The Directors, as listed on pages 55 to 58, are responsible for preparing the Annual Report and the Group and parent company financial statements in accordance with applicable law and regulations

Company law requires the Directors to prepare Group and parent company financial statements for each financial year. Under that law they are required to prepare the Group financial statements in accordance with IFRS as adopted by the EU and applicable law and have elected to prepare the parent company financial statements in accordance with UK Accounting Standards and applicable law.

Under company law the Directors must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the Group and parent company and of their profit or loss for that period

In preparing each of the Group and parent company financial statements, the Directors are required to

- select suitable accounting policies and then apply them consistently,
- make judgements and estimates that are reasonable and prudent
- for the Group financial statements, state whether they have been prepared in accordance with IFRS as adopted by the EU,
- for the parent company financial statements, state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the parent company financial statements, and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Group and the parent company will continue in business

DIRECTORS' REPORT AND FINANCIAL STATEMENTS CONTINUED

The Directors are responsible for keeping adequate accounting records that are sufficient to show and explain the parent and Group's transactions and disclose with reasonable accuracy at any time the financial position of the parent company and enable them to ensure that its financial statements comply with the Companies Act 2006 They have general responsibility for taking such steps as are reasonably open to them to safeguard the assets of the Group and to prevent and detect fraud and other irregularities

The Directors are responsible for the maintenance and integrity of the corporate and financial information included on the Group's website Legislation in the UK governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions

Responsibility statements under the disclosure and transparency rules

Each of the persons who is a Director at the date of approval of this report confirms that to the best of his or her knowledge

- i) each of the Group and parent company financial statements, prepared in accordance with IFRS and UK Accounting Standards respectively, gives a true and fair view of the assets, liabilities financial position and profit or loss of the Company and the undertakings included in the consolidation taken as a whole
- ii) the Strategic Report on pages 1 to 54 and Directors' Report on pages 55 to 63 and pages 151 and 152 include a fair review of the development and performance of the business and the position of the Company and the undertakings included in the consolidation taken as a whole, together with a description of the principal risks and uncertainties that they face, and
- iii) the Annual Report, taken as a whole, is fair, balanced and understandable and provides the information necessary for shareholders to assess the Group's position and performance, business model and strategy

Going concern

The going concern assessment considers whether it is appropriate to prepare the financial statements on a going concern basis

As described on page 152, the Group meets its funding requirements through a mixture of shareholders' funds, bank borrowings, bonds and notes At 31 December 2015, the Group had borrowing facilities of £5.1 billion and total liquidity of £5.0 billion, including cash and cash equivalents of £3 2 billion and undrawn facilities of £1 8 billion £419 million of the facilities mature in 2016

The Group's forecasts and projections, taking into account reasonably possible changes in trading performance show that the Group has sufficient financial resources. The Directors have reasonable expectations that the Company and the Group are well placed to manage business risks and to continue in operational existence for the foreseeable future (which accounting standards require to be at least a year from the date of this report) and have not identified any material uncertainties to the Company's and the Group's ability to do so

On the basis described above, the Directors consider it appropriate to adopt the going concern basis in preparing the consolidated financial statements (in accordance with the "Guidance on Risk Management, Internal Control and Related Financial and Business Reporting" published by the Financial Reporting Council in September 2014)

Disclosure of information to auditors

Each of the persons who is a Director at the date of approval of this report confirms that

- so far as the Director is aware, there is no relevant audit information of which the Company's auditor is unaware, and
- the Director has taken all steps that he or she ought to have taken as a director in order to make himself or herself aware of any relevant audit information and to establish that the Company's auditor is aware of that information

This confirmation is given, and should be interpreted, in accordance with the provisions of Section 418 of the Companies Act 2006

By order of the Board

Pamela Coles Company Secretary

24 February 2016

FINANCIAL STATEMENTS

CONSOLIDATED FINANCIAL STATEMEN	TS
Consolidated income statement	65
Consolidated statement	
of comprehensive income	66
Consolidated balance sheet	67
Consolidated cash flow statement	68
Consolidated statement	
of changes in equity	70
Notes to the Consolidated	
Financial Statements	71
Accounting policies	71
2 Segmental analysis	80
3 Research and development and	
other income and expenses	85
4 Net financing	85
5 Taxation	86
6 Employee information	88
7 Auditors remuneration	89
8 Intangible assets	89
9 Property, plant and equipment	92
10 Investments	93
11 Inventories	96
12 Trade and other receivables	96
13 Cash and cash equivalents	96
14 Borrowings	97
15 Trade and other payables	97
16 Financial instruments	98
17 Provisions for liabilities	
and charges	106
18 Post-retirement benefits	108
19 Share capital	113
20 Share-based payments	114
21 Leases	115
22 Contingent liabilities	116
23 Related party transactions	117
24 Acquisitions and disposals	118
• •	

CO		
	MPANY FINANCIAL STATEMENTS	
Cor	npany balance sheet	119
Cor	npany statement of comprehensive income	120
Cor	npany statement of changes in equity	120
	tes to the Company ancial Statements	121
	Accounting policies	121
2	Emoluments of directors	127
3	Intangible assets	127
4	Property, Plant and equipment	128
5	Investments	128
6	Inventories	129
7	Trade and other receivables	129
8	Cash and cash equivalents	129
9	Other financial assets and liabilities	129
10	Borrowings	131
11	Trade and other payables	131
12	Provisions for liabilities and charges	131
13	Deferred taxation	132
14	Post retirement benefits	132
15	Share capital	134
16	Operating lease commitments	135
17	Share-based payments	135
18	Transition to FRS 101	
	Reduced Disclosure Framework	136
19	Contingent liabilities	142
20	Related party transactions	142
21	Ultimate holding company	142

CONSOLIDATED INCOME STATEMENTFor the year ended 31 December 2015

	Notes	2015 £m	2014 £m
Continuing operations			
Revenue	2	13,725	13 736
Cost of sales	· · · · · · · · · · · · · · · · · · ·	(10,459)	(10 533
Gross profit		3,266	3,203
Other operating income		10	10
Commercial and administrative costs		(1,059)	(1 124
Research and development costs	3	(818)	(79
Share of results of joint ventures and associates	10	100	94
Operating profit		1,499	1,390
Profit on acquisition/reclassification of joint ventures		_	
Profit on disposal of businesses		2	(
Profit before financing and taxation	2	1,501	1,39
Financing income	4	115	32
Financing costs	4	(1,456)	(1 28
Net financing		(1,341)	(1 25
Profit before taxation1		160	14
Taxation	5	(76)	(15
Profit for the year from continuing operations		84	(
Discontinued operations			
Profit for the year from ordinary activities	2	=	
Profit on disposal			13
Profit for the year from discontinued operations		-	14
Profit for the year		84	13
Attributable to			
Ordinary shareholders	· · ·	83	148
Non-controlling interests		1	(1
Profit for the year		84	13
Underlying profit before taxation	2	1,432	1,62

Financial Statements

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME For the year ended 31 December 2015

	Notes	2015 £m	2014 £m
Profit for the year		84	137
Other comprehensive income (OCI)		_	_
Movements in post-retirement schemes	18	(722)	1 192
Related tax movements		257	(431
Items that will not be reclassified to profit or loss		(465)	761
Foreign exchange translation differences on foreign operations	- 	(129)	(158
Reclassified to income statement on disposal of businesses		1	(29
Share of OCI of joint ventures and associates	10	(19)	(13
Related tax movements	5	(2)	(2
Items that may be reclassified to profit or loss		(149)	(202
Total comprehensive income for the year		(530)	696
Attributable to			
Ord:nary shareholders		(530)	729
Non-controlling interests			(33
Total comprehensive income for the year		(530)	696

CONSOLIDATED BALANCE SHEET

At 31 December 2015

	Notes	2015 £m	2014 £m
ASSETS			
Intangible assets	8	4,645	4,804
Property, plant and equipment	9	3,490	3 446
Investments – joint ventures and associates	10	576	539
Investments – other	10	33	31
Other financial assets	16	83	107
Deferred tax assets	5	318	369
Post retirement scheme surpluses	18	1,063	1,740
Non-current assets		10,208	11 036
Inventories	11	2,637	2,768
Trade and other receivables	12	7,985	6 820
Taxation recoverable		23	19
Other financial assets	16	29	22
Short-term investments		2	7
Cash and cash equivalents	13	3,176	2,862
Assets held for sale		5	1
Current assets		13,857	12,499
TOTAL ASSETS		24,065	23 535
UABILITIES Borrowings Other financial liabilities Trade and other payables Current tax liabilities Provisions for liabilities and charges Current liabilities Borrowings Other financial liabilities Trade and other payables Non current tax liabilities Deferred tax liabilities Provisions for liabilities and charges Post-retirement scheme deficits	14 16 15 17 17 14 16 15 5 17 18	(419) (302) (7,420) (164) (336) (8,641) (2,883) (1,651) (2,317) (1) (839) (304) (1,140)	(68) (187) (7,680) (184) (433) (8,552) (2 193) (717) (2,445) (10) (1,228) (374) (1 185)
Non current liabilities		(9,135)	(8,152)
TOTAL LIABILITIES		(17,776)	(16 704)
NET ASSETS	-	6,289	6 831
EQUITY			
Called-up share capital	19	326	326
Share premium account		631	631
Cash flow hedging reserve		(100)	(81)
Other reserves		(54)	75
Retained earnings		5,484	5,875
Equity attributable to ordinary shareholders		6,287	6 826
Non-controlling interests		2	5
TOTAL EQUITY		6,289	6,831

The financial statements on pages 65 to 118 were approved by the Board on 24 February 2016 and signed on its behalf by

WARREN EAST Chief Executive

DAVID SMITH Chief Financial Officer

Warren East

CONSOLIDATED CASH FLOW STATEMENTFor the year ended 31 December 2015

	Notes	2015 £m	2014 £m
Reconciliation of cash flows from operating activities			
Operating profit from continuing operations		1,499	1 390
Operating loss from discontinued operations			(1)
Operating profit		1,499	1,389
Loss/(profit) on disposal of property-plant and equipment		8	(3)
Share of results of joint ventures and associates	10	(100)	(94)
Dividends received from joint ventures and associates	10	63	73
Return of capital from joint ventures	10	-	3
Gain on consolidation of previously non-consolidated subsidiary			(3)
Amortisation and impairment of intangible assets	8	432	367
Depreciation and impairment of property-plant and equipment	99	378	375
Impairment of investments	10	2	
(Decrease)/increase in provisions		(151)	129
Decrease in inventories		63	166
Increase in trade and other receivables		(836)	(878
Increase in trade and other payables		240	203
Cash flows on other financial assets and liabilities held for operating purposes		(305)	(30
Net defined benefit post-retirement cost recognised in profit before financing		213	170
Cash funding of defined benefit post-retirement schemes	 	(259)	(322
Share-based payments	20	5	21
Net cash inflow from operating activities before taxation		1,252	1 566
Taxation paid		(160)	(276
Net cash inflow from operating activities	-	1,092	1,290
Cash flows from investing activities Additions of unlisted investments		(c)	(3.3
		(6)	(11
Additions of intangible assets Disposals of intangibles assets		(408)	(477
Purchases of property, plant and equipment		(402)	
		(487)	(648
Government grants received		8	11 65
Disposals of property plant and equipment	 	33	
Acquisitions of businesses Acquisition of non-controlling interest		(5)	(3
Disposal of discontinued operations	 _	(171)	(1 937
		(121)	1 027
Disposals of other businesses		(15)	24
Investments in joint ventures and associates Net cash outflow from investing activities		(995)	(17 (1 966
		(333)	(1 300
Cash flows from financing activities Repayment of loans		(54)	(233
Proceeds from increase in loans and finance leases		1,150	49
Capital element of finance lease payments		(1)	
Net cash flow from increase/(decrease) in borrowings and finance leases		1,095	(184
Interest received		5	18
Interest paid		(58)	(63
Interest element of finance lease payments	 	(2)	
Decrease in short-term investments		5	313
Movement on balances with parent company	0	(822)	(465
		(0.2.)	(7€
			(457
Dividend paid to non-controlling interest		223	_ (
Dividend paid to non-controlling interest Net cash inflow/(outflow) from financing activities			
Dividend paid to non-controlling interest Net cash inflow/(outflow) from financing activities Change in cash and cash equivalents		320	(1 133
Dividend paid to non-controlling interest Net cash inflow/(outflow) from financing activities			(1 133 3,987

	2015	2014
	£m	£m
Reconciliation of movements in cash and cash equivalents to movements in net funds		
Change in cash and cash equivalents	320	(1,133)
Cash flow from (increase)/decrease in borrowings and finance leases	(1,095)	184
Cash flow from decrease in short-term investments	(5)	(313)
Change in net funds resulting from cash flows	(780)	(1,262)
Net funds (excluding cash and cash equivalents) of businesses acquired		(30)
Exchange gains on net funds	3	19
Fair value adjustments	45	(59)
Movement in net funds	(732)	(1,332)
Net funds at 1 January excluding the fair value of swaps	608	1,940
Net funds at 31 December excluding the fair value of swaps	(124)	608
Fair value of swaps hedging fixed rate borrowings	13	58
Net funds at 31 December	(111)	666

The movement in net funds (defined by the Group as including the items shown below) is as follows

	At 1 January 2015 £m	Funds flow £m	Exchange differences £m	Fair value adjustments £m	Reclassifications £m	At 31 December 2015 £m
Cash at bank and in hand	739	(69)	(8)	_	_	662
Money market funds	692	92	(1)			783
Short term deposits	1,431	297	3		-	1,731
Cash and cash equivalents	2,862	320	(6)		_	3,176
Short term investments	7	(5)	_			2
Other current borrowings	(67)	(64)	-	8	(294)	(417)
Non current borrowings	(2,149)	(1,027)	12	37	294	(2,833)
Finance leases	(45)	(4)	(3)	_	_	(52)
Net funds excluding fair value of swaps	608	(780)	3	45		(124)
Fair value of swaps hedging fixed rate borrowings	58			(45)		13
Net funds	666	(780)	3		_	(111)

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

For the year ended 31 December 2015

		Attributable to ordinary shareholders					- Non-		
	 Notes	Share capital £m	Share premium £m	Cash flow hedging reserve ¹ £m	Other reserves £m	Retained earnings £m	Total £m	controlling interests (NCI) £m	Total equity £m
At 1 January 2014		326	631	(68)	247	6,300	7,436	698	8,134
Profit for the year		-	_	_		148	148	(11)	137
Foreign exchange translation differences on foreign operations					(141)	_	(141)	(17)	(158)
Reclassified to income statement on disposal of businesses					(29)	_	(29)	· –	(29)
Movement on post-retirement schemes	18	_	-	_		1 199	1 199	(7)	1 192
Share of other comprehensive income of joint ventures									
and associates	10			(13)	_	-	(13)	-	(13)
Related tax movements	5	-			(2)	(433)	(435)	2	(433)
Total comprehensive income for the year				(13)	(172)	914	729	(33)	696
Share based payments - direct to equity ²		_	_	_	_	18	18		18
Purchase of NCI's remaining interest in subsidiary ³		_			_	(1,353)	(1 353)	(584)	(1 937)
Transactions with NCI		_		_	_	_	_	(76)	(76)
Related tax movements	5		-	_	_	(4)	(4)	_	(4)
Other changes in equity in the year					_	(1,339)	(1,339)	(660)	(1,999)
At 1 January 2015		326	631	(81)	75	5,875	6,826	5	6,831
Profit for the year			_	_	_	83	83	1	84
Foreign exchange translation differences on foreign operations		_	_	-	(128)		(128)	(1)	(129)
Reclassified to income statement on disposal of businesses		_		_	1	_	1	_	1
Movement on post retirement schemes	18	_	_	_	_	(722)	(722)	· –	(722)
Amount credited to cash flow hedge reserve			_	-	_	-	_	_	_
Share of other comprehensive income of joint ventures								•	
and associates	10			(19)		-	(19)		(19)
Related tax movements	5	-	-	-	(2)	257	255	-	255
Total comprehensive income for the year				(19)	(129)	(382)	(530)		(530)
Share-based payments - direct to equity ²			_	_	_	(3)	(3)	· -	(3)
Disposal of business		-	-	_		==		(3)	(3)
Dividend paid to NCI		_		_	-	-		_	
Related tax movements	5	_		-	_	(6)	(6)	_	(6)
Other changes in equity in the year			_	_		(9)	(9)	(3)	(12)
At 31 December 2015		326	631	(100)	(54)	5,484	6,287	2	6,289

See accounting policies note 1
Share based payments — direct to equity is the net of the credit to equity in respect of the share based payment charge to the income statement and the actual cost of shares vesting excluding those vesting from own shares
On 26 August 2014 the Group purchased the remaining 50% of Rolls Royce Power Systems Holding GmbH from Daimler AG for £1 937m

1 Accounting policies

THE COMPANY

Rolls-Royce plc (the 'Company') is a company domiciled in the United Kingdom. The consolidated financial statements of the Company for the year ended 31 December 2015 consist of the consolidation of the financial statements of the Company and its subsidiaries (together referred to as the 'Group') and include the Group's interest in jointly controlled and associated entities

BASIS OF PREPARATION AND STATEMENT OF COMPLIANCE

In accordance with European Union (EU) regulations, these financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS) issued by the International Accounting Standards Board (IASB) as adopted for use in the EU effective at 31 December 2015 (Adopted IFRS)

The Company has elected to prepare its individual company financial statements under FRS 101 Reduced Disclosure Framework. This year is the first year that the financial statements have been prepared under FRS 101. They are set out on pages 119 to 142 and the accounting policies in respect of Company financial statements are set out on page 121

These consolidated financial statements have been prepared on the historical cost basis except where Adopted IFRS requires the revaluation of financial instruments to fair value and certain other assets and liabilities on an alternative basis – most significantly post-retirement scheme obligations are valued on the basis required by IAS 19 Employee Benefits - and on a going concern basis as described on page 63

The consolidated financial statements are presented in sterling which is the Company's functional currency

The preparation of financial statements in conformity with Adopted IFRS requires management to make judgements and estimates that affect the reported amounts of assets and habilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates

KEY AREAS OF JUDGEMENT

Introduction

The Group generates a significant portion of its revenues and profit on aftermarket arrangements arising from the installed original equipment (OE) fleet. As a consequence, the Group will often agree contractual prices for OE deliveries that take into account the anticipated aftermarket arrangements. Accounting policies reflect this aspect of the business model, in particular the policies for the recognition of contractual aftermarket rights and the linkage of OE and aftermarket arrangements

When a civil large engine is sold, the economic benefits received usually far exceed the cash receivable under the contract, due to the rights to valuable aftermarket spare parts business. However, because the value of this right cannot be estimated with enough precision accounting standards require that the revenue recognised in the accounts on sale of the engine is restricted to a total amount that results in a break even position. The amount of the revenue recognised in excess of cash receivable is recognised as an intangible asset, which is called a 'contractual aftermarket right'

There is only one circumstance where accounting standards require the recognition of more of the value of the aftermarket rights when an engine is sold. This occurs where a long-term aftermarket contract (generally a TotalCare agreement — TCA) and an engine sale contract have been negotiated together. In this circumstance, the part of the aftermarket rights covered by the TCA can be valued much more precisely and is recognised at the time of the engine sale through accounting for the engine sale and TCA as a single contract Nevertheless, the accounting profit recognised is still less than the economic benefits on the sale as there will be other valuable aftermarket rights (for instance for the period beyond the TCA) which are outside the scope of the TCA) which cannot be recognised

The Group enters into arrangements with long-term suppliers to share the risks and rewards of major programmes – risk and revenue sharing arrangements (RRSAs) The accounting policy for these arrangements has been chosen, consistent with Adopted IFRS, to reflect their commercial effect

The key judgements in determining these accounting policies are described below

Contractual aftermarket rights (CARs)

On delivery of Civil Aerospace engines, the Group has contractual rights to supply aftermarket parts to the customers and its intellectual rights, warranty arrangements and, where relevant, statutory airworthiness or other regulatory requirements provide reasonable control over this supply. The directors consider that these rights meet the definition of an intangible asset in IAS 38 Intangible Assets. However, the directors do not consider that it is possible to determine a reliable fair value for this intangible asset Accordingly, an intangible asset (CAR) is only recognised on the occasions where the contractual price of the engine is below the cost of manufacture and then only to the extent of this deficit, as this amount is reliably measureable. An equal amount of revenue is recognised at the same point. Where a long-term aftermarket contract is linked to the OE contract (see below) the contractual price of the engine (including amounts allocated from the aftermarket contract) is above its cost of manufacture consequently no CAR is recognised

1 Accounting policies continued

Measure of performance on long-term aftermarket contracts

A large proportion of the Group's activities relate to long term aftermarket contracts, in particular TotalCare and similar arrangements in the Aerospace Division. Under these contracts, the Group's primary obligation is to maintain customers' equipment in an operational condition and achieves this by undertaking various activities, such as engine monitoring, line maintenance and repair and overhaul, over the period of the contract. In general, the directors consider that the stage of performance of the contract should be by reference to the obligation to maintain an operational fleet and that this is best measured by the operation of the fleet. Accordingly, stage of performance is measured by reference to flying hours of each fleet under contract.

Linkage of original and long-term aftermarket contracts

Where the key terms of a long-term aftermarket contract are substantively agreed (eg in a term sheet) at the same time as an OE contract with the operator, the directors consider these to be linked for accounting purposes and they are treated as a single contract, as this best reflects the overall commercial effect. Where the OE contract is not with the operator, eg where it is with an OE manufacturer or a lessor, the contracts are not linked as they were not negotiated on a unified basis.

Risk and revenue sharing arrangements (RRSAs)

RRSAs with key suppliers (workshare partners) are a feature of our Civil Aerospace business. Under these contractual arrangements the key commercial objectives are that (i) during the development phase the workshare partner shares in the risks of developing an engine by performing its own development work, providing development parts and paying a non-refundable cash entry fee, and (ii) during the production phase it supplies components in return for a share of the programme revenues as a 'life of type' supplier (ie as long as the engine remains in service). The share of development costs borne by the workshare partner and of the revenues it receives reflect the partner's proportionate cost of providing its production parts compared to the overall manufacturing cost of the engine. The share is based on a jointly agreed forecast at the commencement of the arrangement.

These arrangements are complex and have features that could be indicative of a collaboration agreement, including sharing of risk and cost in a development programme, a long-term supply agreement sharing of intellectual property or a combination of these. In summary and as described below, the directors' view is that the development and production phases of the contract should be considered separately in accounting for the RRSA, which results in the entry fee being matched against the non-recurring costs incurred by the Group

Having considered the features above, the directors considered that there is no directly applicable IFRS to determine an accounting policy for the recognition of entry fees of this nature in the income statement. Consequently, in developing an accounting treatment for such entry fees that best reflects the commercial objectives of the contractual arrangement, the directors have analysed these features in the context of relevant accounting pronouncements (including those of other standard setters where these do not conflict with IFRS) and have weighed the importance of each feature in faithfully representing the overall commercial effect. The most important considerations that need to be balanced are the transfer of development risk, the workshare partner receiving little standalone value from the payment of the entry fee, and the overall effect being collaboration between the parties which falls short of being a joint venture as the Group controls the programme. Also important in the analysis is the fact that, whilst the Group and the workshare partner share risks and rewards through the life of the contract these risks and rewards are very different during the development and production phases.

In this context, the entry fee might be considered to represent an amount paid as an equalisation of development costs a payment to secure a long-term supply arrangement, a purchase of intellectual property or some combination thereof. The accounting under these different scenarios could include recognition of the entry fee to match the associated costs in the income statement, being spread over the life of the programme as a reduction in the cost of supply during production, or being spread over the time period of the access to the intellectual property by the workshare partner.

The directors consider that the most important features of the arrangement are the risk sharing and that the entry fee represents a contribution to the development costs that the Group incurs in excess of its proportionate programme share. The key judgements taken in reaching this view are the entry fee is determined by the parties on that basis and the contract specifies that, in the event that a derivative engine is to be developed, additional entry fees will also be calculated on this basis, the workshare partners describe the entry fee in this way, although the workshare partner receives little stand-alone value from paying the entry fee, the entry fee together with its own development activities represent its aggregate investment in the collaboration, the amount of the entry fee does not include any amount in excess of that necessary to equalise forecast development costs, the Group is not 'on risk' for the full development costs it incurs but for that amount less the entry fees received, and as far as can be determined, this appears to be common industry accounting for arrangements of this type, under both Adopted IFRS and US accounting standards (which the directors do not believe conflicts with IFRS in this regard)

The resulting accounting policy (described on page 75) represents the commercial effect of the contractual arrangements in that the Group recognises only those development costs to which it is exposed (and thus reflects the significant transfer of development risk to the workshare partner) and the costs of supply of parts during the production phase is measured at the workshare partner's share of programme revenues (which we consider to be a commercial fair value). The directors do not consider that accounting which would result in entry fees only being recognised in the production phase would appropriately reflect the sharing of development risk. Accordingly, the directors believe that the policy adopted best reflects the commercial objectives of the arrangements, the nature of the relationship with the workshare partner and is in accordance with Adopted IFRS.

1 Accounting policies continued

As described in the 2013 Annual Report, an alternative view is that the RRSA contract cannot be divided into separate development and production phases as the fees and development components received by the Group during the development phase are exchanged for the obligation to pay the supplier a predetermined share of any sales receipts during the production phase. On this basis the entry fees received would be deferred in their entirety and recognised over the period of production. The size of the difference between the two approaches is monitored and is not currently expected to become material in the foreseeable future. The impact of the different approaches on profit before tax and net assets, which is not considered to be material, is as follows

		2015		2014			
	Reported profit before tax £m	Underlying profit before tax £m	Net assets £m	Reported profit before tax £m	Underlying profit before tax £m	Net assets £m	
Adopted policy	160	1,432	6,289	146	1,620	6 831	
Difference	(28)	1 (28)	(435)	(30)	(30)	(402)	
Alternative policy	132	1,404	5,854	116	1,590	6,429	

¹ If the alternative policy were adopted the difference would be included in profit before financing which would change from £1 501m as reported to £1 473m (2014 £1 398m to £1 368m)

internally generated development costs

IAS 38 requires that internally generated development costs should only be recognised if strict criteria are met, in particular relating to technical feasibility and generation of future economic benefits. The directors consider that, due to the complex nature of new equipment programmes, these criteria are not met until relatively late in the programme - Civil Aerospace programmes represent around half of development costs recognised, for these, the criteria are generally satisfied around the time of the initial engine certification

Customer financing contingent liabilities

The Group has contingent liabilities in respect of financing support provided to customers. In order to assess whether a provision should be recognised, judgement as to the likelihood of these crystallising is required. This judgement is based on an assessment on the knowledge of the customers' fleet plans, the underlying value of the security provided and, where appropriate, the customers' creditworthiness

KEY SOURCES OF ESTIMATION UNCERTAINTY

In applying the accounting policies, estimates are made in many areas, the actual outcome may differ from that calculated. The key sources of estimation uncertainty at the balance sheet date that have a significant risk of causing material adjustment to the carrying amounts of assets and habilities within the next financial year are set out below. The estimation of the relevant assets and habilities involves the combination of a number of assumptions. Sensitivities are disclosed in the relevant notes where this is appropriate and practicable

Forecasts and discount rates

The carrying values of a number of items on the balance sheet are dependent on the estimates of future cash flows arising from the Group's operations, in particular

- The assessment of whether the goodwill and other intangible assets (carrying value at 31 December 2015 £1,502m, 31 December 2014 £1,659m) arising on the consolidation of RRPS is impaired is dependent of the present value of the future cash flows expected to be generated by the business
- The assessment as to whether there are any indications of impairment of development, participation, customer relationships, certification and contractual aftermarket rights recognised as intangible assets (carrying values at 31 December 2015 £2,533m, 31 December 2014 £2,533m) is dependent on estimates of cash flows generated by the relevant assets and the discount rate used to calculate a present value These estimates include the performance of long-term contractual arrangements as described below, as well as estimates for future market share, pricing and unit cost for uncontracted business. The risk of impairment is generally higher for newer programmes and for customer specific intangible assets (CARs) for launch customers and typically reduces as programmes become more established

Assessment of long-term contractual arrangements

The Group has long-term contracts that fall into different accounting periods and which can extend over significant periods – the most significant of these are long-term service arrangements in the Civil Aerospace business. The estimated revenues and costs are inherently imprecise and significant estimates are required to assess length flying hours, time on wing and other operating parameters, the pattern of future maintenance activity and the costs to be incurred and life cycle cost improvements over the term of the contracts. The estimates take account of the inherent uncertainties and the risk of non-recovery of any resulting contract balances. During 2015, the methodologies for making these estimates were reviewed and refined

Post-retirement benefits

The Group's defined benefit pension schemes and similar arrangements are assessed annually in accordance with IAS 19. The accounting valuation, which is based on assumptions determined with independent actuarial advice, resulted in a net deficit of £77m before deferred taxation being recognised on the balance sheet at 31 December 2015 (31 December 2014 net surplus £555m). The size of the net surplus/ deficit is sensitive to the market value of the assets held by the schemes and to actuarial assumptions, which include price inflation. pension and salary increases, the discount rate used in assessing actuarial liabilities, mortality and other demographic assumptions and the levels of contributions. Further details are included in note 18

1 Accounting policies continued

Provisions

As described in the accounting policy on page 78, the Group measures provisions (carrying value at 31 December 2015 £640m, 31 December 2014 £807m) at the directors' best estimate of the expenditure required to settle the obligation at the balance sheet date. These estimates take account of information available and different possible outcomes

Taxation

The tax payable on profits is determined based on tax laws and regulations that apply in each of the numerous jurisdictions in which the Group operates. Where the precise impact of these laws and regulations is unclear, or uncertain then reasonable estimates may be used to determine the tax charge included in the financial statements.

The main area of uncertainty is in relation to cross border transactions, entered into in the normal course of business, as the amount of income or profit taxable in each country involved can be subjective and therefore open to interpretation by the relevant tax authorities. This can result in disputes and possibly litigation.

Accruals for tax contingencies require management to make judgements and estimates of exposures in relation to tax audit issues and other areas of uncertainty. Contingent liabilities, including in respect of any tax disputes or litigation, are covered in note 22 (contingent liabilities). All provisions are in current liabilities. Any liability relating to interest or penalties on tax liabilities is included in the tax charge.

Deferred tax assets are recognised to the extent it is probable that future taxable profits will be available against which the deductible temporary difference can be utilised based on management's assumptions relating to the amounts and timing of future taxable profits

Further details on the group tax position can be found on page 151

SIGNIFICANT ACCOUNTING POLICIES

The Group's significant accounting policies are set out below. These accounting policies have been applied consistently to all periods presented in these consolidated financial statements and by all Group entities.

Basis of consolidation

The Group consolidated financial statements include the financial statements of the Company and its subsidiary undertakings together with the Group's share of the results of joint arrangements and associates made up to 31 December in line with common practice in Germany, a small number of immaterial subsidiaries of Rolls-Royce Power Systems are not consolidated and are carried at cost in other investments. If such subsidiaries become material, they are consolidated. The difference between the net assets recognised and the investment cost eliminated is recognised in other operating income.

A subsidiary is an entity controlled by the Company Control exists when the Company has power over an entity, exposure to variable returns from its involvement with an entity and the ability to use its power over an entity so as to affect the Company's returns

A joint arrangement is an entity in which the Group holds a long-term interest and which is jointly controlled by the Group and one or more other venturers under a contractual arrangement. Joint arrangements may be either joint ventures or joint operations. An associate is an entity, being neither a subsidiary nor a joint arrangement, in which the Group holds a long-term interest and where the Group has a significant influence. The results of joint ventures and associates are accounted for using the equity method of accounting. The results of joint operations are proportionately accounted.

