

Sizewell Stakeholder Group

Sizewell B report – June 2023

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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 have been:

- No recordable injury
- No nuclear reportable incidents
- No environmental incidents

Staffing at Sizewell B

We currently have **565** EDF staff this includes **9** Apprentices, **2** Industrial placements, **2** Technical Trainees, and **10** Visitor Centre staff and **250** year round contracting partner's.

2. Operations

Turbine generator 1 pipework repair

Turbine generator 1 was taken offline at Sizewell B on Monday 19 June 2023, to complete a repair to a section of its pipework. This is in the non-nuclear area of the power station.

The reactor and turbine generator 2 continue to supply safe, low-carbon electricity.

Sizewell B back generating after successful outage

Sizewell B returned to service on Friday 19 May following the successful completion of a planned maintenance and £80million investment programme.

The work completed at the station lays the foundation for another 18months of low carbon generation and planned investment of over £300million over the next three years will continue to improve reliability, performance and strengthen the case for a 20 year extension to 2055. The latest investment programme at the power station included replacing one of the two rotors that are responsible for turning the turbine that makes the power, replacement of one of the four reactor coolant pumps inside the iconic dome and routine servicing of valves and motors.

The outage enabled a complete inspection of the primary circuit of pipes for any signs of stress corrosion cracking. This is a known issue that can sometimes occur due to mechanical stress and

corrosion. The primary circuit was given a clean bill of health by engineering experts familiar with the issue.

Preparation work for the outage begins at least two years in advance of refuelling the reactor as part of a ten-year strategic plan at the power station.

As a low carbon electricity generator, Sizewell B's long-term operation will be key in supporting the UK's 'Net Zero' climate change ambition. By 2028 Sizewell B is due to be the only generating nuclear power station from the existing fleet. Sizewell B will grow its workforce by 10% to support long term operation.

Together Sizewell B, Sizewell C and Hinkley Point C could deliver reliable low carbon power for more than 15million homes and enable the growth of the UK renewables sector.

3. Sizewell B and community news

Relocated facilities update

Sizewell B Relocated facilities project reaches a milestone as the installation of the steelwork structure of the new training facility is completed. The six week program of works carried out by Norfolk based company Wall Engineering, working for Barnes construction.

Negotiations for utilisation of land within Sizewell A in preference to Pill Box Field, are progressing well and EDF is close to being able to secure the land. In the meantime NDA have commenced the statutory de-designation process which is an important part of the transaction's critical path. (de-designation is a process required by statute to remove the land from its decommissioning designation.)

Construction of new land management facility near the Emergency Response Centre, Sizewell Halt

EDF will be building a new land management facility near the existing Emergency Response Centre (ERC) at Sizewell Halt. The facility will be a single story building containing office space, a meeting room, storage area, welfare facilities and a maintenance workshop, with parking. The facility will be used by EDF's land management team and contractors from Freedom who have been with us for many years.

There will be approximately 6 people using the facility for general office work and for storage and maintenance of the land management equipment and vehicles, which are used for managing the Sizewell Estate land. The new facility will replace the existing land management base at Upper Abbey Farm.

The new building is to be constructed with functionality and sustainability at the forefront of its design. It is proposed to be a timber frame structure to the office element of the building with steel frame

portal frame to the rear. It will be timber clad with a sedum (living green) roof. Eco-friendly fixtures and fittings will be installed with emphasis on providing heating and hot water efficiently.

Subject to the contractor appointment process, construction of the facility is currently scheduled later this year.

Approved planning application can be viewed via East Suffolk Council website: [DC/22/4608/FUL](https://www.east-suffolk.gov.uk/DC/22/4608/FUL)

Combat2Coffee helps raise awareness of Mental Health at Sizewell B

Sizewell B hosted Combat2Coffee in May, just one of the events in a packed agenda for employees as part of Mental Health Awareness week.

Combat2Coffee was formed as a support outlet for Armed Forces veterans who may be struggling with life outside of service. Combat2Coffee was formed by Nigel Seaman after being diagnosed with PTSD that was linked to service around 2 years ago. Nigel had always had this fascination to work with coffee and decided to use coffee as the vehicle to help others. Wanting the Journey to be end to end he decided to use another veteran who roasts coffee beans to roast the Combat2Coffee Recovery Blend, this is where the slogan "Roasted, Toasted and Poured By Veterans" originates from.

Staff at the station got to meet some of the Combat2Coffee team over a coffee and a cake.

4. Company News

End of generation at West Burton A

West Burton A closed at midnight on 31 March 2023, completing an agreement signed with National Grid ESO last year. The station and its workforce have fulfilled the request to have 400MW available through Winter 2022 to 2023 as an emergency standby option and from 1 April the whole station moved into full decommissioning.

The coal-fired power station in North Nottinghamshire has been a terrific servant for UK plc since 1966 (57 years) it has supplied electricity and a great debt of gratitude is owed to all the people that have worked there over the years. During its 57 years of operation, West Burton ran four 500MW units with a total generation of 491,792 GWh, which is enough to power 164 million houses for a year or every house in London for 44 years. The last Generation took place Tuesday 7 March 2023 with both remaining units (1 and 2) delivering the last of the station's power to Grid.

Decommissioning will now take place at the West Burton A site, removing oil and fuel from the plant and terminating any power connections. Once this is complete by December 2023, the principal demolition contract partners will work on removing structures from the site until it is at ground level.

This is an end of an era with the site handing over the legacy of generation to the power of the future. The UK Atomic Energy Authority (UKAEA) plan to build the UK's first ever prototype fusion power station at West Burton.

EDF confirms plans to keep turbines turning at Heysham 1 and Hartlepool power stations

Heysham 1, in Lancashire, and Hartlepool, in Teesside both mark 40 years of generation this year. In 2009, when EDF took responsibility for the fleet, they were due to end generation in 2014. EDF invested significant resources to enable the forecast to move to 2024. This has now been moved out by a further 2 years to March 2026.

The decision has been made after a rigorous review by EDF of the technical and commercial cases for life extension.

In particular, positive inspections of the graphite reactor cores during 2022 have increased confidence that the stations can generate for longer and continue to meet stringent regulatory standards.

The additional 29TWh of electricity these stations could generate over that 2-year period could help to displace 6billion cubic metres of gas. The carbon avoided from this displacement is 10million tonnes, like taking 5m cars off the UK's roads for a year.

Since taking responsibility for the existing UK nuclear fleet in 2009 EDF has invested more than £7billion to support extended operating lifetimes and help UK energy security. Output from the fleet has been more than 30% above what was expected when EDF took on the fleet. Over the next five years (2023-27), the aim is to invest more than £1.5billion to sustain safe and reliable generation, alongside preparing for and delivering defueling.

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