



Site Stakeholder Group AGM

Dungeness B Annual Report – 18 January 2018

Introduction and plant update



Ian Stewart, Station Director

2017 has been a very busy year for Dungeness B power station. Following 2016's recording-breaking year in terms of electricity generated, 2017 has seen us focus on some major maintenance on both our reactors to allow us to ensure the plant will continue to safely and reliably generate low-carbon electricity until 2028.

Over the summer we shut down one of our reactors, Unit 21, to perform a three and a half month planned maintenance project known as a 'statutory outage.' We undertake these large-scale maintenance programmes on each reactor every three years and we will be performing a similar project on our other reactor, Unit 22, later in 2018.

This year's outage saw the team safely complete more than 12,000 separate pieces of repair and improvement work over the 14 week project, with major projects including replacing three low pressure turbine rotors, inspecting the boiler header and replacing the water intake grill.

We also took Unit 22 offline for just under four weeks in July to allow us to undertake some maintenance on equipment common to both reactors.

1200 extra specialist workers joined us on site providing a significant boost to the regional economy with local hotels, restaurants and taxi firms all benefitting from the extra visitors to the area.

Despite these shutdowns we still successfully delivered just over 5.7 TWh of low-carbon electricity to the National Grid in 2017, enough to power 5% of UK homes. This is the equivalent of generating enough electricity for the whole Kent more than two times over.

Our safety record remained excellent through 2017. We recorded two Lost Time Incidents (LTAs) in 2017 (see Safety section) and although we never like to see these occur, we continue to make sure that we learn from these incidents, however minor and improve.

Our other key measures of OFI (Operational Focus), FSFI (Fire Safety), ERI (Equipment Reliability) and FRFI (Fuel Route) have all seen an improving trend and it is very encouraging to see this picture across the board.

2018 will be another busy year for the station as we carry out another complex 'statutory outage' in August and also test our off-site emergency plan in March. We regularly have emergency exercises like this with Kent Police, Kent County Council and other agencies to test procedures, facilities, systems and equipment, and allow everyone to practise their role in an emergency.

I look forward to another successful year in 2018.

Environment

There have been no environmental events at Dungeness B to report in 2017.

The Environment Agency visited site over the year for routine inspections as per the station's Nuclear License conditions and reported no non-compliances.

Safety

Safety is the station's overriding priority and 2017 has been a very good year from a safety perspective. As of 15 January 2018, the station has had:

- 1884 Nuclear Reportable Event free days
- 1128 days since the last environmental event
- 98 days since the last Lost Time Incidents
- 3755 days since the last contractors' Lost Time Incident – it has now been ten years since the last time one of our contractors has had a Lost Time Incident

There were two Lost Time Incidents at the station in 2017.

In March, an injury was caused when a member of staff slipped outside the shower in the admin locker room and in October a maintenance technician suffered lower back injury when replacing a bank of batteries. Both incidents have been thoroughly investigated and the station is working hard to improve arrangements to minimise these kinds of incidents in the future.

Apprentices

The station was delighted to welcome a new group of six apprentices, including two young women, at the end August 2017 who have now settled into their first year at Engineering Training Academy at the Royal Naval base, HMS Sultan near Portsmouth.

In November, six apprentices graduated from the scheme after four years of training. George Donoghue was awarded the much-coveted 'Apprentice of the Year' award for the station and collected his prize from EDF Energy's new CEO Simone Rossi at the ceremony in Worcestershire.



Dungeness B new recruits in 2017

The station is recruiting new apprentices for 2018 with applications closing on 15 January. In November, the recruitment team ran a drop-in fortnight for prospective apprentices to have an informal chat with station staff to find out more about the scheme.

Promoting STEM

EDF Energy is actively encouraging more girls to take up STEM subjects (science, technology, engineering and maths) at school in a bid to improve diversity in the workplace.



Kent schoolgirls at the 'Pretty Curious' STEM workshop

Throughout 2017 the station's visitor centre ran a hugely successful programme of STEM activities for children from schools across the region.

As part of the company's 'Pretty Curious' campaign, which is encouraging more girls to take STEM subjects at school, the station has hosted station tours for almost 700 schoolgirls.

In November, EDF Energy also ran a special 'Pretty Curious' studio event for a further 400 local schoolgirls at the Kent Showground in Detling. Participants were encouraged to think about where a career in STEM could lead them, as well as learning how to 'build a

reactor' using Virtual Reality and build a Star Wars Droid.

In June, Vicky Brown, one of the station's young female engineers and an ex-apprentice, was recognised for her efforts in encouraging more young girls to study engineering by making The Telegraph's list of '2017 Top 50 Women, under 35, in Engineering.'

Charity fundraising

Since autumn 2016 the station has raised over £10,000 for the company's official charity partner, Breast Cancer Now.

Some notable activities over the year have included Jenn Tibbenham, a Materials Technician, pulling a 12.6 tonne fire truck at Lydd Club Day in June and Adrian Harwanko, an Outage Process Specialist, skydiving from a height of 10,000 feet. Two of the station's tour guides have also taken part in walking and running events to raise money for the charity with Lesley Clancy walking the 65 miles round the Isle of Wight and Bob Castle running in the over 65 age group in the 2017 Cyprus marathon.



