



Hinkley Point C **Building Britain's low-carbon future**

July 2016



Our energy future

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Hinkley Point C Explained

Hinkley Point C will mark a significant moment in the revitalisation of the UK's nuclear power industry.

EDF Energy's Hinkley Point C will be the first in a new generation of nuclear power stations in the UK. Capable of generating 3.2GW, it will sit alongside an operating nuclear power station, and one being decommissioned, on the north Somerset coast in the south-west of England.

The main power station development will include:

- Two UK EPR™ nuclear reactor units
- Two turbine halls
- Cooling water infrastructure
- Fuel and waste management facilities including storage
- Electricity transmission infrastructure
- Service and ancillary buildings
- A sea wall
- A public information centre
- Landscaping for the construction land.

The Hinkley Point C project also includes some associated developments in the surrounding area. The main associated developments are an accommodation campus next to the main site; an accommodation campus in Bridgwater for construction workers; four park and ride facilities to transport workers by bus to the Hinkley Point C development site; a temporary jetty and refurbished wharf to deliver as much heavy equipment and material as possible by sea to reduce pressure on roads; a bypass to the west of the nearby village of Cannington and a series of highway improvement schemes across the local road network.

Our energy future

The United Kingdom is facing a critical time in its energy future. We need to face the challenges of decarbonising our energy system, while replacing significant amounts of existing infrastructure that is due to come offline over the next decade. This must be done in an affordable way that delivers a low-carbon transition at the lowest cost for consumers.

By 2030 a significant proportion of the UK's older power stations are expected to close, including all but one of our existing nuclear power stations. Investments need to be made now in order to ensure that we have enough low-carbon electricity from 2030 onwards. It is clear that we need to replace this lost generating capacity with reliable new low-carbon sources if Britain is to secure its energy future and meet its legally binding emissions targets. The Committee on Climate Change recommends a reduction in CO₂ intensity of electricity generation of over 80% by 2030.

New nuclear power is a vital part of the future energy mix. Nuclear provides reliable low-carbon power that can underpin the energy system*. Electricity is produced when it is needed, day, night, summer and winter. It is the only low-carbon option for providing baseload power, and will work alongside gas and renewables, as well as future technologies.

Hinkley Point C will be the first nuclear power station to be built in the UK for more than 20 years. It will have the capacity to generate safe, reliable, low-carbon electricity, enough to power around 6 million homes for its anticipated lifespan of 60 years.

Hinkley Point C will bring many other benefits too. It is a huge investment project – comparable in scale to the London 2012 Olympic and Paralympic Games – and it will create large-scale employment in UK manufacturing and construction. It will help re-start nuclear construction in the UK, and build an industry that will serve follow-on projects from us and other developers. The UK has an opportunity to become a global leader in new nuclear energy, a prospect that is already inspiring a new generation of UK scientists and engineers.

The time is right. Successive governments have recognised the need for nuclear as part of the future low-carbon energy mix. In polling conducted by ComRes for EDF Energy in 2016, over two thirds of MPs support the construction of Hinkley Point C nuclear power station, as one part of the solution to the UK's energy needs. Support for new nuclear from the public is also strong. 54% of the public support Hinkley Point C's development, and 17% are opposed. Nuclear needs to be part of a long-term solution to meeting the UK's low-carbon energy requirements.

“We are very committed as a Government to making sure that we build new nuclear and Hinkley Point will be the first of those.”

Rt Hon Amber Rudd MP

Former Secretary of State for Energy and Climate Change
Energy and Climate Change Committee evidence session,
21 July 2015

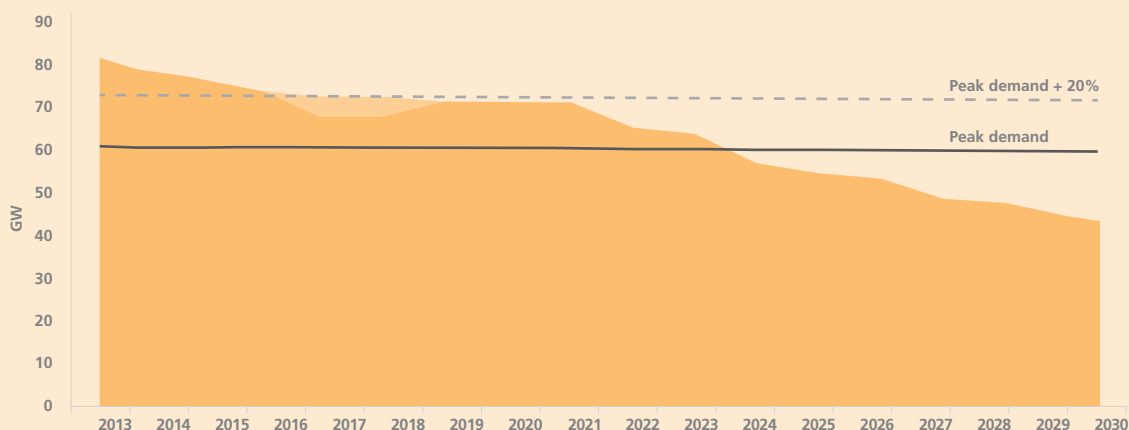
*Hinkley Point C would have a capacity of 3260MW, with at least a 90% load factor. Over 25TWh per annum would therefore be produced. 1TWh = 1 billion kWh. 25TWh/annum x 60 years = 1500 billion kWh.

With a significant proportion of GB generating assets expected to close by 2030, large amounts of new capacity are required...

Building the UK's low-carbon future

Existing and under construction generation and contracted plant in Great Britain (including interconnection) 2013-2030

Source: Plant capacities and lifetimes based on EDF Energy view. Peak demand based on National Grid's Future Energy scenarios Slow Progression 2015.



