



## Sizewell C Have your say

Over the next 11 weeks (21 November 2012 - 6 February 2013), you have the opportunity to have your say on EDF Energy's early plans to build a new nuclear power station, Sizewell C.

This Stage 1 consultation is your first opportunity to look at our initial proposals and options, and to give us feedback on our work so far.

We want to hear from people in the local community, including all those living, working or who otherwise use the area around the Sizewell C and associated development sites.

We will carefully consider your feedback when preparing our detailed proposals for this project, before we apply to the Secretary of State for a Development Consent Order. Prior to submitting the application, we will hold at least one further stage of consultation.

This newsletter sets out some of the key facts about Sizewell C, tells you where you can find out more detail, and explains how you can have your say.

We encourage you to give feedback on:

- Our overall proposals for the Sizewell C nuclear power station;
- Options for associated development (such as park and ride sites and accommodation for workers) needed to support the construction and/or operation of the power station; and
- The potential effects on the local community, both positive and negative.



### EDF Energy is delighted to begin formal consultation on its proposed new nuclear power station, Sizewell C

I would like to say how much we are looking forward to talking to local communities in Suffolk and with other stakeholders about our proposals.

Sizewell C would generate enough electricity to supply one in five homes in Britain. It would make an important contribution to the UK's future needs for low-carbon, secure and affordable energy. It would also create significant business, training and employment opportunities locally, regionally and throughout the UK.

I urge you to play an active role in this consultation process. We are committed to giving your feedback serious consideration and will take it into account as we prepare detailed plans for Sizewell C.

**Richard Mayson**

*Director of Planning and External Affairs, Nuclear New Build, EDF Energy*

# The Sizewell C Power Station

The proposed development site is located directly to the north of Sizewell B power station.

## The permanent development would include:

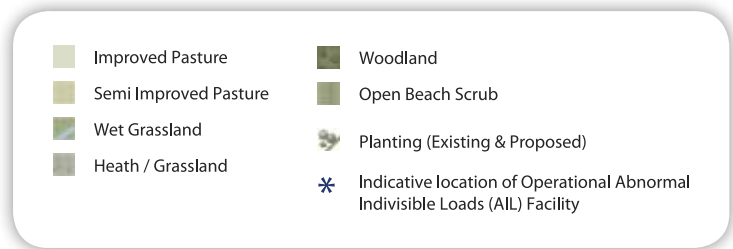
- Two UK EPR units and associated buildings (the 'Nuclear Island'), turbine halls and electrical buildings (the 'Conventional Island')
- Cooling water infrastructure including pumphouses, associated buildings, tunnels extending out to sea and headworks
- Fuel and waste storage facilities including interim storage for nuclear waste and spent fuel
- External plant including bulk storage tanks
- Operational service centre and ancillary, office and storage buildings
- Transmission infrastructure, including a National Grid 400kV substation, removal and relocation of one existing National Grid pylon/tower and associated realignment of power lines
- Internal roads, a bridge, car parking and a helipad
- Access road to adjoin the B1122 and related junction improvements
- Sea protection
- Simulator building / training centre
- A Sizewell visitor centre - We are proposing to build a new visitor centre that would eventually replace the temporary centre at Sizewell B
- Landscaping of the areas to be restored following their use during construction

## Construction

Should we receive the necessary consents, and once the site has been prepared, we expect that construction of the power station would take approximately seven to nine years.

During construction, additional land would be needed temporarily for construction purposes, which would include:

- Construction working areas, laydown areas, workshops, storage and offices
- Temporary structures including a concrete batching plant
- Spoil / stockpile storage
- Temporary bridges between the power station and associated works areas
- A jetty - part of which could remain permanently
- A temporary rail extension into the construction site
- Works areas on the foreshore for the installation of cooling water infrastructure and sea protection
- Construction roads, fencing, lighting and security features
- Site access arrangements and coach, lorry and car parking
- A development site accommodation campus



Indicative operational landscape plan



# The Reactor Explained

The Sizewell C site would have two reactors, capable of generating enough electricity to supply approximately five million homes in Britain.