Any subsidiary undertakings, joint arrangements or associates sold or acquired during the year are included up to, or from, the dates of change of control. Transactions with non-controlling interests are recorded directly in equity.

Where a put option over shares held by a non-controlling interest has been agreed, the Group recognises a liability for the estimated exercise value of that option. Movements in the estimated liability after initial recognistion are recognised in the income statement.

All intra-group transactions, balances, income and expenses are eliminated on consolidation. Adjustments are made to eliminate the profit or loss arising on transactions with joint arrangements and associates to the extent of the Group's interest in the entity.

Revenue recognition

Revenues comprise sales to outside customers after discounts excluding value added taxes

Sales of products (both original equipment and spare parts) are recognised when the significant risks and rewards of ownership of the goods are transferred to the customer, the sales price agreed and the receipt of payment can be assured – this is generally on delivery. On occasion, the Group may participate in the financing of OE, most commonly by the provision of guarantees as described in note 17. In such circumstances, the contingent obligations arising under these arrangements are taken into account in assessing when the significant risks and rewards of ownership have been transferred to the customer. As described on page 71, a sale of OE at a contractual price below its cost of manufacture is considered to give rise to revenue to the extent that an intangible asset, (contractual aftermarket right), is recognised at the same time.

1 Accounting policies continued

Sales of services are recognised by reference to the stage of completion based on services performed to date. As described on page 72, the assessment of the stage of completion is dependent on the nature of the contract, but will generally be based on flying hours or equivalent for long-term aftermarket arrangements where the service is provided on a continuous basis, costs incurred to the extent these relate to services performed up to the reporting date, or achievement of contractual milestones where relevant

As described on page 72, sales of products and services are treated as though they are a single contract where these components have been negotiated as a single commercial package and are so closely interrelated that they do not operate independently of each other and are considered to form a single transaction with an overall profit margin. The total revenue is allocated between the two components such that the total agreed discount to list prices is allocated to revenue for each of the two components pro rata, based on list prices. The revenue is then recognised for each component on this basis as the products are delivered and services provided as described above Where the contractual price of the OE component is below the revenue allocated from the combined arrangement, this will give rise to an asset included in 'amounts recoverable on contracts'. This asset reduces as services are provided, increases as costs are incurred, and reduces to zero by the end of the contract. Where the balance is a liability, it is recognised in accruals and deferred income?

Provided that the outcome of construction contracts can be assessed with reasonable certainty, the revenues and costs on such contracts are recognised based on stage of completion and the overall contract profitability. Full provision is made for any estimated losses to completion of contracts, having regard to the overall substance of the arrangements

Progress payments received, when greater than recorded revenue, are deducted from the value of work in progress except to the extent that payments on account exceed the value of work in progress on any contract where the excess is included in accruals and deferred income within trade and other payables. The amount by which recorded revenue of long-term contracts is in excess of payments on account is classified as amounts recoverable on contracts and is separately disclosed within trade and other receivables

TotalCare arrangements

As described above, these are accounted for on a stage of completion basis, with the stage of completion based on the proportion of flying hours completed compared to the total estimated under the contract. In making the assessment of future revenues, costs and the level of profit recognised the Group takes account of (i) the forecast utilisation of the engines by the operator, (ii) the forecast costs to maintain the engines in accordance with the contractual requirements - the principal variables being the time between shop visits and the cost of each shop visit, and (iii) the recoverability of any contract asset arising. The Group benchmarks the forecast costs against previous programmes, recognising that the reliability of the forecasts will improve as operational experience of the engine increases. To the extent that actual costs differ from forecast costs or that forecast costs change, the cumulative impact is recognised in the period. An allowance is made against forecast contract revenues, given the potential for reduced engine flying hours based on historical forecasting accuracy, the risk of aircraft being parked by the customer and the customer's creditworthiness, (previously assessed against contract assets arising based on both the customer's creditworthiness and an assessment of the importance of the particular engine fleet to the customer) Again changes in this allowance are recognised in the period

Risk and revenue sharing arrangements (RRSAs)

As described on page 72, the Group enters into arrangements with certain workshare partners under which these suppliers (i) contribute to the forecast costs of developing an engine by performing their own development work, providing development parts and paying a non-refundable cash entry fee, and (11) supply components for the production phase for which they receive consideration which is an agreed proportion of the total programme revenues. Both the suppliers' contributions to the forecast non-recurring development costs and their consideration are determined by reference to their proportionate forecast scopes of supply relative to that of the engine overall Once the forecast costs and the scopes of supply have been agreed at the inception of the contract, each party is then accountable for its own incurred costs. No accounting entries are recorded when the suppliers undertake development work or when development components are supplied. Cash sums received are recognised in the income statement, as a reduction in research and development costs incurred, to match the expensing of the Group's related costs – where the cash sums are received in advance of the related costs being expensed or where the related costs are capitalised as intangible assets, the recognition of the cash received is deferred (in accruals and deferred income) to match the recognition of the related expense or the amortisation of the related intangible asset respectively. The payments to suppliers of their shares of the programme revenues for their production components are charged to cost of sales as programme revenues arise

The Group has arrangements with partners who do not undertake development work or supply parts. Such arrangements are considered to be financial instruments as defined by IAS 32 Financial Instruments Presentation and are accounted for using the amortised cost method

Government investment

Where a government or similar body has previously invested in a development programme, the Group treats payments to that body as royalty payments, which are matched to related sales

Government grants are recognised in the income statement so as to match them with the related expenses that they are intended to compensate. Where grants are received in advance of the related expenses, they are included in the balance sheet as deferred income Non-monetary grants are recognised at fair value

1 Accounting policies continued

Interest

Interest receivable/payable is credited/charged to the income statement using the effective interest method. Where borrowing costs are attributable to the acquisition, construction or production of a qualifying asset, such costs are capitalised as part of the specific asset.

Taxation

The tax charge/credit on the profit or loss for the year comprises current and deferred tax

- Current tax is the expected tax payable for the year, using tax rates enacted or substantively enacted at the balance sheet date and any adjustment to tax payable in respect of previous years
- Deferred tax is provided using the balance sheet liability method providing for temporary differences between the carrying amounts of
 the assets and liabilities for financial reporting purposes and the amounts used for tax purposes and is calculated using the enacted or
 substantively enacted rates that are expected to apply when the asset or liability is settled

Tax is charged or credited in the income statement or other comprehensive income (OCI) as appropriate, except when it relates to items credited or charged directly to equity in which case the tax is also dealt with in equity

Deferred tax liabilities are recognised for taxable temporary differences arising on investments in subsidiaries and joint arrangements, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax is not recognised on taxable temporary differences arising on the initial recognition of goodwill or for temporary differences arising from the initial recognition of assets and liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit.

Deferred tax assets are recognised only to the extent that it is probable that future taxable profits will be available against which the assets can be utilised

Foreign currency translation

Transactions denominated in currencies other than the functional currency of the transacting Group undertaking are translated into the functional currency at the exchange rates ruling on the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are translated into the relevant functional currency at the rate ruling at the year end. Exchange differences arising on foreign exchange transactions and the retranslation of assets and liabilities into functional currencies at the rate ruling at the year end are taken into account in determining profit before taxation.

The trading results of Group undertakings are translated into sterling at the average exchange rates for the year. The assets and liabilities of overseas undertakings, including goodwill and fair value adjustments arising on acquisition, are translated at the exchange rates ruling at the year end. Exchange adjustments arising from the retranslation of the opening net investments, and from the translation of the profits or losses at average rates, are recognised in OCI. The cumulative amount of exchange adjustments was, on transition to IFRS in 2004, deemed to nil.

Financial instruments

IAS 39 Financial instruments Recognition and Measurement requires the classification of financial instruments into separate categories for which the accounting requirement is different. The Group has classified its financial instruments as follows

- · short-term investments are generally classified as available for sale,
- short-term deposits (principally comprising funds held with banks and other financial institutions), trade receivables and short-term investments not designated as available for sale are classified as loans and receivables,
- borrowings, trade payables and financial RRSAs are classified as other liabilities, and
- derivatives comprising foreign exchange contracts, interest rate swaps and commodity swaps are classified as fair value through profit or loss

Financial instruments are recognised at the contract date and initially measured at fair value. Their subsequent measurement depends on their classification.

- Available for sale assets are held at fair value. Changes in fair value arising from changes in exchange rates are included in the income statement. All other changes in fair value are taken to equity. On disposal, the accumulated changes in value recorded in equity are included in the gain or loss recorded in the income statement.
- Loans and receivables and other liabilities are held at amortised cost and not revalued (except for changes in exchange rates and forecast contractual cash flows, which are included in the income statement) unless they are included in a fair value hedge accounting relationship. Where such a hedging relationship exists, the instruments are revalued in respect of the risk being hedged, with the change in value included in the income statement.
- Fair value through profit or loss items are held at fair value. Changes in fair value are included in the income statement unless the instrument is included in a cash flow hedge. If the instruments are included in an effective cash flow hedging relationship, changes in value are taken to equity. When the hedged forecast transaction occurs, amounts previously recorded in equity are recognised in the income statement.

Financial instruments are derecognised on expiry or when all contractual rights and obligations are transferred

1 Accounting policies continued

Hedge accounting

The Group does not generally apply hedge accounting in respect of forward foreign exchange contracts or commodity swaps held to manage the cash flow exposures of forecast transactions denominated in foreign currencies or in commodities respectively

The Group applies hedge accounting in respect of transactions entered into to manage the fair value and cash flow exposures of its borrowings Forward foreign exchange contracts are held to manage the fair value exposures of borrowings denominated in foreign currencies and are designated as fair value hedges. Interest rate swaps are held to manage the interest rate exposures and are designated. as fair value or cash flow hedges of fixed and floating rate borrowings respectively

Changes in the fair values of derivatives designated as fair value hedges and changes in fair value of the related hedged item are recognised directly in the income statement

Changes in the fair values of derivatives that are designated as cash flow hedges and are effective are recognised directly in equity Any ineffectiveness in the hedging relationships is included in the income statement. The amounts deferred in equity are recognised. in the income statement to match the recognition of the hedged item

Hedge accounting is discontinued when the hedging instrument expires or is sold terminated, exercised or no longer qualifies for hedge accounting. At that time, for cash flow hedges and if the forecast transaction remains probable, any cumulative gain or loss on the hedging instrument recognised in equity is retained in equity until the forecast transaction occurs. If a hedged transaction is no longer expected to occur, the net cumulative gain or loss previously recognised in equity is transferred to the income statement

The portion of a gain or loss on an instrument used to hedge a net investment in a foreign operation that is determined to be an effective hedge is recognised directly in equity. The ineffective portion is recognised immediately in the income statement. Gains and losses accumulated in the translation reserve will be recycled to profit when the foreign operation is sold

Business combinations and goodwill

On the acquisition of a business, fair values are attributed to the identifiable assets and liabilities and contingent liabilities unless the fair value cannot be measured reliably, in which case the value is subsumed into goodwill. Where fair values of acquired contingent liabilities cannot be measured reliably, the assumed contingent liability is not recognised but is disclosed in the same manner as other contingent liabilities

Goodwill recognised represents the excess of the fair value of the purchase consideration over the fair value to the Group of the net of the identifiable assets acquired and the liabilities assumed On transition to IFRS on 1 January 2004, business combinations were not retrospectively adjusted to comply with Adopted IFRS and goodwill was recognised based on the carrying value under the previous accounting policies. Goodwill in respect of the acquisition of a subsidiary is recognised as an intangible asset. Goodwill arising on the acquisition of joint arrangements and associates is included in the carrying value of the investment

Certification costs and participation fees

Costs incurred in respect of meeting regulatory certification requirements for new civil aero-engine/aircraft combinations including payments made to airframe manufacturers for this and participation fees are carried forward in intangible assets to the extent that they can be recovered out of future sales and are charged to the income statement over the programme life, up to a maximum of 15 years from the entry into service of the product

Research and development

In accordance with IAS 38 Intangible Assets, expenditure incurred on research and development is distinguished as relating either to a research phase or to a development phase

All research phase expenditure is charged to the income statement. Development expenditure is capitalised as an internally generated intangible asset only if it meets strict criteria, relating in particular to technical feasibility and generation of future economic benefits As described on page 73, the Group considers that it is not possible to distinguish reliably between research and development activities until relatively late in the programme

Expenditure capitalised is amortised over its useful economic life, up to a maximum of 15 years from the entry into service of the product

Contractual aftermarket rights

As described under key judgements on page 71, the Group may sell OE to customers at a price below its cost, on the basis that it also receives valuable aftermarket rights. Such a sale is considered to give rise to an intangible asset which is recognised, in accordance with IAS 38, at the same time as the revenue at an amount equal to the cash deficit and is amortised on a straight-line basis over the period that highly probable aftermarket sales are expected to be earned

Customer relationships

The fair value of customer relationships recognised as a result of a business combination relate to the acquired company's established relationships with its existing customers that result in repeat purchases and customer loyalty. Amortisation occurs on a straight-line basis over its useful economic life, up to a maximum of 15 years

1 Accounting policies continued

Software

The cost of acquiring software that is not specific to an item of property, plant and equipment is classified as an intangible asset and amortised over its useful economic life, up to a maximum of five years

Property, plant and equipment

Property, plant and equipment assets are stated at cost less accumulated depreciation and any provision for impairment in value

Depreciation is provided on a straight-line basis to write off the cost, less the estimated residual value, of property, plant and equipment over their estimated useful lives. No depreciation is provided on assets in the course of construction. Estimated useful lives are as follows:

- 1) land and buildings, as advised by the Group's professional advisers
 - a) freehold buildings five to 45 years (average 25 years),
 - b) leasehold buildings lower of adviser's estimates or period of lease,
 - c) no depreciation is provided on freehold land,
- 11) plant and equipment five to 25 years (average 13 years),
- iii) aircraft and engines five to 20 years (average 13 years)

Operating leases

Payments made and rentals received under operating lease arrangements are charged/credited to the income statement on a straight-line basis

Impairment of non-current assets

Impairment of non-current assets is considered in accordance with IAS 36 Impairment of Assets. Where the asset does not generate cash flows that are independent of other assets, impairment is considered for the cash-generating unit to which the asset belongs. Goodwill and intangible assets not yet available for use are tested for impairment annually. Other intangible assets, property, plant and equipment and investments are assessed for any indications of impairment annually. If any indication of impairment is identified, an impairment test is performed to estimate the recoverable amount.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be below the carrying value, the carrying value is reduced to the recoverable amount and the impairment loss recognised as an expense. The recoverable amount is the higher of value in use or fair value less costs to sell, if this is readily available. The value in use is the present value of future cash flows using a pre-tax discount rate that reflects the time value of money and the risk specific to the asset.

Inventories

Inventories and work in progress are valued at the lower of cost and net realisable value on a first-in, first-out basis. Cost comprises direct materials and, where applicable, direct labour costs and those overheads, including depreciation of property, plant and equipment, that have been incurred in bringing the inventories to their present location and condition. Net realisable value represents the estimated selling prices less all estimated costs of completion and costs to be incurred in marketing, selling and distribution.

Cash and cash equivalents

Cash and cash equivalents include cash at bank and in hand, investments in money-market funds and short-term deposits with a maturity of three months or less on inception. The Group considers overdrafts (repayable on demand) to be an integral part of its cash management activities and these are included in cash and cash equivalents for the purposes of the cash flow statement.

Provisions

Provisions are recognised when the Group has a present obligation as a result of a past event, and it is probable that the Group will be required to settle that obligation. Provisions are measured at the directors' best estimate of the expenditure required to settle the obligation at the balance sheet date, and are discounted to present value where the effect is material.

Post-retirement benefits

Pensions and similar benefits (principally healthcare) are accounted for under IAS 19 Employee Benefits

For defined benefit plans, obligations are measured at discounted present value, using a discount rate derived from high-quality corporate bonds denominated in the currency of the plan, whilst plan assets are recorded at fair value. Surpluses in schemes are recognised as assets only if they represent economic benefits available to the Group in the future. A liability is recognised to the extent that the minimum funding requirements in respect of past service will give rise to an unrecognisable surplus.

The service and financing costs of such plans are recognised separately in the income statement

- current service costs are spread systematically over the lives of employees
- · past-service costs are recognised immediately, and
- · financing costs are recognised in the periods in which they arise

Actuarial gains and losses and movements in unrecognised surpluses and minimum funding liabilities are recognised immediately in OCI Payments to defined contribution schemes are charged as an expense as they fall due

1 Accounting policies continued

Share-based payments

The Group provides share-based payment arrangements to certain employees. These are principally equity-settled arrangements and are measured at fair value (excluding the effect of non-market based vesting conditions) at the date of grant. The fair value is expensed on a straight-line basis over the vesting period. The amount recognised as an expense is adjusted to reflect the actual number of shares or options that will vest, except where additional shares vest as a result of the total shareholder return (TSR) performance condition in the Performance Share Plan (PSP)

Cash-settled share options (grants in the International ShareSave plan) are measured at fair value at the balance sheet date. The Group recognises a hability at the balance sheet date based on these fair values, taking into account the estimated number of options that will actually vest and the relative completion of the vesting period. Changes in the value of this liability are recognised in the income statement for the year

Sales financing support

In connection with the sale of its products, the Group will, on occasion, provide financing support for its customers. These arrangements fall into two categories credit-based quarantees and asset-value quarantees. In accordance with the requirements of IAS 39 and IFRS 4 Insurance Contracts, credit-based guarantees are treated as insurance contracts. The Group considers asset-value guarantees to be non-financial liabilities and accordingly these are also treated as insurance contracts. As described on page 107, the directors consider the likelihood of crystallisation in assessing whether provision is required for any contingent habilities

The Group's contingent liabilities relating to financing arrangements are spread over many years and relate to a number of customers and a broad product portfolio, and are reported on a discounted basis

Revisions to Adopted IFRS in 2015

There were no changes to accounting standards that had a material impact on the 2015 financial statements

Revisions to IFRS not applicable in 2015

Standards and interpretations issued by the IASB are only applicable if endorsed by the EU

Once endorsed, IFRS 9 Financial Instruments will simplify the classification of financial assets for measurement purposes, but is not anticipated to have a significant impact on the financial statements

IFRS 15 Revenue from Contracts with Customers (effective for the year-ending 31 December 2018 not yet endorsed by the EU) provides a single principles-based five-step model to be applied to all sales contracts, based on the transfer of control of goods and services to customers It replaces the separate models for goods, services and construction contracts currently included in IAS 11 Construction Contracts and IAS 18 Revenue Given the nature of the Group's long-term contracts, it is likely that the adoption of IFRS 15 will require significant judgement

Based on the provisional assessment, IFRS 15 will have a significant impact on the timing of recognition of revenue on individual long-term contracts, most particularly in the Civil Aerospace business although this impact is likely to be significantly reduced at a Group level when all long-term contracts (with different start and end dates) are combined. The key areas of judgement are (i) whether contractual aftermarket rights can continue to be recognised (ii) whether OE and TotalCare contracts can be linked for accounting purposes, and (iii) how performance should be measured on TotalCare contracts. The Group will continue to assess the impact during 2016 and also consider the interpretations of other aerospace and defence companies

IFRS 16 Leases (effective for the year-ending 31 December 2019 not yet endorsed by the EU) will require all leases to be recognised on the balance sheet. Currently IAS 17 Leases only requires leases categorised as finance leases to be recognised on the balance sheet, with leases categorised as operating leases not recognised. In broad terms, the impact will be to recognise a lease liability and corresponding asset for operating lease commitments set out in note 21

The Group does not consider that any other standards, amendments or interpretations issued by the IASB, but not yet applicable, will have a significant impact on the financial statements

2 Segmental analysis

The analysis by Division (business segment) is presented in accordance with IFRS 8 *Operating segments*, on the basis of those segments whose operating results are regularly reviewed by the Board (the Chief Operating Decision Maker as defined by IFRS 8), as follows

AEROSPACE DIVISION

Civil — development, manufacture, marketing and sales of commercial aero engines and aftermarket services

Defence — development, manufacture, marketing and sales of military aero engines and aftermarket services

LAND & SEA DIVISION

Power Systems — development, manufacturing, marketing and sales of reciprocating engines and power systems

Marine — development, manufacture, marketing and sales of marine-power propulsion systems and aftermarket services

Nuclear — development manufacture marketing and sales of nuclear systems for civil power generation and rayal

 development, manufacture, marketing and sales of nuclear systems for civil power generation and naval propulsion systems

The Energy business was sold on 1 December 2014 and is excluded from the 2014 comparative figures. The residual businesses previously included in the Energy sector and costs associated with the wind-down are shown as 'Other'

The operating results reviewed by the Board are prepared on an underlying basis, which the Board considers reflects better the economic substance of the Group's trading during the year Additional disclosure of the two segments is also provided. The principles adopted to determine underlying results are

Underlying revenues – Where revenues are denominated in a currency other than the functional currency of the Group undertaking these reflect the achieved exchange rates arising on settled derivative contracts

Underlying profit before financing — Where transactions are denominated in a currency other than the functional currency of the Group undertaking, this reflects the transactions at the achieved exchange rates on settled derivative contracts. In addition, adjustments have been made to exclude one-off past-service credits on post-retirement schemes, exceptional restructuring costs. The effect of acquisition accounting and the impairment of goodwill.

Underlying profit before taxation - In addition to those adjustments in underlying profit before financing

- includes amounts realised from settled derivative contracts and revaluation of relevant assets and liabilities to exchange rates forecast to be achieved from future settlement of derivative contracts, and
- excludes unrealised amounts arising from revaluations required by IAS 39 Financial Instruments Recognition and Measurement, changes in value of financial RRSA contracts arising from changes in forecast payments and the net impact of financing costs related to postretirement scheme benefits

Taxation – the tax effect of the adjustments above are excluded from the underlying tax charge. In addition changes in the amount of recoverable advance corporation tax recognised and the impact of changes in tax rates are also excluded.

This analysis also includes a reconciliation of the underlying results to those reported in the consolidated income statement

2 Segmental analysis continued

		Aerospace				Land 8	ı Sea				Tota
	Civil £m	Defence £m	Total £m	Power Systems £m	Marine Em	Nuclear £m	Other ¹ £m	Intra segment £m	Total £m		reportabl segment
Year ended 31 December 2015											
Underlying revenue from sale of original									_		
equipment	3,258	801	4,059	1,618	773	251	76	(53)	2,665	-	6,724
Underlying revenue from aftermarket services?	3,675	1,234	4,909	767	551	436	20	(53)	1,721	_	6,630
Total underlying revenue	6,933	2,035	8,968	2,385	1,324	687	96	(106)	4,386		13,354
Gross profit	1,526	579	2,105	635	260	111	64	7	1,077		3,182
Commercial and administrative costs	(296)	(123)	(419)	(276)	(201)	(53)	(4)	_	(534)	_	(953
Restructuring	(7)	(8)	(15)	(4)	(16)	(2)	(2)		(24)		(39
Research and development costs	(515)	(73)	(588)	(162)	(28)	14	(1)		(177)		(769
Share of results of joint ventures and associates	104	19	123		_		(5)	_	(5)	_	118
Underlying profit before financing and taxation	812	394	1,206	193	15	70	52	. 7	337	_	1,543
Segment assets	12,291	1,768	14,059	3,411	1,690	404	119		5,624	(850)	18.83
Investments in joint ventures and associates	545	12	557	8	7	3	1		19		576
Segment liabilities	(8,995)	(1,787)	(10,782)	(1,026)	(839)	(352)	(120)		(2,337)	850	(12,269
Net assets/(liabilities)	3,841	(7)	3,834	2.393	858	55			3,306		7,140
Investment in intangible assets, property, plant and equipment and joint ventures and associates	668	84	752	108	36	18	_		162		914
Depreciation amortisation and impairment	410	58	468	197	111	23	11		342		810
Year ended 31 December 2014											
Underlying revenue from sale of original											
equipment 2	3,463	816	4 279	1 893	1 070	230	24	(78)	3,139	_	7,418
Underlying revenue from aftermarket services?	3 374	1 253	4 627	827	639	408	22	(77)	1 819		6 446
Total underlying revenue	6,837	2,069	8,906	2,720	1 709	638	46	(155)	4 958	_	13,864
Gross profit	1,675	567	2,242	742	425	119	8	(13)	1 281	_	3,52
Commercial and administrative costs	(283)	(112)	(395)	(296)	(254)	(61)	(10)	_	(621)	_	(1,016
Restructuring	(82)	(55)	(137)	(7)	(4)	(1)			(12)		(149
Research and development costs	(461)	(50)	(511)	(183)	(29)	(7)		_	(219)	_	(730
Share of results of joint ventures and associates	93	16	109	(3)	_			_	(3)	_	106
Underlying profit before financing and taxation	942	366	1,308	253	138	50	(2)	(13)	426		1,734
Segment assets	10 976	1 683	12 659	3 607	1 820	333	791	(22)	6,529	(1 269)	17,919
Investments in joint ventures and associates	507	13	520	7	5	3	4	- `-	19	<u></u>	539
Segment liabilities	(7,886)	(1,890)	(9,776)	(1,117)	(1,196)	(442)	(552)		(3 307)	1,269	(11 81
Net assets/(liabilities)	3 597	(194)	3 403	2 497	629	(106)	243	(22)	3,241		6,64
Investment in intangible assets, property, plant	/	1 7	-			·			-,		-,5
and equipment and joint ventures and associates	836	78	914	144	36	23	8		211		1 12
Depreciation and amortisation	381	49	430	221	38	22	13		294		72

Energy business retained following 2014 disposal

The basis for the allocation of Civil Aerospace revenues on linked TotalCare contracts between OE and aftermarket has been reviewed and amendments made to reflect better the commercial substance of the combined contracts. Historically the allocation has resulted in original equipment revenue reflecting the contractual terms rather than the commercial substance of the contracts. The 2014 figures have been restated on the same basis, the impact was an increase in original equipment revenue of £198m and an equal decrease in aftermarket revenue.

2 Segmental analysis continued RECONCILIATION TO REPORTED RESULTS

	Total reportable segments	Underlying central items	Total underlying	Underlying adjustments	Discontinued business	Group
	£m	£m	£m	£m	£m	£m
Year ended 31 December 2015					****	
Revenue from sale of original equipment	6,724		6,724	215		6,939
Revenue from aftermarket services	6,630		6,630	156		6,786
Total revenue	13,354		13,354	371		13,725
Gross profit	3,182		3,182	84		3,266
Other operating income			_	10		10
Commercial and administrative costs	(953)	(51) ¹	(1,004)	(55)		(1,059
Restructuring	(39)		(39)	39		
Research and development costs	(765)		(765)	(53)		(818
Share of results of joint ventures and associates	118	_	118	(18)		100
Profit on disposal of businesses				2		2
Profit before financing and taxation	1,543	(51)	1,492	9	•	1,501
Net financing		(60)	(60)	(1,281)		(1,341
Profit before taxation		(111)	1,432	(1,272)		160
Taxation		(351)	(351)	275		(76
Profit for the year from continuing operations			1,081	(997)		84
Profit for the year from discontinued operations			-	-		-
Profit for the year			1,081	(997)		84
Attributable to						
Ordinary shareholders			1,080	(997)		83
Non-controlling interests			1			1
Year ended 31 December 2014						
Revenue from sale of original equipment	7418	_	7,418	(1)		7,417
Revenue from aftermarket services	6 446		6 446	(127)		6,319
Total revenue	13 864		13 864	(128)	_	13,736
Gross profit	3523		3 5 2 3	(320)		3 20
Other operating income				10		10
Commercial and administrative costs	(1 016)	(53)1	(1,069)	(55)		(1 124
Restructuring	(1010)	(33)	(1,009)	149		(1 12-
Research and development costs	(730)		(730)	(63)	-	(79:
Share of results of joint ventures and associates	106		106	(12)		94
Profit on transfer of joint ventures and associates				2		
Profit on disposal of businesses		_ _		- 6		
Profit before financing and taxation	1,734	(53)	1 681	(283)		1 39
Net financing		(61)	(61)	(1,191)		(1 25
Profit before taxation		(114)	1,620	(1,171)		140
Taxation		(388)	(388)	237		(15)
		(300)	1,232	(1,237)		(13
Profit for the year from continuing operations Profit for the year from discontinued operations			1,234	(1,437)	142	14
Profit for the year from discontinued operations			1 232	(1,237)	142	13
	<u> </u>		1 232	(1,237)	142	13
Attributable to			1 226	(1 220)	142	14
Ordinary shareholders						
Non controlling interests			6	(17)	_	(1:

¹ Central corporate costs

CASH FLOWS FROM DISCONTINUED OPERATIONS

	2014
	£m
Revenue	713
Profit before taxation	1
Tax on ordinary activities	3
Profit for the year from ordinary activities	4_
Profit on disposal of discontinued operations	136
Tax on profit of discontinued operations	2
Profit for the year from discontinued operations	142
Net cash inflow/(outflow) from operating activities	(127)
Net cash outflow from investing activities	(35)
Net change in cash and cash equivalents	(162)

2 Segmental analysis continued **UNDERLYING ADJUSTMENTS**

		2015				2014		
_	Revenue £m	Profit before financing £m	Net financing £m	Taxation £m	Revenue £m	Profit before financing £m	Net financing £m	Taxation £m
Underlying performance previously reported					14,588	1,678	(61)	(387)
Energy disposed in 2014				•	(724)	3		(1)
Underlying performance	13,354	1,492	(60)	(351)	13,864	1 681	(61)	(388)
Revenue recognised at exchange rate on date of transaction	371	_	_		(128)	_		_
Realised losses /(gains) on settled derivative contracts1	_	287	(35)		_	(91)	(5)	_
Net unrealised fair value changes to derivative contracts?	_	(9)	(1,306)	_	-	(15)	(1,141)	
Effect of currency on contract accounting	-	(9)		_	_	13		_
Revaluation of trading assets and liabilities	_	(13)	20		_	(11)	(8)	
Financial RRSAs – foreign exchange differences and other unrealised changes in value	_	_	8	_		_	(8)	
Effect of acquisition accounting 3		(124)				(142)	(8)	
Impairment of goodwill		(75)				(142)		
Net post-retirement scheme financing		- (, 5, -	32				(29)	
Gain on reclassification of joint ventures to subsidiaries		-	_	-	_	2		
Disposal of businesses		2	_	_	_	6		_
Restructuring*	_	(49)	_	_		(39)	_	_
Other	-	(1)	_	-	_	(6)	_	_
Related tax effect ⁵	_	_	-	275	_			237
Total underlying adjustments	371	9	(1,281)	275	(128)	(283)	(1 191)	237
Reported per consolidated income statement	13,725	1,501	(1,341)	(76)	13,736	1 398	(1 252)	(151)

- Realised losses /(gains) on settled derivative contracts include adjustments to reflect the (gains)/losses in the same period as the related trading cash flows
 Unrealised fair value changes to derivative contracts included in profit before financing (i) include those included in equity accounted joint ventures and (ii) exclude those for which the related trading contracts have been cancelled when the fair value changes are recognized immediately in underlying profit
 The adjustment eliminates charges recognised as a result of recognising assets in acquired businesses at fair value
 Restructuring is excluded from underlying performance when it concerns the closure of a significant business or site
 2015 includes an £18m credit relating to changes in UK tax rates 2014 includes a charge of £64m for the derecognition of advance corporation tax

RECONCILIATION TO THE BALANCE SHEET

Net assets	6,289	6,831
Total liabilities	(17,776)	(16,704)
Post retirement scheme deficits	(1,140)	(1 185)
Income tax liabilities	(1,004)	(1,422)
Fair value of swaps hedging fixed rate borrowings	(61)	(22)
Borrowings	(3,302)	(2,261)
Reportable segment liabilities	(12,269)	(11,814)
Total assets	24,065	23,535
Post retirement scheme surpluses	1,063	1,740
Income tax assets	341	388
Fair value of swaps hedging fixed rate borrowings	74	80
Cash and cash equivalents and short-term investments	3,178	2,869
Investments in joint ventures and associates	576	539
Reportable segment assets	18,833	17,919
	2015 £m	2014 £m

