

# Hinkley Point C Project update

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Energy NNB**

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# Safety Culture

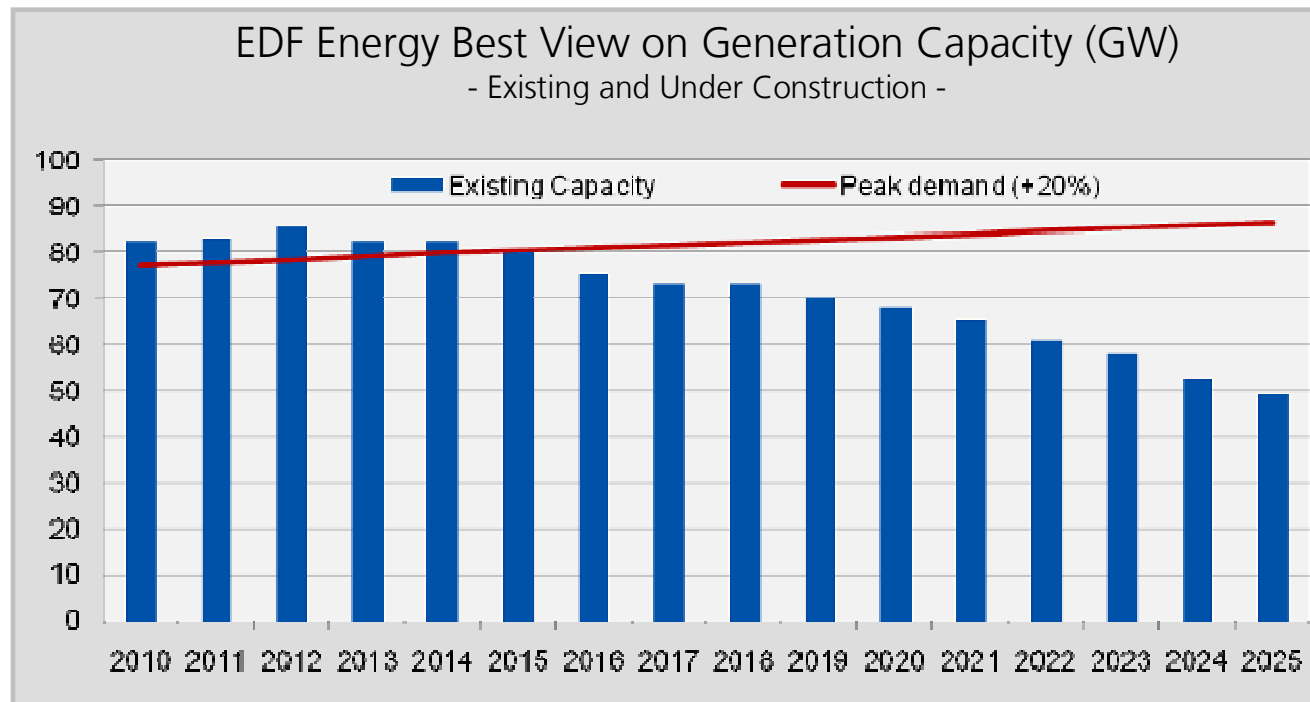
## **SAFETY IS OUR NUMBER ONE PRIORITY**

It is our duty to ensure the safety of the public, our employees, our power stations and the environment

In the nuclear industry we ensure the safety of our plant and aim to achieve a high standard of performance from our people through:

- **Safety in design** – built-in multiple safety systems
- **Regulation** – nuclear power is a highly-regulated industry
- **Training** – continuous improvement leads to organisational excellence. We want our staff to be inspired and engaged, to raise their own standards and those of others, and to continually improve.

# Need for New Nuclear: The Energy Gap



- **Coal and oil:** 24 GW likely to retire by 2025 (LCPD/IED and lifetime expiration).
- **Nuclear:** 9GW of nuclear reaches the end of its authorised life by 2025 (leaving only Sizewell B – 1.2GW – in operation).
- **Gas:** c.10GW of CCGTs under construction help to fill the gap in the short-term, **but** will also embed higher carbon assets in the future capacity mix.

