Torness monthly report
June 2018

Introduction
We are keen to hear the views of our local communities. We recognise that good communication is a two way process and we welcome your feedback and comments. While we will do our best to always use plain English, talking about our business sometimes involves specific terminology, and you will find a glossary of any terms used at the end of each monthly report.

Safety
- The station had zero lost time incidents (LTI) during the reporting period. EDF Energy staff have had 751 LTI free days (more than a year and a half) up to 30 June and contract partners have had 1451 LTI free days up to 30 June – that's more than three and a half years.
- The station had zero emergency services call out during June.
- There were two first aid injuries at the station in June.
- The station had no environmental events during June and has gone 2692 days without an environmental event (over seven years).

Station output
Nine flasks containing spent fuel were safely transported to Sellafield for reprocessing during the period.

Both reactors were operational for the month of June.

Reactor 2 come off-line on 4 July when a valve associated with the non-nuclear turbine part of the plant didn't operate as it should have done. The reactor was returned safely to service on Friday, 6 July.

We generated 875,250 MWh in June; this is enough low carbon electricity to power around 220,720 homes and avoid 0.31 million tonnes of CO_2e emissions and equivalent greenhouse gasses (known as MtCO_2e) (when compared to direct emissions of combined cycle gas turbines).

Since January we have generated 4,774,867Wh. This is enough low carbon electricity to power around 1,204,120 homes and avoid 1.67 million tonnes CO_2e emissions and equivalent greenhouse gasses (known as MtCO_2e) (when compared to direct emissions of combined cycle gas turbines).

Station news
Torness hosts International Women in Engineering Day events for local girls

More than 70 girls have taken part in a series of sessions at Torness power station designed to spark an interest in engineering.

The activity is part of EDF Energy's Pretty Curious campaign and was held to mark International Women in Engineering Day (#INWED) which took place on 23 June.

A group of Brownies and Girl Guides from North Berwick and pupils Larbert High School, Stenhousemuir, Newbattle High School, Dalkeith and Holyrood High School, Edinburgh came along to the events.

As well as going on a tour of the power station they had the chance to try some hands-on science, technology, engineering and maths (STEM) activities including taking part in a Build-a-Droid workshop. They

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were also able hear from some of the female engineers who work at the power station and explore the world of virtual reality through a 360degree film which takes you inside the core of a nuclear reactor to find out how it works.

At the moment just one in four people working in STEM careers in Scotland is a woman. The Pretty Curious campaign aims address the under-representation of women in these roles by encouraging girls' curiosity for science.

Girl Guide, Jasmine Bouverie, said: "We really enjoyed all the different activities; our favourite was definitely the Build-a-Droid as we got to build our very own R2D2. It has given us the chance to think about STEM subjects."

Hollie Renwick, Larbert High School, said: "We have really enjoyed ourselves; the virtual reality film was my favourite as it's not something you see every day."

Research shows that over half a million job openings in science, research, engineering and technology will need to be filled over the next six years, to replace retiring workers but in engineering, for example, there is an estimated shortfall of people with the right skills of up to 60,000 a year.

Station Director, Robert Gunn, said: "I'm delighted we've been able to welcome these girls to Torness to mark International Women in Engineering Day. Engineering is a great career with many opportunities so it's important we take any chance to help young women see what careers are available and how they could benefit.

"Everyone who came along seemed to have a great time and hopefully we've given them something to think about when it comes to make subject and career choices in the future."

Company news

Two ground breaking projects opened by EDF Energy

Jean-Bernard Lévy, the EDF Group Chairman and Chief Executive Officer, Bruno Bensasson, the Group Executive Vice-President in charge of Renewable Energies and Simone Rossi, EDF Energy Chief Executive Officer officially opened two ground breaking projects in the United Kingdom: the Blyth off-shore wind farm and the West Burton B battery storage facility.

Blyth off-shore wind farm, Northumberland, is composed of five turbines with total generation capacity of 41.5 MW. Several innovations have been built in to contribute to enhanced competitiveness of off-shore wind power.

Blyth is the first off-shore wind farm to use float and submerge technology. The wind turbines are supported with gravity-based foundations transported by floating, which reduces the installation costs.
A 49 MW battery storage facility located at West Burton B power station is the largest project in the new frequency control system which will be deployed across the UK to improve stability of the national grid.

Against the backdrop of extensive development of renewable energy generation and the closure of ageing power plants, battery storage technology supports stability of the grid and can be used for rapid response to fluctuations in grid frequency.

Local community meeting

14 March 2019 from 10:00 – 13:00

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Glossary of terms

Term	Definition
Nuclear reportable event or incident	Nuclear reportable events are significant events, such as non-compliance with or inadequacy in the safety case. These (along with other, less significant events) are reported to the Office for Nuclear Regulation (ONR) in compliance with EDF Energy's nuclear site licences.
Environmental event or incident	Environmental events arise from wastes or discharges above permitted levels or breaches of permitted conditions which result in an environmental impact. These (along with other, less significant events) are reported to SEPA.
Outage	A period during which a reactor is shut down. The periodic shutdown of a reactor including for maintenance, inspection and testing or, in some cases, for refuelling is known as a planned outage. In the UK, some planned outages are known as statutory outages and are required by the conditions attached to the nuclear site licence needed to operate the station. Unscheduled shutdown of a reactor for a period is known as an unplanned outage.
Unit	A unit refers to one of the reactors at the power station and its generating turbine.
LTI	When a member of staff injures themselves at work, and is absent from work for one day or more, this is referred to as a lost-time incident (LTI)