2 Segmental analysis continued

GEOGRAPHICAL SEGMENTS

The Group's revenue by destination from continuing operations is as follows

	2015 £m	2014 £m
United Kingdom	1,780	1 599
Germany	642	734
Switzerland	782	670
Norway	280	322
France	249	292
Italy	222	201
Spain	200	113
Russia	59	86
Rest of Europe	786	575
Europe	5,000	4 592
USA	3,591	3,751
Canada	475	472
North America	4,066	4,223
South America	425	407
Saudi Arabia	365	327
Rest of Middle East	445	418
Middle East	810	745
China	1,236	1 290
South Korea	278	485
Singapore	549	396
Malaysia	78	280
Japan	136	272
India	99	161
Rest of Asia	546	493
Asia	2,922	3,377
Africa	144	115
Australasia	278	207
Other	80	70
	13,725	13,736

No single customer represented 10% or more of the Group's revenue

The carrying amounts of the Group's non-current assets, excluding financial instruments, deferred tax assets and post-employment benefit surpluses, by the geographical area in which the assets are located, are as follows

	2015 £m	2014 £m
United Kingdom	4,072	3 864
United States of America	835	827
Nordic countries	598	724
Germany	2,339	2 493
Other	900	912
	8,744	8 820

3 Research and development and other income and expenses RESEARCH AND DEVELOPMENT

	2015 £m	2014 £m
Expenditure in the year	(831)	(818)
Capitalised as intangible assets	51	83
Amortisation of capitalised costs	(136)	(125)
Net research and development cost	(916)	(860)
Entry fees received	83	51
Entry fees deferred in respect of charges in future years	(28)	(38)
Recognition of previously deferred entry fees	43	54
Net cost recognised in the income statement	(818)	(793)
Underlying adjustments relating to effects of acquisition accounting and foreign exchange	53	63
Net underlying cost recognised in the income statement	(765)	(730)
Discontinued operations	-	(25)
Net underlying cost recognised in the income statement previously reported		(755)

4 Net financing

		201	5	2014	
	Notes	Per consolidated income statement £m	Underlying financing ¹ £m	Per consolidated income statement £m	Underlying financing² £m
Financing income					
Interest receivable		12	12	17	17
Fair value gains on foreign currency contracts 1	16	_	_	2	_
Financial RRSAs – foreign exchange differences and other unrealised changes in value	16	21	_	-	-
Finance income on post-retirement scheme surpluses	18	65	_	13	-
Net foreign exchange gains 3		17	32	_	-
		115	44	32	17
Financing costs		"-			
Interest payable		(71)	(71)	(63)	(63)
Fair value losses on foreign currency contracts 1	16	(1,217)	_	(1 127)	-
Financial RRSAs – financing	16	(8)	(8)	(5)	(5)
Financial RRSAs – foreign exchange differences and other unrealised changes in			•		
value	16	(13)	_	(8)	
Fair value losses on commodity derivatives ¹	16	(89)		(15)	_
Finance cost on post-retirement scheme deficits	18	(33)	_	(42)	-
Net foreign exchange losses		_		(13)	
Other financing charges		(25)	(25)	(11)	(10)
		(1,456)	(104)	(1,284)	(78,
Net financing		(1,341)	(60)	(1 252)	(61,
Analysed as					
Net interest payable		(59)	(59)	(46)	(46,
Net post-retirement scheme financing		32		(29)	
Net other financing	•	(1,314)	(1)	(1,177)	(15,
Net financing		(1,341)	(60)	(1,252)	(61,
¹ Net (loss) / gain on fair value items through profit or loss		(1,306)	_	(1 140)	_

² See Note 2

The underlying financing income of includes £34m from gains on settlement of foreign exchange following the receipt in the UK of dividends from overseas subsidiaries

5 Taxation

	UK		Overseas		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Current tax						
Current tax charge for the year	9	8	157	240	166	248
ess double tax relief			-	-		_
	9	8	157	240	166	248
Adjustments in respect of prior years	6	1	(23)	12	(17)	13
	15	9	134	252	149	261
Deferred tax						
Deferred tax credit for the year	(37)	(72)	(23)	(77)	(60)	(149)
Adjustments in respect of prior years	10	(14)	(5)	(11)	5	(25)
Derecognition of advance corporation tax	=	64	=	_	=	64
Deferred tax credit resulting from reduction in tax rates	(18)		-		(18)	_
	(45)	(22)	(28)	(88)	(73)	(110)
						151

OTHER TAX (CHARGES)/CREDITS

• • -		OCI				
	items that will not be reclassified		Items that may be reclassified			
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Current tax						
Share-based payments – direct to equity					_	3
Deferred tax	·					
Movement in post-retirement schemes	257	(431)				
Share-based payments direct to equity					(6)	(7)
Net investment hedge			(2)	(2)		
, -	257	(431)	(2)	(2)	(6)	(4)

TAX RECONCILIATION ON CONTINUING OPERATIONS

	2015 £m	2014 £m
Profit before taxation	160	146
Less share of results of joint ventures and associates (note 10)	(100)	(94)
Profit before taxation excluding joint ventures and associates	60	52
Nominal tax charge at UK corporation tax rate 20 25% (2014 21 5%)	12	11
UK R&D credit	_	(6)
Rate differences ¹	63	71
Impairment of goodwill	13	_
Other permanent differences	5	22
Benefit to deferred tax from previously unrecognised tax losses and temporary differences	(7)	(3)
Tax losses in year not recognised in deferred tax	20	4
Adjustments in respect of prior years	(12)	(12)
Derecognition of advance corporation tax		64
Reduction in closing deferred taxes resulting from decrease in tax rates	(18)	
	76	151
Underlying items (note 2)	351	390
Non-underlying items	(275)	(239)
	76	151

 $^{^1\,}Rate\,differences\,mainly\,relate\,to\,tax\,on\,profits\,in\,countries\,such\,as\,the\,US\,and\,Germany\,\,which\,have\,higher\,tax\,rates\,than\,the\,UK\,and$

5 Taxation continued TAX ON DISCONTINUED OPERATIONS

	2015 £m	2014 £m
Tax credit on ordinary activities of the discontinued operation	_	(3)
Tax credit on profit on disposal of discontinued operations		(2)
		(5)
Deferred taxation assets and habilities		
	2015 £m	2014 £m
At 1 January	(859)	(566)
Amount credited to income statement	73	120
Amount credited/(charged) to other comprehensive income	255	(433)
Amount charged to equity	(6)	(7)
Acquisition of businesses	_	(3)
Exchange differences	16	30
At 31 December	(521)	(859)
Deferred tax assets	318	369
Deferred tax liabilities	(839)	(1,228)
	(521)	(859)

The analysis of the deferred tax position is as follows

	At 1 January 2015 Em	Recognised in income statement £m	Recognised in OCI £m	Recognised in equity £m	Exchange differences £m	At 31 December 2015 £m
Intangible assets	(455)	52	_	-	11	(392)
Property, plant and equipment	(195)	7		-	(2)	(190)
Other temporary differences	97	(69)	(2)	(7)	2	21
Amounts recoverable on contracts	(526)	(13)	_	_	_	(539)
Pensions and other post-retirement scheme benefits	(324)	(30)	257	_	7	(90)
Foreign exchange and commodity financial assets						
and liabilities	135	171	_	_	_	306
Losses	393	(49)		1	(2)	343
R&D expenditure credit	16	4	-	-		20
	(859)	73	255	(6)	16	(521)

	At 1 January 2014 £m	Recognised in income statement £m	Recognised in OCI £m	Recognised in equity £m	Disposal of businesses £m	Exchange movements £m	At 31 December 2014 £m
Intangible assets	(511)	41				15	(455
Property plant and equipment	(210)	20	_	_	(6)	1	(195
Other temporary differences	80	23	(2)	(10)	(1)	7	97
Amounts recoverable on contracts	(380)	(146)		_			(526
Pensions and other post-retirement scheme benefits	153	(54)	(431)	_	-	8	(324
Foreign exchange and commodity financial assets and liabilities	(92)	226	_	_	-	1	135
Losses	323	65	_	3	4	(2)	393
R&D expenditure credit	7	9	_	_			16
Advance corporation tax	64	(64)	_	_	_	_	_
	(566)	120	(433)	(7)	(3)	30	(859
Included in Taxation	•	110			·-		
Discontinued operations		10					

5 Taxation continued

Unrecognised deferred tax assets

	2015 £m	2014 £m
Advance corporation tax	182	182
Losses and other unrecognised deferred tax assets	36	35
Deferred tax not recognised on unused tax losses and other items on the basis that future economic benefit is uncertain 1	218	217

¹ Advance corporation tax tax losses and other deductible temporary differences are not expected to expire under current legislation

Deferred taxation assets and liabilities

The Summer Budget 2015 announced that the UK corporation tax rate will reduce to 19% from 1 April 2017 and 18% from 1 April 2020, these reductions were substantively enacted on 26 October 2015. As the reductions were substantively enacted prior to the year end, the closing deferred tax assets and liabilities have been calculated at this rate. The resulting charges or credits have been recognised in the income statement except to the extent that they relate to items previously charged or credited to OCI or equity. Accordingly, in 2015, £18m has been credited to the income statement and £3m has been charged directly to equity

The temporary differences associated with investments in subsidiaries, joint ventures and associates, for which a deferred tax liability has not been recognised, aggregate to £347m (2014 £512m) No deferred tax hability has been recognised on the potential withholding tax due on the remittance of undistributed profits as the Group is able to control the timing of such remittances and it is probable that consent will not be given in the foreseeable future

6 Employee information

	2015 Number	2014 Number
Average number of employees	(Tumber	TVQ/IIDE1
United Kingdom	23,200	24,500
USA	6,400	7,900
Canada	1,100	1 500
Germany	10,700	10 500
Nordics	3,800	4 000
Rest of world	5,300	5,700
	50,500	54 100
Cıvıl	23,200	23 900
Defence	6,400	7000
Aerospace	29,600	30,900
Power Systems	10,600	10 700
Marine	6,000	6 400
Nuclear	4,100	4,100
Other (2014 includes discontinued operations)	200	2 000
Land & Sea	20,900	23,200
	50,500	54 100
	£m	£m
Group employment costs ¹		
Wages and salaries	2,442	2,646
Social security costs	334	362
Share-based payments (note 20)	5	21
Pensions and other post-retirement scheme benefits (note 18)	299	328
	3,080	3 357

¹ Remuneration of key management personnel is shown in note 23

7 Auditors' remuneration

Fees payable to the Company's auditors and its associates were as follows

	2015 £m	2014 £m
Fees payable to the Company's auditors for the audit of the Company's annual financial statements 1	19	18
Fees payable to the Company's auditors and its associates for the audit of the Company's subsidiaries pursuant to legislation	37	37
Total fees payable for audit services	5 6	5.5
Fees payable to the Company's auditors and its associates for other services		
Audit related assurance services ²	10	08
Taxation compliance services	0 4	07
All other services		04
	70	74
Fees payable in respect of the Group's pension schemes		
Audit	0 2	02

The level of fees payable to the Company's auditors for the audit of the Company's annual financial statements reflects the fact that limited incremental work is required in respect of the audit of these financial statements. Rolls Royce pic a subsidiary of the Company is also required to prepare consolidated financial statements and the fees payable to the Company's auditors for the audit of those financial statements including the audit of the sub-consolidation is included in the audit of the Company's subsidiaries pursuant to legislation.

This includes £0 3m (2014 £0 3m) for the review of the half year report

8 Intangible assets

	Goodwill £m	Certification costs and participation fees £m	Development expenditure £m	Contractual aftermarket rights £m	Customer relationships £m	Software £m	Other £m	Total £m
Cost								
At 1 January 2014	1 861	928	1,646	580	475	453	532	6 475
Reclassifications 1	(8)	_	4	-	11	19	(28)	(2)
Exchange differences	(112)	(8)	(43)		(17)	(1)	(28)	(209)
Additions	_	159	100	93	_	83	42	477
Acquisitions of businesses	1	_		_	_	_	_	1
Disposals of businesses	(67)	-	_	(35)	_	(11)		(113)
At 1 January 2015	1,675	1,079	1,707	638	469	543	518	6,629
Exchange differences	(87)	(7)	(32)	_	(14)	_	(16)	(156)
Additions		73	55	161		79	40	408
Acquisitions of businesses	1	_	_		1		1	
Disposals	_	_	_	_	_	(6)	_	(6)
At 31 December 2015	1,589	1,145	1 730	799	456	616	543	6 878
Accumulated amortisation	_		-	_			_	
At 1 January 2014	23	265	444	352	69	198	137	1,488
Reclassifications 1	(8)		4		(11)	5	6	(4)
Exchange differences		_	(9)	-	(4)		(6)	(19)
Charge for the year 1		46	125	37	42	63	53	366
Impairment	1	_		_	_	_	_	
Disposal of businesses						(7)		(7)
At 1 January 2015	16	311	564	389	96	259	190	1,825
Exchange differences	(5)	(1)	(10)		(3)		(3)	(22)
Charge for the year 2		63	137	55	46	68	38	407
Impairment	75							75
Reversal of impairment				(50)				(50)
Disposals	<u> </u>	_		_		(2)		(2)
At 31 December 2015	86	373	691	394_	139	325	225	2,233
Net book value								
At 31 December 2015	1,503	772	1,039	405	317	291	318	4,645
At 31 December 2014	1,659	768	1,143	249	373	284	328	4 804
At 1 January 2014	1,838	663	1,202	228	406	255	395	4,987

In 2013 following the acquisition of RRPS the Group revised the classification of intangible assets. During 2014 a number of minor inconsistencies in these classifications were identified and amended. The net movement of £2m relates to software previously included in property, plant and equipment.
 Charged to cost of sales except development costs, which are charged to research and development costs.

8 Intangible assets continued **GOODWILL**

In accordance with the requirements of IAS 36 Impairment of Assets, goodwill is allocated to the Group's cash-generating units, or groups of cash-generating units, that are expected to benefit from the synergies of the business combination that gave rise to the goodwill as follows

CASH-GENERATING UNIT (CGU) OR GROUP OF CGUs

	Primary reporting segment	2015 £m	2014 £m
Rolls-Royce Deutschland Ltd & Co KG	Civil Aerospace	202	215
Commercial marine – arising from the acquisitions of Vinters plc and Scandinavian Electric Holdings AS	Marine	491	552
Commercial marine – arising from the acquisition of ODIM ASA	Marine	25	77
Rolls-Royce Power Systems AG	Power Systems	739	760
Other	Various	46	55
		1,503	1 659

Goodwill has been tested for impairment during 2015 on the following basis

- The carrying value of goodwill has been assessed by reference to value in use. These have been estimated using cash flows from the most recent forecasts prepared by management, which are consistent with past experience and external sources of information on market conditions. Given the long-term and established nature of many of the Group's products (product lives are often measured in decades), these forecasts generally cover the next ten years. Growth rates for the period not covered by the forecasts are based on a range of growth rates 2 0-2 75 %) that reflect the products, industries and countries in which the relevant CGU or group of CGUs operate
- The key assumptions for the impairment tests are the discount rate and, in the cash flow projections, the programme assumptions, the growth rates and the impact of foreign exchange rates on the relationship between selling prices and costs. Impairment tests are performed using prevailing exchange rates
- The pre-tax cash flow projections have been discounted at rates based on the Group's weighted average cost of capital, adjusted for specific risk where appropriate. The discount rate used, before taking account of specific risks, is 13% (2014-13%)

As a result of the continuing poor market conditions in the Marine offshore business caused by the low crude oil price and the consequential reduced order intake in the period, the Group has recognised an impairment loss of £69m (included in the total impairment charge of £75m) to the carrying value of goodwill of cash generating units in this market. This is included in cost of sales in the income statement but excluded from the underlying results. The impairment loss primarily relates to the cash generating units Scandinavian Electric Holdings ASA (acquired in 2008) and ODIM ASA (acquired in 2010), which are both business operations included in Marine The impairment loss is based on a value in use calculation using cash flows forecast over a ten year period and a pre-tax discount rate of 13% which indicated a recoverable amount of £74m compared with a pre-impairment carrying value of £143m

8 Intangible assets continued

The principal value in use assumptions for goodwill balances considered to be individually significant are

- · Rolls-Royce Power Systems AG Volume of equipment deliveries, pricing achieved and cost escalation. These are based on current and known future programmes, estimates of capture of market share and long-term economic forecasts. The principal foreign exchange exposures are on translating income in a variety of non-functional currencies into euros. For the purposes of the impairment only, cash flows from recent management forecasts for a five-year period have been included. Cash flows beyond five years are assumed to grow at 2% (2014 2%) Reasonably possible change in the key assumptions would cause the value in use of the goodwill to fall below its carrying value, which include a reduction in the level of cash generation of 9%, or an increase in the assumed discount rate of 2%
- · Rolls-Royce Deutschland Ltd & Co KG Volume of engine deliveries, flying hours of installed fleet and cost escalation. These are based on current and known future programmes, estimates of customers' fleet requirements and long-term economic forecasts. The principal foreign exchange exposure is on translating US dollar income into euros. For the purposes of the impairment test only, cash flows beyond the ten-year forecasts are assumed to grow at 2 5% (2014 25%) The directors do not consider that any reasonably possible change in the key assumptions would cause the value in use of the goodwill to fall below its carrying value. The overall level of business would need to reduce by more than 69% to cause an impairment of this balance
- Vinters Limited Volume of equipment deliveries, capture of aftermarket and cost escalation. These are based on current and known future programmes, estimates of customers' fleet requirements and long-term economic forecasts. The principal foreign exchange exposures are on translating income in a variety of non-functional currencies into Norwegian kroner. For the purposes of the impairment test only, cash flows beyond the ten-year forecasts are assumed to grow at 2 5% (2014 2 5%). The directors do not consider that any reasonably possible change in the key assumptions would cause the value in use of the goodwill to fall below its carrying value The overall level of business would need to reduce by more than 54% to cause an impairment of this balance

OTHER INTANGIBLE ASSETS

Certification costs and participation fees, development costs and recoverable engine costs have been reviewed for impairment in accordance with the requirements of IAS 36 Impairment of Assets Where an impairment test was considered necessary, it has been performed on the following basis

- The carrying values have been assessed by reference to value in use. These have been estimated using cash flows from the most recent forecasts prepared by management, which are consistent with past experience and external sources of information on market conditions over the lives of the respective programmes
- · The key assumptions underlying cash flow projections are assumed market share, programme timings, unit cost assumptions, discount rates, and foreign exchange rates
- The pre-tax cash flow projections have been discounted at 11% (2014 11%), based on the Group's weighted average cost of capital, reduced where relevant to take account of the lower risk associated with contracted aftermarket flows
- No impairment is required on this basis. However, a combination of changes in assumptions and adverse movements in variables that are outside the Group's control (discount rate, exchange rate and airframe delays), could result in impairment in future years

During the year, following analysis of the first major overhauls of the Trent 1000 engines the recoverable amount of certain contractual aftermarket rights have been reassessed. This analysis demonstrated that the aftermarket cash flows from the engines were better than originally assumed, arising from both operational and contractual performance improvements. As a result of this analysis, the value in use (based on a pre tax discount rate of 9%) has increased to around £140m, exceeding the unimpaired carrying value of £72m. Accordingly cumulative impairments prior to 2015 of £50m have been reversed. This reversal is included in the Civil Aerospace business cost of sales

9 Property, plant and equipment

	buildings £m	equipment £m	and engines £m	construction £m	Total £m
Cost			-		
At 1 January 2014	1,297	3 490	324	700	5 811
Exchange differences	(23)	(42)	(1)	2	(64)
Additions	24	160	57	427	668
Acquisitions of businesses	-		38		38
Disposals of businesses	(88)	(94)	(77)	(28)	(287)
Reclassifications	134	137	32	(305)	(2)
Disposals/write-offs	(10)	(51)	(52)	(1)	(114)
At 1 January 2015	1,334	3,600	321	795	6 050
Exchange differences	(20)	(39)	(2)	(3)	(64)
Additions	18	117	19	340	494
Acquisitions of businesses	_	1	_	_	1
Disposals of businesses	-	(1)	_	_	(1)
Reclassifications	81	335	7	(423)	
Transferred to assets held for sale	(8)	(23)	(2)		(33)
Disposals/write-offs	(30)	(96)	(4)	(1)	(131)
At 31 December 2015	1,375	3,894	339	708	6,316
Accumulated depreciation	<u></u>				
At 1 January 2014	386	1949	84	_	2,419
Exchange differences	(8)	(26)	_	_	(34)
Charge for the year 1	49	294	31	-	374
Impairment	_		_	1	1
Reclassifications	(29)	(62)	(9)	_	(100)
Disposals/write-offs	(7)	(46)	(3)	_	(56)
At 1 January 2015	391	2 109	103	1	2,604
Exchange differences	(7)	(24)	(1)	_	(32)
Charge for the year 1	48	299	26	_	373
Impairment	3	2	-	_	5
Disposals of businesses	_	(1)	_	_	(1)
Transferred to assets held for sale	(5)	(20)	(1)	_	(26)
Disposals/write-offs	(14)	(81)	(2)	-	(97)
At 31 December 2015	416	2,284	125	1	2,826
Net book value	 -				
At 31 December 2015	959	1,610	214	707	3,490
At 31 December 2014	943	1,491	218	794	3,446
AC 31 DECEMBER 2014	773				

¹ Depreciation charged during the year is presented in the income statement or included in the cost of inventory as appropriate

9 Property, plant and equipment continued

Property, plant and equipment include

	2015 £m	2014 £m
Net book value of finance leased assets		
Land and buildings	5	6
Plant and equipment	7	9
Aircraft and engines	40	43
Assets held for use in operating leases		
	321	267
Cost Depreciation	321 (87)	267 (64
Cost		(64
Cost Depreciation	(87)	

The Group's share of equity accounted entities' capital commitments is £75m (2014 £82m)

10 investments

COMPOSITION OF THE GROUP

The entities contributing to the Group's financial results are listed on pages 143 to 149

NON-CONTROLLING INTERESTS

In 2015 the Group did not have any material non-wholly owned subsidiaries. On 7 March 2014, Daimler AG announced its intention to exercise its put option on its 50% of Rolls-Royce Power Systems Holding GmbH (RRPSH) Formal notice of this intention was served on 24 March 2014 From this date, the Group had an effective economic interest in RRPSH of 100% and NCI of £584m was transferred to retained earnings. The Group acquired the shares on 26 August 2014, giving it a 100% interest in RRPSH

Summarised financial information for RRPSH is as follows

	At 24 March 2014 ¹ £m
Current assets	1,529
Non-current assets	2,511
Current liabilities	(974)
Non-current liabilities	(1 118)
Equity attributable to Rolls-Royce shareholders	1,364
Non controlling interests	584

	Period to 24 March 2014
	£m
Revenue	551
Loss for the period	(25)
Attributable to ordinary shareholders	(12)
Non-controlling interests	(12)
Total comprehensive income for the period	(69)
Attributable to ordinary shareholders	(35)
Non-controlling interests	(35)
Dividends paid to non-controlling interests	(76)
Cash flow from operating activities	33
Cash flow from investing activities	(17)
Cash flow from financing activities	(158)
Net cash outflow	(142)

10 Investments continued **EQUITY ACCOUNTED AND OTHER INVESTMENTS**

	Ec	uity accounted		Other
	Joint ventures £m	Associates £m	Total £m	Unlisted £m
At 1 January 2014	599	2	601	27
Reclassification 1	(25)		(25)	-
Exchange differences	7	-	7	(2)
Additions	15	2	17	11
Taxation paid by the Group	3		3	
Transfer to subsidiary	(1)	_	(1)	-
Share of retained profit	23		23	_
Disposals	(70)	-	(70)	-
Return of capital	(3)	-	(3)	-
Consolidation of previously non-consolidated subsidiary	-	_	_	(5)
Share of OCI – may be reclassified to profit or loss	(13)	_	(13)	-
At 1 January 2015	535	4	539	31
Exchange differences	7	_	7	(2)
Additions	12	3	15	6
Taxation paid by the Group	(3)		(3)	
Share of retained profit	42	(5)	37	_
Impairment	_	_	_	(2)
Share of OCI – may be reclassified to profit or loss	(19)		(19)	
At 31 December 2015	574	2	576	33

¹ The reclassification relates to an adjustment in the 2013 relating to transactions between the Group and a joint venture which was included in creditors. It was transferred to investments in joint ventures in 2014.

RECONCILIATION TO THE INCOME STATEMENT AND CASH FLOW STATEMENT

	Continuing oper	Continuing operations		Discontinued operations		
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Share of profit after tax	100	94		2	100	96
Share of dividends paid	(63)	(71)		(2)	(63)	(73)
Share of retained profit	37	23	_	-	37	23

The following joint ventures are considered to be individually material to the Group

3,	,	•	
	Principal location	Activity	Ownership interest
Alpha Partners Limited (APL)	UK	Aero engine leasing	50 0%
Hong Kong Aero Engine Services Limited (HAESL)	Hong Kong	Aero engine repair and overhaul	45 0%
Singapore Aero Engine Services Pte Limited (SAESL)	Singapore	Aero engine repair and overhaul	39 0%
Industria de Turbo Propulsores SA (ITP)	Spain	Aero engine component manufacture and maintenance	46 9%

10 Investments continued

 $Summarised\ financial\ information\ of\ the\ Group's\ individually\ material\ joint\ ventures\ is\ as\ follows$

	APL		HAESL		SAESL		ITP	
_	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Revenue	130	105	652	652	626	815	520	529
Profit from continuing operations	65	39	27	34	46	60	40	24
Post-tax profit from discontinued operations	_	-	_	_			_	_
Profit for the year	65	39	27	34	46	60 _	40	24
Other comprehensive operations	-		_	_	-	-	_	_
Total comprehensive income for the year	65	39	27	34	46	60	40	24
Dividends received during the year	(29)	(13)	(23)	(30)	(35)	(56)	(19)	(19)
Profit for the year included the following			· -	-				
Depreciation and amortisation	(59)	(47)	(8)	(8)	(5)	(5)	(37)	(37)
Interest income	-	=	_	-	_		10	19
Interest expense	(17)	(15)	(1)	(1)	_	(1)	(16)	(12)
Income tax expense	(7)	(11)	(5)	(7)		_	7	4
Current assets	129	72	223	15 9	218	207	576	603
Non current assets	1,349	1,171	85	86	125	102	554	525
Current liabilities	(70)	(62)	(116)	(61)	(75)	(88)	(416)	(415)
Non current liabilities	(1,123)	(959)	(38)	(37)	(136)	(106)	(431)	(418
Net assets	285	222	154	147	132	115	283	295
Included in the above								
Cash and cash equivalents	20	11	4	8	10	11	225	256
Current financial liabilities 1	(19)	(13)	_	_	-	===	(25)	(10
Non-current financial liabilities 1	(969)	(815)	(30)	(29)	(136)	(106)	(273)	(282

¹ Excluding trade and other payables

Reconciliation to the carrying amount recognised in the consolidated financial statements

Ownership interest	50 0%	50 0%	45 0%	45 0%	39 0%	39 0%	46 9%	46 9%
Group share of net assets above	143	111	69	66	51	45	133	138

The summarised aggregated results of the Group's share of all equity accounted investments is as follows

·	Joint venti	ures	Associates		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Assets						
Non-current assets	1,998	1911	-	2	1,998	1,913
Current assets	843	715	2	4	845	719
Liabilities ²						
Current liabilities	(541)	(519)		(1)	(541)	(520)
Non-current liabilities	(1,726)	(1,572)	_	(1)	(1,726)	(1 573)
	574	535	2	4	576	539
² Liabilities include borrowings of	(1,473)	(1,376)	-		(1,473)	(1 376)
Post tax profit from continuing operations	105	94	(5)	-	100	94
Post tax profit from discontinued operations		2	_	_	_	2
Profit for the year	105	96	(5)		100	96
Other comprehensive income	(19)	(13)	-		-	(13)
Total comprehensive income for the year	86	83	(5)		100	83

11 Inventories

	2015 £m	2014 £m
Raw materials	509	553
Work in progress	882	984
Long-term contracts work in progress	23	22
Finished goods	1,173	1 149
Payments on account	50	60
	2,637	2 768
Inventories stated at net realisable value	221	265
Amount of inventory write-down	64	62
Reversal of inventory write-down	14	1

12 Trade and other receivables

	2015 fm	2014 fm
Trade receivables	1,612	1 531
Amounts recoverable on contracts ¹	3,179	2 684
Amounts owed by parent undertaking	1,741	1,311
Amounts owed by joint ventures and associates	252	309
Other receivables	1,006	785
Prepayments and accrued income	195	200
	7,985	6 820
Analysed as		
Financial instruments (note 16)		
Trade receivables and similar items	2,061	1,981
Other non-derivative financial assets	843	671
Non-financial instruments	5,081	4 168
	7,985	6,820
Trade and other receivables expected to be recovered in more than one year		
Trade receivables	57	40
Amounts recoverable on contracts	2,768	2 444
Amounts owed by joint ventures and associates	1	_
Other receivables	131	61
Prepayments and accrued income	68	55
	3,025	2,600

 $^{^1}$. Amounts recoverable on contracts include £2 994m (2014 £2 492m) of TotalCare assets

13 Cash and cash equivalents

	2015 Em	2014 £m
Cash at bank and in hand	662	739
Money market funds	783	692
Short-term deposits	1,731	1,431
	3,176	2 862
Overdrafts (note 14)	_	_
Cash and cash equivalents per cash flow statement (page 68)	3,176	2,862
Cash held as collateral against third party obligations (note 17)	35	42

Cash and cash equivalents at 31 December 2015 include £21m (2014 £30m) that is not available for general use by the Group This balance relates to cash held in non-wholly owned subsidiaries and the Group's captive insurance company

14 Borrowings

	Current		Non current		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Unsecured						
Overdrafts		_		_	-	_
Bank loans	217	12	330	392	547	404
7 1/2% Notes 2016 £200m	200		_	200	200	200
6 55% Notes 2015 US\$83m1		55	_	= ==	_	55
6 75% Notes 2019 £500m²	-	_	536	547	536	547
2 375% Notes 2020 US\$500m ¹	_	-	333	_	333	_
2 125% Notes 2021 €750m¹	_	-	576	615	576	615
3 625% Notes 2025 US\$1 000m ¹		_	668	-	668	_
3 375% Notes 2026 £375m²	_	_	390	395	390	395
Secured						
Obligations under finance leases 3	2	1	50	44	52	45
	419	68	2,883	2 193	3,302	2 261

¹ These notes are the subject of interest rate swap agreements under which the Group has undertaken to pay floating rates of interest and currency swaps which form a fair value hedge. These notes are the subject of interest rate swap agreements under which the Group has undertaken to pay floating rates of interest which form a fair value hedge. Obligations under finance leases are secured by related leased assets.