# What We Want to Build - 4 EPRs ( HPC & SZC)

- Areva/EDF evolutionary design
- Pressurised water reactor (like Sizewell B)
- 2 x 1630 MW (electrical)
- Each can supply around 2.5 million homes
- Uses 17% less uranium and produces less waste
- Under construction in France, Finland & China
- c. 700 – 900 operating staff
- 60 year operating life
- 7-8 year construction programme



## Key

A Reactor building  
B Four safeguard buildings  
C Fuel building  
D Nuclear auxiliary building

E Radioactive waste processing building  
F Emergency diesel generator building  
G Turbine building  
H Power transmission platform

I Operator building  
J Pumphouse building  
K Outfall structure  
L Conventional electrical building

Cross section of  
single UK EPR  
(illustrative layout)

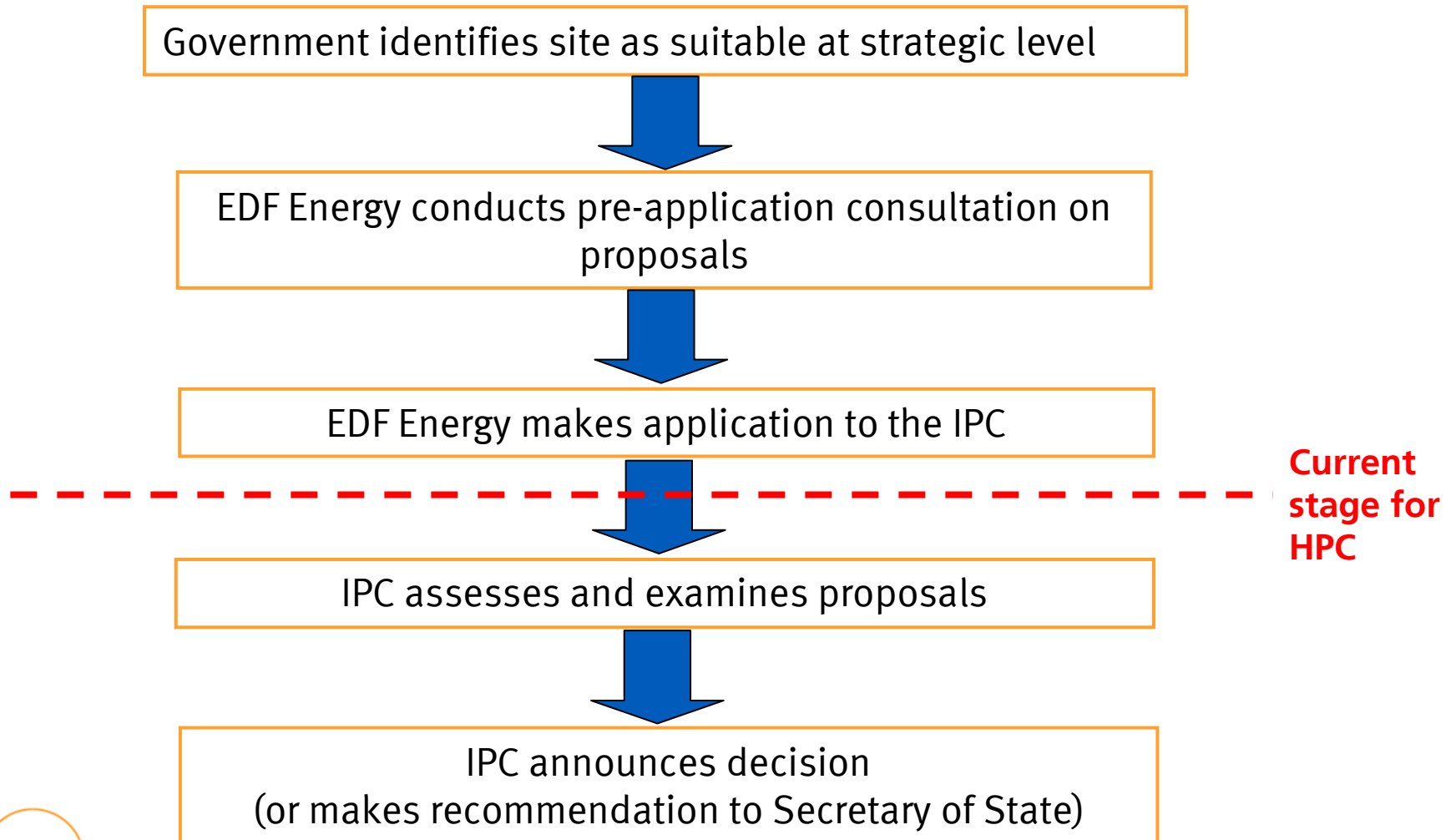
# Hinkley Point C Project Update



# Hinkley Point C – Progress to Date

- Extensive pre-application consultation with statutory stakeholders and the local community since Nov 2009. Details can be found at [www.edfenergyconsultation/info](http://www.edfenergyconsultation/info)
- Site Preparation approval from West Somerset Council on 28 July 2011, with conditions – major earthworks to prepare the site
- Submitted Nuclear Site Licence and environmental permit applications – 29 July 2011
- Water Discharge Activity Permit - 23 September 2011
- Inquiry on temporary jetty application to Marine Management Organisation started on 15 November 2011
- Development Consent Order application, to build the new nuclear power station with two EPR units and associated development works, was submitted to Infrastructure Planning Commission on 31<sup>st</sup> October 2011