Notes: Chart shows forecast installed capacity of power plants in Great Britain by fuel type, based on EDF Energy Best view as of August 2015. The date when new large-scale baseload generation is needed depends on rate of closure for existing plant. Chart excludes solar PV, due to uncertain availability at peak times. Assumes 8-yr average lifetime extension for AGR fleet. Chart includes interconnection at 3.8GW, de-rated at 50% to reflect availability at peak times. Wind capacities de-rated at 10% to reflect limited ability to provide capacity at peak times. Mothballed capacity assumed to remain closed. Capacity under construction includes ESB's Carrington CCGT (880MW), SSE's Ferrybridge CHP (68MW) and ~2.5GW of wind capacity. Peak demand based on National Grid's Future Energy scenarios Slow Progression 2015. Lighter area denotes reserve capacity to be procured by National Grid.

"We don't want to delay, without reason, the important progress we need to make on new nuclear power in our country."

Rt Hon Ed Miliband MP

Former Leader of the Labour Party

Hansard, 28 March 2011



Keeping the lights on

Hinkley Point C achievements

“Hinkley Point will make a huge contribution, 7% of our total power generation capacity and we have to make sure that project goes ahead.”

Rt Hon Philip Hammond MP
Chancellor of the Exchequer
July 2016

Hinkley Point C achievements

EDF Energy is playing a leading role in helping Britain meet its energy challenge. Hinkley Point C in Somerset would be the first new nuclear station built by a publicly listed company in the UK. It is the first nuclear project in which EDF has been the lead client outside of France.

The jigsaw pieces of the nuclear new build project have been pulled together with key milestones reached along the way.

Policy framework

The UK policy context

There is strong public and political support for new nuclear power stations in the UK. In July 2011, the Government designated the first National Policy Statements for Energy Infrastructure, setting out the policy framework for a faster, more predictable and accountable planning system. The House of Commons voted overwhelmingly in favour of the National Policy Statement on Nuclear Power Generation.

Electricity Market Reform, which culminated in the Energy Act of 2013, confirmed Britain's commitment to provide the right framework to encourage investment in secure, low-carbon electricity supply in the most cost-effective way for customers.

In October 2013, EDF Group and the UK Government agreed on key commercial terms of an investment contract for Hinkley Point C. The balanced investment contract was signed to give investors the confidence to invest in a

In June 2013, a vote in Parliament to rule out nuclear was defeated by 503 votes to 20, giving a majority of 483 MPs supporting nuclear.

new nuclear power station which is capable of providing the UK with secure, reliable, low-carbon electricity at a fair price for consumers.

Through this 'Contract for Difference', a strike price of £92.50/MWh for Hinkley Point C was agreed, reducing to £89.50 if Sizewell C goes ahead. If wholesale prices rise above an agreed 'strike price', consumers will not pay extra. If they fall below this price the generator will receive a top-up payment. Customers pay nothing until the power station is operational. This guaranteed price includes costs for decommissioning in the future and means that EDF Group and its partners take on all the construction and operational risk.

European milestones

The EPR™ design is one of the first two reactor designs to pass the 'justification' test prior to construction. This is a requirement of European law on basic safety standards. The decision justifying use of the technology was passed overwhelmingly in a UK parliamentary vote in October 2010.

In July 2012 the European Commission confirmed that the project meets the requirements of the Euratom Treaty for a new nuclear power station.

EDF Energy reached another milestone in October 2014 when the European Commission approved the agreements for the planned Hinkley Point C nuclear power station. The Commission found that the Contract for Difference constituted an appropriate and proportionate way for the UK to meet its need for secure, low-carbon energy. The approval by the European Commission also enhanced a 'gainshare'

Former Prime Minister visits Hinkley Point C



“This is an excellent deal for Britain and British consumers. [...] It will increase energy security and resilience from a safe, reliable, home-grown source of electricity. This deal is competitive with other large-scale clean energy and with gas – and while consumers won’t pay anything up front, they’ll share directly in any gains made from the project [...]. ”

Rt Hon Ed Davey MP

Former Secretary of State for Energy and Climate Change
CFD announcement

mechanism that will share potential future benefits with customers, such as from reduced project construction costs or more favourable equity returns.

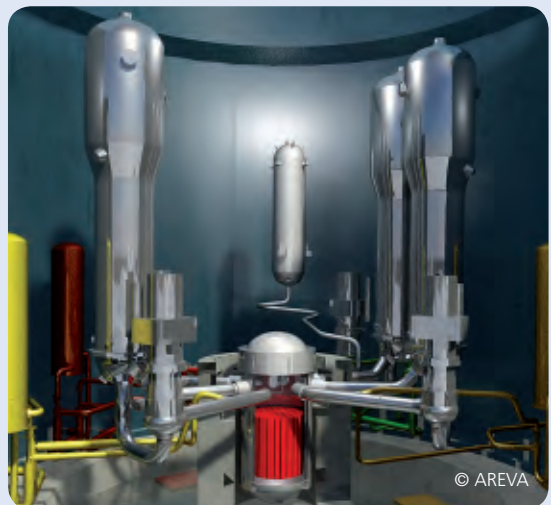
Licensing

In November 2012 the Office for Nuclear Regulation awarded NNB Generation Company, the new nuclear build subsidiary of EDF Energy, a Nuclear Site Licence for Hinkley Point C – the first to be awarded for a new power station site in the UK for 25 years. By granting the site licence, the UK’s independent nuclear regulator has recognised that the new build organisation has developed the required management structure, plans and procedures needed for the construction, commissioning and operation of the proposed new nuclear power station in Somerset.

Power station design

The UK EPR™ power station design application submitted jointly by EDF Energy and AREVA was the first to successfully complete a thorough examination process in the UK, known as a Generic Design Assessment, by the safety and environmental authorities. The EPR™ power station design was accepted for use in the UK in December 2012.

The completion of the Generic Design Assessment process was marked by the award of a Design Acceptance Confirmation by the Office for Nuclear Regulation, and a Statement of Design Acceptability by the Environment Agency. This certification



Reactor and Nuclear Steam Supply System

recognises that the UK EPR™ power station design meets the UK’s stringent safety requirements as assessed by the joint regulators and demonstrates the robustness of the design.