15 Trade and other payables

	Curren	t	Non current		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Payments received on account 1	1,491	1,291	516	860	2,007	2,151
Trade payables	1,397	1 348	23	13	1,420	1 361
Amounts owed to parent undertaking	497	889	_		497	889
Amounts owed to joint ventures and associates	197	235	2	4	199	239
Other taxation and social security	90	109	1	1	91	110
Other payables	1,784	1,756	361	320	2,145	2 076
Accruals and deferred income	1,964	2 052	1,414	1,247	3,378	3 299
	7,420	7680	2,317	2 445	9,737	10,125
¹ Includes payments received on account from joint ventures and associates	161	158	35	99	196	257

Included within trade and other payables are government grants of £64m (2014 £80m) During the year, £21m (2014 £24m) of government grants were released to the income statement

Included in accruals and deferred income are deferred receipts from RRSA workshare partners of £228m, (2014 £244m) and £718m (2014 £687m) of TotalCare liabilities

Trade and other payables are analysed as follows

	2015 £m	2014 £m
Financial instruments (note 16)		·
Trade payables and similar items	3,101	3 049
Other non-derivative financial liabilities	817	831
Non-financial instruments	5,819	6,245
	9,737	10 125

16 Financial instruments

CARRYING VALUES AND FAIR VALUES OF FINANCIAL INSTRUMENTS

				Asse	ets		Liabilit	ies	Total
	Notes	Basis for determining fair value	Fair value through profit or loss £m	Loans and receivables	Available for sale £m	Cash £m	Fair value through profit or loss £m	Other £m	£m
2015									
Unlisted non-current asset investments	10	Α	-	33	<u> </u>	-		_	33
Trade receivables and similar items	12	В		2,061	_			-	2,061
Other non-derivative financial assets	12	В	_	843	· _	-		_	843
Derivative financial assets 1		C	112	-	_	-			112
Short-term investments		В	_	2	_	_	-	-	2
Cash and cash equivalents	13	В	_	1,731	783	662	_	_	3,176
Borrowings	14	D		_		-		(3,302)	(3,302)
Derivative financial liabilities 1		C				-	(1,843)	-	(1,843)
Financial RRSAs	•	E	_	_	_	_	_	(110)	(110)
Trade payables and similar items	15	В		_	_	_	_	(3,101)	(3,101)
Other non-derivative financial liabilities	15	В	-		-	_	_	(817)	(817)
		_	112	4,670	783	662	(1,843)	(7,330)	(2,946)
2014		<u>.</u>							
Unlisted non-current asset investments	10	Α	_	31	_	_	_	_	31
Trade receivables and similar items	12	В		1,981				_	1 981
Other non-derivative financial assets	12	В		671	-	-	_	-	671
Derivative financial assets ¹		C	129	_			_	-	129
Short-term investments		В	_	7			_	-	7
Cash and cash equivalents	13	В		1,431	692	739	_		2 862
Borrowings	14	D						(2 261)	(2,261
Derivative financial liabilities ¹		C	-	_			(759)	_	(759)
Financial RRSAs		E		_	_		_	(145)	(145)
Trade payables and similar items	15	В	_		_	_	-	(3,049)	(3 049
Other non-derivative financial liabilities	15	В		-	-	-	(750)	(831)	(831
			129	4,121	692	739	(759)	(6,286)	(1 364

In the event of counterparty default relating to derivative financial assets and liabilities off setting would apply and financial assets and liabilities held with the same counterparty would net off if this occurred with every counterparty total financial assets would be nil and liabilities £1731m

Fair values equate to book values for both 2015 and 2014, with the following exceptions

	20	2015		2014	
	Book value £m	Fair value £m	Book value £m	Fair value £m	
Borrowings	(3,302)	(3 312)	(2 261)	(2,362)	
Financial RRSAs	(110)	(110)	(145)	(152)	

The fair value of a financial instrument is the price at which an asset could be exchanged, or a liability settled, between knowledgeable willing parties in an arms-length transaction. Fair values have been determined with reference to available market information at the balance sheet date, using the methodologies described below

- A These primarily comprise unconsolidated companies where fair value approximates to the book value

 B fair values are assumed to approximate to cost either due to the short term maturity of the instruments or because the interest rate of the investments is reset after periods not exceeding six months

 C Fair values of derivative financial assets and liabilities are estimated by discounting expected future contractual cash flows using prevailing interest rate curves. Amounts denominated in foreign currencies are valued at the exchange rate prevailing at the balance sheet date. These financial instruments are included on the balance sheet at fair value derived from observable market prices (Level 2 as defined by IFRS 13 Fair Value Measurement).

 D Borrowings are carried at amortised cost. Amounts denominated in foreign currencies are valued at the exchange rate prevailing at the balance sheet date.

 E The fair value of RRSAs is estimated by discounting expected future cash flows. The contractual cash flows are based on future trading activity which is estimated based on latest forecasts (Level 3 as defined by IFRS 13).

- IFRS 13 Fair Value Measurement defines a three level valuation hierarchy
- Level 1 quoted prices for similar instruments
 Level 2 directly observable market inputs other than Level 1 inputs
 Level 3 inputs not based on observable market data

16 Financial instruments continued **CARRYING VALUES OF OTHER FINANCIAL ASSETS AND LIABILITIES**

-	Foreign exchange contracts £m	Commodity contracts £m	Interest rate contracts	Total derivatives £m	Financial RRSAs £m	Total £m
2015						
Non-current assets	3	-	80	83		83
Current assets	29	-	_	29		29
Assets	32	_	80	112		112
Current liabilities	(244)	(39)	-	(283)	(19)	(302)
Non-current habilities	(1,428)	(65)	(67)	(1,560)	(91)	(1,651)
Liabilities	(1,672)	(104)	(67)	(1,843)	(110)	(1,953)
	(1,640)	(104)	13	(1,731)	(110)	(1,841)
2014						
Non-current assets	28	_	79	107		107
Current assets	22	-	-	22	_	22
Assets	50	_	79	129		129
Current habilities	(144)	(21)	_	(165)	(22)	(187)
Non current liabilities	(545)	(22)	(27)	(594)	(123)	(717)
Liabilities	(689)	(43)	(27)	(759)	(145)	(904)
-	(639)	(43)	52	(630)	(145)	(775)

DERIVATIVE FINANCIAL INSTRUMENTS

The Group uses various financial instruments to manage its exposure to movements in foreign exchange rates. Where the effectiveness of a hedging relationship in a cash flow hedge is demonstrated, changes in the fair value that are deemed effective are included in the cash flow hedge reserve and released to match actual payments on the hedged item. The Group uses commodity swaps to manage its exposure to movements in the price of commodities (jet fuel and base metals). To hedge the currency risk associated with a borrowing denominated in US dollars, the Group has currency derivatives designated as part of fair value hedges. The Group uses interest rate swaps and forward rate agreements to manage its exposure to movements in interest rates

Movements in the fair values of derivative financial assets and liabilities were as follows

	Foreign exchange 1	nstruments	Commodity instr	uments	Interest rate instr	ruments	Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m	2015 €m	2014 £m
At 1 January	(639)	498	(43)	(39)	52	(6)	(630)	453
Currency options at inception 1	(20)			-		_	(20)	
Movements in fair value hedges?	1	3			(36)	58	(35)	61
Movements in other derivative contracts3	(1,217)	(1 125)	(89)	(15)	_	_	(1,306)	(1 140)
Contracts settled*	235	(15)	28	11	(3)	_	260	(4)
At 31 December	(1,640)	(639)	(104)	(43)	13	52	(1,731)	(630)

¹ The Group has written currency options to sell USD and buy GBP as part of a commercial agreement. The fair value of this option on inception is treated as a discount to the customer. ² Gain on related hedged items £35m (2014 £61m loss). ³ Included in financing.

FINANCIAL RISK AND REVENUE SHARING ARRANGEMENTS (RRSAS)

The Group's holding company had agreed a put option with Daimler AG, such that Daimler could sell its interest in Rolls-Royce Power Systems Holding GmbH to the Group Daimler AG exercised this option on 24 March 2014 and the Group acquired Daimler's 50% share of RRPSH on 26 August 2014 Prior to this, the fair value of the exercise value this option was included as a financial liability

^{*} Includes £8m contracts settled in fair value hedges (2014 nil)

16 Financial instruments continued

Movements in the carrying values were as follows

	Financial RR	SAs
	2015 £m	2014 £m
At 1 January	(145)	(167)
Exchange adjustments included in OCI	_	3
Financing charge ¹	(8)	(5)
Excluded from underlying profit		
Exchange adjustments 1	8	(8)
Cash paid to partners	35	32
At 31 December	(110)	(145)

¹ Included in financing

RISK MANAGEMENT POLICIES AND HEDGING ACTIVITIES

The principal financial risks to which the Group is exposed are foreign currency exchange rate risk, liquidity risk, credit risk, interest rate risk and commodity price risk. The Board has approved policies for the management of these risks.

Foreign currency exchange rate risk — The Group has significant cash flows (most significantly US dollars, followed by the euro) denominated in currencies other than the functional currency of the relevant trading entity. To manage its exposures to changes in values of future foreign currency cash flows, so as to maintain relatively stable long-term foreign exchange rates on settled transactions, the Group enters into derivative forward foreign currency transactions. For accounting purposes, these derivative contracts are not designated as hedging instruments.

The Group also has exposures to the fair values of non-derivative financial instruments denominated in foreign currencies. To manage the risk of changes in these fair values, the Group enters into derivative forward foreign exchange contracts, which are designated as fair value hedges for accounting purposes.

The Group regards its interests in overseas subsidiary companies as long-term investments. The Group aims to match its translational exposures by matching the currencies of assets and liabilities. Where appropriate, foreign currency financial liabilities may be designated as hedges of the net investment.

Liquidity risk – The Group's policy is to hold financial investments and maintain undrawn committed facilities at a level sufficient to ensure that the Group has available funds to meet its medium-term capital and funding obligations and to meet any unforeseen obligations and opportunities. The Group holds cash and short-term investments, which together with the undrawn committed facilities enable the Group to manage its liquidity risk.

Credit risk – The Group is exposed to credit risk to the extent of non-payment by either its customers or the counterparties of its financial instruments. The effective monitoring and controlling of credit risk is a key component of the Group's risk management activities. The Group has credit policies covering both trading and financial exposures. Credit risks arising from treasury activities are managed by a central treasury function in accordance with the Group credit policy. The objective of the policy is to diversify and minimise the Group's exposure to credit risk from its treasury activities by ensuring the Group transacts strictly with 'BBB+ or higher rated financial institutions based on pre-established limits per financial institution. At the balance sheet date, there were no significant concentrations of credit risk to individual customers or counterparties. The maximum exposure to credit risk at the balance sheet date is represented by the carrying value of each financial asset, including derivative financial instruments.

Interest rate risk – The Group's interest rate risk is primarily in relation to its fixed rate borrowings (fair value risk) floating rate borrowings and cash and cash equivalents (cash flow risk). Interest rate derivatives are used to manage the overall interest rate profile within the Group policy, which is to maintain a higher proportion of net debt at floating rates of interest as a natural hedge to the net cash position. These are designated as either fair value or cash flow hedges as appropriate.

Commodity risk – The Group has exposures to the price of jet fuel and base metals arising from business operations. To minimise its cash flow exposures to changes in commodity prices, the Group enters into derivative commodity transactions. For accounting purposes, these derivative contracts are not designated as hedging instruments.

Other price risk – The Group's cash equivalent balances represent investments in money market instruments, with a term of up to three months. The Group does not consider that these are subject to significant price risk.

16 Financial instruments continued DERIVATIVE FINANCIAL INSTRUMENTS

The nominal amounts analysed by year of expected maturity, and fair values of derivative financial instruments are as follows

		Ex	pected maturity			Fafr va	Fair value	
	Nominal amount £m	Within one year £m	Between one and two years £m	Between two and five years £m	After five years £m	Assets £m	Liabilities £m	
At 31 December 2015								
Foreign exchange contracts				_				
Fair value hedges	_	_	-	_	-	.		
Non-hedge accounted	22,418	5,736	4,266	11,637	779	32	(1,672)	
Interest rate contracts								
Fair value hedges	2,437		-	500	1,937	74	(61)	
Non hedge accounted	_		_			6	(6)	
Commodity contracts								
Non-hedge accounted	268	90	72	83	23	_	(104)	
	25,123	5,826	4,338	12,220	2,739	112	(1,843)	
At 31 December 2014				· <u>-</u>				
Foreign exchange contracts								
Fair value hedges	46	46	_	_	<u></u>	6		
Non-hedge accounted	20,889	5 431	4 793	10 665	_	44	(689)	
Interest rate contracts								
Fair value hedges	1512	53		500	959	74	(22)	
Non-hedge accounted	2	2	_			5	(5)	
Commodity contracts								
Non hedge accounted	240	79	62	71	28	-	(43)	
	22 689	5 611	4 855	11 236	987	129	(759)	

As described above all derivative financial instruments are entered into for risk management purposes, although these may not be designated into hedging relationships for accounting purposes

CURRENCY ANALYSIS

Derivative financial instruments related to foreign exchange risks are denominated in the following currencies

	Currencies purchased forward							
	Sterling £m	US dollar £m	Euro £m	Other £m	Total £m			
At 31 December 2015			·	•				
Currencies sold forward								
Sterling	_	383	_	221	604			
US dollar	18,869		1,552	902	21,323			
Euro	2	76		125	203			
Other	131	12	143	2	288			
At 31 December 2014								
Currencies sold forward				_				
Sterling		429	_	199	628			
US dollar	16,659	_	2 014	938	19,611			
Euro	150	61		185	396			
Other	167	9	114	10	300			

16 Financial instruments continued

Other derivative financial instruments are denominated in the following currencies

				2015 £m	2014 £m
Sterling	-			875	877
US dollar				1.279	292
Euro				550	584
EUIO				330	204
Non-derivative financial instruments are denominated in t	he following currencies				
	Sterling £m	US dollar £m	Euro £m	Other £m	Total
At 31 December 2015	£(1)	2.171	£III)	<u>tm</u>	£m
Unlisted non-current investments		1	31	1	33
Trade receivables and similar items	131	1,228	613	89	2,061
Other non-derivative financial assets	280	350	102	111	843
Short-term investments		_	_	2	2
Cash and cash equivalents	1,554	959	446	217	3,176
Assets	1,965	2,538	1,192	420	6,115
Borrowings	(1,369)	(1,162)	(768)	(3)	(3,302)
Financial RRSAs	- · · · - · · · - · · · - · · · - · · · · - ·	(75)	(35)		(110)
Trade payables and similar items	(1,536)	(859)	(523)	(183)	(3,101)
Other non-derivative financial liabilities	(242)	(303)	(139)	(133)	(817)
Liabilities	(3,147)	(2,399)	(1,465)	(319)	(7,330)
	(1,182)	139	(273)	101	(1,215)
At 31 December 2014					
Unlisted non-current investments		_	30	1	31
Trade receivables and similar items	232	1,180	479	90	1,981
Other non-derivative financial assets	400	53	101	117	671
Short-term investments			_	7	7
Cash and cash equivalents	513	1,404	619	326	2,862
Assets	1,145	2,637	1 229	541	5 552
Borrowings	(1 341)	(101)	(819)		(2,261)
Financial RRSAs		(97)	(48)	_	(145)
Trade payables and similar items	(1,489)	(887)	(545)	(128)	(3 049)
Other non-derivative financial liabilities	(248)	(333)	(161)	(89)	(831
Liabilities	(3,078)	(1,418)	(1 573)	(217)	(6 286
	(1,933)	1 219	(344)	324	(734

16 Financial instruments continued

CURRENCY EXPOSURES

The Group's actual currency exposures after taking account of derivative foreign currency contracts, which are not designated as hedging instruments for accounting purposes are as follows

Functional currency of Group operations	Sterling £m	US dollar £m	Euro £m	Other £m	Total £m
At 31 December 2015					
Sterling	_		1	27	28
US dollar	(12)	1		8	(3)
Euro	4	-		_	4
Other	_	3	1	(1)	3
At 31 December 2014					
Sterling		28	2	35	65
US dollar	(2)		(1)	8	5
Euro	2	5		11	18
Other	5	19	6	1	31

AGEING BEYOND CONTRACTUAL DUE DATE OF FINANCIAL ASSETS

The ageing beyond contractual due date of the Group's financial assets is

	Within terms £m	Up to three months overdue £m	Between three months and one year overdue £m	More than one year overdue £m	Total £m
At 31 December 2015					
Unlisted non-current asset investments	33	-	-	-	33
Trade receivables and similar items	1,745	184	98	34	2,061
Other non-derivative financial assets	835	5	1	2	843
Derivative financial assets	112	-	_	_	112
Short-term investments	2				2
Cash and cash equivalents	3,176	-	_	-	3,176
	5,903	189	99	36	6,227
At 31 December 2014					
Unlisted non-current asset investments	31				31
Trade receivables and similar items	1 657	206	104	14	1,981
Other non-derivative financial assets	667	4	-	_	671
Derivative financial assets	129	-	_	_	129
Short-term investments	7		-		7
Cash and cash equivalents	2 862	-		-	2 862
	5,353	210	104	14	5,681

16 Financial instruments continued **CONTRACTUAL MATURITY ANALYSIS OF FINANCIAL LIABILITIES**

		Gross values				
	Within one year £m	Between one and two years £m	Between two and five years £m	After five years £m	Discounting £m	Carrying value £m
At 31 December 2015						
Borrowings	(530)	(161)	(1,317)	(1,897)	603	(3,302)
Derivative financial liabilities	(286)	(329)	(1,026)	(314)	112	(1,843)
Financial RRSAs	(16)	(20)	(76)	(10)	12	(110)
Trade payables and similar items	(3,059)	(38)	(4)	_	_	(3,101)
Other non-derivative financial liabilities	(640)	(43)	(74)	(60)	_	(817)
	(4,531)	(591)	(2,497)	(2,281)	727	(9,173)
At 31 December 2014						
Borrowings	(148)	(385)	(214)	(1 880)	366	(2,261)
Derivative financial liabilities	(174)	(115)	(324)	(181)	35	(759)
Financial RRSAs	(17)	(19)	(72)	(52)	15	(145)
Trade payables and similar items	(3 012)	(32)	(2)	(3)	_	(3,049)
Other non-derivative financial liabilities	(650)	(95)	(20)	(66)		(831)
	(4,001)	(646)	(632)	(2 182)	416	(7,045)

INTEREST RATE RISK

In respect of income earning financial assets and interest bearing financial liabilities, the following table indicates their effective interest rates and the periods in which they reprice. The value shown is the carrying amount

			Period in which interest rate reprices	
At 31 December 2015	Effective interest rate %	Total £m	6 months or less £m	6 12 months £m
Short-term investments ¹	·	2	2	
Cash and cash equivalents 2		3,176	3,176	_
Unsecured bank loans				
Other borrowings		(129)	(1)	
£200m floating rate loan	GBP LIBOR + 1 26	(200)	(200)	_
£43m floating rate loan	GBP LIBOR + 0 402	(43)	(43)	_
€125m fixed rate loan	2 6000%	(92)		
€75m fixed rate loan	2 0600%	(55)		_
€50m fixed rate loan	2 3500%	(28)		_
Unsecured bond issues				
7 1/1% Notes 2016 £200m	7 3750%	(200)		
6 75% Notes 2019 £500m	6 7500%	(536)		_
Effect of interest rate swaps	GBP LIBOR + 2 9824		(536)	
2 375% Notes 2020 \$500m	2 3750%	(333)	_	
Effect of interest rate swaps	GBP LIBOR + 0 8410	-	(333)	
2 125% Notes 2021 €750m	2 1250%	(576)		_
Effect of interest rate swaps	GBP LIBOR + 0 7005	_	(576)	
3 625% Notes 2025 \$1 000m	3 6250%	(668)		_
Effect of interest rate swaps	GBP LIBOR + 1 4658		(668)	_
3 375% Notes 2026 £375m	3 3750%	(390)		
Effect of interest rate swaps	GBP LIBOR + 0 8930	_	(390)	
Other secured				
Obligations under finance leases	4 1089%	(52)		
	<u> </u>	(124)		

Interest on the short term investments are at fixed rates
 Cash and cash equivalents comprises bank balances and demand deposits and earns interest at rates based on daily deposit rates

16 Financial instruments continued

			Period in which interest rate reprices	
At 31 December 2014	Effective interest rate %	Total £m	6 months or less £m	6 12 months £m
Short-term investments 1		7	5	2
Cash and cash equivalents 2		2,862	2 862	_
Unsecured bank loans				
Other borrowings		(12)	(1)	
Interest rate swaps	5 8156%		2	(2)
£200m floating rate loan	GBP LIBOR + 1 26	(200)	(200)	
€125m fixed rate loan	2 6000%	(97)		
€75m fixed rate loan	2 0600%	(59)	-	_
€50m fixed rate loan	2 3500%	(36)	_	_
Unsecured bond issues				
7 1/1% Notes 2016 £200m	7 3750%	(200)	_	-
6 55% Notes 2015 US\$83m	6 5500%	(55)	_	(55)
Effect of interest rate swaps	USD LIBOR + 1 24		(55)	55
6 75% Notes 2019 £500m	6 7500%	(547)		-
Effect of interest rate swaps	GBP LIBOR + 2 9824%		(547)	
2 125% Notes 2021 €750m	2 1250%	(615)	_	_
Effect of interest rate swaps	GBP LIBOR + 0 7005	_	(615)	_
3 375% Notes 2026 £375m	3 3750%	(395)		
Effect of interest rate swaps	GBP LIBOR + 0 8930		(395)	
Other secured				
Obligations under finance leases	4 1089%	(45)	(1)	(1)
		608	_	

Some of the Group's borrowings are subject to the Group meeting certain obligations, including customary financial covenants. If the Group fails to meet its obligations these arrangements give rights to the lenders, upon agreement to accelerate repayment of the facilities. There are no rating triggers contained in any of the Group's facilities that could require the Group to accelerate or repay any facility for a given movement in the Group's credit rating

In addition, the Group has £1 780m (2014 £1,277m) of undrawn committed borrowing facilities available for at least the next two years

SENSITIVITY ANALYSIS

Sensitivities at 31 December (all other variables held constant) - impact on profit after tax and equity		2014 £m
Sterling 10% weaker against the US dollar	(1,574)	(1 336)
Sterling 10% stronger against the US dollar	1,288	1 093
Euro 10% weaker against the US dollar	(130)	(147)
Euro 10% stronger against the US dollar	111	123
Sterling 10% weaker against the Euro	18	15
Sterling 10% stronger against the Euro	(15)	(12)
Commodity prices 10% lower	(13)	(15)
Commodity prices 10% higher	13	15

At 31 December 2015 the Group had no material sensitivity to changes in interest rates on that date. The main interest rate sensitivity for the Group arises as a result of the gross up of net cash and this is mitigated as described under the interest rate risk management policies on page 100

Interest on the short term investments are at fixed rates
 Cash and cash equivalents comprises bank balances and demand deposits and earns interest at rates based on daily deposit rates

17 Provisions for liabilities and charges

					_		
,	At 1 January 2015 £m	Exchange differences £m	Acquisitions of businesses £m	Unused amounts reversed £m	Charged to income statement £m	Utilised £m	At 31 December 2015 £m
Warranty and guarantees	426	(14)	(1)	(28)	106	(108)	381
Contract loss	41	(1)	_	(1)	10	(13)	36
Restructuring	122	_	-	(30)	106	(132)	66
Customer financing	47			(27)	11	(11)	20
Insurance	65	·		(5)	15	(8)	67
Other	106	(2)	-	(9)	2	(27)	70
	807	(17)	(1)	(100)	250	(299)	640
Current liabilities	433				-		336
Non-current liabilities	374						304

Provisions for warranties and quarantees primarily relate to products sold and generally cover a period of up to three years

Provisions for contract loss and restructuring are generally expected to be utilised within two years

In connection with the sale of its products the Group will, on some occasions, provide financing support for its customers – generally in respect of civil aircraft. The Group's commitments relating to these financing arrangements are spread over many years relate to a number of customers and a broad product portfolio and are generally secured on the asset subject to the financing. These include commitments of US\$3 1bn to provide borrowing facilities to enable customers to purchase aircraft (of which approximately. US\$322m could be called in 2016). These facilities may only be used if the customer is unable to obtain financing elsewhere and are priced at a premium to the market rate. Consequently the directors do not consider that there is a significant exposure arising from the provision of these facilities.

17 Provisions for liabilities and charges continued

Customer financing provisions cover guarantees provided for asset value and/or financing. These guarantees, the risks arising and the process used to assess the extent of the risk are described under the heading 'Customer financing' in the Finance Review on page 44. It is estimated that the provision will be utilised as follows.

	2015 £m	2014 £m
Potential claims with specific claim dates		
In one year or less	3	32
In more than one year but less than five years	12	11
In more than five years	5	4
	20	47

Commitments on delivered aircraft in excess of the amounts provided are shown in the table below. These are reported on a discounted basis at the Group's borrowing rate to reflect better the time span over which these exposures could arise. These amounts do not represent values that are expected to crystallise. The commitments are denominated in US dollars. As the Group does not generally adopt cash flow hedge accounting for future foreign exchange transactions, this amount is reported, together with the sterling equivalent at the reporting date spot rate. The values of aircraft providing security are based on advice from a specialist aircraft appraiser.

	2015	2015		
	£m	\$m	٤m	\$m
Gross commitments	269	399	388	605
Value of security ¹	(136)	(201)	(245)	(382)
Indemnities	(79)	(118)	(84)	(132)
Net commitments	54	80	59	91
Net commitments with security reduced by 20% ²	78	115	90	140
¹ Security includes unrestricted cash collateral of	35	52	42	66

² Although sensitivity calculations are complex the reduction of relevant security by 20% illustrates the sensitivity to changes in this assumption

The Group's captive insurance company retains a portion of the exposures it insures on behalf of the remainder of the Group Significant delays occur in the notification and settlement of claims and judgement is involved in assessing outstanding liabilities, the ultimate cost and timing of which cannot be known with certainty at the balance sheet date. The insurance provisions are based on information currently available, however it is inherent in the nature of the business that ultimate liabilities may vary. Provisions for outstanding claims are established to cover the outstanding expected liability as well as claims incurred but not yet reported.

Other provisions comprise a number of liabilities with varying expected utilisation rates

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

18 Post-retirement benefits

The Group operates a number of defined benefit and defined contribution schemes

- UK defined benefit schemes are funded with the assets are held in separate trustee administered funds. Employees are entitled to retirement benefits based on either their final or career average salaries and length of service, and
- Overseas defined benefit schemes are a mixture of funded and unfunded plans and provide benefits in line with local practice
 Additionally in the US, and to a lesser extent in some other countries, the Group's employment practices include the provision of
 healthcare and life insurance benefits for retired employees. These schemes are unfunded.

The valuations of the defined benefit schemes are based on the most recent funding valuations, where relevant updated by the scheme actuaries to 31 December 2015

The defined benefit schemes expose the Group to actuarial risks such as longevity, interest rate inflation and investment risks. In the UK, and in the principal North American pension schemes, the Group has adopted investment policies to mitigate some of these risks. This involves investing a significant proportion of the schemes' assets in Liability Driven Investment (LDI) portfolios, which hold investments designed to offset interest rate and inflation rate risks. In addition, in the UK, the Rolls-Royce Pension Fund has invested in a longevity swap, which is designed to offset longevity risks in respect of existing pensioners.

In the UK, surpluses are recognised on schemes where, on ultimate wind-up when there are no remaining members, any surplus will be returned to the Group

AMOUNTS RECOGNISED IN THE INCOME STATEMENT

		2015		2014		
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
Defined benefit schemes				_		
Current service cost and administrative expenses	169	52	221	156	45	201
Past-service and curtailment (credit)/cost	(16)	8	(8)	(18)	(13)	(31)
	153	60	213	138	32	170
Defined contribution schemes	33	85	118	32	97	129
Operating cost	186	145	331	170	129	299
Net financing in respect of defined benefit schemes	(65)	33	(32)	(11)	40	29
Total income statement charge	121	178	299	159	169	328

The operating cost is charged as follows

	Defined benefit		Defined contribution		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Cost of sales	147	117	80	84	227	201
Commercial and administrative costs	32	21	21	23	53	44
Research and development	34	27	17	17	51	44
Operating cost – continuing operations	213	165	118	124	331	289
Discontinued operations		5		5	_	10
Total operating cost	213	170	118	129	331	299

18 Post-retirement benefits continued

The Group operates a PaySave scheme in the UK. This is a salary sacrifice scheme under which employees elect to stop making employee contributions and the Group makes additional contributions in return for a reduction in gross contractual pay. As a result, there is a decrease in wages and salaries and a corresponding increase in pension costs of £32m (2014 £35m) in the year.

Net financing comprises

	2015					
_	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
Financing on scheme obligations	375	57	432	390	64	454
Financing on scheme assets	(440)	(24)	(464)	(427)	(24)	(451)
Financing on unrecognised surpluses and minimum funding liability	_	_	_	26	_	26
Net financing (income)/charge in respect of defined benefit schemes	(65)	33	(32)	(11)	40	29
Financing income on scheme surpluses	(65)	_	(65)	(13)	_	(13)
Financing cost on scheme deficits	_	33	33	2	40	42

AMOUNTS RECOGNISED IN OCI IN RESPECT OF DEFINED BENEFIT SCHEMES

	2015			2014		
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
Actuarial gains and losses arising from demographic assumptions	(185)	8	(177)	23	(17)	6
Actuarial gains and losses arising from financial assumptions	(70)	70	-	(1 099)	(228)	(1 327)
Actuarial gains and losses arising from experience adjustments	56	8	64	(343)	(17)	(360)
Return on scheme assets excluding financing income	(593)	(16)	(609)	2,258	55	2,313
Movement in unrecognised surplus and related finance cost	-			513	-	513
Movement in minimum funding liability and related finance cost	-	-	_	47	_	47
Included in other comprehensive income	(792)	70	(722)	1,399	(207)	1,192

AMOUNTS RECOGNISED IN THE BALANCE SHEET IN RESPECT OF DEFINED BENEFIT SCHEMES

	2015			2014			
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m	
Present value of funded obligations	(10,914)	(650)	(11,564)	(10 606)	(664)	(11 270)	
Fair value of scheme assets	11,957	597	12,554	12,341	593	12,934	
Net asset/(liability) on funded schemes	1,043	(53)	990	1,735	(71)	1,664	
Present value of unfunded obligations	-	(1,067)	(1,067)	-	(1 109)	(1 109)	
Net asset/(liability) recognised in the balance sheet	1,043	(1,120)	(77)	1,735	(1,180)	555	
Post-retirement scheme surpluses	1,059	4	1,063	1 735	5	1 740	
Post-retirement scheme deficits	(16)	(1,124)	(1,140)	_	(1 185)	(1 185)	
	17	1 / 1	, ,- :-,		,,		

Overseas schemes are located in the following countries

	2015				2014	
	Assets £m	Obligations £m	Net £m	Assets £m	Obligations £m	Net £m
Canada	152	(188)	(36)	160	(208)	(48)
Germany		(553)	(553)	-	(592)	(592)
US pension schemes	429	(513)	(84)	414	(508)	(94)
US healthcare schemes	-	(426)	(426)	-	(423)	(423)
Other	16	(37)	(21)	19	(42)	(23)
Net asset/(liability) recognised in the balance sheet	597	(1,717)	(1,120)	593	(1 773)	(1,180)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

18 Post-retirement benefits continued DEFINED BENEFIT SCHEMES

Assumptions

Significant actuarial assumptions for UK schemes (weighted average, weighted by the size of the obligation) used at the balance sheet date were as follows

	_	2015	2014
Discount rate		3 6%	3 6%
Inflation assumption(RPI)1		3 2%	3 2%
Rate of increase in salaries		4 0%	4 2%
Male life expectancy from age 65	current pensioner	22 8 years	22 5 years
	future pensioner currently aged 45	24 8 years	24 1 years

¹ This is the assumption for the Retail Price Index. The Consumer Price Index is assumed to be 1.1% lower

Discount rates are determined by reference to the market yields on AA rated corporate bonds. The rate is determined by using the profile of forecast benefit payments to derive a weighted average discount rate from the yield curve.

The inflation assumption is determined by the market implied assumption based on the yields on long-term indexed linked government securities and increases in salaries are based on actual experience, allowing for promotion, of the real increase above inflation

The mortality assumptions adopted for the UK pension schemes are derived from the SAP actuarial tables with future improvements in line with the CMI 2015 core projections and long-term improvements of 15%. Where appropriate, these are adjusted to take account of the relevant scheme's actual experience.