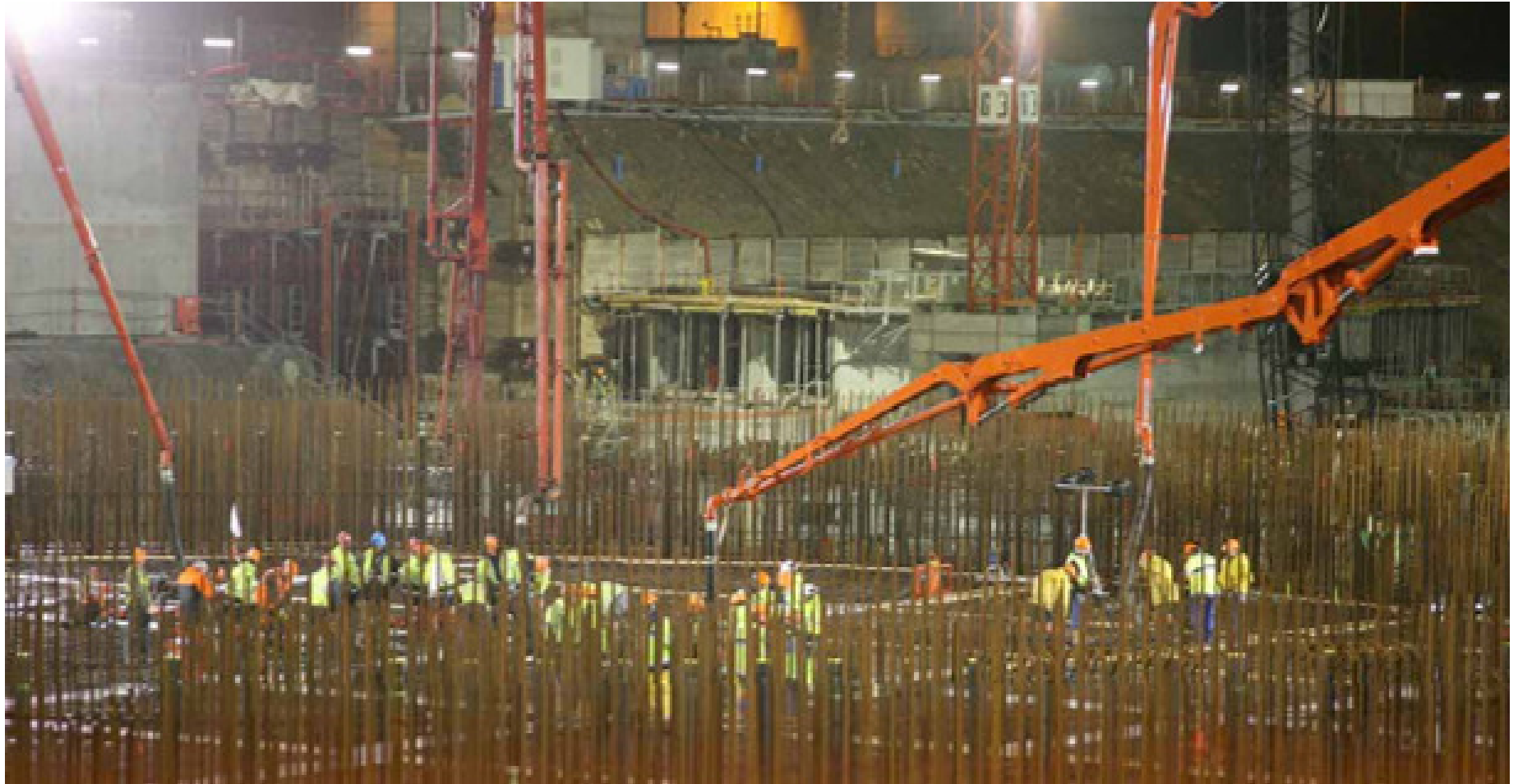
# Planning Stages



# Hinkley Point C - Earthworks

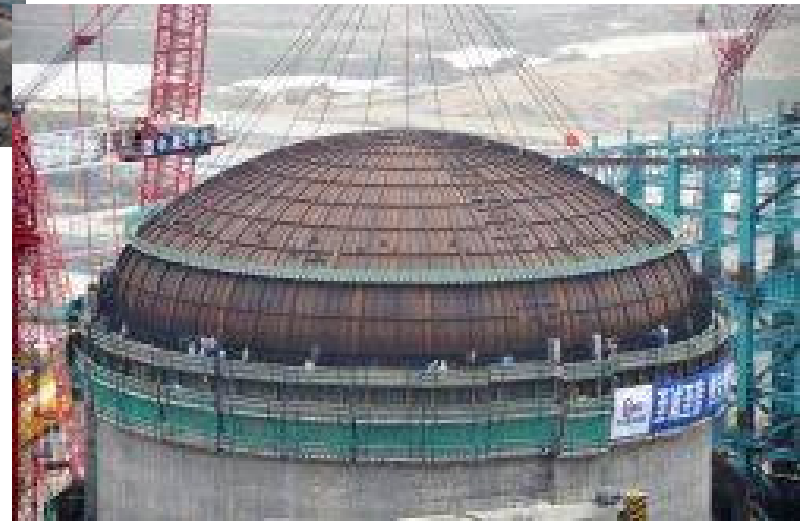


# Hinkley Point C - Civil works





# Taishan, China. Unit 1 Dome Installed



October 2011

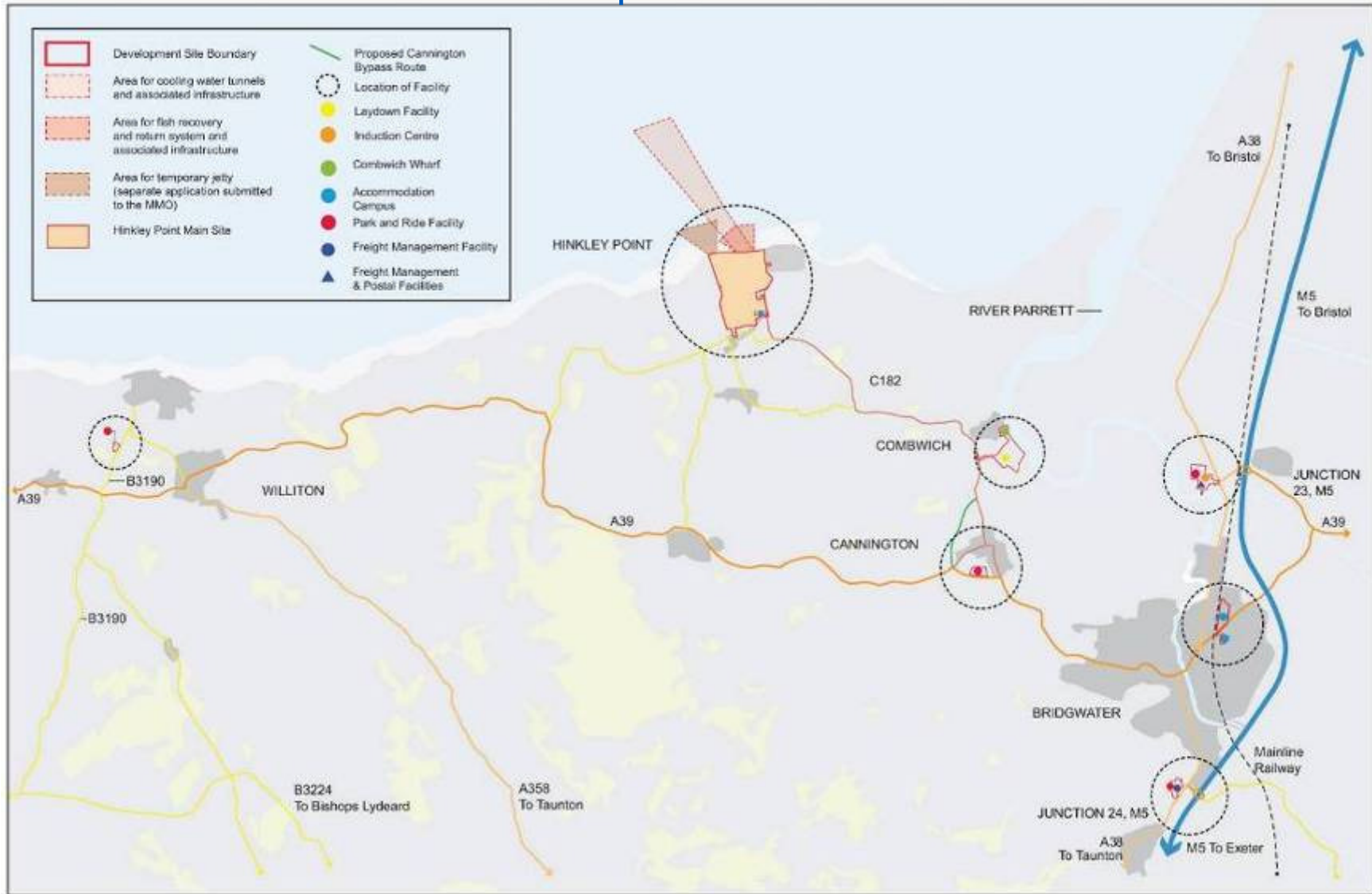
# Hinkley Point C - Marine Works



# Hinkley Point C - Mechanical and electrical



# HPC Associated Developments



# Hinkley Point C – Key Figures

- At least 5,000 jobs for Somerset people expected during construction
- 900 operational staff, nearly all based in Somerset
- £100 million contribution to the local economy during each year of construction
- £40 million to the local economy during each year of operation
- £300 million proposed to mitigate the impacts of the project and enhance community benefits
- Of which, £100 million should be of lasting legacy benefit to the community