It was a major milestone for Hinkley Point C. No other reactor designs have gone through the GDA process, which means no other type of reactor can currently be built in the UK.

The Generic Design Assessment’s **850,000** hours of engineering studies over four years has given the project at Hinkley Point a stable design which underpins accurate cost projections.

Planning applications

Consent to build the power station requires a Development Consent Order (DCO) from the UK Planning Inspectorate and approval by the Secretary of State. Hinkley Point C has been leading the way as the first Nationally Significant Infrastructure Project on this scale to undergo the year-long in-depth examination by the Planning Inspectorate that this process involves. The 55,000 pages of detailed evidence produced as part of the application was unprecedented and the DCO was granted to EDF Energy on 19 March 2013.

First of a kind public consultation

Our Hinkley Point C proposals were directly shaped by three years of in-depth community consultation and stakeholder engagement. This is the first time that a major nuclear project has undertaken its consultation under the Planning Act 2008 regime, and has led to strong and lasting relationships with the Somerset local authorities and local communities.

Decommissioning & waste disposal funding

Hinkley Point C will be the first nuclear project to have a Funded Decommissioning Programme. The Energy Act 2008 requires the operator of a new nuclear power station to provide secure financing arrangements to meet the full costs of decommissioning and their full share of the costs

of waste disposal before nuclear-related construction can begin. We are proud to be setting this precedent, which ensures we are taking full responsibility for our power station from start to finish.

Early investment in skills

The Hinkley Point C project is one of the first major projects to invest so much at an early stage in education, skills and employment infrastructure. We are committed to ensuring that Somerset people benefit from the skills and employment opportunities the project will bring. As such EDF Energy is investing almost £15 million in education, skills and employment in Somerset that includes a commitment to over £6 million for West Somerset Community College and Bridgwater College. We have already built the Construction Skills Centre in Cannington as part of the early investment of the project.

What we have achieved so far is unique. Taken together these achievements mean we are ready to build at Hinkley Point C.



Hinkley Point C Nuclear Site Licence Team

Our project by numbers

- **25,000** new employment opportunities will be created over the construction period
- Two UK EPR™ reactors will generate low-carbon electricity for almost **6 million** homes
- **9 million** tonnes of CO₂ emissions will be avoided each year
- **50 million** hours of work will have been carried out on site
- Around **5,600** people will be employed on site at peak
- **900** permanent jobs will be created throughout **60** years of operation
- **£100 million** per year will be put into the regional economy during peak construction
- **£40 million** per year will go into the regional economy reaching over **£2bn** over the lifetime of the project
- The project will aim to create **1,000** new apprenticeships during construction
- Over **20,000** trees will have been planted at Hinkley Point C
- Hinkley Point C construction site will cover **175** hectares
- The main earthworks will excavate **4 million cubic metres** of earth – the equivalent of the volume of water in 1,300 Olympic swimming pools
- At least **3 million tonnes** of concrete will be used – 75 times more concrete than was used to build the Millennium Stadium in Cardiff
- **230,000** tonnes of steel reinforcement will be needed – enough for 1900 km of railway tracks that could stretch from London to Rome.



Prime Minister addressing EDF Energy employees



Concrete batching plant, Hinkley Point C



“The two EPRs that EDF together with its Chinese partners will build at Hinkley Point C will be the first third generation reactors to be built in the UK. We have the expertise, the supply chain and the teams ready to build Hinkley Point C safely, on time and on budget.”

Vincent de Rivaz CBE

Chief Executive Officer, EDF Energy

April 2016



Creating excellence through people and technology

Hinkley Point C team members on site

The Team

Creating excellence through people and technology

To ensure we are in the strongest possible position before construction begins, we have brought together some of the best and most experienced people from the nuclear industry and from other large and complex infrastructure projects including the Olympic Park and Heathrow Terminals 2 and 5. By combining our strengths we are building a world-class team to deliver this critical project.

We have recruited experienced professionals from other successful major infrastructure projects. These include people who helped deliver the London 2012 Olympics, widely recognised as one of most successful large and complex infrastructure projects of recent years. We also have the benefit of lessons learned from other EPR™ projects and the teams that have worked on them.

The latest generation of reactors build on the best aspects of the successful designs now operating, and add enhanced safety systems, reliability and greater fuel efficiency, all of which also enable increased output. Nuclear technology demands uniquely high standards throughout the engineering, design, manufacturing and construction process – and a relentless attention to creating a robust safety culture.

A world-class nuclear engineering team has therefore been brought together, experienced in the construction, safety assessment, operation and maintenance of Pressurised Water Reactors. This is backed by EDF's comprehensive research and design capability. We are also using innovation to shape our project. 4D modelling has ensured that we can see our build before a spade has gone into the ground. This model allows us to anticipate any challenges ahead of time.

As a result, we are confident that we have the right team, with the right experience and the right capabilities, to deliver Hinkley Point C successfully.



Hinkley Point C team at site

"Our people are energised. Motivated. They are ready to underpin with a human adventure, what is a formidable industrial adventure."

Vincent de Rivaz CBE

Chief Executive Officer, EDF Energy
European Nuclear Conference

Nuclear New Build Profiles

There is significant depth of experience in the Hinkley Point C team – below are some of the key members:



Humphrey Cadoux-Hudson

Managing Director

With a degree in engineering, Humphrey trained at KPMG as an accountant, moving from there to Seeboard where he became a Director in 2000. Prior to his appointment as managing director of the Nuclear New Build business, Humphrey was EDF Energy's Chief Financial Officer.



Philippe Bordarier

Project Director, Hinkley Point C

Philippe has a PhD in Physics from Ecole Normale Supérieure and has been through the MBA-like Corps des Mines programme in Paris.

Philippe joined EDF in 2009 as Plant Manager and was appointed Cruas-Meyssac NPP (four 900MW PWR reactors) Station Director in 2010. He moved to EDF Energy in 2014 into the role of Chief Nuclear Officer. He was appointed Project Director – Hinkley Point C in January 2016.