The design of the UK EPR is based on technology used successfully and safely around the world for many years. It includes innovations to enhance performance and safety. The UK EPR is currently undergoing a Generic Design Assessment process, carried out by the Office for Nuclear Regulation (ONR) and the Environment Agency. For more information see: [www.hse.gov.uk/newreactors](http://www.hse.gov.uk/newreactors)

## Fuel and waste

The design of the UK EPR makes the most efficient use of fuel possible, ensuring the least possible amount of spent fuel is produced.

Spent fuel removed from the reactors would initially be stored underwater in a reactor fuel pool. The spent fuel and intermediate-level radioactive waste would be kept on-site until a national geological disposal facility becomes available.

Low-level waste would be treated on-site to limit its volume and, after appropriate conditioning and packaging, it would be removed for disposal.

## Safety

We make safety our overriding priority. Nuclear power is one of the most rigorously regulated industries in the UK. In order to operate the proposed new nuclear power station we would require a nuclear site licence from the ONR and environmental permits from the Environment Agency.

## Decommissioning

At the end of electricity generation at Sizewell C the site would be decommissioned, a process likely to take about 20 years.

However, the spent fuel store would continue to operate until a national geological disposal facility becomes available.



## Illustrative UK EPR unit layout

- 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

# Accommodation & Transport



We have initial plans for accommodating and transporting the large numbers of people needed to build Sizewell C, and in addition are aiming to reduce the volume of freight on roads.

Our aim is to limit the traffic pressure caused by workers travelling to and from the Sizewell C development site.

We propose to build a temporary accommodation campus and park and ride facilities to reduce the number of journeys taken. In addition, we aim to minimise the volume of freight on the roads by moving construction materials by sea and rail, where practicable.

## Accommodation

When construction is at its peak, we estimate that about 34% of the construction workforce would live at home and commute to work on a daily basis. The remaining 66% would live in temporary accommodation in the area.

We propose to build a temporary accommodation campus to house between about 2000 - 3000 people. This would have many benefits including relieving pressure on privately-rented housing and tourist accommodation.

## Park and Ride

Park and ride facilities would significantly reduce the amount of Sizewell C traffic on local roads during the peak years of construction.

We propose to build two temporary park and ride sites near the A12 – one for drivers approaching Sizewell from the north and the other for those approaching from the south. The park and ride sites would have spaces for about 1,000 cars in each. The southern park and ride could also include lorry parking.

## Rail Transport

We propose to upgrade and extend parts of the existing rail network near Sizewell, so that it could be used for the delivery of freight during construction and help reduce road HGV movements.

This includes options for either a new rail terminal in Leiston or a rail extension into the development site, for which we are proposing three possible routes.

## Sea Transport

Our proposed jetty would play a major role in moving freight during construction, significantly reducing the need for road transport.

The jetty would allow the sea delivery of bulky materials and very large items known as Abnormal Indivisible Loads (AILs), and the removal of excavated material.

## Lorry Management

Some freight would have to come by road and we are therefore considering a range of management systems which may require the construction of a lorry park with around 50 - 100 parking spaces.

We would prefer the lorry park to be built at the southern park and ride site as this avoids the need for additional development. However, there are also three other options for a 'standalone' lorry park.

## Road Improvements

Our proposed investments in rail, sea, accommodation, park and ride facilities would help to limit road traffic impacts. However some of the most likely areas for impact during construction are the A12 and B1122.

A12 - It is our view at this time that a four village bypass cannot be justified as a result of impact from Sizewell C. However the bend at Farnham could require improvements for which we are considering a number of options.

B1122 - It is anticipated that the B1122 would be the approved HGV route for traffic between the A12 and the Sizewell C construction site. The junction of the A12 with the B1122 at Yoxford is likely to require improvement to ensure a smooth flow of traffic.





