



sembcorp

Clean Growth opportunities at Wilton International



Sembcorp in the UK



Sembcorp Energy UK (SEUK), a wholly-owned subsidiary of Sembcorp Industries, is a leading provider of sustainable solutions supporting the UK's transition to Net Zero.

With an energy generation and battery storage portfolio of over 1.3GW in operation and under development, our expertise helps major energy users and suppliers improve their efficiency, profitability, and sustainability, while supporting the growth of renewables and strengthening the UK's electricity system.

Our Wilton International site, within the Teesside Freeport, provides energy-intensive industrial businesses with combined heat and power (CHP) via our private wire network that supplies electricity generated by gas and biomass.

We also operate the UK's largest portfolio of decentralised, flexible power stations, situated throughout England and Wales.

120MWH
OPERATIONAL UK
BATTERY ENERGY
STORAGE
SYSTEMS

220MW POWER
AND STEAM
GENERATION AT
WILTON
INTERNATIONAL

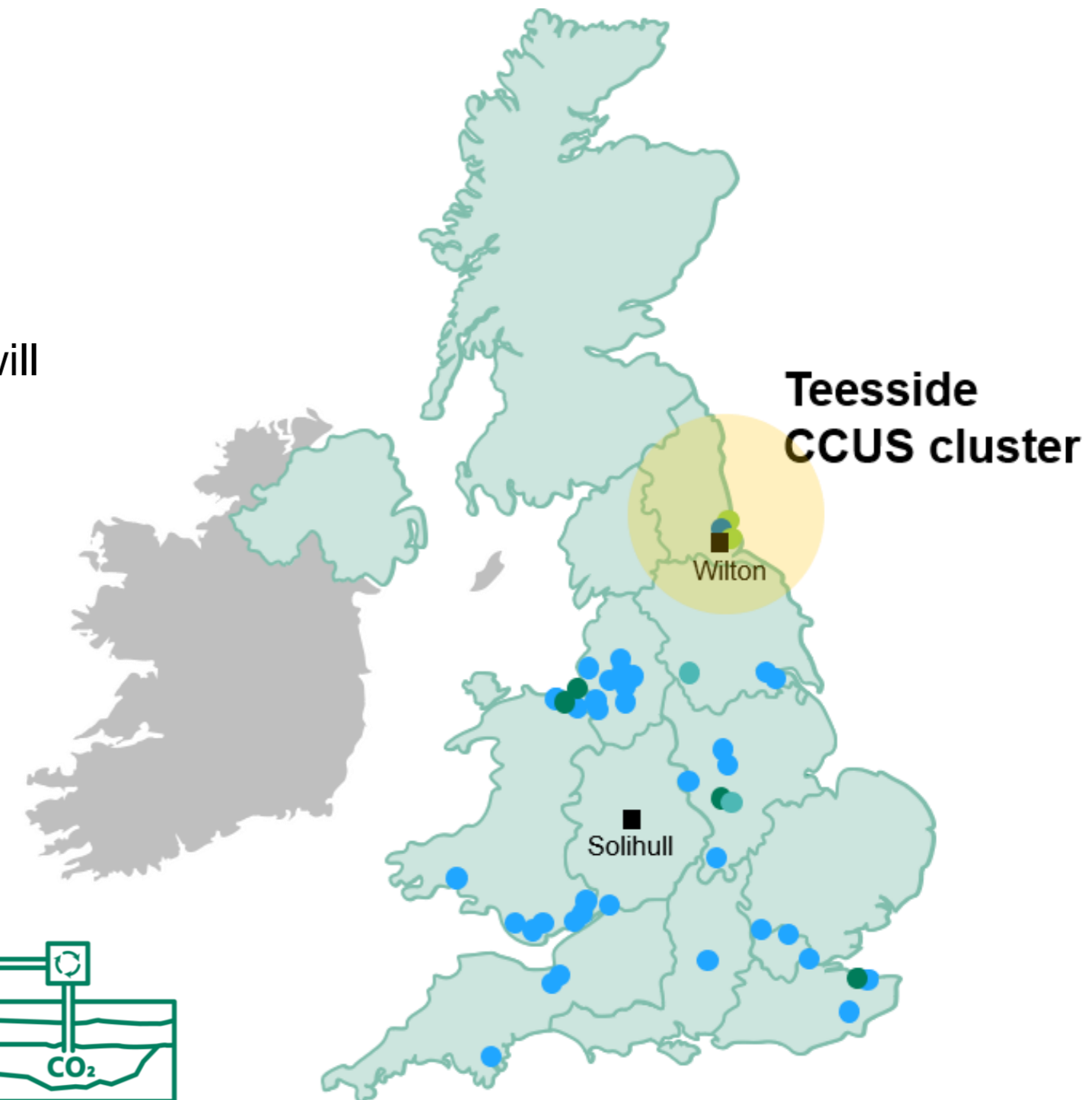
40+ FLEXIBLE
GENERATION
UNITS ACROSS
ENGLAND &
WALES

SUPPORTING NET
ZERO – PLANS FOR
360MW BATTERY &
CCUS AT WILTON
INTERNATIONAL

Sembcorp Energy UK at Wilton International



- Wilton International site on Teesside sits within a hub of decarbonisation innovation.
- Teesside is part of the 'East Coast Cluster' which has been selected as one of the UK's first two carbon capture, usage and storage (CCUS) projects.
- We are working with East Coast Cluster to lead the development of the UK's first industrial CCUS cluster coupled with decarbonised power that will encourage investment and support regional growth.





WILTON
INTERNATIONAL

Energy | Space | Plug & Play

The site that's ready for
energy-intensive industry
in a Net Zero cluster



Wilton International