Robert Pays

Engineering Director, Hinkley Point C

Robert has a wealth of experience in the construction and commissioning of new nuclear power stations, gained during a 35-year career with EDF. Most recently he has been responsible for the engineering management of the new build EPR™ projects at Flamanville and Taishan.



Nigel Cann

Site Construction Director, Hinkley Point C

Nigel has worked in the nuclear industry for 35 years, being plant manager at Dungeness B and Sizewell B, and becoming station director at Hinkley Point B power station in 2007. He has been in his role of Site Construction Director since April 2011.



Ken Owen

Commercial Director, Hinkley Point C

A graduate in nuclear engineering, Ken spent over 9 years with British Energy before working in the automotive industry, in manufacturing, and on large infrastructure projects including the London 2012 Olympics. As the Commercial Director overseeing the Olympic infrastructure construction, he managed the procurement, management and integration of over 140 contracts.

Britain and France already operate over 50% of the EU's nuclear capacity, whilst it is expected that China will host around half of the total worldwide new nuclear projects by 2040. Together, these three major civil nuclear nations are now combining their experience to form our unique Nuclear New Build Team.

Gathering nuclear expertise from all over the world

Britain has more than half a century of experience of safe and successful nuclear power station operation. EDF is a world leader in nuclear energy, and our Chinese partners currently have 26 new nuclear units under construction. As such, we believe we are combining the right experience and capability to deliver nuclear new build safely on time and on budget.

EDF Energy's nuclear fleet, including the Pressurised Water Reactor at Sizewell B, now provides about 19% of the UK's electricity needs. There have been generations of nuclear reactors built in the UK, however all but one of the ten first-generation nuclear power stations in the UK are now closed. The seven second-generation power stations using Advanced Gas-Cooled reactors provide the backbone of the UK's current nuclear generation fleet.

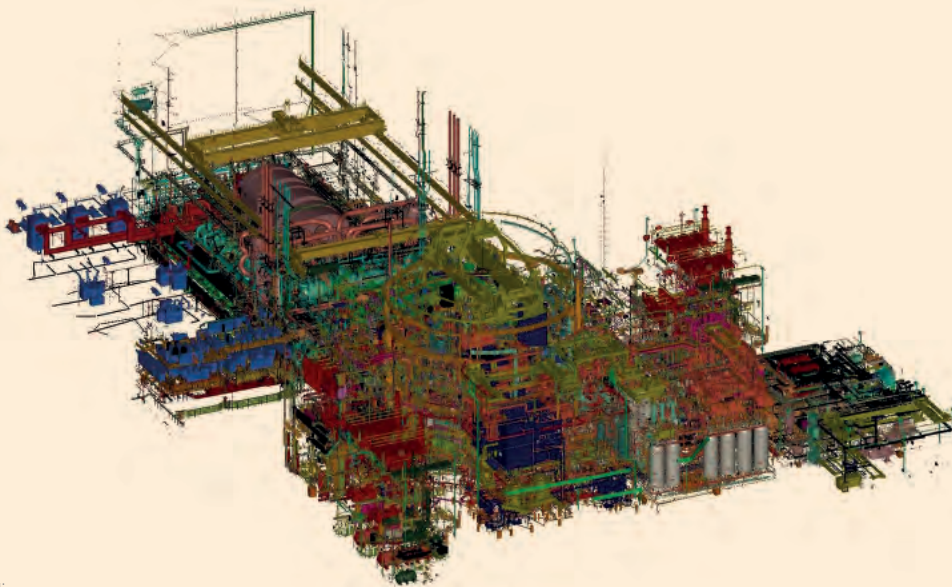
EDF has operated nuclear power stations in France since 1963, and today operates 58 nuclear reactors across the country. The company has a long history of exporting its nuclear expertise world-wide, beginning in the 1980s with the building of the Daya Bay power plant in China. With a number of EPR™ projects currently under construction, Hinkley Point C is already taking advantage of this extensive experience.

Hinkley Point C will be delivered by EDF Group and Chinese Joint Venture (CJV) partners. This partnership builds on a relationship which began



Flammanville 3 under construction

more than 30 years ago with the construction of nuclear power plants at Daya Bay and currently Taishan in China. Their joint expertise and capability will be of great value to Hinkley Point C in Somerset, Sizewell in Suffolk and finally Bradwell in Essex. EDF will lead the first two projects and will be partners in the Chinese-led third.



4D modelling

Evolutionary and innovative technology

Our UK EPR™ design draws on the experience of several thousand reactor-years of light water reactor operations worldwide. The design includes innovations to enhance safety, cost-efficiency and sustainability.

Safety innovations include:

- Greater robustness against external hazards such as aircraft crashes and earthquakes;
- Higher protection against core meltdown and its radiological consequences;
- Four-fold redundancy in safety systems; and
- Reduction in effluent release and radioactive waste compared with earlier reactor types.

Innovations to enhance the cost-efficiency of EPR™ reactors include:

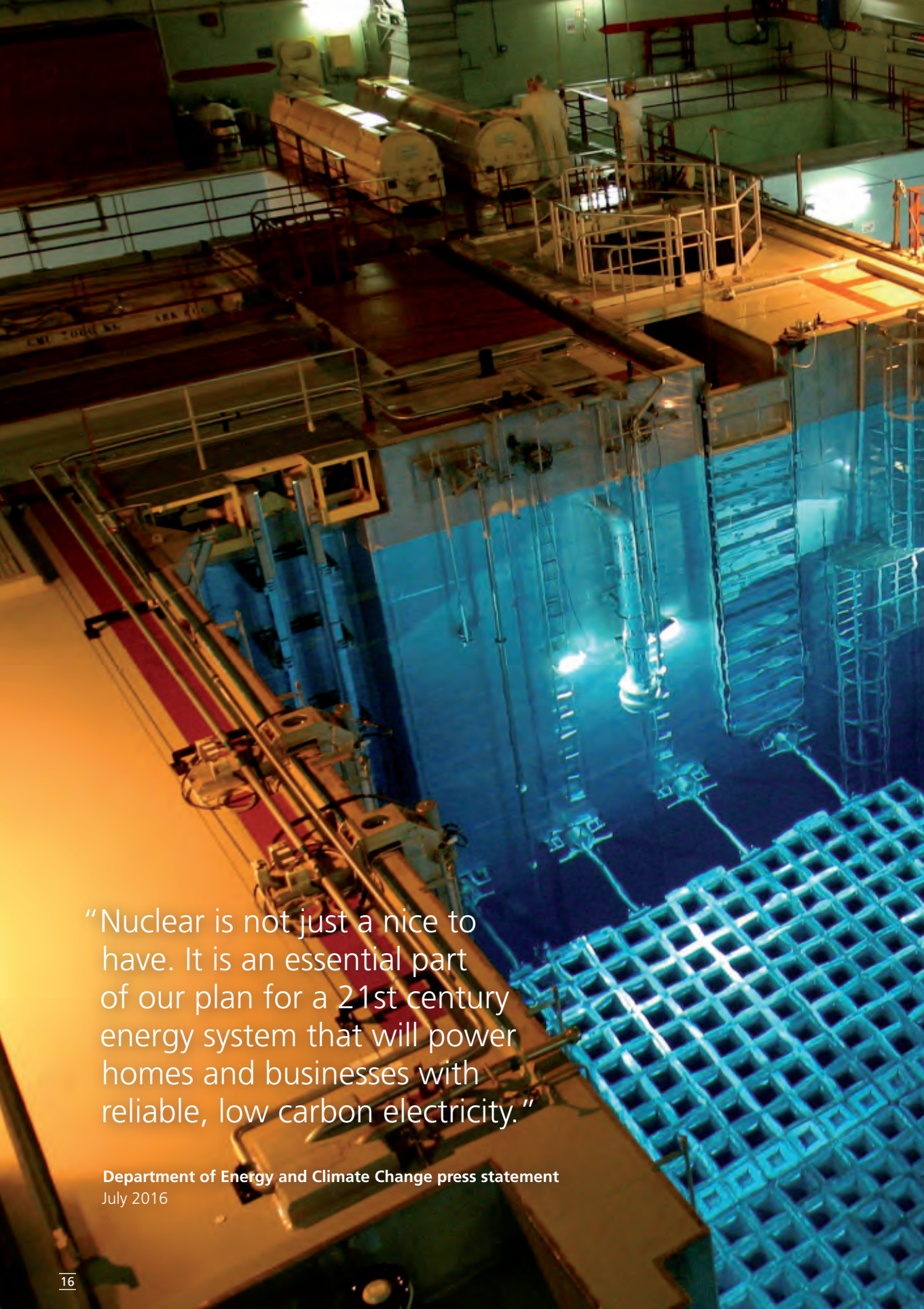
- 60-year service life design;
- High overall efficiency, through the use of an efficient steam generator;
- Continuous improvement of construction methodology and task sequencing to reduce construction time;
- Enhanced and more flexible fuel utilisation: the fuel assemblies are designed to achieve high performance, and the core design allows a fuel cycle length of up to 24 months; and
- An availability factor of more than 90 percent averaged over the entire service life of the plant.

The new EPR™ reactor design marks significant progress towards sustainability. The reactor has been designed to optimise the use of nuclear fuel and to minimise the production of long-lived high-level radioactive wastes. Thanks to its large core, surrounded by a neutron reflector, a maximum number of neutrons contribute to energy generation in the core. This means that the EPR™ reactor uses less uranium and produces less long-lived radioactive wastes compared with water reactors in operation today.

All these enhancements are the result of intensive work during the design and planning phase. More than 850,000 hours of engineering studies have given the project a stable design with known costs and improved reactor safety as part of the Generic Design Assessment process.

“The EPR™ in Flamanville is a first of a kind, the most powerful civil nuclear power and the most advanced in terms of efficiency and safety.”

Jean-Bernard Lévy
EDF Group Chairman
Press Conference, 3 September 2015



"Nuclear is not just a nice to have. It is an essential part of our plan for a 21st century energy system that will power homes and businesses with reliable, low carbon electricity."

Department of Energy and Climate Change press statement
July 2016

Underpinning success

Nuclear power station spent fuel pool

© EDF – Gabriel Liesse

Underpinning success

Building a nuclear power station is an ambitious project which brings its share of challenges. Our responsibility is to face and address those challenges and to find suitable and sustainable solutions before the start of construction.

Safety

Within EDF Energy, nuclear safety is our overriding priority and as such we continuously drive a culture where everyone recognises that they can have an impact on nuclear safety. This is essential now as the new build project progresses through design, procurement, construction and commissioning activities ahead of eventual operation. It is important that everyone within the project adopts the right values and behaviours that will ensure we always get the job completed safely and right first time, delivering what we have to against our design and quality requirements. Our ambition is 'zero harm' in all that we do.

One of the key requirements that will ensure we deliver a safe plant for the lifetime of 60 years is to get the design right. This has been and continues to be delivered through a detailed and rigorous design process which has included a comprehensive review by our regulators through the Generic Design Assessment process. This has confirmed that we have a safe and licensable plant design and work continues to develop the detailed design requirements to support procurement and construction.

As part of our safety culture one of our key values is to ensure that we are always open to learning from our own and others experience. We can never be complacent and must recognise that there will be opportunities for learning and improvement which we must act on. A clear example of this is that following the Fukushima accident in 2011 we have completed a comprehensive review of our design against the stress test requirements set by our regulator under the Generic Design Assessment process. This review and the overall design and assessment process has resulted in a plant that is safe against a wide range of extreme external events including extreme flooding and earthquakes.