	Lorry Park <b>Option</b>		Existing Railway Line		Major Road - A12
	Accommodation Campus <b>Option</b>		Railway Line <b>Blue Option</b>		Other Roads
	Visitor Centre <b>Option</b>		Railway Line <b>Green Option</b>		Indicative SZC Development Site
	New Rail Terminal <b>Option</b>		Railway Line <b>Red Option</b>		
	Park and Ride <b>Option</b>				





## Local Opportunities

Sizewell C would be one of the biggest and most technologically complex construction projects ever built in the UK.

We believe it would create long-lasting opportunities for the local economy.

A key benefit would be the high quality employment and training it would generate. Many of the skills needed would be transferable, and we would work to develop sustainable skills for future generations as well as for those who would work on Sizewell C itself.

It is expected that about 5,600 workers would be employed on site during the peak of the construction period.

Once the power station was operational, about 900 people would be employed on site, as well as a further 1,000 during planned 'outages' when the reactors would be shut down for routine maintenance.

These roles would range from caterers, secretaries and drivers to engineers and managerial staff. We would create an employment brokerage service to support local people looking for work at Sizewell C.

A website run by the Suffolk and Norfolk Chambers of Commerce is already available for businesses to register their interest in becoming suppliers:

[www.sizewellsupplychain.co.uk](http://www.sizewellsupplychain.co.uk)

We will work in partnership with schools, colleges, businesses, training providers, local authorities and central government to help build education programmes and skills appropriate for the area.

We will put particular emphasis on helping people who are currently unemployed or economically inactive, or who need new skills or want their current skills improved.

EDF Energy already runs successful apprenticeships and graduate schemes, which will be expanded to support Sizewell C.



Students at an Enterprise Centre opening day in Somerset

## Sizewell C and the UK's energy needs

By the end of this decade, power stations producing about a quarter of the UK's total electricity output are due to close.

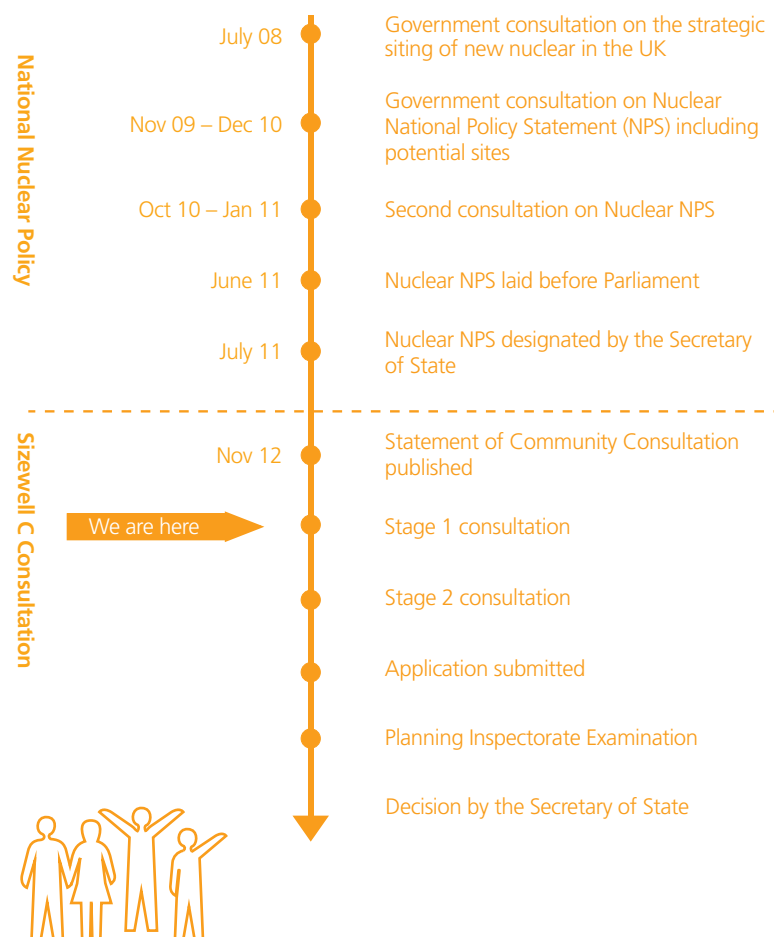
This comes at a time when demand for electricity is expected to rise, as Britain makes the transition to becoming a low-carbon economy.