# Summary Status of Hinkley Point Contracts

Contracts	Status
Site Investigations	Completed by Structural Soils & Fugor Seacore
Site Preparation	Let to Kier/BAM JV
ITPIA	Let to Lloyds/Appave
Temporary Jetty	Civil tenders being assessed – Handling Systems let to Fairport Engineering
Preliminary Works/Earthworks	Preferred Bidder identified
Main Civils Works	2 <sup>nd</sup> stage Tenders have been received and the deselection process is ongoing
Equipment Supply; Tanks, Pumps, Valves	Some ITT's issued and awaiting returns
NSSS	Mutual agreement contract with AREVA
Ancillary Buildings	Prequalification on-going
Mechanical & Electrical Contracts	Prequalification started late 2010
Conventional Island (Turbines)	Tenders being assessed
Construction Power Supply	Let to UK Power Networks

**Note: All contracts are dependent on receiving the relevant permissions**

# Local Supply Chain

- We are working with the local Chambers of Commerce to maximise the opportunities for businesses in Somerset to get involved in the delivery of NNB.
- We will need to procure a wide range of contracts across all sectors – engineering, construction, transport, cleaning, catering etc, so a vast amount of business opportunities will be open to non-nuclear sectors.
- Companies can register their interest at the following online portal hosted by the Somerset Chamber of Commerce:
  - [www.hinkleysupplychain.co.uk](http://www.hinkleysupplychain.co.uk) – > 770 companies registered so far - (plus a further 180 regional companies)
  - A National supplier portal is due to be launched in December 2011 at the EDF Energy National supplier conference.
  - A similar arrangement will be set up to support Sizewell C.

## Hinkley Point C - Local business benefits

What are the tangible local benefits now ?