Wilton International is the multi-occupancy site at the heart of Teesside's industrial cluster – the largest cluster of chemical, energy and process companies in the UK (former ICI site).



For energy-intensive industrial businesses, Wilton International delivers competitive advantage through reduced costs, reduced risk and reduced project timeframes.



Wilton International



سابك
sabic

CropEnergies
en. sus

alpek[®]
polyester



HUNTSMAN

Enriching lives through innovation

 **NIPPON
GASES**

Biffa **Polymers**



Wilton International – Energy | Space | Plug & Play

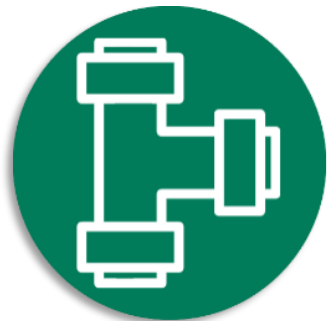


For energy-intensive industrial businesses, Wilton International delivers competitive advantage through reduced costs, risk and project timeframes.



Resilient, secure, low-cost energy

On-site energy generation from multiple assets with National Grid backup ensures energy security, resilience and cost savings.



'Ready-to-go' infrastructure

Established industrial infrastructure is ready to deliver the utilities, feedstocks, industrial gases and products needed by investing businesses.



'Plug & play' property solutions

A range of large-scale, fully serviceable development plots are available, with flexible tenancies and supportive planning regime.



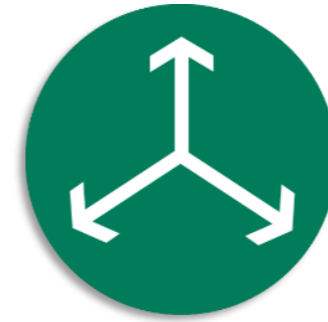
Freeport Tax Zone

200ha of the development land is proposed to be within the Teesside Freeport. Benefits include ECA and Business Rates Relief.



Skilled labour, expertise and industry clustering

Location within the Teesside industrial cluster provides access to a large, technically skilled workforce, expertise and supply chain opportunities.



Total transport connectivity

Comprehensive, multimodal freight transport solutions are directly accessible on Teesside – for logistics efficiency, flexibility and security.








WILTON
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Update on Inward Investment



