TEES CCPP PROJECT

A proposed new gas-fired power station on the Wilton International site

Welcome

This event is intended to provide you with information about the proposed Tees Combined Cycle Power Plant (Tees CCPP) and seek your views and comments on our proposal.

ABOUT SEMBCORP

Sembcorp Utilities UK is the powerhouse of the Wilton International site. We provide the large volumes of electricity, steam and other utilities needed by industrial companies on the site and our facilities are fundamental to their success. Our customers include SABIC, Ensus, Lotte Chemical UK, Huntsman, Biffa Polymers and the Wilton Centre. Sembcorp also owns around 360 acres of development land on the 2,000 acre Wilton International site and is actively marketing the land to a wide range of process industry companies and supply chain firms that are key to bringing new jobs and investment to the Tees Valley.

THE AIMS OF THIS EVENT ARE TO:

• Introduce the Tees CCPP project and explain the need for a new gas-fired power station
• Show where the station would be located and how it might look
• Provide information on how the station would work
• Outline how the planning consent process works
• Provide details of the studies undertaken to assess the potential environmental effects of our proposals and
• Gather feedback that will help shape our proposals as they are developed in more detail

PLEASE LET US HAVE YOUR COMMENTS

Please use one of the feedback forms available to provide us with your comments on our proposals. Alternatively you can fill out a feedback form on our project website:

www.tccpp.co.uk

Other methods by which you can contact us:

Post: Write to:
Tees Combined Cycle Power Plant Project
c/o Sembcorp Utilities (UK) Ltd
PO Box 1985
Wilton International
Middlesbrough
TS90 8WS

Email: Enquiries@tccpp.co.uk

Telephone: 01642 212004

If you have any questions, please ask any member of the project team here today.

The statutory deadline for submission of any written comments is Friday 21st July 2017.
Overview of our proposals

The Tees CCP Project would represent an important step forward in the future development of the Wilton International site on Teesside - one of the UK’s most important manufacturing locations.

Natural gas would be supplied as a fuel from an existing pipeline to the site linked to the National Transmission System (NTS) at Billingham. The power plant would also be able to utilise Wilton’s excellent distribution network to supply power to current and possible future site operators and would be flexible enough to supply surplus power to the public and businesses via the existing National Grid substation connections. Water used for cooling purposes would be taken from existing supplies to the plot and discharged to the River Tees through Wilton’s established drainage infrastructure.

Security of supply: The UK needs to develop new electricity generating capacity to replace its ageing coal-fired power stations. All coal fired generation in the UK will cease by 2025. New generating capacity will help to safeguard the security of electricity supply to the country’s homes and businesses as set out in Government policy.

Flexible generation: The UK is increasingly reliant on renewable energy – most notably wind power which, by definition, is intermittent in nature being entirely dependent on weather conditions. Gas fired power stations remain an important part of the UK’s power generation ‘mix’ and are able to respond rapidly to fluctuations in supply (e.g. when the wind isn’t blowing) in order to ensure enough electricity is generated to meet the national demand. They are also considerably cleaner than power stations using coal or oil and emit significantly lower carbon dioxide emissions per MW than other fossil fuels.

The Tees CCP facility would be capable of generating enough electricity to supply around 1.5 million homes per year - a volume equivalent to around 2 per cent of the UK’s current domestic and business electricity consumption.

The Tees CCP Project has the potential to create 60 to 80 permanent new jobs and a further 1,000 construction jobs during a 3 year build phase. In addition, it would require the support of hundreds of people in its supply chain over a lifespan of around 30 years.

The project requires planning permission and the Planning Inspectorate is the Government agency responsible for operating the planning process for nationally significant infrastructure projects (NSIPs), such as the Tees CCP Project.

WHY ARE WE PROPOSING A GAS FIRED POWER STATION?

It would also play a significant role in the battle to secure the UK’s energy future by generating up to 1,700 MW of electricity - enough to power up to 1.5 million homes and businesses.
The proposed development site

The new gas-fired station would be built within the boundary of the former 1875MW Teesside Power Station, which operated from 1993 to 2013 prior to its demolition.
What is a Combined Cycle Power Plant?

The new power station would employ combined cycle gas turbine (CCGT) technology.

In a CCGT power station natural gas is fired into the combustion system to drive a gas turbine (GT) which is connected to a generator to produce electricity. The hot exhaust gases generated by the GT are then passed through to a waste heat recovery steam generator (HRSG) – a boiler which recovers more of the heat. The HRSG generates steam which is used to produce further electricity via a steam turbine (ST). The steam leaving the ST is then condensed and this water is returned to the process for reuse. A cooling system is required to condense the steam used in the generation process and the cooling water supply already exists on the plot.

The electrical efficiency of a modern CCGT power station, dependent on technology selection, can be greater than 60 per cent. This is considerably higher than conventional coal or oil fired power stations, which generate at an efficiency of around 35-40 per cent.
ON THE WILTON INTERNATIONAL SITE
A PROPOSED NEW GAS-FIRED POWER STATION
TEES CCPP PROJECT

A number of international firms have approached Sembcorp to manufacture the turbines to be used in the plant. All of the technologies selected have been deemed as meeting Best Available Technology (BAT) in relation to minimising noise and visual impact. In preparing its environmental impact assessment, Sembcorp has utilised the modelling services of GT Acoustics, a Guisborough-based noise and vibration specialist with more than 30 years of experience of monitoring noise data across the Wilton International site.

Noise

The process will be designed to meet the latest emissions limits as defined by the Infrastructure and Projects Agency (IPAs). The stack height is determined by the need to disperse the exhaust gases safely and in line with all relevant environmental requirements.

Annexure

You can also view the annexure which is available on the Planning Inspectorate website: https://infrastructure.planninginspectorate.gov.uk/application-process/the-process.

THANK YOU FOR TAKING THE TIME TO ATTEND THIS EVENT TODAY.
How the development might look