

Site Stakeholder Group

Sizewell B Report – July 2017



Station Director's Report – July 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 531 EDF Energy staff; this includes 18 apprentices and 250 year round contracting partners.

2. Generation

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

Operation Temperer

Following the attacks in Manchester the government raised the threat level within the UK to 'critical' which in turn initiated Operation Temperer. This meant UK police forces could call on extra armed officers drawn from sites such as EDF Energy's nuclear sites.

To ensure the armed response levels were maintained at our nuclear sites, military personnel replaced those Civil Nuclear Constabulary officers drafted in to support Operation Temperer.

Once the UK threat level returned to 'severe' the CNC officers returned to our sites and the military personnel back to their barracks.

A trio of new wind farms for EDF Energy

EDF Energy Renewables (EDF ER) has achieved a UK wind farm hat trick. The company has added three wind farms to its existing UK portfolio.

Pearie Law in West Lothian, Corriemoillie in the Highlands and Beck Burn near Carlisle are all now up and running and generating electricity.

This means EDF ER now owns and operates wind farms which can generate around 700 megawatts of electricity across the UK, the equivalent of powering for more than 420,000 homes.

EDF Energy Renewables Chief Executive Matthieu Hue said, “This is great news for us and we are very pleased to have an additional three wind farms to add to our portfolio.

“They will make an important contribution to the supply of low carbon electricity and will benefit the local communities too.”

4. Sizewell B and community news

Sizewell B fuel store becomes operational, allowing planned refuelling to take place on schedule

The first spent nuclear fuel has been placed in Sizewell B’s new dry fuel store, marking a milestone in a programme which enables the continued safe operation of the Suffolk power station.

Successful operation of the new dry fuel store means Sizewell B can be refuelled as scheduled this November. It can now continue to produce reliable low carbon electricity to supply 2.6 million homes until at least 2035 and potentially for a further 20 years, subject to life extension.

It is another example of the investment being made in EDF Energy’s eight existing nuclear power stations and demonstrates the company’s commitment to the safe long term management of waste. This eight-year project started with community consultation which has remained key as work continued through planning and into construction and commissioning.

EDF Energy chief executive Vincent de Rivaz thanked 250 people involved in the innovative and complex project during a visit to the fuel store in June. He was joined by EDF Energy Generation managing director Stuart Crooks, Holtec vice-President Tom Marcille and Sizewell B’s station director Paul Moreton.

The operation of the fuel store enables the next refuelling and maintenance work to take place at Sizewell B as scheduled later this year. During this refuelling work a third of the fuel will be removed from the station’s reactor and replaced with new fuel. Moving fuel in to the dry fuel store has freed up space in Sizewell B’s fuel pond for spent fuel which will be removed from the reactor.

The operation of the dry fuel store follows the completion of a robust regulatory programme of work. The store will safely house spent fuel from Sizewell B until a Geological Disposal Facility is available for the longer term storage of spent fuel.

A dry fuel store is a method of storing spent nuclear fuel that has already been cooled in the spent fuel pond. The fuel is loaded into a metal canister which is then welded shut, and then placed within a large, leak-tight steel and concrete cask. Holtec International, a world leader in dry fuel store technology is EDF Energy’s lead supplier for the project.

Maintenance and refuelling takes place at Sizewell B every eighteen months and represents a multimillion investment made by EDF Energy into the station. Contracts have been awarded to local companies such as J.T. Pegg & Sons in Aldeburgh and Webb Engineering in Bungay. Workers at Moughton Engineering in Great Yarmouth helped construct the dry fuel store facility and will also join Sizewell B employees to complete maintenance work at the power station.

Sizewell B Refuelling Outage 2017

Sizewell B power station will be brought offline in November 2017 to begin its fifteenth refuelling and maintenance outage, as planned.

An extra 1,000 specialist workers will join the Sizewell workforce and provide a boost to the area’s hotels and businesses. During the outage period, which is expected to last about 5 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 1 of 4 Main Cooling Water pumps

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- Replacement of a reactor building cooler

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

20,000 Visitors to Sizewell B

Sizewell B has welcomed its 20,000th visit to the power station since the new visitor centre opened in 2012.

Students from Suffolk New College were greeted with cupcakes by the visitor centre guides who were delighted to mark the occasion with the special visitors.

The group of 37 electronics students enjoyed talking to visitor centre guides over tea and cake before going on a tour of the UK's youngest nuclear power station which safely delivers power for 2.5million people.

Suffolk students rise to energy challenge

Girls studying STEM in Suffolk have risen to a challenge to design a solution to cut energy use at their schools through a project backed by EDF Energy and the Engineering Development Trust.

Schools from Bungay, Leiston and Beccles took part in the project which saw the students' research energy use at their schools, plan ways to reduce it, design a model to demonstrate their solution and evaluate their results. The ten week project culminated in a celebratory assessment day at Sizewell B in April where the girls also got to hear from an inspirational speaker working in science, Aimee Tovell, a chemistry technician at Sizewell B. Aimee spoke with the girls about her route into the industry and how she is now putting her degree in forensic science to use in the real world.

With the support of a Sizewell B apprentice, the girls produced an engineered model of their solution and a project handbook and display which they shared with assessors during the celebration and assessment day.

Alde Valley Academy in Leiston was selected as the overall project winner with their vibrating carpets that generated power as students walked on them. Judges loved the connection between science and solution to the problem.

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

Summaries of Projects Awarded to date totalling £6,000.

The Leiston and Sizewell Community Fund has awarded the following grants in 2017:

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| • Leiston outing for the elderly | £250 |
| • Leiston Angling Society provisions for disabled anglers | £1000 |
| • Cancer Awareness campaign for local primary schools | £1050 |
| • Middleton Primary school playground redevelopment | £1500 |
| • Aldeburgh Business Association Christmas lights fund | £200 |
| • Kelsale village hall upgrade | £2000 |

Application forms are available from niki.rousseau@edf-energy.com www.edfenergy.com/energy/power-stations/sizewell-b

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