Other assumptions have been set on advice from the relevant actuary, having regard to the latest trends in scheme experience and the assumptions used in the most recent funding valuation. The rate of increase of pensions in payment is based on the rules of the relevant scheme combined with the inflation assumption where the increase is capped.

Assumptions for overseas schemes are less significant and are based on advice from local actuaries. The principal assumptions are

	2015	2014
Discount rate	3 6%	3 3%
Inflation assumption	2 2%	2 2%
Long-term healthcare cost trend rate	5 0%	5 0%
Male life expectancy from age 65 current pensioner	21 1 years	21 1 years
future pensioner currently aged 45	23 3 years	23 3 years

18 Post-retirement benefits continued Changes in present value of defined benefit obligations

<u> </u>		2015		2014			
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m	
At 1 January	(10,606)	(1,773)	(12,379)	(9,046)	(1,493)	(10,539)	
Exchange differences		17	17		(7)	(7)	
Current service cost	(164)	(50)	(214)	(151)	(44)	(195)	
Past service cost	16	(5)	11	18	16	34	
Finance cost	(375)	(58)	(433)	(390)	(63)	(453)	
Contributions by employees	(3)	(4)	(7)	(4)	(5)	(9)	
Benefits paid out	417	75	492	376	71	447	
Disposal of businesses	-	_	_	10	16	26	
Actuarial gains/(losses)	(199)	84	(115)	(1,419)	(266)	(1 685)	
Settlement curtailment	_		-		6	6	
Other movements	_	(3)	(3)		(4)	(4)	
At 31 December	(10,914)	(1,717)	(12,631)	(10,606)	(1,773)	(12,379)	
Funded schemes	(10,914)	(650)	(11,564)	(10 606)	(664)	(11 270)	
Unfunded schemes		(1,067)	(1,067)		(1,109)	(1 109)	
The defined benefit obligations are in respect of							
Active plan participants	(4,273)	(921)	(5,194)	(4,170)	(974)	(5,144)	
Deferred plan participants	(1,946)	(130)	(2,076)	(2,009)	(97)	(2,106)	
Pensioners	(4,695)	(666)	(5,361)	(4 427)	(702)	(5 129)	
Weighted average duration of obligations (years)	18	16	17	17	16	17	

Changes in fair value of scheme assets

	2015			2014		
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
At 1 January	12,341	593	12,934	9,776	504	10,280
Exchange differences	-	(2)	(2)	=	18	18
Administrative expenses	(5)	(2)	(7)	(5)	(1)	(6)
Financing	440	24	464	427	24	451
Return on plan assets excluding financing	(593)	(16)	(609)	2,258	55	2,313
Contributions by employer	188	71	259	257	65	322
Contributions by employees	3	4	7	4	5	9
Benefits paid out	(417)	(75)	(492)	(376)	(71)	(447)
Settlements/curtailment	-	_	_	_	(6)	(6)
At 31 December	11,957	597	12,554	12 341	593	12,934
Total return on scheme assets	(153)	8	(145)	2,685	79	2,764

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

18 Post-retirement benefits continued

Fair value of scheme assets at 31 December

·	2015				2014	
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
Sovereign debt	7,283	297	7,580	7 282	167	7,449
Derivatives on sovereign debt	(5)	(1)	(6)	(2 622)	2	(2,620)
Corporate debt instruments	1,977	239	2,216	2 053	237	2 290
Interest rate swaps	1,868		1,868	4 218	_	4 218
Inflation swaps	(477)		(477)	(360)	_	(360)
Cash and similar instruments	118	21	139	193	127	320
Liability driven investment (LDI) portfolios ¹	10,764	556	11,320	10,764	533	11,297
Longevity swap ²	(142)	_	(142)	10		10
Listed equities	810	1	811	787	3	790
Unlisted equities	232	_	232	216		216
Sovereign debt	110	3	113	105	4	109
Corporate debt instruments	24		24	15	_	15
Cash	68	21	89	166	32	198
Other	91	16	107	278	21	299
Fair value of scheme assets	11,957	597	12,554	12,341	593	12,934

¹ A portfolio of gilt and swap contracts backed by LIBOR generating assets that is designed to hedge the majority of the interest rate and inflation risks associated with the schemes

The scheme assets do not include any of the Group's own financial instruments nor any property occupied by, or other assets used by, the Group The longevity swap is valued by the scheme actuaries based on the difference between the agreed longevity assumptions at inception and actual longevity experience. All other fair values are provided by the fund managers. Where available, the fair values are quoted prices (eg. listed equity, sovereign debt and corporate bonds) Unlisted investments (private equity) are included at values provided by the fund manager in accordance with relevant guidance. Other significant assets are valued based on observable inputs such as yield curves

Movements in unrecognised surplus and minimum funding liability

	2015		2014			
	UK schemes £m	Overseas schemes £m	Total £m	UK schemes £m	Overseas schemes £m	Total £m
At 1 January	=		-	(534)	_	(534)
Movements in unrecognised surplus through OCI1				513	_	513
Movements in minimum funding liability through OCI 2	_		_	47	_	47
Related finance costs	_	_	_	(26)	_	(26)
At 31 December		-				_

Where a surplus has arisen on a scheme in accordance with IAS 19 and IFRIC 14, the surplus is recognised as an asset only if it represents an unconditional economic benefit available to the Group in the future. Any surplus in excess of this benefit is not recognised in the balance sheet. During 2014, the rules of one scheme were amended, which removed the restriction on recognising the surplus.
 A minimum funding liability arises where the statutory funding requirements require future contributions in respect of past service that will result in a future unrecognisable surplus.

FUTURE CONTRIBUTIONS

The Group expects to contribute approximately £260m to its defined benefit schemes in 2016

In the UK, the funding is set on the basis of a triennial funding valuation by the actuaries for which the assumptions may differ from those above In particular, the discount rate used to value the obligations takes account of the investment strategy, rather than being based on market yields of AA corporate bonds. As a result of these valuations, the Group and the scheme trustees agree a Schedule of Contributions (SoC), which sets out the required contributions from the employer and employees for current service. Where the scheme is in deficit, the SoC also includes required contributions from the employer to eliminate the deficit. The most recent agreed triennial valuations for the principal schemes are

	Obligations at 31 December 2015 £m	Valuation date
Rolls-Royce Pension Fund	(7,871)	31 March 2015
Rolls-Royce Group Pension Scheme	(1,913)	5 April 2013
Vickers Group Pension Scheme	(702)	31 March 2013

obligations
Under the longevity swap the Rolls Royce Pension Fund has agreed an average life expectancy of pensioners with a counterparty. If pensioners live longer than expected the counterparty will make payments to the Fund to offset the additional cost of paying pensioners if the reverse applies the cost of paying pensioners will be reduced but the scheme will be required to make payments to the counterparty. The longevity swap is valued at fair value in accordance with IFRS 13 (Level 3)

18 Post-retirement benefits continued

Sensitivities

The calculations of the defined benefit obligations are sensitive to the assumptions set out above. The following table summarises how the estimated impact of a change in a significant assumption would affect the UK defined benefit obligation at 31 December 2015, while holding all other assumptions constant. This sensitivity analysis may not be representative of the actual change in the defined benefit obligation as it is unlikely that the change in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

For the most significant funded schemes, the investment strategies are designed to hedge the risks from interest rates, inflation on an economic basis and in the Rolls-Royce Pension Fund in the UK, the longevity of pensioners. Where appropriate, the table also includes the corresponding movement in the value of the plan assets.

		£m
Reduction in the discount rate of 0 25%1	Obligation	(524)
	Plan assets (LDI portfolio)	569
Increase in inflation of 0 25% 1	Obligation	(249)
	Plan assets (LDI portfolio)	231
Real increase in salaries of 0 25%	Obligations	(86)
One year increase in life expectancy	Obligations	(308)

¹ The difference between the sensitivities on obligations and plan assets arises largely due to differences in the methods used to value the obligations for accounting and economic purposes. On an economic basis the correlation is approximately 97% for discount rates and 89% for inflation.

19 Share capital

			Equity		
			Ordinary shares of 20p each Millions	Nominal value £m	
Issued and fully paid	 				
At 1 January 2014 and 31 December 2015		-	1,631	326	

The rights attaching to each class of share are set out on page 60

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

20 Share-based payments

EFFECT OF SHARE-BASED PAYMENT TRANSACTIONS ON THE GROUP'S RESULTS AND FINANCIAL POSITION

	2015 £m	2014 £m
Total expense recognised for equity-settled share-based payments transactions	6	26
Total credit recognised for cash-settled share-based payments transactions	(1)	(5)
Share-based payments recognised in the consolidated income statement	5	21
Liability for cash-settled share-based payment transactions	-	13

MOVEMENTS IN THE GROUP'S SHARE-BASED PAYMENT PLANS DURING THE YEAR

	Share	ShareSave		APRA
	Number Millions	Weighted average exercise price Pence	Number Millions	Number Millions
Outstanding at 1 January 2014	26 0	660	120	31
Granted	_	=	29	11
Additional entitlements arising from TSR performance	_	_	0.5	_
Additional shares accrued from reinvestment of C Shares	-		-	01
Forfeited	(10)	775	(1 2)	(0 2)
Exercised	(0 5)	487	(4 4)	(17)
Outstanding at 1 January 2015	24 5	660	98	2 4
Granted	13 0	617	30	-
Additional entitlements arising from TSR performance		_	0 5	_
Forfeited	(4 6)	908	(2 9)	(0 1)
Exercised	(9 7)	445	(1 7)	(1 4)
Outstanding at 31 December 2015	23 2	677	87	09
Exercisable at 31 December 2015	-	-		_
Exercisable at 31 December 2014		_	_	_

As share options are exercised throughout the year, the weighted average share price during the year of **820p** (2014 1013p) is representative of the weighted average share price at the date of exercise. The closing price at 31 December 2015 was **575p** (2014 870p).

FAIR VALUES OF SHARE-BASED PAYMENT PLANS

The weighted average fair value per share of equity-settled share-based payment plans granted during the year, estimated at the date of grant, are as follows

	2015	2014
PSP – 25% TSR uplift	1,015p	1 105p
PSP – 50% TSR uplift	1,036р	1 227p
ShareSave – 3 year grant	192р	n/a
ShareSave – 5 year grant	219p	n/a
APRA	n/a	984p

PSP

The fair value of shares awarded under the PSP is calculated using a pricing model that takes account of the non-entitlement to dividends (or equivalent) during the vesting period and the market-based performance condition based on expectations about volatility and the correlation of share price returns in the group of FTSE 100 companies and which incorporates into the valuation the interdependency between share price performance and TSR vesting. This adjustment increases the fair value of the award relative to the share price at the date of grant.

ShareSave

The fair value of the options granted under the ShareSave plan is calculated using a binomial pricing model that assumes that participants will exercise their options at the beginning of the six-month window if the share price is greater than the exercise price. Otherwise it assumes that options are held until the expiration of their contractual term. This results in an expected life that falls somewhere between the start and end of the exercise window.

ΔΡΡΔ

The fair value of shares awarded under APRA is calculated as the share price on the date of the award, excluding expected dividends (or equivalent)

21 Leases OPERATING LEASES Leases as lessee

	2015	2014
	£m	£m
Rentals paid – hire of plant and machinery	122	123
- hire of other assets	124	75
Non-cancellable operating lease rentals are payable as follows	<u>.</u>	·
Within one year	190	182
Between one and five years	488	542
After five years	496	438
	1,174	1,162
Leases as lessor		
	2015	2014
	2015 £m	2014 £m
Rentals received – credited within revenue from aftermarket services		
Rentals received – credited within revenue from aftermarket services Non-cancellable operating lease rentals are receivable as follows	fm	£m
	fm	£m
Non-cancellable operating lease rentals are receivable as follows	£m 3	£m 15
Non-cancellable operating lease rentals are receivable as follows Within one year		£m 15 16

The Group acts as lessee and lessor for both land and buildings and gas turbine engines and acts as lessee for some plant and equipment

- Sublease payments of £1m (2014 £1m) and sublease receipts of £3m (2014 £12m) were recognised in the income statement in the year
- Purchase options exist on aero engines, land and buildings and plant and equipment with the period to the purchase option date varying between one to eight years
- Renewal options exist on aero engines, land and buildings and plant and equipment with the period to the renewal option varying between one to 52 years at terms to be negotiated upon renewal
- · Escalation clauses exist on some leases and are linked to LIBOR
- The total future minimum sublease payments expected to be made is £3m (2014 £6m) and sublease receipts expected to be received are £24m (2014 £31m)

FINANCE LEASES

Finance lease liabilities are payable as follows

		2015				
	Payments £m	Interest £m	Principal £m	Payments £m	Interest £m	Principal £m
Within one year	5	2	3	3	2	1
Between one and five years	18	8	10	13	7	6
After five years	46	7	39	47	9	38
10 To 10	69	17	52	63	18	45

Financial Statements

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

22 Contingent liabilities

Contingent liabilities in respect of customer financing commitments are described in note 17

The Group's share of equity accounted entities' contingent liabilities is £11m (2014 £11m)

On 6 December 2012 the Company announced that it had passed information to the Serious Fraud Office (SFO), following a request from the SFO for information about allegations of malpractice in overseas markets. On 23 December 2013, the Company announced that it had been informed by the SFO that it had commenced a formal investigation. Since the initial announcement, the Company has continued its investigations and is engaging with the SFO and other authorities in the UK, the USA and elsewhere in relation to the matters of concern

The consequence of these disclosures will be decided by the regulatory authorities. It is too early to predict the outcomes but these could include the prosecution of individuals and of the Group Accordingly, the potential for fines, penalties or other consequences cannot currently be assessed. As the investigation is origong, it is not yet possible to identify the timescale in which these issues might be resolved

Contingent liabilities exist in respect of guarantees provided by the Group in the ordinary course of business for product delivery, performance bonds, countertrade obligations and minor miscellaneous items. Various Group undertakings are parties to legal actions and claims which arise in the ordinary course of business, some of which are for substantial amounts. As a consequence of the insolvency of an

performance and reliability. The Group has, in the normal course of business, entered into arrangements in respect of export finance, insurer as previously reported, the Group is no longer fully insured against known and potential claims from employees who worked for certain of the Group's UK based businesses for a period prior to the acquisition of those businesses by the Group. While the outcome of some of these matters cannot precisely be foreseen, the directors do not expect any of these arrangements legal actions or claims, after allowing for provisions already made, to result in significant loss to the Group

23 Related party transactions

	2015 £m	2014 £m
Sales of goods and services to joint ventures and associates	1,896	2,138
Purchases of goods and services from joint ventures and associates	(2,266)	(2 544)
Operating lease payments to joint ventures and associates	(88)	(81)
Guarantees of joint ventures' and associates' borrowings	9	9
Dividends received from joint ventures and associates	63	73
RRSA receipts from joint ventures and associates	16	2
Other income received from joint ventures and associates	2	2

The aggregated balances with joint ventures are shown in notes 12 and 15 Transactions with Group pension schemes are shown in note 18 Included in sales of goods and services to joint ventures and associates are sales of spare engines amounting to £189m (2014 £138m). Profit recognised in the year on such sales amounted to £71m (2014 £54m), including profit on current year sales and recognition of profit deferred on sales in previous years.

In the course of normal operations, related party transactions entered into by the Group have been contracted on an arms-length basis Key management personnel are deemed to be the directors and the members of the ELT as set out as set out in the Annual Report of Rolls-Royce Holdings plc Remuneration for key management personnel is shown below

	2015 £m	2014 £m
Salaries and short-term benefits	8	9
Post-retirement schemes		1
Share-based payments	-	4
	8	14

The charge for share-based payments above is based on when the award is charged to the income statement in accordance with IFRS 2 Share-Based Payments

Financial Statements

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS CONTINUED

24 Acquisitions and disposals

ACQUISITIONS

On 27 March 2015, the Group acquired 100% of ROV Technologies Inc. for \$8m. The acquisition gave rise to goodwill of £1m and other intangible assets of £2m.

DISPOSALS

On 27 November 2015, the Group completed the sale of its Michell Bearings business (comprising a business based in the UK, and a 51% shareholding in Michell Bearings (India) Pvt Ltd, a subsidiary company based in Bangalore) for net consideration of £2m

COMPANY BALANCE SHEET

At 31 December 2015

		2015	2014
Assets	Notes	£m	£m
Non-current assets	-		
Intangible assets	3	2.869	2 622
Property, plant and equipment		1,389	1,348
Investments – subsidiary undertakings	5	1,430	1 724
- joint ventures	5	78	72
- other	5	1	
Other financial assets	9	123	137
Post-retirement schemes – surpluses	14	1,052	1,727
Tost rectification of the present of		6,942	7,630
Current assets		0,542	7,030
Inventories	6	1,218	1,237
Trade and other receivables	7	6,821	6 308
Taxation recoverable	· · · · · · · · · · · · · · · · · · ·	9	
Other financial assets	9	137	103
Cash and cash equivalents	8	2,422	1,941
		10.607	9 589
Total assets	· · · · · · · · · · · · · · · · · · ·	17,549	17,219
		27,3 13	
Liabilities			
Current liabilities			
Borrowings	10	(314)	(1,100)
Other financial liabilities	9	(322)	(218)
Trade and other payables	11	(7,936)	(7,565)
Provisions for liabilities and charges	12	(57)	(96)
		(8,629)	(8,979)
Non-current liabilities			
Borrowings	10	(2,746)	(1 957)
Other financial liabilities	9	(1,679)	(753)
Trade and other payables	11	(1,211)	(1,497)
Deferred tax habilities	13	(121)	(479)
Provisions for liabilities and charges	12	(32)	(78)
Post-retirement scheme deficits	14	(15)	
Post-retirement scrience denotis	14	(5,804)	(4 764)
		(5,55.)	1.750
Total liabilities		(14,433)	(13 743)
Net assets		3,116	3,476
Farith			
Equity Called up share capital	15	326	326
Share premium account		631	631
Revaluation reserve		11	21
Other reserves		167	167
Retained earnings		1,981	2 331
		3,116	3,476
Total equity		3,110	3,4/6

The financial statements on pages 119 to 142 were approved by the Board on 24 February 2016 and signed on its behalf by

Waren East

WARREN EAST Chief Executive

Company's registered number 1003142

DAVID SMITH Chief Financial Officer

Financial Statements

STATEMENT OF COMPREHENSIVE INCOME

For the year ended 31 December 2015

	2015 £m	2014 £m
Profit attributable to the shareholders of Rolls Royce plc	161	(203)
Other comprehensive income (OCI)		
Items that will not be reclassified to profit and loss	-	_
Net movement on post-retirement schemes	(789)	1,393
Related tax movements	273	(488)
Total comprehensive income for the year	(355)	702

STATEMENT OF CHANGES IN EQUITY

For the year ended 31 December 2015

	Non distributable reserves					·-
	Share capital £m	Share premium £m	Revaluation reserve £m	Other reserves £m	Retained earnings Em	Total equity £m
At 1 January 2015	326	631	21	167	2,331	3,476
Total comprehensive income in the year	=	_	_	_	(355)	(355)
Dividend paid	-	-			-	-
Transfers between reserves	-		(10)	_	10	_
Share-based payments - direct to equity	_	_	_	_	-	_
Related tax movements		_	_	_	(5)	(5)
At 31 December 2015	326	631	11	167	1,981	3,116

NOTES TO THE COMPANY FINANCIAL STATEMENTS

1 Accounting policies

BASIS OF ACCOUNTING

These financial statements have been prepared in accordance with Financial Reporting Standard 101 Reduced Disclosure Framework (FRS 101')

These are the Company's first financial statements prepared in accordance with FRS 101

In preparing these financial statements, the Company applies the recognition, measurement and disclosure requirements of international Financial Reporting Standards as adopted by the EU ('Adopted IFRSs'), but makes amendments where necessary in order to comply with Companies Act 2006

In the transition to FRS 101, the Company has applied IFRS 1, whilst ensuring that its assets and liabilities are measured in compliance with FRS 101. An explanation of how the transition to FRS 101 has affected the reported financial position and financial performance of the Company is provided in note 18.

In these financial statements the Company has applied the exemptions available under FRS 101 in respect of the following disclosures

- · a cash flow statement and related notes,
- IFRS 2 Share Based Payments in respect of group settled share based payments,
- · comparative period reconciliations for share capital, tangible fixed assets and intangible assets, and
- disclosures in respect of the compensation of key management personnel

The accounting policies set out below have, unless otherwise stated, been applied consistently to all periods presented in these financial statements and in preparing an opening FRS 101 balance sheet at 1 January 2014 for the purposes of the transition to FRS 101

As permitted by Section 408 of the Companies Act 2006, a separate income statement for the Company has not been included in these financial statements. As permitted by the audit fee disclosure regulations, disclosure of non-audit fees information is not included in respect of the Company.

MEASUREMENT CONVENTION

These financial statements have been prepared on the historical cost basis except where Adopted IFRS requires the revaluation of financial instruments to fair value and certain other assets and liabilities on an alternative basis – most significantly post-retirement scheme obligations are valued on the basis required by IAS 19 Employee Benefits – and on a going concern basis as described on page 63

KEY AREA OF JUDGEMENT

Introduction

The Company generates a significant portion of its revenues and profit on spare parts revenues arising from the installed original equipment (OE) fleet. As a consequence, the Company will often agree contractual prices for OE deliveries that take into account the anticipated aftermarket arrangements. Accounting policies reflect this aspect of the business model, in particular the policies for the recognition of contractual aftermarket rights and the linkage of OE and aftermarket arrangements.

When a civil large engine is sold the economic benefits received usually far exceed the cash receivable under the contract, due to the rights to valuable aftermarket spare parts business. However, because the value of this right cannot be estimated with enough precision, accounting standards require that the revenue recognised in the accounts on sale of the engine is restricted to a total amount that results in a break even position. The amount of the revenue recognised in excess of cash receivable is recognised as an intangible asset, which is called a 'contractual aftermarket right'.

The Company enters into arrangements with long-term suppliers to share the risks and rewards of major programmes – risk and revenue sharing arrangements (RRSAs). The accounting policy for these arrangements has been chosen, consistent with Adopted IFRS, to reflect their commercial effect.

The key judgements in determining these accounting policies are described below

Contractual aftermarket rights (CARs)

On delivery of Civil Aerospace engines, the Company has contractual rights to supply aftermarket parts to the customers and its intellectual rights, warranty arrangements and, where relevant, statutory airworthiness or other regulatory requirements provide reasonable control over this supply. The Directors consider that these rights meet the definition of an intangible asset in IAS 38 intangible. Assets. However, the Directors do not consider that it is possible to determine a reliable fair value for this intangible asset. Accordingly, an intangible asset (CAR) is only recognised on the occasions where the contractual price of the engine is below the cost of manufacture and then only to the extent of this deficit, as this amount is reliably measurable. An equal amount of revenue is recognised at the same point. Where a long-term aftermarket contract is linked to the OE contract (see below), the contractual price of the engine (including amounts allocated from the aftermarket contract) is above its cost of manufacture consequently no CAR is recognised.

Risk and revenue sharing arrangements

RRSAs with key suppliers (workshare partners) are a feature of our Civil Aerospace business. Under these contractual arrangements the key commercial objectives are that (i) during the development phase the workshare partner shares in the risks of developing an engine by performing its own development work, providing development parts and paying a non-refundable cash entry fee, and (ii) during the

production phase it supplies components in return for a share of the programme revenues as a 'life of type' supplier (ie as long as the engine remains in service). The share of development costs borne by the workshare partner and of the revenues it receives reflect the partner's proportionate cost of providing its production parts compared to the overall manufacturing cost of the engine. The share is based on a jointly agreed forecast at the commencement of the arrangement.

These arrangements are complex and have features that could be indicative of a collaboration agreement, including sharing of risk and cost in a development programme, a long-term supply agreement, sharing of intellectual property or a combination of these. In summary, and as described below, the Directors' view is that the development and production phases of the contract should be considered separately in accounting for the RRSA, which results in the entry fee being matched against the non-recurring costs incurred by the Company

Having considered the features above, the Directors considered that there is no directly applicable IFRS to determine an accounting policy for the recognition of entry fees of this nature in the income statement. Consequently, in developing an accounting treatment for such entry fees that best reflects the commercial objectives of the contractual arrangement, the Directors have analysed these features in the context of relevant accounting pronouncements (including those of other standard setters where these do not conflict with IFRS) and have weighed the importance of each feature in faithfully representing the overall commercial effect. The most important considerations that need to be balanced are the transfer of development risk, the workshare partner receiving little standalone value from the payment of the entry fee, and the overall effect being collaboration between the parties which falls short of being a joint venture as the Company controls the programme. Also important in the analysis is the fact that, whilst the Company and the workshare partner share risks and rewards through the life of the contract, these risks and rewards are very different during the development and production phases.

In this context, the entry fee might be considered to represent an amount paid as an equalisation of development costs, a payment to secure a long-term supply arrangement a purchase of intellectual property, or some combination thereof. The accounting under these different scenarios could include recognition of the entry fee to match the associated costs in the income statement, being spread over the life of the programme as a reduction in the cost of supply during production, or being spread over the time period of the access to the intellectual property by the workshare partner.

The Directors consider that the most important features of the arrangement are the risk sharing and that the entry fee represents a contribution to the development costs that the Company incurs in excess of its proportionate programme share. The key judgements taken in reaching this view are the entry fee is determined by the parties on that basis and the contract specifies that in the event that a derivative engine is to be developed, additional entry fees will also be calculated on this basis, the workshare partners describe the entry fee in this way, although the workshare partner receives little stand-alone value from paying the entry fee, the entry fee together with its own development activities represent its aggregate investment in the collaboration, the amount of the entry fee does not include any amount in excess of that necessary to equalise forecast development costs, the Company is not 'on risk' for the full development costs it incurs but for that amount less the entry fees received, and, as far as can be determined this appears to be common industry accounting for arrangements of this type, under both Adopted IFRS and US accounting standards (which the Directors do not believe conflicts with IFRS in this regard)

The resulting accounting policy (described on page 124) represents the commercial effect of the contractual arrangements in that the Company recognises only those development costs to which it is exposed (and thus reflects the significant transfer of development risk to the workshare partner) and the costs of supply of parts during the production phase is measured at the workshare partner's share of programme revenues (which we consider to be a commercial fair value). The Directors do not consider that accounting which would result in entry fees only being recognised in the production phase would appropriately reflect the sharing of development risk. Accordingly, the Directors believe that the policy adopted best reflects the commercial objectives of the arrangements, the nature of the relationship with the workshare partner and is in accordance with Adopted IFRS.

Internally generated development costs

IAS 38 requires that internally generated development costs should only be recognised if strict criteria are met, in particular relating to technical feasibility and generation of future economic benefits. The Directors consider that, due to the complex nature of new equipment programmes, these criteria are not met until relatively late in the programme – Civil Aerospace programmes represent around half of development costs recognised, for these, the criteria are generally satisfied around the time of the initial engine certification.

Customer financing contingent liabilities

The Company has contingent liabilities in respect of financing support provided to customers. In order to assess whether a provision should be recognised, judgement as to the likelihood of these crystallising is required. This judgement is based on an assessment on the knowledge of the customers' fleet plans, the underlying value of the security provided and, where appropriate, the customers' creditworthiness

KEY SOURCES OF ESTIMATION UNCERTAINTY

In applying the accounting policies, estimates are made in many areas, the actual outcome may differ from that calculated. The key sources of estimation uncertainty at the balance sheet date, that have a significant risk of causing material adjustment to the carrying amounts of assets and liabilities within the next financial year are set out below. The estimation of the relevant assets and liabilities involves the combination of a number of assumptions. Sensitivities are disclosed in the relevant notes where this is appropriate and practicable.

Forecasts and discount rates

The carrying values of a number of items on the balance sheet are dependent on the estimates of future cash flows arising from the Company's operations, in particular the assessment as to whether there are any indications of impairment of development, participation, certification, and contractual aftermarket rights recognised as intangible assets (carrying values at 31 December 2015 £2 494m 31 December 2014 £2,267m) is dependent on estimates of cash flows generated by the relevant assets and the discount rate used to calculate a present value. These estimates include the performance of long-term contractual arrangements as described below, as well as estimates for future market share, pricing and unit cost for uncontracted business. The risk of impairment is generally higher for newer programmes and for customer specific intangible assets (CARs) for launch customers and typically reduces as programmes become more established

Post-retirement benefits

The Company's defined benefit pension schemes and similar arrangements are assessed annually in accordance with IAS 19 The accounting valuation, which is based on assumptions determined with independent actuarial advice, resulted in a net surplus of £1,036m before deferred taxation being recognised on the balance sheet at 31 December 2015 (31 December 2014 net surplus £1,727m). The size of the net surplus/deficit is sensitive to the market value of the assets held by the schemes and to actuarial assumptions which include price inflation, pension and salary increases, the discount rate used in assessing actuarial liabilities, mortality and other demographic assumptions and the levels of contributions. Further details are included in note 14

Provisions

As described in the accounting policy on page 126, the Company measures provisions (carrying value at 31 December 2015 £89m, 31 December 2014 £174m) at the Directors' best estimate of the expenditure required to settle the obligation at the balance sheet date These estimates take account of information available and different possible outcomes

Tayation

The tax payable on profits is determined based on tax laws and regulations that apply in each of the numerous jurisdictions in which the Company trades. Where the precise impact of these laws and regulations is unclear, or uncertain, then reasonable estimates may be used to determine the tax charge included in the financial statements.

The main area of uncertainty is in relation to cross border transactions, entered into in the normal course of business as the amount of profit taxable can be subjective and therefore open to interpretation by the tax authorities. This can result in disputes and possibly litigation

Accruals for tax contingencies require management to make judgements and estimates of exposures in relation to areas of uncertainty Contingent liabilities, including in respect of any tax disputes or litigation, are covered in note 19 (contingent liabilities). All provisions are in current liabilities. Any liability relating to interest or penalties on tax liabilities is included in the tax charge.

Deferred tax assets are recognised to the extent it is probable that future taxable profits will be available, against which the asset can be utilised based on management's assumptions relating to the amounts and timing of future taxable profits

SIGNIFICANT ACCOUNTING POLICIES

The Group's significant accounting policies are set out below. These accounting policies have been applied consistently to all periods presented in these consolidated financial statements and by all Group entities.

Revenue recognition

Revenue comprises sales to external customers after discounts, and excluding value added tax

Sales of products (both original equipment and spare parts) are recognised when the significant risks and rewards of ownership of the goods are transferred to the customer, the sales price agreed and the receipt of payment can be assured – this is generally on delivery On occasion, the Group may participate in the financing of OE, most commonly by the provision of guarantees as described in note 18 in such circumstances, the contingent obligations arising under these arrangements are taken into account in assessing when the significant risks and rewards of ownership have been transferred to the customer. As described on page 121, a sale of OE at a contractual price below its cost of manufacture is considered to give rise to revenue to the extent that an intangible asset (contractual aftermarket right) is recognised at the same time.

Sales of services and long-term contracts are recognised when the outcome of the transaction can be reliably estimated. Revenue is recognised by reference to the stage of completion based on services performed to date as a percentage of the total contractual obligation. The assessment of the stage of completion is dependent on the nature of the contract. but will generally be based on costs incurred to the extent these relate to services performed up to the reporting date, achievement of contractual milestones where appropriate, or flying hours or equivalent for long-term aftermarket arrangements.

Provided that the outcome of construction contracts can be assessed with reasonable certainty, the revenues and costs on such contracts are recognised based on stage of completion and the overall contract profitability. Full provision is made for any estimated losses to completion of contracts, having regard to the overall substance of the arrangements.

Progress payments received, when greater than recorded revenue, are deducted from the value of work in progress except to the extent that payments on account exceed the value of work in progress on any contract where the excess is included in accruals and deferred income within trade and other payables. The amount by which recorded revenue of long-term contracts is in excess of payments on account is classified as amounts recoverable on contracts and is separately disclosed within trade and other receivables.