The Woodsmith Project



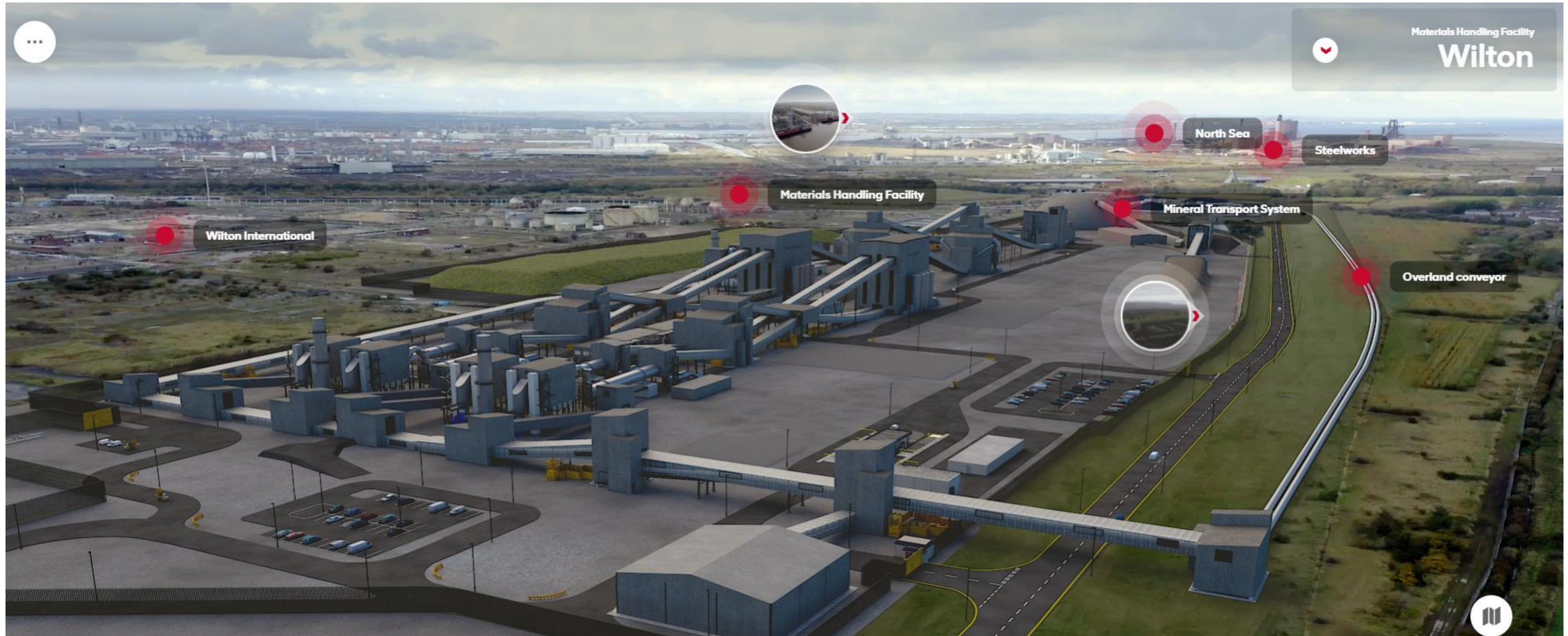
-  Anglo American's Material Handling Facility is under construction at Wilton International.
-  The 23-mile tunnel is progressing from Wilton and the mine at Whitby has reached just over 11 miles taking it beyond Lockwood Beck.
-  At Lockwood Beck, a small intermediate shaft for tunnel ventilation and access has reached its full depth of 383m and is being lined before connecting it to the tunnel.
-  A total 1,300 people are now employed full-time in the construction of the project.
-  Anglo American expects to invest around £440 million on the project in 2022.





AngloAmerican

The Woodsmith Project





ReNew ELP has begun construction of the world's first commercial-scale Hydrothermal Plastic Recycling System (HydroPRS™) plant at Wilton International.



Once operational, the site will be capable of upgrading up to 20,000 tonnes per year of waste plastic to be chemically recycled into hydrocarbon feedstocks, valuable chemicals, and oils.