Number of local suppliers used - **>70**

Value of contracts **£ 14.1 Million**

Number of regional suppliers used - **>34**

Value of contracts **£14.5 Million**

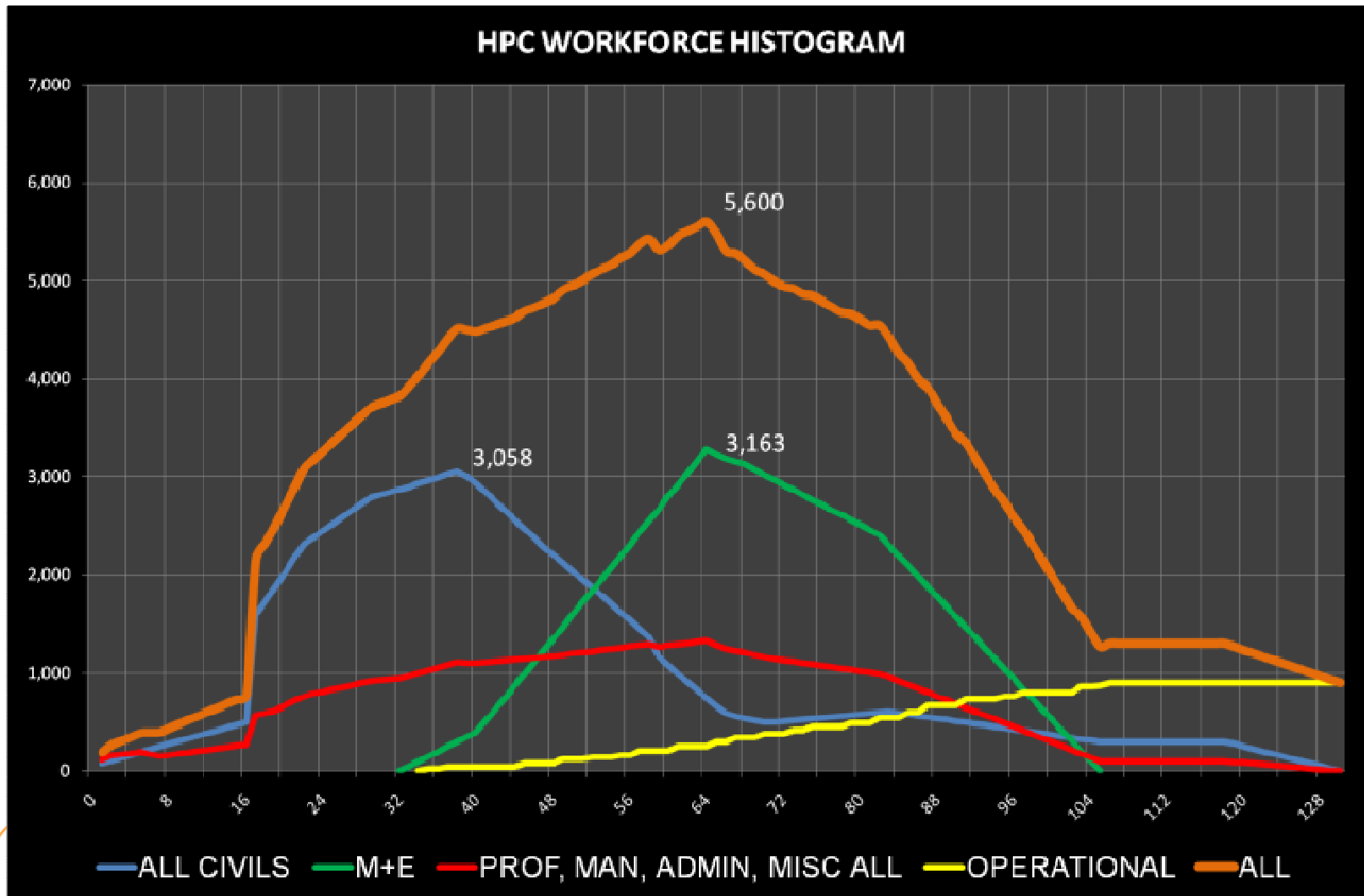
August 2011 Data

# Skills, the Local Economy and Jobs

Skills priorities for Hinkley Point C include:

- Providing pathways to training which lead to sustainable employment: i.e. Employment Brokerage Scheme with Job Centre Plus in Somerset.
- Creating a future workforce through the provision of apprenticeships and training opportunities in the construction supply chain.
- Creating a sustainable legacy for Somerset and the region.
- Providing a substantial investment in training infrastructure

# Hinkley Point C - Employment & Skills – Profile



thank you