Risk and revenue sharing arrangements (RRSAs)

As described on page 122 the Company enters into arrangements with certain workshare partners under which these suppliers (i) contribute to the forecast costs of developing an engine by performing their own development work, providing development parts and paying a non-refundable cash entry fee, and (ii) supply components for the production phase for which they receive consideration, which is an agreed proportion of the total programme revenues. Both the suppliers' contributions to the forecast non-recurring development costs and their consideration are determined by reference to their proportionate forecast scopes of supply relative to that of the engine overall. Once the forecast costs and the scopes of supply have been agreed at the inception of the contract each party is then accountable for its own incurred costs. No accounting entries are recorded when the suppliers undertake development work or when development components are supplied. Cash sums received are recognised in the income statement, as a reduction in research and development costs incurred, to match the expensing of the Company's related costs — where the cash sums are received in advance of the related costs being expensed or where the related costs are capitalised as intangible assets, the recognition of the cash received is deferred (in accruals and deferred income) to match the recognition of the related expense or the amortisation of the related intangible asset respectively. The payments to suppliers of their shares of the programme revenues for their production components are charged to cost of sales as programme revenues arise.

The Company has arrangements with partners who do not undertake development work or supply parts. Such arrangements are considered to be financial instruments as defined by IAS 32 Financial Instruments. Presentation and are accounted for using the amortised cost method.

Government investment

Where a government or similar body has previously invested in a development programme, the Company treats payments to that body as royalty payments, which are matched to related sales

Research and development

In accordance with IAS 38 Intangible Assets expenditure incurred on research and development is distinguished as relating either to a research phase or to a development phase

All research phase expenditure is charged to the income statement. Development expenditure is capitalised as an internally generated intangible asset only if it meets strict criteria, relating in particular to technical feasibility and generation of future economic benefits

The Company considers that it is not possible to distinguish reliably between research and development activities until relatively late in the programme

Expenditure capitalised is amortised over its useful economic life up to a maximum of 15 years from the entry into service of the product

Interest

Interest receivable/payable is credited/charged to the income statement using the effective interest method. Where borrowing costs are attributable to the acquisition, construction or production of a qualifying asset, such costs are capitalised as part of the specific asset.

Taxation

The tax charge/credit on the profit or loss for the year comprises current and deferred tax

- Current tax is the expected tax payable for the year, using tax rates enacted or substantively enacted at the balance sheet date, and any adjustment to tax payable in respect of previous years
- Deferred tax is provided using the balance sheet liability method, providing for temporary differences between the carrying amounts of the assets and liabilities for financial reporting purposes and the amounts used for tax purposes and is calculated using the enacted or substantively enacted rates that are expected to apply when the asset or liability is settled

Tax is charged or credited in the income statement or other comprehensive income (OCI) as appropriate except when it relates to items credited or charged directly to equity in which case the tax is also dealt with in equity

Deferred tax liabilities are recognised for taxable temporary differences arising on investments in subsidiaries and joint arrangements, except where the Company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future

Deferred tax assets are recognised only to the extent that it is probable that future taxable profits will be available against which the assets can be utilised

Foreign currency translation

Transactions in overseas currencies are translated into local currency at the exchange rate ruling on the date of the transaction. Monetary assets and habilities denominated in foreign currencies are translated into sterling at the rate ruling at the year-end. Exchange differences arising on foreign exchange transactions and the retranslation of assets and habilities into sterling at the rate ruling at the year-end are taken into account in determining profit on ordinary activities before taxation.

Financial instruments

IAS 39 Financial instruments Recognition and Measurement requires the classification of financial instruments into separate categories for which the accounting requirement is different Rolls-Royce has classified its financial instruments as follows

- · Short-term investments are generally classified as available for sale
- Short-term deposits (principally comprising funds held with banks and other financial institutions), trade receivables and short-term investments not designated as available for sale are classified as loans and receivables

 Borrowings, trade creditors and financial RRSAs are classified as other habilities
- Derivatives, comprising foreign exchange contracts, interest rate swaps and commodity swaps are classified as fair value through profit or loss

Financial instruments are recognised at the contract date and initially measured at fair value. Their subsequent measurement depends on their classification.

- Available for sale assets are held at fair value. Changes in fair value arising from changes in exchange rates are included in the income statement. All other changes in fair value are taken to reserves. On disposal, the accumulated changes in value recorded in reserves are included in the gain or loss recorded in the profit and loss account.
- Loans and receivables and other habilities are held at amortised cost and not revalued (except for changes in exchange rates, which are included in the income statement) unless they are included in a fair value hedge accounting relationship. Where such a relationship exists, the instruments are revalued in respect of the risk being hedged. If instruments held at amortised cost are hedged, generally by interest rate swaps, and the hedges are effective, the carrying values are adjusted for changes in fair value, which are included in the income statement.
- Fair value through profit or loss are held at fair value. Changes in fair value are included in the income statement unless the instrument is included in a cash flow hedge. If the instruments are included in an effective cash flow hedging relationship, changes in value are taken to equity. When the hedged forecast transaction occurs, amounts previously recorded in equity are recognised in the income statement.

Financial instruments are derecognised on expiry or when all contractual rights and obligations are transferred

Hedge accounting

The Company does not apply hedge accounting in respect of forward foreign exchange contracts held to manage the cash flow exposures of forecast future transactions denominated in foreign currencies

The Company does not apply hedge accounting in respect of commodity swaps held to manage the cash flow exposures of forecast future transactions in those commodities

The Company applies hedge accounting in respect of transactions entered into to manage the fair value and cash flow exposures of its borrowings. Forward foreign exchange contracts are held to manage the fair value exposures of borrowings denominated in foreign currencies and are designated as fair value hedges. Interest rate swaps are held to manage the interest rate exposures and are designated as fair value or cash flow hedges of fixed and floating rate borrowings respectively.

Changes in the fair values of derivatives designated as fair value hedges and changes in fair value of the related hedged item are recognised directly in the income statement

Changes in the fair values of derivatives that are designated as cash flow hedges and are effective are recognised directly in reserves. Any ineffectiveness in the hedging relationships is included in the income statement. The amounts deferred in reserves are recognised in the income statement to match the recognition of the hedged item.

Hedge accounting is discontinued when the hedging instrument expires or is sold, terminated, or exercised, or no longer qualifies for hedge accounting. At that time, for cash flow hedges and if the forecast transaction remains probable, any cumulative gain or loss on the hedging instrument recognised in reserves, is retained in reserves until the forecast transaction occurs. If a hedged transaction is no longer expected to occur, the net cumulative gain or loss previously recognised in reserves is transferred to the income statement

The portion of a gain or loss on an instrument used to hedge a net investment in a foreign operation that is determined to be an effective hedge is recognised directly in reserves. The ineffective portion is recognised immediately in the income statement.

Certification costs and participation fees

Costs incurred in respect of meeting regulatory certification requirements for new civil engine/aircraft combinations and payments made to airframe manufacturers for this, and participation fees, are carried forward in intangible assets to the extent that they can be recovered out of future sales and are charged to the profit and loss account over the programme life, up to a maximum of 15 years from the entry into-service of the product

Contractual Aftermarket Rights (CARs)

As described under key judgements on page 121 the Company may sell OE to customers at a price below its cost, on the basis that it also receives valuable aftermarket rights. Such a sale is considered to give rise to an intangible asset which is recognised, in accordance with IAS 38, at the same time as the revenue at an amount equal to the cash deficit and is amortised on a straight-line basis over the period that highly probable aftermarket sales are expected to be earned.

Financial Statements

Software

The cost of acquiring software that is not specific to an item of tangible fixed assets is classified as an intangible asset and amortised over its useful economic life, up to a maximum of five years

Tangible fixed assets and depreciation

Tangible fixed assets are stated at cost or valuation less accumulated depreciation and any provision for impairments in value

Depreciation is provided on a straight-line basis to write off the cost or valuation, less the estimated residual value, over the estimated useful lives are as follows

- 1) Land and buildings, as advised by the Company's professional valuers
 - a) Freehold buildings five to 45 years (average 26 years)
 - b) Leasehold land and buildings lower of valuers' estimates or period of lease
 - c) No depreciation is provided in respect of freehold land
- ii) Plant and equipment five to 25 years (average 14 years)
- iii) Aircraft and engines five to 20 years (average 9 years)
- iv) No depreciation is provided on assets in the course of construction

Impairment of non-current assets

Impairment of non-current assets is considered in accordance with IAS 36 Impairment of Assets. Where the asset does not generate cash flows that are independent of other assets impairment is considered for the cash-generating unit to which the asset belongs. Intangible assets not yet available for use are tested for impairment annually. Other intangible assets property plant and equipment and investments are assessed for any indications of impairment annually. If any indication of impairment is identified, an impairment test is performed to estimate the recoverable amount.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be below the carrying value, the carrying value is reduced to the recoverable amount and the impairment loss recognised as an expense. The recoverable amount is the higher of value in use or fair value less costs to sell. If this is readily available. The value in use is the present value of future cash flows using a pre-tax discount rate that reflects the time value of money and the risk specific to the asset.

Operating leases

Payments made and rentals received under operating lease arrangements are charged/credited to the income statement on a straight-line basis

Inventories

Inventories and work in progress are valued at the lower of cost and net realisable value on a first-in, first-out basis. Cost comprises direct materials and where applicable, direct labour costs and those overheads, including depreciation of property, plant and equipment, that have been incurred in bringing the inventories to their present location and condition. Net realisable value represents the estimated selling prices less all estimated costs of completion and costs to be incurred in marketing, selling and distribution.

Provisions

Provisions are recognised when the Company has a present obligation as a result of a past event, and it is probable that the Company will be required to settle that obligation. Provisions are measured at the directors' best estimate of the expenditure required to settle the obligation at the balance sheet date, and are discounted to present value where the effect is material.

Post-retirement benefits

Pensions and similar benefits (principally healthcare) are accounted for under IAS19 *Employee Benefits*. For defined benefit plans, obligations are measured at discounted present value whilst plan assets are recorded at fair value. Surpluses in schemes are recognised as assets only if they represent economic benefits available to the Company in the future. A liability is recognised to the extent that the minimum funding requirements in respect of past service will give rise to an unrecognisable surplus.

The service and financing costs of such plans are recognised separately in the income statement, service costs are spread systematically over the lives of employees and financing costs are recognised in the periods in which they arise

Actuarial gains and losses and movements in unrecognised surpluses and minimum funding liabilities are recognised immediately in OCI

Payments to defined contribution schemes are charged as an expense as they fall due

Share-based payments

The Company participates in Rolls-Royce Holdings pic employee share-based payment arrangements. These are equity-settled arrangements and are measured at fair value (excluding the effect of non-market based vesting conditions) at the date of grant. The fair value is expensed on a straight-line basis over the vesting period, based on the Company's estimate of shares or options that will eventually vest. The costs of these share-based payments are treated as a capital contribution from the parent company. Any payments made by the Company to its parent company in respect of these arrangements, are treated as a return of this capital contribution.

The fair values of the share-based payment arrangements are measured as follows

- i) ShareSave using the binomial pricing method
- 11) Performance Share Plan using a pricing model adjusted to reflect non-entitlement to dividends (or equivalent) and the Total Shareholder Return market based condition,
- 111) Annual performance Related Award plan and free shares under the Share Incentive Plan share price on the date of the award See note 17 for further description of the share-based payment plans

2 Emoluments of directors

	2015		2014	
	Highest paid director £000	Other directors £000	Highest paid director £000	Other directors £000
Aggregate emoluments excluding deferred share plans	826	4,374	1 379	3 844
Aggregate amounts relating to deferred share plans	395	1,621	2,512	2 714
Aggregate value of Company contributions to Company defined contribution pensions schemes	<u>-</u>	203	42	391'
Accrued pension of highest paid director		_	-	=
Gains realised on exercise of share options ¹	· -	_	-	
			2015 Number	2014 Number
Number of directors with accruing retirement benefits				
Defined contribution schemes			2	2
Defined benefit schemes ²			1	1
Number of directors exercising share options			_	_
Number of directors receiving shares as part of long term incentives schemes			3	4

Includes gains under the ShareSave plan

Includes gains under the snaresave plan
 One director was a contributing member of both defined contribution and defined benefit schemes (2014 one director)
 There has been an adjustment to the defined pension contributions over 2014 to allow for the 2014 Employer True Up Match contribution paid in March 2015 of £42 000

3 Intangible assets

	Development costs £m	Contractual aftermarket rights (CARs) £m	Certification costs and participation fees £m	Software and other £m	Total £m
Cost					
At 1 January 2015	959¹	1,820	946	635¹	4,360
Additions	36	340	46	89	511
Disposals	-	-	-	(4)	(4)
At 31 December 2015	995	2,160	992	720	4,867
Accumulated amortisation At 1 January 2015 Charge for the year	365 55	796 134	297 56	280 66	1,738 311
At 1 January 2015				66	311 (50)
At 1 January 2015 Charge for the year	55	134	56	66	311
At 1 January 2015 Charge for the year Reversal of impairment	55	134 (50)	56 -	66	311 (50) (1)
At 1 January 2015 Charge for the year Reversal of impairment Disposals	55	134 (50)	56 - -	66 - (1)	311 (50)
At 1 January 2015 Charge for the year Reversal of impairment Disposals At 31 December 2015	55	134 (50)	56 - -	66 - (1)	311 (50) (1)

¹ Development costs include £9m which had previously been presented as other intangible assets and were reclassified on transition to FRS 101

During the year, following analysis of the first major overhauls of the Trent 1000 engines the recoverable amount of certain contractual aftermarket rights have been reassessed. This analysis demonstrated that the aftermarket cash flows from the engines were better than originally assumed, arising from both operational and contractual performance improvements. As a result of this analysis, the value in use (based on a pre-tax discount rate of 9%) has increased to around £140 million, exceeding the unimpaired carrying value of £72 million Accordingly, cumulative impairments prior to 2015 of £50 million have been reversed. This reversal is included in cost of sales

4 Property, plant and equipment

	Land and buildings	Plant and equipment	Aircraft and engines	In course of construction	Total
<u></u>	£m	£m	£m	£m	£m
Cost or valuation					
At 1 January 2015	559	1,753	70	337	2,719
Additions	32	56	11	133	232
Reclassifications	30	144	4	(178)	
Transferred from Assets held for resale	<u> </u>		(4)		(4)
Disposals	(16)	(56)	-	-	(72)
At 31 December 2015	605	1,897	81	292	2,875
Accumulated depreciation					
At 1 January 2015	193	1,145	33	_	1,371
Charge for the year	20	140	10		170
Reclassifications			4	-	4
Transferred from 'Assets held for resale			(3)	-	(3)
Disposals	(6)	(50)	-	-	(56)
At 31 December 2015	207	1,235	44	-	1,486
Net book value					
At 31 December 2015	398	662	37	292	1,389
At 1 January 2015	366	608	37	337	1,348
	 		<u> </u>	2015	2014
Tangible fixed assets include				£m	£m
Net book value of finance leased assets	- -			8 	9 68
Non-depreciable land					08
Land and buildings at cost or valuation comprise				454	397
Cost				151	162
Valuation at 31 December 1996				605	559
On an historical cost basis the net book value of land and buildings woul	d have been as follows			803	223
Cost				580	533
Depreciation				(194)	(189)
				386	344
Capital expenditure commitments				72	71

5 Investments

	Subsidiary undertakings ⁱ	Joint ventures and associates			Other investments
	Shares at cost? £m	Shares at cost £m	Loans £m	Total £m	
At 1 January 2015	1,724	36	36	72	
Additions	26		6	6	3
Disposal	(12)	_	-	-	_
Impairment ³	(308)		_	_	(2)
At 31 December 2015	1,430²	36	42	78	1

The subsidiary and joint venture undertakings are listed on pages 143 to 149
 The Company has guaranteed the uncalled share capital of Nightingale Insurance Limited one of its subsidiaries. At 31 December 2015, this guarantee was £25 million (2014 £25 million).
 The impairment in the year relates to subsidiary undertakings where the carrying value was found to be less than the recoverable amount of the investment.

6 Inventories

	2015 £m	2014 £m
Raw materials	65	58
Work in progress	363	378
Long term contracts work in progress	1	_
Finished goods	782	793
Payments on account	7	8
	1,218	1,237

7 Trade and other receivables

<u> </u>	Current		Non-current		Total	
	2015 £m	2014 £m	2015 £m	2014 £m	2015 £m	2014 £m
Trade debtors	344	379			344	379
Amounts recoverable on contracts	6	12	189	115	195	127
Amounts owed by - subsidiary undertakings	3,042	3 646	-	_	3,042	3,646
-joint ventures	235	293	_	_	235	293
– parent undertaking	2,196	1,311			2,196	1,311
Other debtors	668	431	10	2	678	433
Prepayments and accrued income	88	69	43	50	131	119
	6,579	6,141	242	167	6,821	6 308

8 Cash and cash equivalents

	2015 £m	2014 £m
Cash at bank and in hand	28	
Money-market funds	739	662
Short-term deposits	1,655	1 279
	2,422	1,941

9 Other financial assets and liabilities

Details of the Company's policies on the use of financial instruments are given in the accounting policies on page 125. The fair values of other financial instruments held by the Company are as follows.

	Foreign exchange contracts £m	Commodity contracts £m	Interest rate contracts £m	Derivative financial Instruments £m	Financial RRSAs £m	Total £m
At 31 December 2015						
Current assets	137			137	_	137
Non current assets	43	-	80	123	_	123
Current liabilities	(252)	(37)	_	(289)	(33)	(322)
Non current habilities	(1,429)	(65)	(67)	(1,561)	(118)	(1,679)
	(1,501)	(102)	13	(1,590)	(151)	(1,741)
At 31 December 2014						
Current assets	103	-	=	103		103
Non-current assets	59	_	78	137	_	137
Current liabilities	(156)	(20)	_	(176)	(42)	(218)
Non current liabilities	(545)	(23)	(27)	(595)	(158)	(753)
	(539)	(43)	51	(531)	(200)	(731)

9 Other financial assets and liabilities continued

DERIVATIVE FINANCIAL INSTRUMENTS

The Company uses various financial instruments to manage its exposure to movements in foreign exchange rates. The Company uses commodity swaps to manage its exposure to movements in the price of commodities (jet fuel and base metals). To hedge the currency risk associated with a borrowing denominated in US dollars, the Company has currency derivatives designated as part of a fair value hedge. The Company uses interest rate swaps, forward rate agreements and interest rate caps to manage its exposure to movements in interest rates. Where the effectiveness of the hedge relationship in a cash flow hedge is demonstrated, changes in the fair value that are deemed effective are included in the hedging reserve and released to match actual payments on the hedged item.

Movements in the fair values of derivative financial instruments were as follows

	Foreign exchange instruments	Commodity instruments	Interest rate instruments	Total
	£m	£m	£m	£m
At 1 January 2014	497	(39)	(6)	452
Movements in fair value hedges ¹	3		57	60
Movements in other derivative contracts	(888)	(15)	_	(903)
Contracts settled	(151)	11		(140)
At 1 January 2015	(539)	(43)	51	(531)
Currency options at inception	(20)	-	_	(20)
Movements in fair value hedges ¹	1	_	(36)	(35)
Movements in other derivative contracts	(1,016)	(88)	-	(1,104)
Contracts settled	73	29	(2)	100
At 31 December 2015	(1,501)	(102)	13	(1,590)

¹ Gain on related hedged items £35m (2014 £60m loss)

Where applicable, market values have been used to determine fair values. Where market values are not available, fair values have been calculated by discounting expected future cash flows at prevailing interest rates and translating at prevailing exchange rates.

FINANCIAL RISK AND REVENUE SHARING ARRANGEMENTS (RRSAS)

The Company has financial liabilities arising from financial RRSAs. These financial habilities are valued at each reporting date using the amortised cost method. This involves calculating the present value of the forecast cash flows of the arrangements using the internal rate of return at the inception of the arrangements as the discount rate.

The amortised cost values of financial RRSAs were as follows

	2015 £m	2014 £m
At 1 January	(200)	(227)
Cash paid to partners	42	41
Financing charge	(11)	(12)
Exchange adjustments	(3)	(8)
Changes in forecast payments	21	6
At 31 December	(151)	(200)

10 Borrowings

	Сит	Current		Non-current	
	2015 £m	2014 £m	2015 £m	2014 £m	
Unsecured					
Overdrafts	<u> </u>	1,045			
Bank loans	114		243	200	
7 375% Notes 2016 £200m	200	-	_	200	
6 55% Notes 2015 US\$83m1		55	_		
6 75% Notes 2019 £500m³			536	547	
2 375% Notes 2020 US\$500m1			333		
2 125% Notes 2021 €750m¹		_	576	615	
3 625% Notes 2025 US\$1 000m ¹		_	668		
3 375% Notes 2026 £375m²	_	-	390	395	
	314	1 100	2,746	1 957	
Repayable – otherwise than by instalments					
Between one and two years				200	
Between two and five years			1,069	747	
After five years	·		1,677	1,010	
		•	2,746	1 957	

¹ These notes are the subject of interest rate swap agreements under which the Company has undertaken to pay floating rates of interest, and currency swaps which form a fair value hedge. These notes are the subject of interest rate swap agreements under which the Company has undertaken to pay floating rates of interest which form a fair value hedge.

11 Trade and other payables

	Curi	Current		Non current	
	2015 £m	2014 £m	2015 £m	2014 £m	
Payments received on account ¹	746	386	462	778	
Trade creditors	697	622	_	_	
Amounts owed to - subsidiary undertakings	3,910	4,053	=	_	
– joint ventures	193	230	2	4	
– parent undertaking	28				
Corporate taxation	95	82	-	_	
Other taxation and social security	30	35	_	_	
Other creditors	1,193	1 128	227	305	
Accruals and deferred income	1,044	1 029	520	410	
	7,936	7565	1,211	1 497	
1 Includes payments received from joint ventures	79	73	35	99	

12 Provisions for liabilities and charges

•	At 31 December 2014 £m	Transfers in £m	Unused amounts reversed £m	Charged to profit and loss account £m	Utilised £m	At 31 December 2015 £m
Warranties and guarantees	28	_	(8)	8	(5)	23
Contract loss	11	-	-	(2)	_	9
Customer financing	45	_	(27)	11	(10)	19
Restructuring	66		(12)	11	(36)	29
Other	24	3		(11)	(7)	9
	174	3	(47)	17	(58)	89
Current liabilities	96					57
Non-current liabilities	78					32

Provisions for warranties and guarantees primarily relate to products sold and generally cover a period of up to three years

Provisions for contract loss and restructuring are generally expected to be utilised within two years

Customer financing provisions cover guarantees provided for asset values and/or financing as described in note 19 Timing of utilisation ıs uncertain

13 Deferred taxation

	£m
At 1 January 2015	(479)
Amount credited to income statement	90
Amount credited to statement of comprehensive income	273
Amount charged to equity	(5)
At 31 December 2015	(121)

The analysis of the deferred tax position is as follows

	2015 £m	2014 £m
Fixed asset timing differences	(67)	(76)
Other temporary differences	(330)	(321)
Pensions and other post-retirement scheme benefits	(365)	(604)
Foreign exchange and commodity financial assets and liabilities	306	135
Losses	320	373
Advance corporation tax	-	_
Research and development expenditure credit withholding tax	15	14
	(121)	(479)

There are other deferred tax assets totalling £162m (2014 £162m) that have not been recognised on the basis that their future economic benefit is uncertain

The Summer budget 2015 announced that the UK corporation tax rate will reduce to 19% from 1 April 2017 and will reduce further to 18% from 1 April 2020. These reductions were substantively enacted on 26 October 2015. As the reduction to 18% was substantively enacted prior to the year end, the closing deferred tax hability has been calculated at this rate. In 2015, £23m has been charged to the income statement and £3m has been charged directly to equity.

The temporary differences associated with investments in subsidiaries, joint ventures and associates, for which a deferred tax liability has not been recognised, aggregate to £347m (2014 £512m). No deferred tax liability has been recognised on the potential withholding tax due to the remittance of undistributed profits as the Company is able to control the timing of such remittances and it is probable that consent will not be given in the foreseeable future.

14 Post-retirement benefits

The defined benefit schemes' assets are held in separate trustee administered funds and employees are entitled to retirement benefits based on either their final or career average salaries and length of service

The valuations of the defined benefit schemes are based on the most recent funding valuations, updated by the scheme actuaries to 31 December 2015. The most recent funding valuations of the main schemes were

Scheme	Valuation date
Rolls-Royce Pension Fund	31 March 2015
Rolls-Royce Group Pension Scheme	5 April 2013
Vickers Group Pension Scheme	31 March 2013

The principal actuarial assumptions used at the balance sheet date were as follows

	2015 £m	2014 £m
Discount rate	3 6%	3 6%
RPI inflation assumption	3 2%	3 2%
Rate of increase in salaries	4 0%	4 2%
Male life expectancy from age 65 – current pensioner	22 8 years	22 5 years
- future pensioner currently aged 45	24 8 years	24 2 years

¹ The Consumer Price Index is assumed to be 1.1% lower

14 Post-retirement benefits continued

The discount rates are determined by reference to the market yields on AA rated corporate bonds. The rate is determined by using the profile of forecast benefit payments to derive a weighted average discount rate from the yield curve. The discount rate above is the weighted average of the rate for each scheme, based on the value of their respective liabilities.

The mortality assumptions adopted for the UK pension schemes are derived from the SAP actuarial tables, with future improvements in line with the CMI 2015 core projections and long-term improvements of 15%. Where appropriate, these are adjusted to take account of the relevant scheme's actual experience. The resulting range of life expectancies in the principal schemes are shown in the table above.

Other demographic assumptions have been set on advice from the relevant actuary, having regard to the latest trends in scheme experience and other relevant data. The assumptions are reviewed and updated as necessary as part of the periodic actuarial valuation of the schemes.

Amounts recognised in the balance sheet	2015 £m	2014 £m
Present value of funded obligations	(10,802)	(10 505)
Fair value of scheme assets	11,839	12 232
Net asset recognised in the balance sheet	1,037	1,727
Analysed as		
Post retirement scheme surpluses	1,052	1 727
Post retirement scheme deficits	(15)	
	1.037	1,727

Where a surplus has arisen on a scheme in accordance with IAS 19 Employee benefits the surplus is recognised as an asset only if it represents an unconditional economic benefit available to the Company in the future. Any surplus in excess of this benefit is not recognised in the balance sheet.

Changes in present value of defined benefit obligations	2015 £m	2014 £m
At 1 January	(10,505)	(8 970)
Current service cost	(154)	(141)
Past-service cost	16	18
Finance cost	(371)	(388)
Contributions by employees	(3)	(3)
Benefits paid out	415	375
Actuarial losses	(200)	(1 406)
Disposal of business		10
At 31 December	(10,802)	(10,505)
Active participants	(4,182)	(4 073)
Deferred plan participants	(1,940)	(2,007)
Pensioners	(4,681)	(4 424)
Weighted average duration of obligations (years)	17	17

Changes in fair value of scheme assets	2015 £m	2014 £m
At 1 January	12,232	9 698
Administrative expenses	(5)	(5)
Financing	436	423
Return on plan assets excluding financing	(589)	2 241
Contributions by employer	177	247
Contributions by employees	3	3
Benefits paid out	(415)	(375)
At 31 December	11,839	12,232
Actual return on plan assets	(153)	2 664

14 Post-retirement benefits continued

The fair value of the scheme assets and the expected rates of return at 31 December were as follows

	2015 £m	2014 £m
Sovereign debt	7,283	7,282
Derivatives on sovereign debt	(5)	(2 622)
Corporate debt instruments	1,977	2,053
Interest rate swaps	1,868	4 218
Inflation swaps	(477)	(360)
Cash and similar instruments	117	193
LDI portfolio ³	10,763	10,764
Longevity swap ²	(142)	10
Listed equities	788	767
Equities	232	216
Sovereign debt	42	41
Cash	67	160
Other	89	274
	11,839	12 232

² A portfolio of gilt and swap contracts (backed by LIBOR generating assets) that is designed to hedge the majority of the interest rate and inflation risks associated.

The scheme assets do not include any financial instruments of the Rolls-Royce Holdings plc group, nor any property occupied by, or other assets used by the group

Future contributions

The Company expects to contribute approximately £170m to its defined benefit schemes in 2016

The investment strategies are designed to hedge the risks from interest rates and inflation on an economic basis. The impacts of the principal sensitivities are

	2015 £m	2014 £m
Defined benefit obligations – 0 25% reduction in discount rate ¹	(517)	(466)
Defined benefit assets – 0 25% reduction in interest rates ¹	561	586
Defined benefit obligations – 0 25% increase in inflation	(245)	(234)
Defined benefit assets – 0 25% increase in inflation	225	204
Defined benefit obligations – 0 25% increase in rate of increase in salaries	(87)	(86)
Defined benefit obligations – longevity increases by one year	(305)	(247)

¹ The difference between the sensitivities on obligations and plan assets arises largely due to differences in the methods used to value the obligations for accounting and economic purposes. On an economic basis the correlation is approximately 97% for discount rates and 89% for inflation.

DEFINED CONTRIBUTION SCHEMES

The Company operates a number of defined contribution schemes. The total expense recognised in the income statement was £26m (2014 £25m)

15 Share capital

	Equity ordinary shares of 20p each Millions	Nominal value £m
Authorised		
At 1 January and 31 December 2015	2,000	400
Issued and fully paid		
At 1 January and 31 December 2015	1,631	326

with the schemes obligations

1 Under the longevity swap the scheme has agreed an average life expectancy with a counterparty if pensioners live longer than expected the counterparty will make payments to the scheme to offset the additional cost of paying pensions if the reverse applies the cost of paying pensions will be reduced but the scheme will be required to make payments to the counterparty.

16 Operating lease annual commitments

	2015 £m	2014 £m
Leases of land and buildings which expire		
Within one year	1	-
Between one and five years	6	2
After five years	4	10
Other leases which expire		
Within one year	1	1
Between one and five years	3	3
After five years	-	

17 Share-based payments

EFFECT OF SHARE-BASED PAYMENT TRANSACTIONS ON THE COMPANY'S RESULTS

	2015 £m	2014 £m
Total expense recognised for equity-settled share based payment transactions	7	18

SHARE-BASED PAYMENT PLANS IN OPERATION DURING THE YEAR

During the year, the Company participated in the following share-based payment plans operated by Rolls-Royce Holdings plc

Performance Share Plan (PSP)

This plan involves the award of shares to participants subject to performance conditions. Vesting of the performance shares is based on the achievement of both non-market based conditions (EPS and cash flow per share) and a market based performance condition (Total Shareholder Return – TSR) over a three year period

ShareSave share option plan

Based on a three or five year monthly savings contract, eligible employees are granted share options with an exercise price of up to 20% below the share price when the contract is entered into. Vesting of the options is not subject to the achievement of a performance target. The plan is HM Revenue & Customs approved.

Executive Share Option Plan (ESOP)

This plan involved the grant of market value share options to participants. It terminated in 2009 and no further grants may be made. Remaining options under the plan are subject to a non-market based performance condition (growth in EPS) and have a maximum contractual life of ten years.

Annual Performance Related Award (APRA) plan deferred shares

A proportion of the APRA annual incentive scheme is delivered in the form of a deferred share award. The release of deferred share awards is not dependent on the achievement of any further performance conditions other than that participants remain employed by the Company for two years from the date of the award in order to retain the full number of shares. During the two year deferral period, participants are entitled to receive dividends, or equivalent, on the deferred shares.