Affordability

Ensuring that we deliver a decarbonised energy system at an affordable price for consumers is a priority. Nuclear power will play a key role. It is the cheapest option for delivering reliable low-carbon baseload power. A generation mix with higher shares of nuclear requires less in terms of backup and produces less excess energy, which means it provides benefits in terms of costs. For consumers, this will result in lower electricity bills in 2030 than a scenario relying on other low carbon technologies.

The agreed strike price of £92.50/MWh for Hinkley Point C is competitive with other forms of generation in the mid-2020s. It is less than the forecast cost of other large scale low carbon generation technologies.

This project marks the re-start of the nuclear construction industry in the UK. Restarting any industrial endeavour on this scale involves additional costs. However, these should reduce with subsequent projects, making nuclear even more competitive. It has already been agreed with the Government that the strike price for Hinkley Point will fall to £89.50/MWh if the Sizewell C new nuclear project goes ahead.

The Contract for Difference for Hinkley Point C has gone through considerable scrutiny by the Government and its external advisers. This included a rigorous and robust year-long examination by the European Commission, which concluded that the

long-term contract and guarantee were appropriate and proportionate. Taxpayers are not funding the project or taking construction risk, and consumers pay nothing until electricity is produced. The Contract for Difference also includes the costs of spent fuel and decommissioning the power stations after its 60 years of operation.

EDF is ready to deliver this project which will contribute to deliver the secure, low-carbon and affordable energy the UK needs, and which is poised to deliver immense benefits in terms of jobs, skills and economic growth – locally and nationally.

“New nuclear is an essential part of our plan for a secure, clean and affordable energy system that will power the economy throughout this century.”

Rt Hon Greg Clark MP

Secretary of State for Business, Energy and Industrial Strategy
July 2016

Waste and decommissioning

The UK needs to deliver a long-term solution for the radioactive waste accumulated over previous decades – not just from the civil nuclear industry but from other industries as well. The UK Government's solution is the construction of a geological storage facility. The Government's Managing Radioactive Waste Safely programme is currently working to identify a suitable site for a geological disposal facility to house the UK's spent fuel and intermediate level waste safely and securely.



After the on-site storage period the spent fuel from Hinkley Point C would be over-packed into durable, corrosion-resistant disposal canisters (illustrated above) which would be disposed of at the geological disposal facility.

As a developer of new nuclear power stations we will play our part by putting in place robust plans to manage the waste and spent fuel that we produce; to decommission our plants responsibly; and to set aside adequate funds for these plans. This is what the Funded Decommissioning Programme is for and we are fully committed to fulfilling the obligations we have and to taking full responsibility for our power station from beginning to end.

Work on site

EDF Energy has been keen to ensure the highest level of productivity during construction on site. We have pledged to create a progressive culture and project ethos that engenders respect for all people engaged in the work and promotes the highest standards of safety, quality and productivity. Our ambition is ultimately to create a step-change in the capability of the UK engineering and construction sectors.

2013 saw ground-breaking industrial relations agreements being made for Hinkley Point C, bringing together all site based unions and contractors. An overarching agreement establishing the framework for industrial relations for the project was signed with the GMB, UCATT, Unite and Prospect Unions, along with more specific agreements for civil engineering (UCATT, Unite and GMB), electrical and mechanical construction (Unite



and GMB), supervisory sector (Prospect and Unite), and facilities management and support services (GMB and Unite). Together the agreements play their part in EDF Energy's commitment to work together with unions and contractors to create a climate for positive industrial relations which promotes safety, quality and productivity.

Early preparatory works have been undertaken on site ahead of the main construction that will follow a final investment decision. These include the construction of roundabouts, temporary construction roads and drainage works. Also integral to being ready for main construction has been the process of Early Contractor Involvement with key contractor partners, allowing them to improve constructability, reduce risk and improve schedule.

Public support

We have been encouraged to see that public acceptance of new nuclear stations being built alongside existing ones remains strong. In 2016 we commissioned an ICM survey that found nearly two thirds of Britons (63%) back the use of nuclear energy as part of the UK's energy mix.

Our joint aspirations for the project are encapsulated in the Social Covenant which we agreed with the unions during 2012. It sets out the principles governing the close social relationship between EDF Energy, the contractors and the trade unions involved in the Hinkley Point C project:

- to deliver the safest, most competitive, productive and sustainable project in the UK;
- to provide among the most desirable places to work; and
- to deliver major socio-economic benefits to the local and wider UK communities.

It is crucial to have public support for new nuclear. Our ethos is to be open and transparent about our activities and to continue to make the case for new nuclear as part of the country's diverse energy mix.



"The Hinkley project has significantly contributed to the education and prospects of young people in Somerset."

Mike Robbins
Principal of Bridgwater College

A group of children wearing orange hard hats and blue school uniforms are gathered around a large, circular, orange-colored interactive exhibit. They are looking at the exhibit with interest. In the background, a large mural of the Earth from space is visible. The scene is set in a museum or educational facility.

Realising local benefits

Realising local benefits

Somerset children visiting Hinkley

Realising local benefits

The Hinkley Point C project aims to have a positive and lasting impact on Somerset and the whole of the South West. To that end listening to local people and ensuring we provide local benefits is at the heart of our project.

Listening

Our consultations with local communities have gone far beyond what is typically required of developers, and we have welcomed the opportunity to engage in a genuine two-way dialogue that has had a real effect in shaping our proposals for Hinkley Point C.

We formally consulted for more than 30 weeks, carrying out two main stages of consultation with a further two supplementary stages. Over a three-year period between 2008 and 2011 we directly engaged with 6,480 consultees, held 34 public exhibitions and attended 67 public meetings. We received more than 2,000 responses to our consultation, producing 33,000 categorised comments to which we responded. In addition, we continue to have a close relationship with neighbours near the proposed Hinkley Point C site, as well as ongoing liaison with key organisations such as government agencies, local councils, chambers of commerce and trade unions.

Significant changes have been made to the plans for Hinkley Point C as a direct result of consultation feedback, and every response was given serious consideration.

The consultation also helped identify potential issues with our neighbours close to Hinkley Point C and associated development sites and, wherever possible, we have worked to mitigate these impacts.