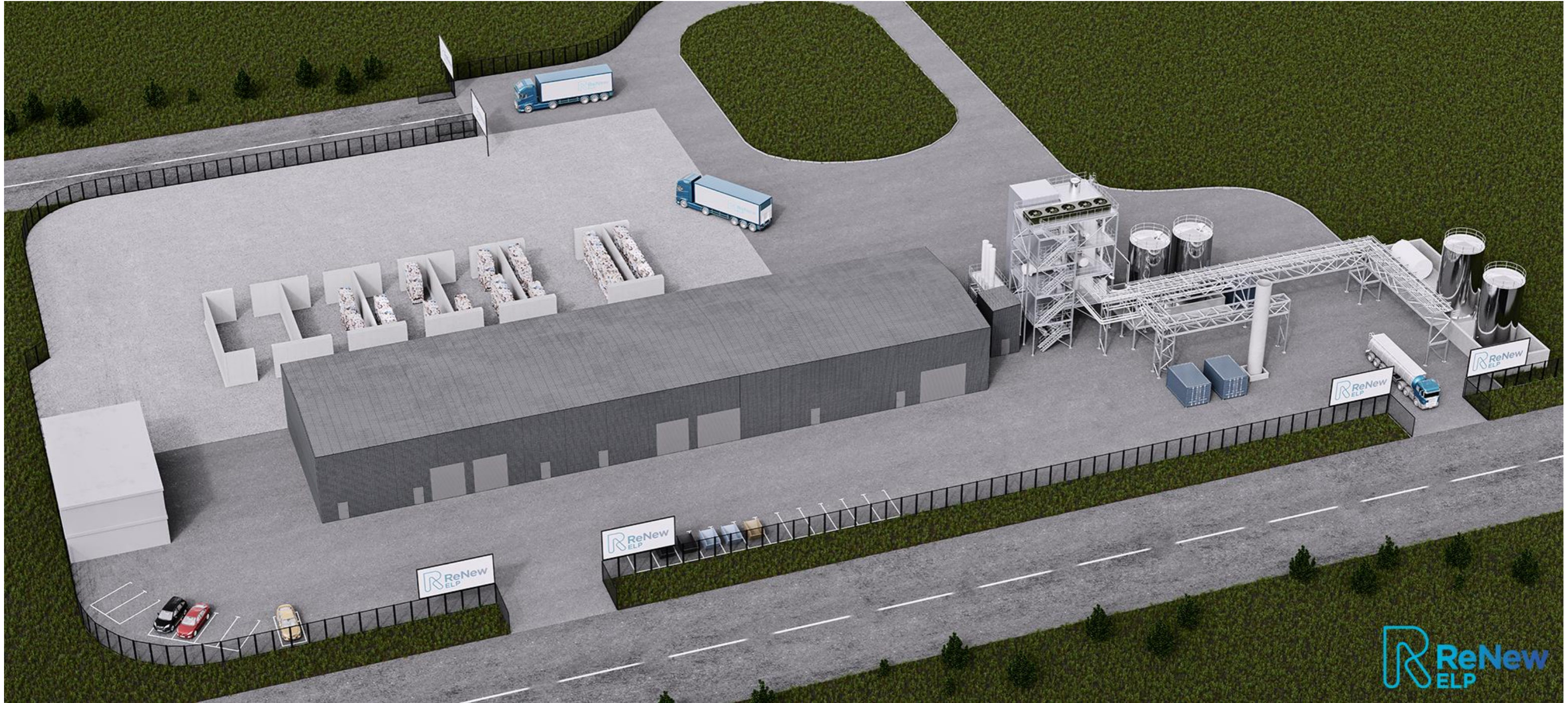


The project will create over 30 new jobs in the region.



The site aims to process up to 80,000 tonnes per year.







Sofia Offshore Wind Farm (RWE) and Dogger Bank Wind Farm (SSE Renewables / Equinor / ENI) are under development 195km from the Teesside coast. Once completed, these projects – costing £3billion – will be the largest wind farm in the world, as well as the furthest from shore.



Wilton International was chosen as the site for the onshore electricity converter – due to its plug & play capabilities – and construction has started on site.



Two converter substations are under construction – which will take the electricity generated by the wind turbines and convert it from HVDC to HVAC current before the power passes through the adjacent main substation and on to the National Grid.