The Government has decided that new nuclear power stations would help to maintain security of supply, while also enabling Britain to meet its climate change targets as nuclear power is a low-carbon source of electricity generation.

Sizewell C has been designated by the Government as one of eight 'potentially suitable' sites for new nuclear power generation in England and Wales.

In developing its policy, the Government looked in some detail at a wide range of factors before deciding that Sizewell could potentially be suitable as the site for a new nuclear power station. These fundamental decisions have been taken nationally and were widely consulted on, so are not covered as part of this consultation.

### Sizewell C consultation: where are we now?



## Sizewell C Information Office

The Sizewell C Information Office in Leiston (48-50 High Street, Leiston, IP16 4EW) will be open for local people to get information and ask questions about Sizewell C from Wednesday 21 November.

### Opening hours during public consultation:

During the first fortnight of the Stage 1 public consultation there will be a series of public exhibitions taking place. The office will still be open between 9.30am – 5pm at this time, with staff on hand to provide literature on the proposals.

After this time the office will be open every Saturday from 9am until 12pm from 15 December until 2 February 2013. The office will close from midday on 22 December and re-open on 2 January 2013.



## Exhibitions

These are the dates of our forthcoming public exhibitions, which will be an opportunity for you to find out more about our plans, speak to representatives of EDF Energy and share your feedback on our proposals:



TOWN	VENUE	DATE	TIME
Leiston	Leiston United Church, High Street	Friday 23 November	2pm – 8pm
Leiston	Leiston United Church, High Street	Saturday 24 November	12.30pm – 4.30pm
Theberton	St Peter's Church	Monday 26 November	2pm – 8pm
Westleton	The Village Hall, Darsham Road	Tuesday 27 November	2pm – 8pm
Saxmundham	Market Hall, High Street	Thursday 29 November	2pm – 8pm
Yoxford	The Village Hall, Old High Road	Friday 30 November	12pm – 5pm
Stratford St Andrew	The Riverside Centre, Great Glemham Road	Saturday 1 December	10am – 4pm
Southwold	The Methodist Church, East Green	Tuesday 4 December	2pm – 8pm
Halesworth	The Rifle Hall, London Road	Wednesday 5 December	2pm – 8pm
Wickham Market	The Village Hall, High Street	Thursday 6 December	2pm – 8pm
Aldeburgh	The Baptist Church, High Street	Friday 7 December	2pm – 8pm
Melton / Woodbridge	The Lindos Centre, Saddlemakers Lane, Melton	Saturday 8 December	10am – 4pm

## How To Have Your Say

We are keen to hear your views on this Stage 1 Consultation for Sizewell C and we encourage your feedback.

- A public questionnaire can be found online at <http://sizewell.edfenergyconsultation.info>
- You can email your comments to [sizewell@edfconsultation.info](mailto:sizewell@edfconsultation.info)
- Written responses can be posted to **Sizewell Nuclear New Build, FREEPOST LON20574, London, W1E 3EZ**
- You can also call our freephone number **0800 197 6102\*** (during normal office hours)
- You can also contact the team on Twitter [@edfesizewellc](https://twitter.com/edfesizewellc)
- Copies of all the consultation documents are available to view during the Stage 1 Consultation period at the Sizewell C Information Office (48-50 High Street, Leiston, IP16 4EW) during normal office hours; in the offices of Suffolk County, Suffolk Coastal District, Waveney District and Ipswich Borough Councils; and at the public exhibitions and events that will be held during the consultation period
- The consultation documents will also be available in a number of local public libraries, on disc and to download by visiting the Project website <http://sizewell.edfenergyconsultation.info>
- If you have a general EDF Energy customer/billing enquiry, please call **0800 096 9000**

\*This is a freephone number but please note that you may be charged if you are calling from a mobile phone.

Please remember: the deadline for responses to this first stage of our consultation is Wednesday 6 February 2013