Hinkley Point C public exhibition

“It’s really positive to be working so closely with EDF Energy to secure opportunities and benefits for local firms.”

Dale Edwards

Chief Executive of Somerset Chamber of Commerce



Women into Construction event as part of the Hinkley Point C Inspire education programme

Benefits

Creating a lasting economic benefit to the area around the power station is a priority for us. The construction and operation of Hinkley Point C will provide a significant boost for local employment and we are committed to ensuring that as many local people as possible can take advantage of this opportunity.

We are investing in local people, equipping them with the necessary skills to work on the project, ranging from construction and energy skills to training in business and enterprise. Amongst a range of other investments and initiatives we have funded the development of a new Construction Skills and Innovation Centre, working closely with Bridgwater College. We have also made a multi-million pound investment to redevelop historic Cannington Court to become the EDF Energy Campus Management and Skills Training Centre.

There are also significant opportunities for young people throughout the project. In addition to the provision of new skills development facilities, local schools across Somerset are already benefitting from the work of the Inspire education programme. The Project also aims to create 1,000 apprenticeships during the construction of the new power station. Some of these apprentices will have gone through our Access to Apprenticeships scheme – a training scheme to help those with potential but who need help getting the right skills and qualifications to reach the apprentice entry level.



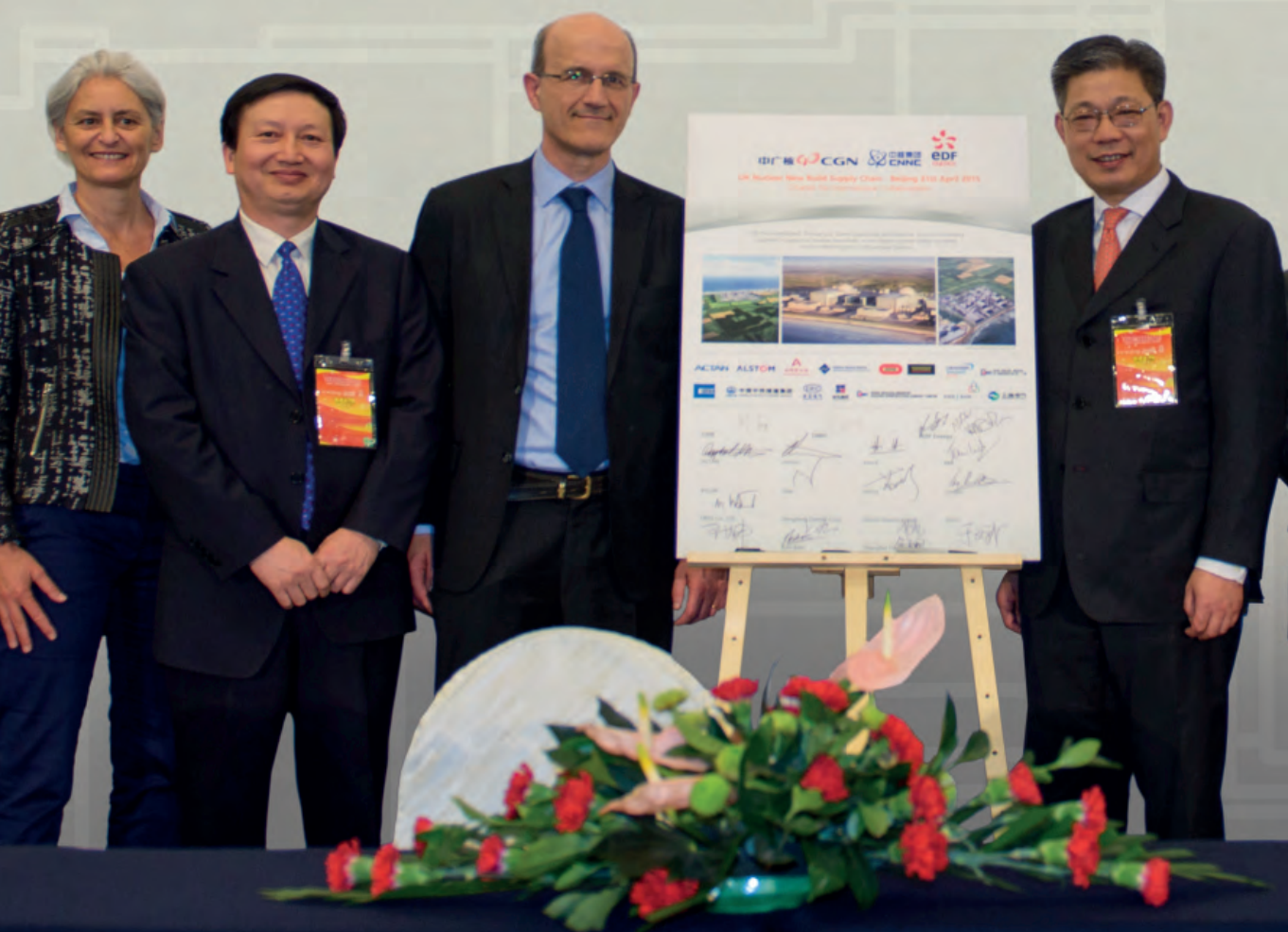
Vincent de Rivaz with students at Hinkley Point Visitor centre

Working in partnership with Job Centre Plus, the dedicated Hinkley Point C Jobs Service is working to help match people to the thousands of job opportunities generated by the project.

In addition to creating jobs, the project is providing substantial opportunities for local companies. More than 2,000 Somerset businesses have already registered their interest on our supplier database. Even at this early stage, local suppliers across the South West have already been announced as preferred bidders for the project with combined contract values of more than £225 million.

UK Nuclear New Build Supply Chain

China | United Kingdom



UK Nuclear New Build supply chain conference - Beijing 2015

Supply Chain – Beijing 2015

Kingdom | France



Bringing long-term rewards

“The opportunities are huge.
[...] Hinkley Point C will
inject £16 billion into the
economy – with the potential
for British firms to get the
majority of the work.”