MOVEMENTS IN THE COMPANY'S SHARE-BASED PAYMENT PLANS DURING THE YEAR

	Number Millions	ShareSave Weighted average exercise price Pence		PSP Number Millions	APRA Number Millions
Outstanding at 1 January 2014	157	646p		6.8	18
Granted	_	_		17	07
Additional entitlements arising from TSR perfromance				0 4	
Forfeited	(0 5)	757p		(0.7)	(0 1)
Exercised	(0 2)	469p	-	(2 4)	(10)
Outstanding at 1 January 2015	150	646p		5 8	14
Granted	8 2	617p		18	
Additional entitlements arising from TSR perfromance	_	_		0 4	
Additional shares accrued from reinvestment of C Shares	-	_			
Forfeited	(3 1)	929p		(1 6)	(0 1)
Exercised	(6 1)	436p	<u> </u>	(10)	(0 8)
Outstanding at 31 December 2015	14 0	656p		5 4	0.5

17 Share-based payments continued

As share options are exercised throughout the year, the weighted average share price during the year of **820p** (2014 1013p) is representative of the weighted average share price at the date of exercise. The closing price at 31 December 2015 was **575p**, (2014 870p)

There were no exercisable options as at 31 December 2015

FAIR VALUES OF SHARE-BASED PAYMENT PLANS

The weighted average fair values per share of equity-settled share-based payment plans granted during the year, estimated at the date of grant are as follows

	2015 £m	2014 £m
PSP – 25% TSR uplift	1,015p	1105p
PSP – 50% TSR uplift	1,036p	1227p
ShareSave – 3 year grant	192p	n/a
ShareSave - 5 year grant	219p	n/a
APRA	n/a	984p

Expected volatility is based on the historical volatility of Rolls-Royce Holdings plc's share price over the seven years prior to the grant or award date. Expected dividends are based on Rolls-Royce Holdings plc's payments to shareholders in respect of the previous year.

PSP

The fair value of shares awarded under the PSP is calculated using a pricing model that takes account of the non-entitlement to dividends (or equivalent) during the vesting period and the market-based performance condition based on expectations about volatility and the correlation of share price returns in the group of FTSE 100 companies and which incorporates into the valuation the interdependency between share price performance and TSR vesting. This adjustment increases the fair value of the award relative to the share price at the date of grant.

ShareSave

The fair value of the options granted under the ShareSave plan is calculated using a binomial pricing model that assumes that participants will exercise their options at the beginning of the six month window if the share price is greater than the exercise price. Otherwise it assumes that options are held until the expiration of their contractual term. This results in an expected life that falls somewhere between the start and end of the exercise window.

APRA

The fair value of shares awarded under APRA is calculated as the share price on the date of the award, excluding expected dividends (or equivalent)

18 Transition to FRS 101 Reduced Disclosure Framework

As stated in note 1, the Company adopted FRS 101 *Reduced Disclosure Framework* from 1 January 2015, and restated its financial statements for the year ending 31 December 2014, which were previously reported under the prevailing relevant UK GAAP

The main changes arising as a result of adopting FRS 101 are

- recognition of intangible assets, whereby certain qualifying costs, in particular related to research and development and contractual aftermarket rights, which were written off under UK GAAP, are required to be recognised and amortised on a systematic basis,
- due to the recognition of development costs as an intangible asset, cash received from risk and revenue sharing agreements has been carried forward to match the amortisation of the intangible asset, and
- the longevity swap is valued at fair value rather than an actuarial basis and the basis for recognition of a surplus in a pension scheme differs in IAS 19, compared with the previous basis

Details of the adjustments made in adopting FRS 101 are provided below Reconciliations for the 2014 restated opening and closing balance sheets are provided on pages 140 and 141

18 Transition to FRS 101 Reduced Disclosure Framework continued RESEARCH AND DEVELOPMENT

IAS 38 Intangible Assets requires that all development costs meeting specified criteria be capitalised as intangible assets

Under previous UK GAAP internally generated development costs were expensed as incurred. As part of the transition to FRS 101, costs relating to development projects which meet strict capitalisation criteria, relating in particular to technical feasibility and generation of future economic benefits, have been recognised.

The Company considers that it is not possible to distinguish reliably between research and development activities until relatively late in the programme

Development costs capitalised are amortised on a straight-line basis over a period not exceeding 15 years. The impact arising from this change is summarised as

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Income statement		
Capitalisation of internal expenditure		67
Amortisation of intangible asset		(42)
Adjustment to loss before taxation		25
Net assets		
Intangible asset – cost	883	959
Intangible asset – accumulated amortisation	(323)	(365)
	560	594
Related taxation effect	(112)	(117)
Adjustment to net assets	448	477

OTHER INTANGIBLE ASSETS

The testing process of a fleet leader engine requires that the engine is stripped and rebuilt many times. The testing process provides data on the performance and reliability of the engine. Costs relating to the strip and rebuild process have historically been expensed, but as part of the transition to FRS 101, costs which meet strict capitalisation criteria, relating in particular to technical feasibility and generation of future economic benefits, have been recognised.

Development costs capitalised are amortised on a straight-line basis over a period not exceeding 15 years. The impact arising from this change is summarised as

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Income statement		
Capitalisation of internal expenditure		30
Amortisation of intangible asset		(5)
Adjustment to loss before taxation		25
Net assets		
Intangible asset – cost	57	87
Intangible asset – accumulated amortisation	(20)	(25)
	37	62
Related taxation effect	(7)	(12)
Adjustment to net assets	30	50

18 Transition to FRS 101 Reduced Disclosure Framework continued CONTRACTUAL AFTERMARKET RIGHTS (CARS)

The Company may sell original equipment to customers at a price below its cost, on the basis that this deficit will be recovered from future aftermarket sales to the original customer or to other group companies. Where the Company has a contractual right to supply aftermarket parts to the customer and its intellectual rights, warranty arrangements and statutory airworthiness requirements provide reasonable control over this supply these arrangements are considered to meet the definition of an intangible asset under IAS 38 intangible Assets. Under UK GAAP, the associated revenue and costs of sale were recognised in the income statement as they arose. Under IAS 38 an intangible asset is recognised at the same time as the sale is made, with an amount equal to the cash deficit capitalised in the Company and amortised on a straight-line basis over the period that highly probable aftermarket sales to other group companies are expected to be earned.

Under UK GAAP an adjustment was made for a contract to a joint venture customer, where the OE was sold to the customer at a deficit but the aftermarket sales were on a time and materials basis. As it was deemed that there was sufficient control over the supply of the engines to the customer, the amount by which recorded turnover of long-term contracts was in excess of payments on account was classified as 'amounts recoverable on contracts' and was separately disclosed within debtors. On transition to FRS 101, the adjustment has been reversed and the deficit recognised as a CAR, with the appropriate amortisation applied.

The impact arising from this change is summarised as follows

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Income statement		
Capitalisation of internal expenditure		264
Amortisation of intangible asset	_	(109)
Elimination of related debtor balance previously recognised under UK GAAP		7
Adjustment to loss before taxation		162
Net assets		
Intangible asset – cost	1 556	1 820
Intangible asset – accumulated amortisation	(687)	(796)
	869	1 024
Elimination of related 'armounts recoverable on contracts' balance previously recognised under UK GAAP	(75)	(68)
	794	956
Related taxation effect	(159)	(191)
Adjustment to net assets	635	765

RISK AND REVENUE SHARING ARRANGEMENTS (RRSAS)

The Company enters into arrangements with certain workshare partners under which these suppliers (i) contribute to the forecast costs of developing an engine, and (ii) supply components for the production phase for which they receive consideration, which is an agreed proportion of the total programme revenues. Cash sums received are recognised in the income statement to match the expensing of the Company's related costs — where the cash sums are received in advance of the related costs being expensed or where the related costs are capitalised as intangible assets, the recognition of the cash received is deferred to match the recognition of the related expense or the amortisation of the related intangible asset respectively. The payments to suppliers of their shares of the programme revenues for their production components are charged to the income statement as programme revenues arise.

Under FRS 101, certain development costs previously written off to the income statement now meet the criteria for capitalisation as an intangible asset. Where cash sums have been received in relation to such costs an adjustment has been made to defer the costs and match them to the amortisation of the intangible asset.

18 Transition to FRS 101 Reduced Disclosure Framework continued

The impact arising from this change is summarised as follows

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Income statement	-	
Adjustments to research and development costs		(13)
Adjustment to loss before taxation		(13)
Net assets		
Other creditors falling due within one year	15	5
Other creditors falling due after one year	(95)	(98)
	(80)	(93)
Related taxation effect	16	19
Adjustment to net assets	(64)	(74)

POST-RETIREMENT BENEFITS

On transition to FRS 101 the longevity swap held in the Rolls-Royce Pension Fund is treated as a stand-alone financial instrument and in accordance with IAS 19 is valued at fair value. An adjustment has been made to restate the previous valuation under UK GAAP to fair value. The bases of recognising surpluses on pension funds differs between UK GAAP and IAS 19. Accordingly, an adjustment has been made to reflect the surplus in line with the requirements of IAS 19.

The impact arising from this change is summarised as follows

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Income statement		
Adjustments to operating loss		(5)
Adjustments to financing costs		19
Adjustment to loss before taxation		14
Net assets		
Post retirement scheme – surpluses	(221)	428
	(221)	428
Related taxation effect	7	(344)
Adjustment to net assets	(214)	84

INCOME TAXES

The net deferred tax impact of the changes above is shown as part of the relevant adjustment

In addition, under IAS 12 *Income Taxes* certain temporary differences, for example in respect of fixed assets, which previously were not recognised under UK GAAP, will be recognised

The impact arising from this change is summarised as follows

	At 1 January 2014 £m	Year ended 31 December 2014 £m
Net assets		
Changes to deferred tax charge resulting from differences in the basis of calculation	1	(15)
Adjustment to net assets	1	(15)

18 Transition to FRS 101 Reduced Disclosure Framework continued

Restatement of net assets and equity at 1 January 2014

	UK GAAP as previously reported £m	Development costs £m	Other intangible assets £m	Contractual Aftermarket Rights £m	Risk and Revenue Sharing Agreements £m	Post retirement benefits £m	Tax £m	Restated in accordance with FRS 101 £m
Fixed assets								
Intangible assets	872	560	37	869	-			2 338
Tangible assets	1,270		_					1,270
Investments – subsidiary undertakings	1,749		-				_	1,749
- joint ventures	70							70
- other						(222)		
Post retirement schemes – surpluses	415		-			(221)		194
	4 376		37	869		(221)	_	5,621
Current assets								_
Stocks	1 237							1,237
Debtors								
– amounts falling due within one year	3,447		_	_		_		3 447
– amounts falling due after one year	392	(112)	(7)	(234)	16	7	122	184
Other financial assets								
– amounts falling due within one year	. 83		_	_		-		83
– amounts falling due after one year	687	_		_	_		-	687
Short-term deposits	1 973			_			-	1,973
Cash at bank and in hand	1,237			_		_		1 237
Assets held for resale	2	_	_	-		_		2
	9,058	(112)	(7)	(234)	16	7	122	8 850
- amounts falling due within one year Borrowings Other financial liabilities Other creditors	(805) (142) (6,940) (7887)			- - -				(805) (142) (6 925) (7,872)
Net current assets	1 254	(112)	(7)	(234)	31	(76)	122	978
Total assets less current habilities	5 547	448	30	635	31	(214)	122	6,599
Creditors — amounts falling due after one year								
Borrowings	(1 951)							(1,951)
Other financial liabilities	(403)			_				(403)
Other creditors	(1,130)		_		(95)		(121)	(1 346)
	(3 484)			-	(95)		(121)	(3,700)
Provisions for liabilities and charges	(140)			· · · · · ·				(140)
Net assets	1,923	448	30	635	(64)	(214)	1	2 759
Capital and reserves								
Called-up share capital	326	-	_			_		326
Share premium account	631		_		_	_	_	631
Revaluation reserve	26			_	_		_	26
Other reserves	167		_			_		167
Profit and loss account	773	448	30	635	(64)	(214)		1 609
rione and ioss account								

18 Transition to FRS 101 Reduced Disclosure Framework continued

Restatement of net assets and equity at 31 December 2014

	UK GAAP as previously reported £m	Development costs £m	Other intangible assets £m	Contractual Aftermarket Rights £m	Risk and Revenue Sharing Agreements £m	Post retirement benefits £m	Tax £m	Restated in accordance with FRS 101 £m
Fixed assets								
Intangible assets	951	585	62	1 024	_	-	_	2,622
Tangible assets	1,348		_	_				1 348
Investments - subsidiary undertakings	1 724			-		=	-	1 724
- joint ventures	72	_	_		_		_	72
– other	_							-
Post retirement schemes – surpluses	1,299	_	_	=		428	-	1 727
	5 394	585	62	1 024	_	428		7,493
Current assets				-				
Stocks	1 237	-		-		-	-	1 237
Debtors								
- amounts falling due within one year	6,141	_	_	_	_	_	_	6,141
- amounts falling due after one year	416	(117)	(12)	(259)	19	(344)	464	167
Other financial assets		<u>-</u>		_ 				
- amounts falling due within one year	103	-	_	_	_	-	_	103
- amounts falling due after one year	137	_	_	_	_	_	_	137
Short-term deposits	1,279	-	_	_				1 279
Cash at bank and in hand	662	_	_	-			_	662
Assets held for resale	_				_	_	_	_
	9975	(117)	(12)	(259)	19	(344)	464	9 726
Creditors - amounts falling due within one year Borrowings Other financial liabilities	(1,100) (218)	<u>-</u>	 -	-	_ 	-	-	(1 100) (218)
Other creditors	(7 570)	_	-		5	_		(7,565)
	(8,888)				5	_	_	(8 883)
Net current assets	1,347	(117)	(12)	(259)	24	(604)	464	843
Total assets less current liabilities	6,481	468	50	765	24	84	464	8 336
Creditors - amounts falling due after one year								
Borrowings	(1,957)	_	_	_				(1,957)
Other financial liabilities	(753)							(753)
Other creditors	(1,399)				(98)		(479)	(1 976)
	(4,109)			-	(98)		(479)	(4,686)
Provisions for liabilities and charges	(174)							(174)
Net assets	2,198	468	50	765	(74)	84	(15)	3 476
Capital and reserves							-	
Called-up share capital	326	_	_		_	_	-	326
Share premium account	631	_	_		_			631
Revaluation reserve	21					<u>-</u>		21
Other reserves	167	_		_	_	<u> </u>	_	167
Profit and loss account	1,053	468	50	765	(74)	84	(15)	2 331
Total shareholders' funds	2 198	468	50	765	(74)	84	(15)	3,476

19 Contingent liabilities

In connection with the sale of its products the Company will, on some occasions, provide financing support for its customers. The Company's contingent liabilities relating to financing arrangements are spread over many years and relate to a number of customers and a broad product portfolio.

Contingent liabilities are disclosed on a discounted basis. As the directors consider the likelihood of these contingent liabilities crystallising to be remote, this amount does not represent a value that is expected to crystallise. However, the amounts are discounted at the Company's borrowing rate to reflect better the time span over which these exposures could arise. The contingent liabilities are denominated in US dollars. As the Company does not adopt cash flow hedge accounting for forecast foreign exchange transactions, this amount is reported together with the sterling equivalent at the reporting date spot rate.

The discounted value of the total gross contingent liabilities relating to financing arrangements on all delivered aircraft less insurance arrangements and relevant provisions were

• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		2014	
	£m	\$m	£m	\$m
Gross contingent liabilities	269	399	388	605
Value of security ¹	(136)	(201)	(245)	(382)
Indemnities	(79)	(118)	(84)	(132)
Net commitments	54	80	59	91
Net commitments with security reduced by 20%2	78	115	90	140
¹ Security includes cash collateral of	35	52	42	66

² Although sensitivity calculations are complex the reduction of the relevant security by 20% illustrates the sensitivity of the contingent liability to this assumption

In connection with the sale of its products the Company will, on some occasions, provide financing support for its customers – generally in respect of civil aircraft. The Company's commitments relating to these financing arrangements are spread over many years, relate to a number of customers and a broad product portfolio and are generally secured on the asset subject to the financing. These include commitments of US\$3 1bn to provide borrowing facilities to enable customers to purchase aircraft (of which approximately US\$322m could be called in 2016). These facilities may only be used if the customer is unable to obtain financing elsewhere and are priced at a premium to the market rate. Consequently the directors do not consider that there is a significant exposure arising from the provision of these facilities.

Contingent habilities exist in respect of guarantees provided by the Company in the ordinary course of business for product delivery, performance and reliability. The Company has, in the normal course of business, entered into arrangements in respect of export finance, performance bonds, countertrade obligations and minor miscellaneous items. The Company is party to legal actions and claims which arise in the ordinary course of business, some of which are for substantial amounts. As a consequence of the insolvency of an insurer as previously reported, the Company is no longer fully insured against known and potential claims from employees who worked for certain of the Company's UK based businesses for a period prior to the acquisition of those businesses by the Company. While the outcome of some of these matters cannot precisely be foreseen, the directors do not expect any of these arrangements. legal actions or claims, after allowing for provisions already made, to result in significant loss to the Company.

Where the Company enters into financial guarantee contracts to guarantee the indebtedness of other companies within its group, the Company considers these to be insurance arrangements, and accounts for them as such. In this respect, the Company treats the guarantee contract as a contingent liability until such time as it becomes probable that the Company will be required to make a payment under the guarantee. At 31 December 2015, these guarantees amounted to £178m.

At 31 December 2015, there were Company guarantees in respect of joint ventures amounting to £9m (2014 £9m)

The Company participates in a Cash Pooling Arrangement. Under the Pooling Arrangement the Company benefits from more favourable interest rates than would be available outside of the Pooling Arrangement as well as more streamlined treasury functions. As part of the Pooling Arrangement, the Company cross-guarantees the borrowings of other pooling participants. At 31 December 2015 these guarantees amounted to £11m (2014 £8m)

20 Related party transactions

The Company is a wholly owned subsidiary of Rolls-Royce Group plc and therefore has taken advantage of the exemption in FRS 101 not to disclose related party transactions with its parent company and other wholly owned group companies

Included in sales of goods and services to joint ventures and associates are sales of spare engines amounting to £189m (2014 £138m). The aggregated balances with joint ventures are shown in notes 7 and 11

21 Ultimate holding company

The ultimate holding company is Rolls-Royce Holdings plc, incorporated in Great Britain. The financial statements for Rolls-Royce Holdings plc may be obtained from the Company Secretary, Rolls-Royce Holdings plc, 62 Buckingham Gate, London SW1E 6AT

SUBSIDIARIES

Company name	% held	Address
A FC Wultex Limited *	90	Derby¹
A PE - Allen Gears Limited *	100	Derby¹
Allen Power Engineering Limited *	100	Derby¹
Amalgamated Power Engineering Limited *	100	Derby¹
Bergen Engines AS	100	125 Hordvikneset, 5108 Hordvik Bergen 1201 Norway
Bergen Engines Bangladesh Private Limited	100	Plot n 58E, Kernal Ataturk Avenue, Dhaka 1213 Bangladesh
Bergen Engines BV	100	Werfdijk 2, 3195HV Pernis, Rotterdam, Netherlands
Bergen Engines Denmark A/S	100	23 Varftsvej 9000 Aalborg, Denmark
Bergen Engines India Private Limited	100	52 b Okhla Industrial Estate, Phase 3, New Delhi 110-020 India
Bergen Engines Limited	100	Derby ¹
Bergen Engines Property Co AS	100	125 Hordvikneset 5108 Hordvik Bergen, 1201, Norway
Bergen Engines S L.	100	Calle Dinamarca, 43120 Constanti, Tarragona, Spain
Bergen Engines S r l	100	13 Via Castel Morrone 16161 Genoa Italy
Bristol Energy Limited *	100	Derby¹
Bristal Siddeley Engines Limited *	100	Derby¹
Brooks Inspection Solutions Limited	100	Derby ¹
Brown Brothers & Company Limited *	100	Taxiway Hillend Industrial Estate Dalgety Bay, Dunfermline, Scotland, KY11 9JT
C A Parsons & Company Limited *	100	Derby 1
Composite Technology and Applications Limited	100	Derby¹
Crossley-Premier Engines (Sales) Limited *	100	
	-	Derby¹
Croydon Energy Limited *	100	Derby¹
Data Systems & Solutions LLC	100	5959 Shallowford Road, Chattanooga, TN 37421 USA
Deeside Titanium Limited *	82.5	Derby 1
Derby Cogeneration Limited *	100	Derby¹
Derby Specialist Fabrications Limited *	100	Derby 1
Europea Microfusioni Aerospaziali S p A	100	Zona Industriale AS1 83040 Morra De Sanctis Avellino, Italy
Exeter Power Limited *	100	Derby¹
Fluid Mechanics LLC	100	39525 MacKenzie Drive, Novi, Michigan 48377 USA
Gate Leasing Limited	100	London ²
Hartshill Ventures Limited	100	Derby¹
Heartlands Power Limited •	100	Derby ¹
Heaton Power Limited *	100	Derby ¹
John Hastie of Greenock (Holdings) Limited *	100	Derby¹
John Thompson Cochran Limited *	100	Taxiway Hillend Industrial Estate Dalgety Bay Dunfermline, Scotland KY11 9JT
John Thompson Limited *	100	Derby ¹
Kalvet Engineering (Proprietary) Limited *	100	Corner Marcony Rd and 3rd St Western Cape 7441, South Africa
Kamewa AB *	100	Box 1010, S-68129 Kristinehamn Sweden
Kamewa Do Brazil Equipmentos Maritimos Limitada *	100	401 Rua Visconde de Piraja 433, Rio de Janeiro Brazil
Kamewa Holding AB *	100	Box 1010, S-68129, Kristinehamn Sweden
Kamewa UK Limited *	100	Derby ¹
Karl Maybach-Hilfe GmbH	100	1 Maybachplatz, 88045 Friedrichshafen, Germany
LOrange Unterstutzungkasse GmbH	100	Harteckweg 9, 72293 Glatten, Germany
L'Orange Fuel Injection (Ningbo) Co Ltd	100	#3 South Qihang Rd 55, Yinzhou Economic Development Zone Ningbo City 315145, China
L'Orange Fuel Injection Trading (Suzhou) Co Ltd	100	#399 Suhong Middle Rd, Suzhou Industrial Park Suzhou 215000, China
L'Orange GmbH	100	30 Porschestrabe, 70435 Stuttgart, Germany
M.L. Limited	100	Derby ¹
MTU America Inc	100	39625 McKenzie Drive, Novi, MI 48377, USA
MTU Anlagenvermietung GmbH	100	1 Maybachplatz 88045 Friedrichshafen, Germany
MTU Asia PTE Limited	100	#05-01, Robinson Rd 112, 068902, Singapore
MTU Benelux BV	100	Merwedestraat 86, 3313 CS Dordrecht, Netherlands
MTU China Company Limited	100	1801–1803, 18/F Ascendas Plaza, No 333 Tian Yao Qiao Road Xuhai District Shanghai,
		200030, China
MTU Do Brazil Limitada	100	Via Anhanguera KM 29203 05276-000 Sao Paulo SP Brazil

Dormant Entity
 Moor Lane Derby Derbyshire England DE24 88J
 62 Buckingham Gate London England SW1E 6AT

Other information

SUBSIDIARIES CONTINUED

Company name	% held	Address
MTU Engineering (Suzhou) Company Limited	100	9 Long Yun Rd Suzhou Industrial Park Suzhou 215024 Jiang Su, China
MTU France SAS	100	281 Chaussée Jules César 95250 Beauchamp, France
MTU Friedrichshafen GmbH	100	1 Maybachplatz 88045 Friedrichshafen, Germany
MTU Hong Kong Limited	100	1-3 Wing Yip St, Kwai Chung New Territories, Hong Kong
MTU Iberica Propulsion Y Energia S L.	100	26-28 Calle Copernico, 28823 Coslada, Madrid, Spain
MTU India Private Limited	100	159/1 Tathawade, Pune Mumbai Highway Pune 411033 India
MTU Israel Limited	100	4 Ha"Alon Str Kfar Neter 4059300 Israel
MTU Italia S r l	100	Via Aurelia Nord 328 19021 Arcola (SP) Italy
MTU Japan Co Limited	100	2-15-19 Takanawa-Meiko Minato ku Tokyo, 108-0074 Japan
MTU Korea Limited	100	20F Kores First Bank Building, 100 Gongpyung dong, Jongno-gu Seoul, 100-702,
		Republic of Korea
MTU Middle East FZE	100	Showroom No S3BSSR06 Jebel Ali Free Zone, PO Box 61141 Dubai United Arab Emirates
MTU Motor Turbin Sanayi Ve Ticaret A S	100	113 Ada 3 Parsel No 11, Çorlu, Tekırdag, 34555,Turkey
MTU Onsite Energy Corporation	100	100 Power Drive Mankato, MIN 56001, USA
MTU Onsite Energy GmbH	100	8 Rotthofer Straße, 94099 Ruhstorf a.d. Rott, Germany
MTU Onsite Energy Systems GmbH	100	8 Rotthofer Straße, 94099 Ruhstorf a d. Rott, Germany
MTU Polska SP ZOO	100	Ul Slaska, Nr 9 Raum, Stargard Szczecinski, 73-110, Potsdam Stargard Szczecinski, Poland
MTU Reman Technologies GmbH	100	8 Friedrich-List-Strabe, 39122 Magdeburg, Germany
MTU RUS LLC	100	Shabolovka Street 2 119049, Moscow, Russian Federation
MTU South Africa (Pty) Limited	100	Corner Marcony Rd and 3rd St, Western Cape, 7441 South Africa
MTU UK Limited	100	Unit 29 The Birches Industrial Estate, East Grinstead England RH19 1XZ
Navis Consult d o o	75	Ul Bartola Kasıca 5/4, HR-51000, Rijeka Croatia
NEI Allen Limited *	100	Derby ¹
NEI Combustion Engineering Limited *	100	Derby ¹
NEI International Combustion Limited *	100	Derby ¹
NEI Limited *	100	Derby ¹
NEI Mining Equipment Limited *	100	Derby ¹
NEI Nuclear Systems Limited *	100	Derby ¹
NEI Overseas Holdings Limited	100	Derby ¹
NEI Parsons Limited *	100	Derby ¹
NEI Peebles Limited *	100	Derby ¹
NEI Power Projects Limited *	100	Derby ¹
NEI Services Limited *	100	Derby ¹
Nightingale Insurance Limited	100	Maison Trinity Trinity Square, St. Peter Port. GY1 4AT. Guernsey
Optimized Systems and Solutions (US) LLC	100	Suite 500 54 Monument Circle Indianapolis IN 46204 USA
Optimized Systems and Solutions Limited *	100	Derby ¹
Oxygenaire Limited *	100	Derby ¹
PKMJ Technical Services Inc	100	465 Malcolm Dr., Moon Township PA 15108, USA
Powerfield Limited *	100	Derby ¹
Powerfield Specialist Engines Limited *	100	Derby ¹
Prokura Diesel Services (pty) Limited	100	Corner Marcony Rd and 3rd St, Western Cape, 7441 South Africa
PT Rolls-Royce	100	Mid Plaza 2 Lantai 16 Jl Jenderal Sudirman 10-11, JakartaPusat, 10220, Indonesia
PT MTU Indonesia	100	Secure Building Blok B, Jl Raya Protokol Halim, Perdanakusuma Jakarta, 13610, Indonesia
Quay Leasing Limited	100	London ²
R Brooks Associates, Inc	100	6546 Pound Road Williamson NY14589, USA
Rallyswift Limited *	100	Derby¹
Reyrolle Belmos Limited *	100	Taxiway Hillend Industrial Estate, Dalgety Bay, Dunfermline, Scotland KY11 9JT
Rolls E L Turbofans Limited *	100	Derby¹
Rolls-Royce (Ireland)*	100	1st Floor IFSC House International Financial Services Centre, Customs House Quay,
		Dublin Irish Republic
Rolls-Royce (Thailand) Limited	100	900 11th Fl, Tonson Tower, Ploenchit Rd Bangkok, Thailand
Rolls-Royce (Xı'an) Mechanical Manufacturing Co Limited	100	E-1 No 5 Lan Tian Road Xian Yanliang National Aviation Hi Tech Industrial Base, China
Rolls-Royce AB	100	Box 1010 S 68129, Kristinehamn, Sweden
none no jee me	200	Con Loud & County respectively presented

Dormant Entity
 Moor Lane Derby Derbyshire England DE24 8BJ
 62 Buckingham Gate London England SW1E 6AT

Company name	% held	Address
Rolls-Royce Aero Engine Services Limited *	100	Derby ¹
Rolls-Royce Aircraft Management Limited	100	London 2
Rolls-Royce Australia Limited	100	Suite 102, 2 4 Lyonpark Rd, Macquarie Park NSW-2113 Australia
Rolls-Royce Australia Services PTY Limited	100	Suite 102 2-4 Lyonpark Rd Macquarie Park NSW- 2113 Australia
Rolls-Royce Brazil Limitada	100	Rua Dr Cincinato Braga 47, Planalto Sao Bernando do Campo/SP 09890-900 Brazil
Rolls-Royce Canada Limited	100	9500 Cote De Liesse Rd Lachine QC H8T 1A2 Canada
Rolls-Royce Capital Limited	100	Derby ¹
Rolls-Royce Civil Nuclear Canada Limited	100	597 The Queensway, Peterborough ON K9J7J6 Canada
Rolls-Royce Civil Nuclear SAS	100	23 Chemin du Vieux Chene 38240 Meylan France
Rolls Royce Commercial (Beijing) Co. Limited	100	2109 China Life Building, 16 Chao Yang Men Wai Street, Beijing 100020 China
Rolls-Royce Commercial Aero Engines Limited *	100	Derby ¹
Rolls Royce Control Systems Holdings Co	100	Suite 200, 1875 Explorer Street, Reston, VA 20190, USA
Rolls Royce Controls and Data Services (NZ) Limited	100	L7 Bayleys Building, 36 Brandon St, Wellington, 6011 New Zealand
Rolls Royce Controls and Data Services (UK) Limited	100	Derby ¹
Rolls Royce Controls and Data Services Inc	100	Surte 200 1875 Explorer Street Reston VA 20190 USA
Rolls Royce Controls and Data Services Limited	100	Derby ¹
Rolls Royce Corporation	100	2001 S Tibbs Avenue Indianapolis IN 46206, USA
Rolls Royce Côte d'Ivoire Sarl	100	7 Boulevard Latrille 25 BP 945 Abidjan Côte d'Ivoire
Rolls-Royce Credit Corporation	100	Suite 200 1875 Explorer Street Reston VA 20190 USA
Rolls-Royce Crosspointe LLC	100	Suite A, 3811 Corporate Rd Petersburg, VA 23805 0848 USA
Rolls-Royce de Venezuela SA	100	Avenida 3E, entre Calles 78 y 79 Torre Empresarial Claret Piso 10 Oficina 10-3 Sector
Holls Royce de Vellezaela 3/4	100	Valle Frio, Maracaibo, Venezuela
Rolls-Royce Defense Holdings Inc.	100	2001 S Tibbs Avenue, Indianapolis, IN 46206, USA
Rolls-Royce Defense Products and Solutions Inc	100	2001 S Tibbs Avenue, Indianapolis, IN 46206, USA
Rolls-Royce Defense Services Inc	100	2001 S Tibbs Avenue, Indianapolis, IN 46206, USA
Rolls-Royce Deutschland Ltd & Co KG	100	11 Eschenweg 15827 Blankenfelde-Mahlow Germany
Rolls-Royce Directorate Limited *	100	Derby ¹
Rolls-Royce Energy Angola Limitada	100	Rua Rei Katyavala Entrada B Piso 8 Luanda Angola
Rolls-Royce Energy Systems Inc	100	Suite 200 1875 Explorer Street Reston VA 20190 USA
Rolls-Royce Engine Control Systems Pension Trustees Ltd	100	Derby 1
Rolls Royce Engine Controls Holdings Limited	100	Derby ¹
Rolls Royce Engine Services – Oakland Inc	100	7200 Earhart Road, Oakland CA 64621-4504 USA
Rolls Royce Engine Services Holdings Co	100	Suite 200, 1875 Explorer Street, Reston, VA 20190, USA
Rolls Royce Engine Services Limitada Inc.*	100	Bldg 06 Berthaphil Compound, Jose Abad Santos Avenue, Clark Special Eco Zone,
non noyet Ingine services in meaning		Pampanga, Philippines
Rolls Royce Erste Beteiligungs GmbH	100	11 Eschenweg, 15827 Blankenfelde-Mahlow, Germany
Rolls Royce Finance Company Limited *	100	Derby ¹
Rolls Royce Finance Holdings Co	100	Suite 200 1875 Explorer Street Reston VA 20190 USA
Rolls Royce Fuel Cell Systems Limited	100	Derby 1
Rolls Royce General Partner Limited	100	Derby ¹
Rolls Royce High Temperature Composites Inc	100	18411 Gothard Street #8 Huntington Beach CA 92648, USA
Rolls Royce Holdings Canada Inc	100	9500 Cote De Liesse Rd Lachine QC H8T 1A2 Canada
Rolls Royce India Limited	100	Derby ¹
Rolls Royce India Private Limited	100	Birla Tower West 25 Barakhamba Rd New Delhi, 110001 India
Rolls Royce Industrial & Marine Gas Turbines*	100	Derby ¹
Rolls Royce Industrial & Marine Power Limited *	100	Derby ¹
Rolls-Royce Industrial Power (India) Limited	100	Derby 1
Rolls-Royce Industrial Power (Overseas Projects) Limited	100	Derby¹
Rolls-Royce Industrial Power Engineering (Overseas Projects)	100	Derby¹
Limited	200	,
Rolls-Royce Industrial Power Investments Limited *	100	Derby ¹
	100	Derby 1
Rolls-Royce industrial Power Systems Limited		
Rolls-Royce Industrial Power Systems Limited * Rolls-Royce Industries Limited *	100	Derby ¹

