

Site Stakeholder Group

Sizewell B Report – December 2017



Station Director's Report – December 2017

1. Safety performance and staffing

Station Safety Performance

We measure our safety performance against top tier indicators, including nuclear reportable events, environmental events, and staff and contract partner recordable injuries. 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 538 EDF Energy staff; this includes 16 apprentices, 3 trainees and 250 year round contracting partners.

2. Generation

Sizewell B delivers world class performance

Sizewell B nuclear power station has produced over 200 billion units (kilowatt hours) of low carbon electricity since the start of operation in February 1995.

This milestone is the equivalent to powering 50 million homes in the UK for one full year and saving 70million tonnes of Co2 emissions, the equivalent of taking all cars in the UK off the road for a year.

Refuelling and maintenance at Sizewell B

On Friday 03 November Sizewell B power station was brought offline after 504 back to back days of safe, reliable operation to begin its fifteenth refuelling and maintenance outage, as planned.

This is a significant event for the station as it marks a consecutive 'breaker to breaker' run. This means that Sizewell B has safely operated the reactor continuously, since connecting to the grid following the last refuelling outage. It is the fourth 'breaker to breaker' run in the station's history, 471 days in 2006 and 516 days in 2008 and 499 days in 2016.

This £60m investment will see an additional 1,000 specialist workers join the station's employees to carry out the work. EDF Energy's investment in the UK's nuclear power stations has resulted in improved performance and an output that is now 60% higher than a decade ago.

Preparation work for the outage begins at least two years ahead of refuelling the reactor as part of a ten year strategic outage plan for the station. During the outage period, which is expected to last about 6 weeks, they will carry out over 10,000 separate pieces of work which have been carefully planned during the last two years.

As well as refuelling the reactor, we will also deliver major investment and routine maintenance work during the outage:-

- Turbine 1 routine maintenance and upgrade of Turbine 1 monitoring systems
- Overhaul of one of four Main Cooling Water pumps
- Replacement of a reactor building cooler fan motor

Contracts have been awarded to dozens of UK firms to assist with the work taking place. In Suffolk and Norfolk companies such as Tecflo in Great Yarmouth, J.T. Pegg & Sons in Aldeburgh and LEC Marine in Lowestoft, will once again join Sizewell B employees to complete work at the power station.

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

Steam Generator work during refuelling outage 15

During planned maintenance periods, such as this current refuelling outage, the plant is thoroughly inspected, tested and maintained to assure safe reliable operation in the next operational cycle.

During one of these routine inspections a small pin hole was noted on a steam generator drain line at the point of exit from the steam generator. This pin hole posed no risk to the public or to staff at Sizewell B and has been categorised as an INES level one event 'an anomaly' (<http://www-ns.iaea.org/tech-areas/emergency/ines.asp>).

The repair strategy and required inspections are taking place. We have taken the conservative decision to replace the drain line on the other three steam generators as part of work being carried out during this outage.

The dates of planned outages and the return to service dates are publicly available and can be accessed on the internet at <https://www.edfenergy.com/energy/power-station/daily-statuses>.

We will provide a full update on the outage at the next meeting.

3. Sizewell B and community news

Search starts for 2018's apprentice intake

EDF Energy has started its search for 2018's apprentices who will join the company next September.

The closure date for applications is early in January 2018, when successful applicants will first take tests, followed by interviews and then join an assessment centre before the final selection is made.

Sizewell B Visitor Centre will be hosting an Apprentice Information Day on Saturday 09 December. Arrival from 09:30hrs for 10:30hrs presentation. Please register in advance by contacting the Sizewell B Visitor Centre on 01728 653974 or email: Sizewellbtours@edf-energy.com

Applications for the apprentice programme are open now until 15 January 2018, through the EDF Energy careers website. <http://www.edfenergy.com/careers/>

The latest Sizewell B new recruits joined the station in September to start their apprenticeship in the nuclear industry. The four new recruits for Sizewell B all came from local schools and colleges; Northgate High School and Suffolk New College, Bungay High School and Lowestoft College, Benjamin Britten High School and Hartismere School.

They completed an outward bound course and are now turning their energy to studying at HMS Sultan in Portsmouth where they will spend the next two years. The apprentices will learn basic engineering skills in their first year, before specialising into their trade in the second year.

The apprentice recruitment complements EDF Energy's national campaign to change teenage girls' perceptions of science and inspire them to pursue science-based careers. EDF Energy launched #PrettyCurious, a long term programme to encourage more teenage girls to study STEM. The programme aims to give girls hands-on experiences and provide them with opportunities to learn about the wide range of careers available in STEM. Although the company's generating stations already have a number of successful female apprentices, EDF Energy wants to attract more.

Energy at the Suffolk Skills Show

Sizewell B apprentices inspired future engineers and scientists at the annual Suffolk Skills Show. EDF Energy attended the popular event held at Trinity Park, Ipswich, in October. The Suffolk Skills Show is a great chance for students to meet nuclear apprentices working at Sizewell B and to find out more about the range of careers on offer in the energy industry.

Students were also able to have a go at building a reactor using virtual reality kits.

Hundreds of Suffolk and Norfolk school children to attend free national science festival

Over 400 school children from Suffolk and Norfolk are being treated to a national science festival at the end of November thanks to EDF Energy.

The Cheltenham Science Festival arrives at the Saint Felix School in Southwold on Thursday 30 November and promises to inspire and engage inquisitive young minds with experiments and hands-on fun, courtesy of science enthusiasts Jon Milton and Ginny Smith.

Jon will be giving an interactive session on the wonderful world of robots, getting the students on stage to take part in fun experiments and looking at how robots work. Jon is a science communicator who previously worked as part of a science comedy act Punk Science for the Science Museum and has written books and appeared on numerous TV shows promoting interest in STEM.

Meanwhile, Ginny will be running a brain hackathon! Students will explore how nerve cells send messages through the brain and body as they create a giant 'neuron' live on stage!

The free 'LabLive' shows have amazed over 11,500 Key Stage 3 pupils from around the UK with entertaining, inspiring and mind-expanding science since it started in 2011.

LabLive brings all the fun of Cheltenham Science Festival to Suffolk using Science, Technology, Engineering and Maths (STEM) to inspire and engage inquisitive young minds. As well as enjoying science at its most spectacular, pupils will learn more about the benefits of studying these subjects at GCSE.

Sizewell B Sponsorships and Donations Fund

The Sizewell B Sponsorships and Donations fund has awarded the following grants in this period totalling £3,370:

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| • Leiston and District Community Partnership – Big Weekend | £750 |
| • Rendlesham fete | £100 |
| • Sizewell Sports and social club – Family Day | £500 |
| • Saxmundham Football Club – 125 th Anniversary | £250 |
| • Aldeburgh Hospital League of Friends – Sensory Garden | £500 |
| • Halesworth Community Nursing Care Fund – Golf Day | £100 |
| • Suffolk Business and Community Awards 2018 | £650 |
| • Royal British Legion – remembrance wreath | £20 |
| • Leiston Town Council - deer signs | £500 |

Communities benefit from Sizewell B and Galloper Wind Farm Limited community fund

The Leiston and Sizewell Community Fund has awarded the following grants in this period totalling £5,700:

- Leiston & District Swimming Club - technical equipment £3,500.00
- PASTEL Saxmundham - Big Day Out £1,200.00
- Benhall Primary School – outdoor spaces £1,000.00

Application forms for both funds are available from niki.rousseau@edf-energy.com

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