Andrea Leadsom MP
Former Energy Minister
Parliament, 30 June 2015

Bringing long-term rewards

Fundamentally, Hinkley Point C is an energy project, designed to help the UK meet its long term electricity supply needs. But it is more than a nuclear power station – it will produce many other economic and social benefits too, including:

- Partnership Working – the skills and experience of British companies such as Laing O’Rourke, Balfour Beatty, NG Bailey, Doosan Babcock and Cavendish Nuclear, and French companies such as Bouygues TP, Bocard, Axima Concept, and Tunzini Nucleaire, are coming together to the benefit of the project. The UK supply chain brings knowledge of the national regulatory and construction environments, along with recent proven experience of delivering large infrastructure projects such as the Olympic Park and Crossrail. French companies have extensive experience and expertise in EPR™ technology and nuclear construction projects from all over the world. Many other companies internationally including Chinese businesses with strong nuclear credentials are also gearing up to participate in the project. In 2015 an agreement of international collaboration was signed between key UK, French and Chinese companies to work together in support of nuclear new build in the UK and overseas.
- Creating high value employment in the UK – In July 2015 we announced a number of preferred bidders with combined contract values of more than £1.3 billion. It is now estimated that more than 60% of the construction cost will be placed with UK firms.
- Reinvigorating the engineering, construction and manufacturing industries in both France and the UK, and providing an international showcase for their skills – France already has a strong track record for manufacturing and equipment supply to the nuclear industry, with many companies already supplying components for the EPR™. Hinkley Point C can be a launch platform for both countries to win a share of a potentially huge international market.
- Stimulating the supply chain – we have held a number of supply chain conferences, internationally, nationally and locally, to help businesses understand the requirements necessary to join the project. By 2015, over 1,700 companies had registered interest in supplying the project on our national registration system and more than 2,000 Somerset businesses had registered their interest on our local supplier database managed by the Somerset Chamber of Commerce. An innovative business approach has led to the involvement of local companies close to the HPC site in Somerset. It has encouraged them to join forces to supply site services, transport and accommodation. Key South-West joint ventures announced to date total £225m.

“We are building on 30 years of cooperation between EDF and our Chinese partner companies, including on the new EPR™ reactors being built in Taishan.”

Humphrey Cadoux-Hudson

Managing Director of Nuclear New Build, EDF Energy



Installation of the Dome – Taishan, China

© EDF – Philippe Convert

- Strengthening the UK economy through billions of pounds of investment – when the operational phase is included, around two-thirds of the value of the project will benefit the UK.
- Building a springboard for further nuclear projects in the UK, bringing significant new employment – the Nuclear Industry Association estimates that a new build programme of 16GW of capacity in the UK over the next 15 to 20 years could increase the number working in the nuclear industry from 44,000 to 66,500 at the peak of construction activity.
- Boosting GDP by £5.1 billion annually, and increasing exports by between £400 million and £900 million – a 2012 study by the Institute for Public Policy Research estimated that such an economic impact could result from a nationwide new nuclear build programme.
- Inspiring the next generation of young British engineers and scientists – EDF Energy already has a well-established apprentice scheme and Hinkley Point C will create many more opportunities, both within EDF Energy and the supply chain.

- Producing innovative ways to improve the UK's skills base – in order to prepare the potential workforce EDF Energy has also invested £11 million in training, education and skills in Somerset, with the opening of both a new Energy Skills centre and a Construction Skills Centre in partnership with Bridgwater College. The project will provide a wealth of apprenticeships and opportunities for the future workforce.

“As we compete in the tough global race, [the Hinkley Point C agreement] underlines the confidence there is in Britain and makes clear that we are very much open for business.”

Rt Hon David Cameron MP, Former Prime Minister
Visit to Hinkley Point C, 21 October 2013

About EDF

EDF is the world's leading nuclear power utility and one of Europe's largest energy companies with 38.5 million customers across Europe and 158,000 employees worldwide. Globally, the company generated 623 tera watt hours of electricity in 2014 alone. The Group's activities include generation, supply and other energy services.

EDF Energy is a wholly owned subsidiary of EDF Group, employing around 15,000 people across the UK. We benefit from the financial strength of a large European group, as well as combined procurement capabilities, pan-European dealings for major customers, international expertise and access to significant R&D resources. Ultimately, these all add to our reputation for stability and reliability.

EDF operates 58 nuclear reactors in France, with another under construction at Flamanville – the first EPR™ power station in France. In addition, EDF is part of a joint venture with China Guangdong Nuclear Power Corporation that is building two EPR™ reactors at Taishan in China.

EDF Energy is the UK's largest producer of low-carbon electricity, and produces around one-fifth of the country's electricity from its nuclear power stations, wind farms, coal and gas power stations and combined heat and power plants. The company supplies gas and electricity to more than 6 million business and residential customer accounts and is the biggest supplier of electricity by volume in Great Britain.

EDF Energy operates 15 nuclear reactors at sites across the UK and has published plans to build four more, two at Hinkley Point in Somerset and two at Sizewell in Suffolk, subject to the right investment framework. In addition, a further nuclear new build project would subsequently be developed at Bradwell in Essex.

As with Hinkley Point C, our proposed power station at Sizewell C in Suffolk would have a 3.2GW capacity, enough to power around 6 million homes. It will benefit from being the second in a series, using the same EPR™ reactor design as Hinkley Point C. Our initial proposals for Sizewell C were published in November 2012 when we undertook the first round of formal consultation with local communities.



Contact us

We would be happy to talk to you about the project. Please feel free to contact:

Alex Kaufman, Head of Nuclear New Build
Communications, EDF Energy

E: alex.kaufman@edf-energy.com

T: +44 (0) 203 219 8309



edfenergy.com

NNB Generation Company Limited, 40 Grosvenor Place, Victoria, London, SW1X 7EN. Registered Number 06937084.

Visualisations of completed development are illustrative.

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