

Site Stakeholder Group

Sizewell B Report – March 2016



Station Director's Report - March 2016

1. Safety performance and staffing

Station Safety Performance

During the period of the report there has been:

- No injuries to staff
- No nuclear reportable incidents
- No environmental incidents

Staffing at Sizewell B

We currently have 523 EDF Energy staff, 24 Apprentices and 250 year round contracting partners.

2. Generation

Operational output

The station has operated at around full power during this period.

Please click on the link below that provides a daily update of the status of our eight nuclear power stations. The link will show which nuclear reactors are in service and what they were generating at the time the information was updated. You can also see which reactors are out of service, what the reasons are and when we expect them to return to service. In addition, we have included the expected timing of the next statutory outage of each nuclear reactor.

<http://www.edfenergy.com/energy/power-station/daily-statuses>

3. Company Update

Generation performance in 2015

In 2015, the nuclear fleet generated 60.6 TWh (terawatt hours). This powered the equivalent of 14.9 million or over half (56%) of the homes across the UK.

This also avoided the production of just over 49 million tonnes of carbon dioxide and equivalent greenhouse gases (known as MtCO₂e). That's the equivalent of taking just over 23 million or 78% of all passenger cars off the road.

In 2014 the nuclear fleet generated 56.3 TWh, which avoided the production of nearly 44 MtCO₂e, the equivalent of taking just under 20 million cars (or 68%) off the roads.

Hundreds apply for apprentice places

Sites within EDF Energy's generation fleet saw a late rush of applications for the 2016 apprentice recruitment programme. The company saw more than 1270 applications for its 53 apprentice positions, spread across its eight nuclear power stations, and the coal and gas stations in Nottinghamshire.

The next stage for the successful applicants will be a series of assessments, followed by formal interviews. Those offered a place will spend the first two years of the four-year training programme at HMS Sultan, near Portsmouth, before returning to their base stations.

Nuclear power station life extensions

EDF Energy has announced new scheduled closure dates for four nuclear power stations. These are Heysham 1 and Heysham 2 in Lancashire, Hartlepool in Teesside and Torness in East Lothian.

- Scheduled closure dates for Heysham 1 and Hartlepool extended by five years to 2024
- Scheduled closure dates for Heysham 2 and Torness extended by seven years to 2030
- The four nuclear plants together supply electricity to around a quarter of the UK's homes. They employ 2000 permanent staff as well as 1000 contractors.

The announcement follows life extensions at EDF Energy's other Advanced Gas Reactor (AGR) power stations. In total, the programme has the potential to avoid 80m tonnes of CO₂ emissions, equivalent to taking all the cars off the road in the UK for three and a half years.

EDF Energy invests £600m a year in its nuclear plants and this investment is paying off. In 2015, their output was 60.6TWh, the highest level for 10 years and 50% higher than in 2008 when EDF Energy acquired the stations.

In the face of challenging market conditions, belief that two important Government policies will be maintained and strengthened has given EDF Energy the confidence to move the scheduled closure dates of the four stations. The Carbon Price Floor encourages generation from low carbon sources like nuclear, while the Capacity Market ensures the UK has the power it needs.

Last year, safety performance was the best ever with zero reportable nuclear events. The number of unplanned outages in 2015 dropped by more than 50% compared with the year before.

The announcement follows extensive technical and safety reviews of the plants which have been shared with the independent nuclear regulator, the Office for Nuclear Regulation (ONR).

4. Sizewell B and community news

Sizewell B turned 21 on 14 February

Sizewell B employees enjoyed a look back through the film archives in a special exhibition held in the power station visitor centre showing the people and progress at the site. It is estimated that Sizewell B has saved 126 million tonnes of carbon dioxide equivalent emissions which is the equivalent of keeping all cars in the UK off the road for over a year.

The power station delivers safe, reliable power to over 2million homes and businesses every day and is on track to have a 'breaker to breaker' run of generation over the last 18months. Which means non stop electricity was delivered to the grid between the maintenance outage in 2014 until the next outage in April 2016.

Sizewell B achieved a UK nuclear industry record in 2015 by delivering 10.51TWhrs of power generation.

Sizewell B will operate until 2035 but this could be extended by 20 years. EDF Energy is also proposing to build Sizewell C next to the existing power station. This would be capable of providing power to 5million homes and creating 5,600 jobs during the peak construction period.

The station is already a key employer in the eastern region bringing some £40million pounds each year into the local economy through wages alone.

New Leader for Sizewell B

Effective from 1 March, EDF Energy's Paul Morton takes over from Jim Crawford as Sizewell B station director. Paul has a long history with the energy sector and joins Sizewell B from EDF Energy's Cottam power station in Nottinghamshire.

Paul Morton brings 25 years' experience in the power industry and has worked for CEGB, PowerGen, EON and EDF Energy at High Marnham, Ratcliffe, Connah's Quay, Enfield, Grain (Oil & CCGT) and Cottam. Cottam and its sister station West Burton A are coal-fired power stations near Retford in Nottinghamshire, capable of generating enough electricity for

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approximately 7.5 million UK homes. Cottam is a 2000MW station which began generating power in 1969 and employs 220 people and around 175 contract partners.

Jim Crawford has been appointed as Project Development Director for EDF Energy's Sizewell C project. The new role takes effect from 1 March and will see Jim take responsibility for leading the Sizewell C project to a successful final investment decision and into construction.

Sizewell B Refuelling Outage 2016

Sizewell B power station will be brought offline in April 2016 to begin its fourteenth refuelling and maintenance outage, as planned.

An extra 1,500 specialist workers will join the Sizewell workforce and provide a boost to the area's hotels and businesses. During the approx six week period they will carry out over 13,000 separate pieces of work which have been carefully planned during the last two years.

The biggest projects include the planned 10 year inspection of the Reactor Pressure Vessel (RPV). In addition to this work as well as refuelling the reactor, we will also deliver major investment and routine maintenance work during the outage:-

- RPV Upper Internals inspections
- Internal inspections and cleaning of all 4 Steam Generators
- Installation of in RPV samples for future inspections
- Reactor Coolant Pump motor and internals replacement
- Turbine Generator 1 Generator rotor and exciter refurbishment
- Turbine Generator 2 low pressure rotor exchange and inspection and overhaul of 5 x Governor valves
- Generator Transformer 2 three phase exchange
- Overhaul of 1 of 4 Main Cooling Water pumps

Refuelling outages are always busy periods for us and for the area, we aim to minimise the impact to the local community wherever possible.

Dry Fuel Store Update

Work on the Dry Fuel Store continues to progress well with the inactive commissioning (demonstrating use of the building without nuclear fuel) in progress. The Dry Fuel Store building cladding has been completed and internal fit-out is in progress. Over the next three months our work will focus on completing the building works on site, including the construction of the Equipment Store Building, and inactive commissioning of the equipment.

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