The station has also partnered up with a local choir The Haywardians, based in St Mary in the Marsh, raising over £1000 to support the charity. The choir performed a special fundraising concert in October and also delighted staff by singing carols during the station's Christmas dinner.

Visitor centre activity

Since welcoming its 20,000th visitor to the station's visitor centre back in May 2016, the centre has continued to prove as popular as ever for local residents and tourists to the area. Tour figures have increased by 37% since 2016.



The visitor centre celebrated its 20,000th visitor since opening in February 2013

Many events have taken place throughout 2017, including the first 'Discover Dungeness' days in the summer in association with the Romney Marsh Countryside Partnership and the Romney, Hythe and Dymchurch Railway.

The days included a train ride, nature trail and tour of the power station for those interested in finding out more about the landscape on the Dungeness headland and the important part the station plays in the community. The success of the days has led to plans to repeat the initiative in 2018.

The centre has increasingly become a focal point for community activity. Highlights have included

hosting a photography exhibition for Marsh Academy students as part of the JAM on the Marsh festival in July and an information day for Royal British Legion ex-servicemen in November.

Local community and sponsorship

2017 has seen the launch of the company's 'Force for Good' campaign in which staff have been encouraged to give something back to the communities that they serve by volunteering for good causes.

One example includes a 13-strong team from the station who helped to repaint the Rye Harbour Sailing Club clubhouse as part of the company's Helping Hands initiative.

15 members of staff from Dungeness B have been recognised by the company's 'Going for Gold' programme for their outstanding work in the community.



The team at Rye Harbour Sailing Club in October

Although a little further afield, a special mention should go to security guard Dipak Kaucha who provided humanitarian support to communities in the British Virgin Islands who had been devastated by Hurricane Irma.

Throughout the year, the station has supported many local events and attended 30 events in Kent, Sussex & Surrey including the Kent County Show, the Romney Country Fair, Hythe Venetian Fete, Lydd Club Day and the Big Bang Science Fair in Crawley.

The station has also provided some financial support to local primary schools at Dymchurch, Brookland and Brenzett to help inspire the next generation of engineers.

Dungeness estate

EDF Energy is very proud of its association with the Dungeness estate, which the company has owned since 2015, and is committed to being responsible landowners of this unique landscape.

The company's Land Quality Management Team continues to work to support the area through roadway improvements, signage, rubbish clearance and biodiversity improvement programs.

At the end of 2017, two of the freshwater pits on the estate have been awarded the Wildlife Trusts' Biodiversity Benchmark following an audit earlier in the year, adding an extra 133 hectares to the land that has already been accredited around the power station. This marks a tremendous achievement for the teams who are working hard to preserve the biodiversity of this special landscape.

The Dungeness headland proved very popular with tourists over the summer months. This, however, has brought its own challenges with regards to litter and damage and the station continues to work closely with the Romney Marsh Countryside Partnership to ensure the estate is well maintained and looked after.

Company News

Hinkley Point C update

Construction of two EPR reactors at Hinkley Point C in Somerset is progressing well with more than 2,500 workers currently on site every day. Work has started on a 1,500 bed Campus to accommodate workers on the site and in the neighbouring town of Bridgwater.

Work includes building the new station's sea wall defences, laying circulation water system pipes and constructing temporary jetty to bring aggregates to the site by sea. The landscape is constantly changing with 4 million cubic metres of earth already excavated.



The Hinkley Point C site in September 2017

The project remains on track to meet the 64% UK supply contribution with nearly £9bn of contracts signed since final approval with £465m of contracts placed with South West firms. £15m has already been invested in education, employment and skills in Somerset.

Sizewell B spent fuel store becomes operational

In June 2017, Sizewell B opened its new spent nuclear fuel facility creating new capacity to safely store spent fuel and allow the power station to operate longer.

The investment demonstrates the company's commitment to the safe long-term management of nuclear waste and allowed Sizewell B to be refuelled as scheduled in November. The eight-year project started with community consultation as work continued through planning and into construction and commissioning.

Sizewell B 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 a life extension.

UK HPR1000 nuclear technology

The next phase of the approval process for the UK HPR1000 nuclear technology design intended for the proposed CGN-EDF development in Bradwell began in November. This marked the start of the second step of a four step robust and independent process to seek approval for the design of a new nuclear power station at Bradwell in Essex.

Chinese developers CGN and EDF have launched a website providing information and an opportunity to ask questions and feedback comments at this early stage: www.ukhpr1000.co.uk

EDF Energy Renewables office opens in Edinburgh

In January 2017, Scotland's First Minister Nicola Sturgeon opened a new centre for EDF Energy Renewables in Edinburgh which will support the company's ambitious growth plans in Scotland. The event also saw the company sign-up to the Scottish Business Pledge, supporting sustainable and responsible business growth.