



Peterhead Power Station

Delivering value for the Peterhead
community and beyond



Peterhead Power Station

Peterhead Power Station has played a key role in the GB energy system for over 40 years.

Commissioned in 1982 and initially delivering baseload power using heavy oil, the station was upgraded in the 2000s, transitioning to natural gas generation, and now operates a highly reliable and flexible back up to our increasingly renewables led system.

In addition to the 1180MW output supplied by the station to the UK electricity network, Peterhead Power station continues to be a valued neighbour by actively contributing to the local and regional economy through its supply chain partnerships, employment opportunities and its support to community organisations.

Future Energy System

Peterhead will be critical in the future energy system and it has the opportunity to play a cornerstone role in the decarbonisation of the Aberdeenshire area through our proposed Peterhead Carbon Capture Power Station.



“ We are very proud of the role that our Peterhead site plays, not only in security of supply for the country, but also at a local level, supporting businesses and communities.”

Jacques Jonker
Station Manager at
Peterhead



Carbon Capture Technology

Peterhead Carbon Capture, which could support a clean power system in the 2030s, is a joint venture project with Equinor to build a new 900MW power station that will use innovative technology to capture a minimum of 90% of carbon that would otherwise be emitted into the atmosphere.

The station would connect to a shared infrastructure being developed by the Scottish Cluster, meaning that CO₂ captured from

the power station will be safely transported and stored offshore at the Acorn storage site.

As we transition towards a net zero world, Peterhead will continue to play its role in energy reliability while supporting a renewables-led system, playing a crucial role in ensuring a secure energy future.

The development of the new site relies on critical investment from the UK Government to deliver a low carbon pathway for Scotland and the UK.

Proposed Development



Locally sourced talent from the North East

Employing local talent on site is imperative for the power station.

Kate is an analyst working in the station's chemical laboratory having joined the team in November 2014. Kate's role focuses on analysing samples from the station such as the heat recovery steam generator. This work is imperative to ensure consistent energy output and operating the station in line with its environmental permit.

" I liked the idea of working for a big company in the energy industry and the power station was the perfect opportunity. We have always been flexible and able to adapt to the market. I'm excited for the future and to see how the station adapts and embraces new technologies. "

Kate Raffan, Chemistry Technician



Jenny joined SSE Thermal in September 2021 after working for Royal Mail for 8 years. She was delighted to be accepted on our apprenticeship programme as a Control & Instrumentation Engineer where she manages and maintains equipment used at the station to ensure the systems and processes operate effectively, efficiently and safely.

" I love my role and wish I had started sooner in life. The variation of work is incredibly fulfilling. It was quite challenging and overwhelming going back into education but SSE has been a great supporter and excellent mentor. I am excited for my new career at the station, particularly as we move through the everchanging energy market. "

Jenny Hemmings, C&I Engineer



Supporting Local Employment

Peterhead Power Station has been supporting local employment for over 40 years and this will continue as we progress with Peterhead Carbon Capture.

The proposed new power station would continue to provide opportunities, supporting around 1000 jobs during construction and contributing to economic development locally and regionally.

The existing station directly supports:



80
Full-time employees



3
Graduates



30
Term contractors



13
Apprentices

Peterhead Carbon Capture could support:

1,000

New jobs

During construction

240

New jobs

Once commissioned for operation



Delivering value for Peterhead and beyond

Supporting businesses in the wider Peterhead area is a fundamental focus for the power station. Local supply chain relationships will continue to deliver value, both now and in the future.

“ Peterhead Power Station is very important to Northern Platforms & Stagings and we pride ourselves on the fact that we are serving a major UK utility company and have an impeccable safety record on site. Our partnership with SSE is a good fit for both parties, with all of our staff residing in a 10 miles radius of the site, meaning that our team are able to respond promptly to any call outs to the station. We consider SSE as one of our most prestigious clients and and we look forward to the future of our working relationship. ”

Steven Buchan
Director

Northern Platforms & Stagings

Northern Platforms & Stagings, a scaffolding company located just outside of Peterhead, was formed in 1984 and has been working with Peterhead Power Station for over 30 years.

Employing 30 full time staff, they deliver services across the region including works for the University of Aberdeen, Scottish Water and National Grid.





MB Plant Hire

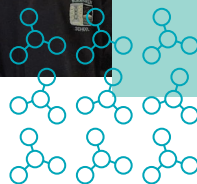
MB Plant provides vehicle, plant and access hire within Peterhead and throughout Scotland. They started life back in 1975, hiring out to various contractors covering projects locally, including Peterhead Power Station.

Based in Peterhead, MB Plant Hire will celebrate 50 years of service to the power station in 2025, providing crucial services and supporting the local economy through job creation.

“ MB Plant’s partnership with Peterhead Power Station brings several benefits, including revenue generation. This allows us to reinvest into new plant equipment and continue to provide the highest specification of machinery to our clients. It also supports staff employment across our depots and allows us to contribute to the local economy in our areas across Scotland, including Peterhead. MB Plant looks forward to maintaining its close working relationship with SSE, and to continue providing ongoing support to the site. ”

Sheena Holdsworth
Business Co-ordinator





At the heart of the community

We take our role as a good neighbour seriously, ensuring that benefits and opportunities connected to the existing station and proposed development are a real focus.

The SSE Thermal Community Investment Fund offers £25,000 per year to community projects, giving priority to applications in closest proximity to the station.

Through our Community Investment Programme we are creating a lasting legacy, making meaningful contributions, with the Peterhead and Boddam Communities being at the heart of our plans.

Our package of commitments, plans and activities helps us work closer with the communities in which we already operate, enhancing the lives of local residents, school children, young people, businesses and the environment.

Engagement with local schools enables us to highlight the exciting future students can have within SSE and at the power station.

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