Dormant Entity
 Moor Lane Derby Derbyshire England DE24 8BJ
 62 Buckingham Gate London England SW1E 6AT

Other information

SUBSIDIARIES CONTINUED

Company name	% held	Address
Rolls-Royce International LLC	100	10 B Sadovaya St, 123001, Moscow Russia
Rolls-Royce International S R O	100	Pobřežni 620/3 186 00 Karlin - Prague 8 Czech Republic
Rolls-Royce Investment Co	100	Suite 200 1875 Explorer Street Reston VA20190 USA
Rolls-Royce Italia SRL	100	Via Castel Morrone 13 16161 Genova, Italy
Rolls-Royce Japan Co Limited	100	31 Fl Kasumigaseki bldg 3-2-5 Kasumigaseki Chiyoda-Ku Tokyo 100 6031, Japan
Rolls Royce JSF Holdings Inc	100	2001 S Tibbs Avenue, Indianapolis, IN46206, USA
Rolls-Royce Leasing Limited	100	Derby ¹
Rolls-Royce Malaysia SDN BHD	100	Suite 13 03, 13th Fl, Menara Tan & Tan, 207 Jalan Tun Razak 50400 Kuala Lumpur, Malaysia
Rolls-Royce Marine A/S	100	Vaerftsvej 23 , 2300, Aalborg Denmark
Rolls-Royce Marine AS	100	Sjogata 80 6065 Ulsteinvik, Norway
Rolls Royce Marine Asia Limited	100	1-3 Wing Yip St. Kwai Chung. New Territories. Hong Kong
Rolls Royce Marine Australia Pty Limited	100	Unit 2/8 Wallace Way, Fremantle WA 6160, Australia
Rolls Royce Marine Benelux BV	100	Werfdijk 2 3195HV Pernis Rotterdam Netherlands
Rolls-Royce Marine Chile SA	100	Alcantara 200 Office 1303 Las Condes Santiago Chile
Rolls-Royce Marine Deutschland GmbH	100	Fahrstieg 9 21107 Hamburg Germany
Rolls-Royce Marine Electrical Systems Limited	100	Derby¹
Rolls-Royce Marine Electrical Systems Circled Rolls-Royce Marine Espana S A	100	Poligono Industrial de Constanti 43120 Constanti, Tarragona Spain
Rolls-Royce Marine Espana 3 A	100	4 Place Des Etats Unis Imm Monaco Silic 261 Rungis France
	100	
Rolls-Royce Marine Hellas S A		25 Atki Poseidonos & Makrigianni corner Athens 18344 Greece
Rolls-Royce Marine Hong Kong Limited	100	1-3 Wing Yip St. Kwai Chung. New Territories, Hong Kong
Rolls-Royce Marine India Private Limited	100	PLOT D-505 TTC Industrial Area MIDC Sharaya Hyundai Lane Turbhe Navi Mumbai Maharashtra 400710 India
Rolls-Royce Marine Korea Limited	100	197 Noksansaneopbung-ro Gangseogu Busan, Republic of Korea
Rolls-Royce Marine Manufacturing (Shanghai)	100	1 Xuanzhong Rd Xuanqiao Town Pudong New Area Shanghai 201399 China
Rolls-Royce Marine North America Inc	100	Suite 200 1875 Explorer Street, Reston, VA20190, USA
Rolls-Royce Marine Power Operations Limited	100	Derby ¹
Rolls-Royce Mechanical Test Operations Centre GmbH	100	Kiefernstrasse 1,15827 Blankenfelde-Mahlow Dahlewitz, Germany
Rolls-Royce Mexico Administration S de RL de CV Rolls-Royce Mexico S de RL de CV	100	Adolfo Ruiz Cortinez 3642-403, Costa de Oro, Veracruz 94299 6, Mexico
Rolls-Royce Military Aero Engines Limited *	100	Derby ¹
Rolls-Royce Namibia (Proprietary) Limited	100	Ausspann Plaza, Dr Agostinho Neto Rd, Private Bag 12012 Asspannplatz, Windhoek, Namibia
Rolls-Royce New Zealand Limited	100	L7 Bayleys Building, 36 Brandon St. Wellington 6011. New Zealand
Rolls-Royce Nigeria Limited	100	22A Gerrard Street, Ikoyi, Lagos, Nigeria
Rolls-Royce North America (USA) Holdings Co	100	Suite 200, 1875 Explorer Street, Reston, VA 20190 USA
Rolls-Royce North America Holdings Inc	100	Suite 200, 1875 Explorer Street Reston VA 20190 USA
Rolls-Royce North America Inc.	100	Suite 200, 1875 Explorer Street Reston VA 20190 USA
Rolls-Royce North America Ventures Inc	100	Suite 200, 1875 Explorer Street Reston VA 20190 USA
Rolls-Royce North American Technologies Inc	100	2059 S Tibbs Avenue, Indianapolis IN 46241 USA
Rolls-Royce Nuclear Field Services France SAS	100	ZA Notre-Dame, 84430, Mondragon France
Rolls-Royce Oman LLC	100	PO Box 686, Ruwi, 112 Oman
Rolls-Royce Operations (India) Private Limited	100	Whitefield Rd, EPIP Zone, Mahadevapura Bangalore 560066 India
Rolls-Royce Overseas Holdings Limited	100	Derby 1
Rolls-Royce Overseas Investments Limited	100	Derby 1
	100	Derby 1
Rolls-Royce Overseas Projects Limited		
Rolls-Royce Oy Ab	100	PO Box 220, Suojantie 5, 26101 Rauma Finland
Rolls-Royce Placements Limited	100	Derby 1 CANDA 22 140 at Kongyarka 1 Boland
Rolls-Royce Poland Spzoo	995	GNIEW 83-140, ul Kopernika 1, Poland
Rolls-Royce Power Development Limited	100	Derby ¹
Rolls-Royce Power Engineering plc	100	Derby ¹
Rolls-Royce Power Systems AG	100	1 Maybachplatz, 88045 Friedrichshafen Germany
Rolls-Royce Saudı Arabıa Limited	100	PO Box 88545 Riyadh 11672, Saudi Arabia

Dormant Entity Moor Lane Derby Derbyshire England, DE24 88J 62 Buckingham Gate London England SW1E 6AT

Company name	% held	Address
Rolls Royce Secretariat Ltd *	100	Derby¹
Rolls Royce Singapore Pte Ltd	100	1 Seletar Aerospace Crescent 797565 Singapore
Rolls Royce Technical Support Sarl	100	Centreda 1, av Didier Daurat, 31700 Blagnac Toulouse, France
Rolls Royce Total Care Services Limited	100	Derby¹
Rolls Royce Transmission and Distribution Limited *	100	Derby¹
Rolls Royce Turkey Power Solutions Industry and Trade Limited	100	Ekemen Han No 1 Kat 6 Kabataş Beyoğlu , İstanbul, Türkey
Rolls Royce Vietnam Limited	100	Dong Xuyen Industrial Zone, Rach Dua Ward Vung Tau City Ba Ria – Vung Tau Province Vietnam
Rolls Royce Zweite Beteiligungs GmbH	100	11 Eschenweg 15827 Blankenfelde-Mahlow, Germany
Ross Ceramics Limited	100	Derby ¹
R OV Technologies Inc.	100	49 Bennett Drive Guilford Vermont, USA
R-R Industrial Controls Limited *	100	Derby¹
Scandinavian Electric Gdansk Sp zoo	67	M Reja 3, Gdansk 80-404 Poland
Scandinavian Electric Systems do Brazil Limitada	66	Rua Sao Jose 90 salas 1406 07, Rio de Janeiro, RJ, Brazil
Spare IPG (AGL) Limited Spare IPG (CEL) Limited Spare IPG 3 Limited, Spare IPG 4 Limited, Spare IPG 11 Limited, Spare IPG 15 Limited Spare IPG 20 Limited, Spare IPG 22 Limited, Spare IPG 24 Limited Spare IPG 27 Limited, Spare IPG 28 Limited Spare IPG 30 Limited, Spare IPG 32 Limited.	100	Derby ¹
Spare IPG 18 Ltd *	90	Derby ¹
Stone Vickers Limited *	100	Derby ¹
Superstructure Capital Limited	100	Derby ¹
The Bushing Company Limited *	100	Derby ¹
Timec 1487 Limited *	100	Derby ¹
Trigno Energy S r I	100	Zona Industrial San Salvo 66050 Italy
Ulstein Holding AS	100	Sjøgata 80 6065 Ulsteinvik Norway
Ulstein Maritime Limited	100	96 North Bend St, Coquitlam BC V3K 6H1 Canada
Ulstern Trading Ltd AS *	100	Sjøgata 80, 6065 Ulsteinvik Norway
Vessel Lifts Inc *	100	Surte 102, 9130 S Dadeland Blvd, Miarni, FL 33156 USA
Vickers Pension Trustees Limited *	100	Derby ¹
Vickers Pressings Limited *	100	Derby ¹
Viking Power Limited *	100	Derby ¹
Vinters Defence Systems Limited *	100	Derby ¹
Vinters Engineering Limited	100	Derby ¹
Vinters International Limited	100	Derby ¹
Vinters Limited	100	Derby ¹
Vinters-Armstrongs (Engineers) Limited *	100	Derby¹
Vinters-Armstrongs Limited *	100	Derby¹
Wultex Machine Company Limited *	100	Derby¹
Wultex Machine Company Limited*	100	Derby ¹

Dormant Entity
 Moor Lane Derby Derbyshire England DE24 8BJ
 62 Buckingham Gate, London England SW1E 6AT

Other information

JOINT VENTURES AND ASSOCIATES

Company name	Address	Class of shares	% of class held	Group interest held %
Aero Gearbox International SAS	18 Boulevard Louis Seguin 92700 Colombes, France	Ordinary	50	50
Aerospace Transmission Technologies GmbH	Adelheidstrasse 40, D 88046, Friedrichshafen, Germany	Ordinary	50	50
Airtanker 1 Limited *	One London Wall, London, England EC2Y 5EB	Ordinary	20	20
Airtanker Finance Limited	One London Wall London England EC2Y SEB	Ordinary	20	20
Airtanker Holdings Limited	One London Wall London England EC2Y SEB	Ordinary	20	20
Airtanker Limited	One London Wall London England EC2Y SEB	Ordinary	20	20
Airtanker Services Limited	Airtanker Hub, RAF Brize Norton Carterton Oxfordshire England OX18 3LX	Ordinary	22	22
Alpha Leasing Limited, Alpha Leasing (No 4) Limited, Alpha Leasing (No 9) Limited Alpha Leasing (No 10) Limited, Alpha Leasing (No 11) Limited Rolls Royce & Partners Finance Limited	London ²	Ordinary	100	50
Alpha Leasing (US) LLC, Alpha Leasing (US) (No 2) LLC, Alpha Leasing (US) (No 4) LLC, Alpha Leasing (US) (No 5) LLC, Alpha Leasing (US) (No 6) LLC, Alpha Leasing (US) (No 7) LLC Alpha Leasing (US) (No 8) LLC, Rolls Royce & Partners Finance (US) LLC Rolls Royce & Partners Finance (US) (NO 2) LLC	Suite 200, 1875 Explorer Street, Reston, VA 20190, USA	Partnerships (no equity held)	-	50
Alpha Partners Leasing Limited	London 2	A Ordinary	100	50
Anecom Aerotest GmbH	124/126 Freiheitsstrasse, Wildau D-15745, Germany		24 9	249
Clarke Chapman Portia Port Services Limited	Maritime centre, Port of Liverpool, Liverpool L21 1LAA	Ordinary	100	50
Egypt Aero Management Services	EgyptAir Engine Workshop, Cairo International Airport, Cairo, Egypt	Ordinary	50	50
EPI Europrop International GmbH	Dachauer Strasse 655, 80995 Munich, Germany	Ordinary	28	Effective 35 5
EPI Europrop International Madrid S L	Edificio Berlin – First Floor, Parque Empresarial San Fernando, Avenida Castilla 2, 28830 San Fernando De Henares, Madrid, Spain	Ordinary	28	Effective 35 5
Eurojet Turbo GmbH	Lilienthalstrasse 2b, 85399 Hallbergmoos, Germany	Ordinary	33	Effective 39
GE Rolls-Royce Fighter Engine Team LLC	2001 S Tibbs Avenue, Indianapolis, IN 46206, USA Partnership	(no equity held)	-	40
Genistics Holdings Limited	Derby ¹	Ordinary A	100	50
Genistics Limited	Derby ¹	Ordinary	100	50
Glacier LP	Suite 300, Bank Tower, 66 Wellington Street West, Toronto, ON M5K 1E6, Canada	Ordinary	50	50
Global Aerospace Centre for Icing and Environmental Research Inc	1000 Marie-Victorin Boulevard, Montreal QC J4G 1A1, Canada	Ordinary	50	50
Hong Kong Aero Engine Services Limited	33/F, 2 Pacific Place, 88 Queensway, Hong Kong	Ordinary	45	45
Hovden Klubbhaus AS	Stalhaugen 5, Ulsteinvik 6065 Norway	Ordinary	69	69
Industria De Turbo Propulsores SA	Suite 300, Parque Technologico, 48170 Zamudio Vizcaya Spain	Ordinary	46 9	469
International Aerospace Manufacturing Private Ltd	3 Kempapure Village Bangalore 560037 India	Ordinary	50	50
International Engine Component Overhaul Pte Ltd	No 3 Loyang Way 2 507102 Singapore	Ordinary	50	50
LG Fuel Cell Systems Inc.	6065 Strip Ave, Canton OH 44720-9207 USA	Common Stock	32	32
Light Helicopter Turbine Engine Company (unincorporated partnership)	Suite 119, 9238 Madison Boulevard, Madison AL 35758, USA	Partnership (no equity held)	-	50
Metlase Limited	Unipart House, Garsington Road Cowley Oxford England OX4 2PG	Ordinary B	100	20
MTU Turbomeca Rolls-Royce GmbH	Am Soldnermoos 17, 85399 Hallbergmoos Germany	Ordinary	33 3	33 3
MTU Turbomeca Rolls-Royce ITP GmbH	Am Soldnermoos 17, 85399 Hallbergmoos Germany		25	Effective 26
N3 Engine Overhaul Services GmbH & Co KG	1 Gerhard-Holtje-Str, D-99310, Arnstadt, Germany	Ordinary	50	50
N3 Engine Overhaul Services Verwaltungsgesellschaft Mbh	1 Gerhard-Holtje-Str, D-99310, Arnstadt Germany	Ordinary	50	50
Northern Engineering Industries Africa Limited (in liquidation)		Ordinary	24 4	24 4
Trockies in Engineering industries Arrica diffica (in inquidation)	Parktown 2193, South Africa			

Dormant Entity
 Moor Lane, Derby Derbyshire England DE24 88J
 62 Buckingham Gate London England SW1E 6AT

Company name	Address	Class of shares	% of class held	Group interest held %
Omega Leasing Limited Omega Leasing (No 4) Limited Omega Leasing (No 9) Limited Omega Leasing (No 10) Limited, Omega Leasing (No 11) Limited	London ²	Ordinary	100	50
Omega Leasing (US) LLC Omega Leasing (US) (No 2) LLC Omega Leasing (US) (No 4) LLC Omega Leasing (US) (No 5) LLC Omega Leasing (US) (No 6) LLC Omega Leasing (US) (No 7) LLC Omega Leasing (US) (No 8) LLC	Suite 200, 1875 Explorer Street, Reston, VA 20190, USA	Partnerships (no equity held)	-	50
Rolls Laval Heat Exchangers Limited	Derby 1	Ordinary A	100	50
Rolls-Royce Engine Leasing (Labuan) Limited, Rolls-Royce Engine Leasing (Labuan) (No 2) Limited	Unit Level 13(A), Main Office Tower Financial ParkLabuan Jalan Merdeka, 87000, Malaysia	Ordinary	100	50
Rolls Royce Snecma Limited	Derby 1	Ordinary B	100	50
RRPF Engine Leasing Limited, RRPF Engine Leasing (No 2) Limited	London ²	Ordinary	100	50
RRPF Engine Leasing (US) LLC, RRPF Engine Leasing (US) (No 2) LLC	Suite 200, 1875 Explorer Street Reston VA 20190 USA	Ordinary	100	50
RRPF Engine Leasing (Singapore) Pte Limited	28-00 1 Marina Boulevard Singapore 018989	Ordinary	100	50
Servicios de Operation y Mantenimiento 5 A	Puerto In Buitrago 804 Casilla de Correo CP 2900 Buenos Aires Argentina	Ordinary	100	50
Shanxi North MTU Diesel Co Limited	97 Daqing West Rd Datong Shanxi Province China	Ordinary	49	49
Sign Assured Limited	8 Jubilee Drive Loughborough England LE11 5XS	Ordinary	25	25
Singapore Aero Engine Services Private Limited	11 Calshot Rd 509932, Singapore	Ordinary	30	Effective 39
Techjet Aerofoils Limited	Tefen Ind Zone, PO Box 16, 24959, Carmiel, Israel	Ordinary A Ordinary B	50	50
Texas Aero Engine Services LLC	1209 Orange St Wilmington DE 19801 USA	Partnership (no equity held)	-	50
TRT Limited	Derby ¹	Ordinary B	100	49 5
Turbine Surface Technologies Limited	Derby ¹	Ordinary B	100	50
Turbo-Union Limited	Derby ¹	Shares A	375 40	40
UK Nuclear Restoration Limited	Booths Park, Chelford Rd, Knutsford, England WA16 8QZ	Ordinary	20	20
Viking Reisebyra AS	Saunesvn 10, Ulsteinvik, NO-6067 Norway	Ordinary	50	50
Xian XR Aero Components Co , Limited	Xujiawan, Beijiao, PO Box 13 Xian 710021 Shaanxi China	Ordinary	49	49
Xian XR Turbine Machining Components Co Ltd	XEPZ 12th Fengcheng Rd Xian 710018 Shaanxi China	Ordinary	100	49

Dormant Entity
 Moor Lane Derby Derbyshire England DE24 8BJ
 62 Buckingham Gate London England SW1E 6AT

INDEPENDENT AUDITOR'S REPORT

to the members of Rolls-Royce plc only

We have audited the financial statements of Rolls-Royce plc for the year ended 31 December 2015 set out on pages 65 to 149 The financial reporting framework that has been applied in the preparation of the group financial statements is applicable law and International Financial Reporting Standards (IFRSs) as adopted by the EU. The financial reporting framework that has been applied in the preparation of the parent company financial statements is applicable law and UK Accounting Standards (UK Generally Accepted Accounting Practice)

This report is made solely to the company's members, as a body in accordance with Chapter 3 of Part 16 of the Companies Act 2006 Our audit work has been undertaken so that we might state to the company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the company and the company's members, as a body, for our audit work, for this report, or for the opinions we have formed.

Respective responsibilities of directors and auditor

As explained more fully in the Directors' Responsibilities Statement set out on pages 62 and 63, the directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view. Our responsibility is to audit, and express an opinion on the financial statements in accordance with applicable law and International Standards on Auditing (UK and Ireland). Those standards require us to comply with the Auditing Practices Board's Ethical Standards for Auditors.

Scope of the audit of the financial statements

A description of the scope of an audit of financial statements is provided on the Financial Reporting Council's website at www.frc.org.uk/auditscopeukprivate

Opinion on financial statements

In our opinion

- the financial statements give a true and fair view of the state of the group's and of the parent company's affairs as at 31 December and of the group's profit for the year then ended,
- the group financial statements have been properly prepared in accordance with IFRSs as adopted by the EU,
- the parent company financial statements have been properly prepared in accordance with UK Generally Accepted Accounting Practice,
- the financial statements have been prepared in accordance with the requirements of the Companies Act 2006

Opinion on other matter prescribed by the Companies Act 2006

In our opinion the information given in the Strategic Report and the Directors' Report for the financial year for which the financial statements are prepared is consistent with the financial statements

Based solely on the work required to be undertaken in the course of the audit of the financial statements and from reading the Strategic report and the Directors' report

- we have not identified material misstatements in those reports, and
- in our opinion, those reports have been prepared in accordance with the Companies Act 2006

Matters on which we are required to report by exception

We have nothing to report in respect of the following matters where the Companies Act 2006 requires us to report to you if, in our opinion

- adequate accounting records have not been kept by the parent company, or returns adequate for our audit have not been received from branches not visited by us, or
- the parent company financial statements are not in agreement with the accounting records and returns, or
- certain disclosures of directors' remuneration specified by law are not made or
- we have not received all the information and explanations we require for our audit

RICHARD ACKLAND (SENIOR STATUTORY AUDITOR) for and on behalf of KPMG LLP, Statutory Auditor

Chartered Accountants 15 Canada Square London E14 5GL 24 February 2016

ADDITIONAL FINANCIAL INFORMATION

Foreign exchange

Foreign exchange rate movements influence the reported income statement, the cash flow and closing net cash balance. The average and spot rates for the principal trading currencies of the Group are shown in the table below.

		2015	2014	Change
USD per GBP	Year end spot rate	1 48	1 56	-5%
	Average spot rate	1 53	1 65	-7%
FUID CRD	Year end spot rate	1 36	1 28	+6%
EUR per GBP	Average spot rate	1 38	1 24	+11%

The Group's approach to managing its tax affairs

The Board is involved in setting the Group's tax policies which govern the way its tax affairs are managed. In summary this means

- (i) the Group manages its tax costs through maximising the tax efficiency of business transactions. This includes taking advantage of available tax incentives and exemptions,
- (11) this must be done in a way which is aligned with the Group's commercial objectives and meets its legal obligations and ethical standards,
- (iii) the Group also has regard for the intention of the legislation concerned rather than just the wording itself,
- (iv) the Group is committed to building constructive working relationships with tax authorities based on a policy of full disclosure in order to remove uncertainty in its business transactions and to allow the authorities to review possible risks,
- (v) where appropriate and possible, the Group enters into consultation with tax authorities to help shape proposed legislation and future tax policy and
- (vi) the Group seeks to price transactions between Rolls-Royce group companies as if they were between unrelated parties in compliance with the OECD Transfer Pricing Guidelines and the laws of the relevant jurisdictions

The Group's global corporate income tax contribution

Around 95% of the Group's underlying profit before tax (excluding joint ventures and associates) is generated in the UK, the US, Germany Norway, Finland and Singapore. The remaining profits are generated across more than 40 other countries. This reflects the fact that the majority of the Group's business is undertaken, and employees are based, in the above countries.

In common with most multinational groups the total of all profits in respect of which corporate income tax is paid is not the same as the consolidated profit before tax reported on page 65. The main reasons for this are

 the consolidated income statement is prepared under IFRS whereas tax is paid on the profits of each Group company, which are determined by local accounting rules

- (ii) accounting rules require certain income and costs relating to our commercial activities to be eliminated from, or added to the aggregate of all the profits of the Group companies when preparing the consolidated income statement ('consolidation adjustments'), and
- (iii) specific tax rules including exemptions or incentives as determined by the tax laws in each country

The Group's total corporation tax payments in 2015 were £160m. The level of tax paid in each country is impacted by the above. In most cases (i) and (ii) are only a matter of timing and therefore tax will be paid in an earlier or later year. As a result, they only have a negligible impact on the Group's underlying tax rate, which excluding joint ventures and associates would be 26.6% (the underlying tax rate including joint ventures and associates can be found on page 43). This is due to deferred tax accounting details of which can be found in note 5 to the consolidated financial statements. The impact of (iii) will often be permanent depending on the relevant tax law.

Further information on the tax position of the Group can be found as follows

- Note 1 to the consolidated financial statements (page 74) —
 Details of key areas of uncertainty and accounting policies for tax,
- Note 5 to the consolidated financial statements (page 86) —
 Details of the tax balances in the consolidated financial
 statements together with a tax reconciliation on continuing
 operations. This explains the main drivers of the tax rate.

At this stage we expect these items to continue to influence the underlying tax rate. The reported tax rate is more difficult to forecast due to the volatility of significant items in reported profits, in particular the net unrealised fair value changes to derivative contracts.

Investments and capital expenditure

The Group subjects all major investments and capital expenditure to a rigorous examination of risks and future cash flows to ensure that they create shareholder value. All major investments, including the launch of major programmes require Board approval

The Group has a portfolio of projects at different stages of their life cycles. Discounted cash flow analysis of the remaining life of projects is performed on a regular basis.

Sales of engines in production are assessed against criteria in the original development programme to ensure that overall value is enhanced

ADDITIONAL FINANCIAL INFORMATION CONTINUED

Financial risk management

The Board has established a structured approach to financial risk management. The Financial risk committee (Frc) is accountable for managing reporting and mitigating the Group's financial risks and exposures. These risks include the Group's principal counterparty, currency interest rate commodity price, liquidity and credit rating risks outlined in more depth in note 16. The Frc is chaired by the Chief Financial Officer. The Group has a comprehensive financial risk policy that advocates the use of financial instruments to manage and hedge business operations risks that arise from movements in financial, commodities, credit or money markets. The Group's policy is not to engage in speculative financial transactions. The Frc sits quarterly to review and assess the key risks and agree any mitigating actions required.

Capital structure

£ million	2015	2014
Total equity	6,289	6 831
Cash flow hedges	100	81
Group capital	6,389	6 462
Net funds	(111)	666

Operations are funded through various shareholders' funds, bank borrowings, bonds and notes. The capital structure of the Group reflects the judgement of the Board as to the appropriate balance of funding required.

Funding is secured by the Group's continued access to the global debt markets. Borrowings are funded in various currencies using derivatives where appropriate to achieve a required currency and interest rate profile. The Board's objective is to retain sufficient financial investments and undrawn facilities to ensure that the Group can both meet its medium-term operational commitments and cope with unforeseen obligations and opportunities.

The Group holds cash and short-term investments which together with the undrawn committed facilities, enable it to manage its liquidity risk

On 6 October the Group Issued US\$500m 2 375% Notes due 2020 and US\$1,000m 3 625% Notes due 2025

During the year the Group renegotiated the £1 000m committed bank borrowing facility, increasing the amount to £1,500m and extending the maturity to 2020. This facility was undrawn at the period end. A €300m committed borrowing facility was cancelled during the period.

At year end, the Group retained aggregate liquidity of £5 0 billion, including cash and cash equivalents of £3 2 billion and undrawn borrowing facilities of £1 8bn In 2016, £419m of the facilities mature

The maturity profile of the borrowing facilities is regularly reviewed to ensure that refinancing levels are manageable in the context of the business and market conditions. There are no rating triggers in any borrowing facility that would require the facility to be accelerated or repaid due to an adverse movement in the Group's credit rating.

The Group conducts some of its business through a number of joint ventures. A major proportion of the debt of these joint ventures is secured on the assets of the respective companies and is non-recourse to the Group. This debt is further outlined in note 10.

Credit rating

	Rating	Outlook	Grade
Moody's Investors Service	A3	Stable	Investment
Standard & Poor s	Α	Negative	Investment

The Group's holding company Rolls-Royce Holdings plc, subscribes to both Moody's Investors Service and Standard & Poor's for independent long-term credit ratings. At the date of this report, it maintained investment grade ratings from both agencies

As a capital-intensive business making long-term commitments to our customers, the Group attaches significant importance to maintaining or improving the current investment grade credit ratings

Accounting

The consolidated Financial Statements have been prepared in accordance with International Financial Reporting Standards (IFRS), as adopted by the EU

No new accountings standards had a material impact in 2015 The impact changes to IFRS which have not been adopted in 2015 is included within the accounting policies in note 1

GLOSSARY

ABC	anti-bribery and corruption
ADR	American Depositary Receipts
AGM	Annual General Meeting
AMC	Approved Maintenance Centre
APRA	Annual Performance Related Award plan
Articles	Articles of Association of Rolls-Royce Holdings plc
C Shares	non-cumulative redeemable preference shares
C&A	commercial and administrative
CAGR	Compound Annual Growth Rate
CARs	contractual aftermarket rights
CEO	chief executive officer
CFO	chief financial officer
CGU	cash-generating unit
CO ₂	carbon dioxide
Company	Rolls-Royce plc
CPS	cash flow per share
CRIP	C Share Reinvestment Plan
ELT	Executive Leadership Team
EPS	earnings per share
EU	European Union
EUR	ешто
FCA	Financial Conduct Authority
FCAS	Future Combat Air System
FRC	Financial Reporting Council
FX	foreign exchange
GBP	Great British pound or pound sterling
GHG	greenhouse gas
Global Code	Global Code of Conduct
Group	Rolls-Royce plc and its subsidiaries
HMRC	HM Revenue & Customs
HS&E	health, safety and environment
I&C	instrumentation and control
IAB	International Advisory Board
IAS	International Accounting Standards

IASB	International Accounting Standards Board
IFRIC	International Financial Reporting Interpretations Committee
IFRS	International Financial Reporting Standards
KPIs	key performance indicators
ktCO ₂ e	kilotonnes carbon dioxide equivalent
LIBOR	London Inter-Bank Offered Rate
LTSA	long term service agreement
LNG	liquefied natural gas
MRO	Maintenance repair and overhaul
NCI	non controlling interest
NO	nitrogen oxides
OCI	other comprehensive income
OE	original equipment
OECD	Organisation for Economic Cooperation and Development
PBT	profit before tax
PSP	Performance Share Plan
R&D	research and development
R&T	research and technology
REACH	Registration, Evaluation Authorisation and restriction of CHemicals
December	Computershare Investor Services PLC
Registrar RRPS	
	Rolls-Royce Power Systems AG
RRSAs	risk and revenue sharing arrangements
SFO	Serious Fraud Office
SIP	Share Incentive Plan
SOx	sulphur oxides
STEM	science technology engineering and mathematics
TCA	TotalCare agreement
the Code	UK Corporate Governance Code
TRI	total reportable injuries
TSR	total shareholder return
USD/US\$	United States dollar
UTCs	University Technology Centres



© Rolls-Royce plc 2016

Rolls-Royce plc Registered office 62 Buckingham Gate London SW1E 6AT

T +44 (0)20 7222 9020 www rolls-royce com

Company number 1003142