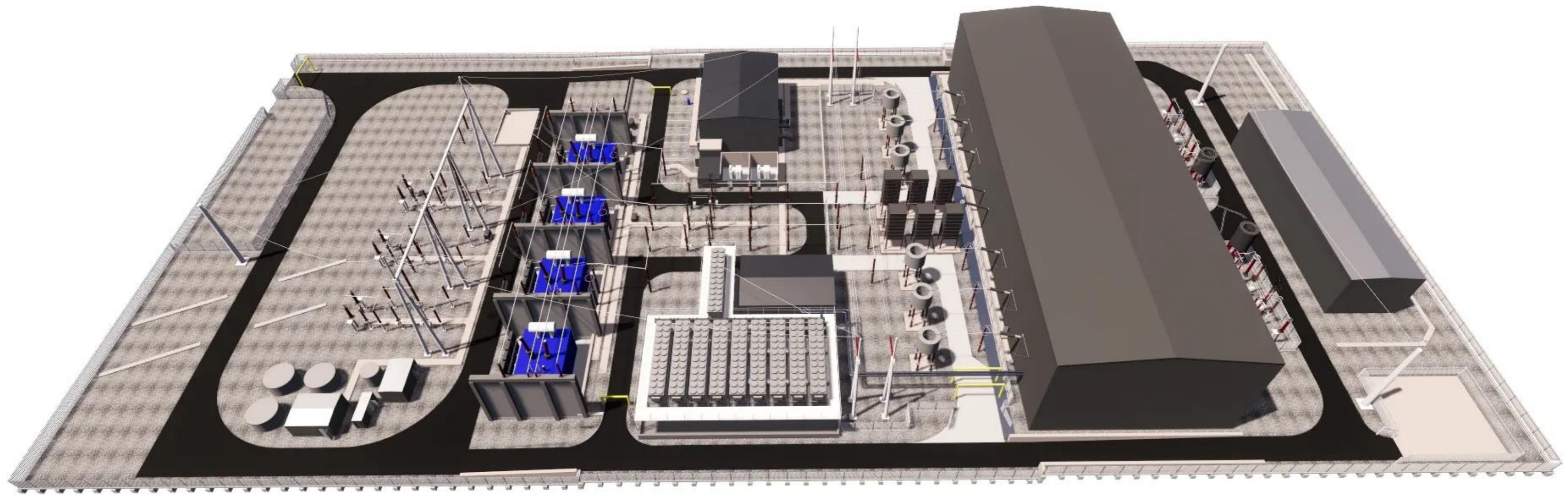


This is a vital step in connecting the wind farm to the national grid.





DOGGER BANK WIND FARM





Peak Rare Earths Ngualla mine is one of the world's largest and highest-grade undeveloped neodymium (Nd) & praseodymium (Pr) rare earth projects.



The final product has a unique set of properties that are highly strategic in a range of technological and decarbonisation applications including electric vehicles and wind turbines.



In June 2021, Peak announced a 250-year lease for a 19-hectare plot land on the former Invista plot had been executed by the parties. Planning permission has also been granted.



In July 2021, a Special Mining Licence for Peak's project was approved by the Tanzanian Government marking the final major regulatory approval needed.



Construction at Wilton is expected to begin Q4 2022 with the plant being online September 2024.

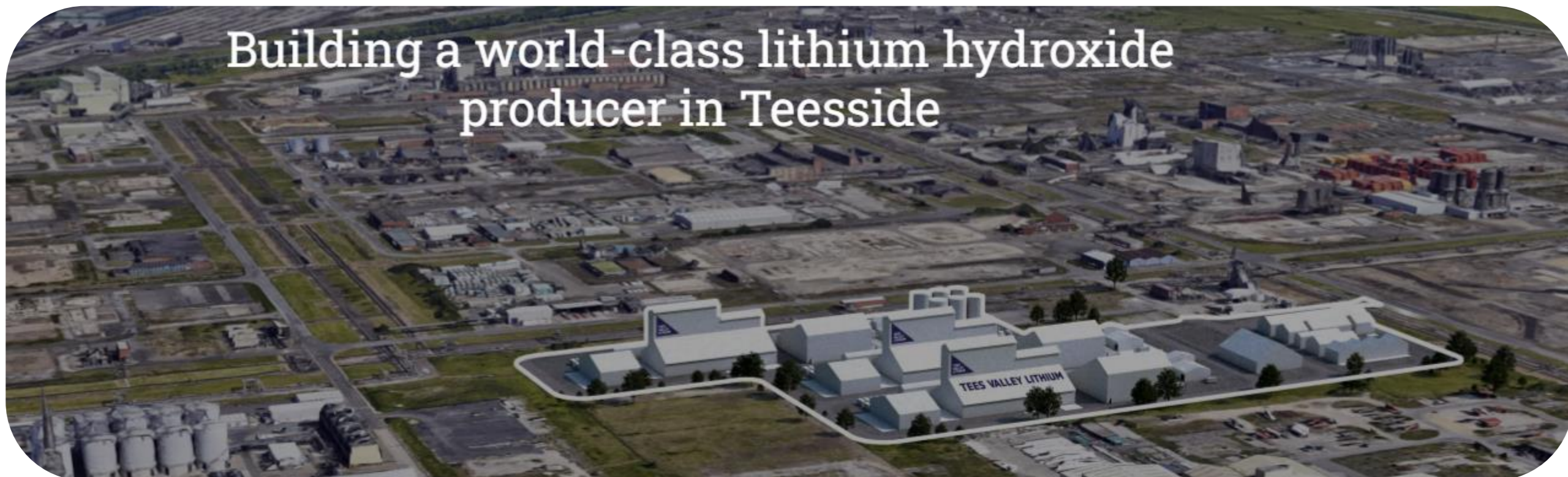




Tees Valley Lithium is Europe's first independent and sustainable lithium hydroxide producer developing their project at Wilton International to supply the burgeoning demand from Gigafactories in the UK and Europe producing up to 96,000 tonnes annual production of battery grade lithium hydroxide representing approximately 15% of projected UK and EU demand







Locating on a 20-acre plot, Tees Valley Lithium will be supplied power, steam and utilities from Sembcorp's centralised energy and utilities operations



Wilton International Roadside Development



-  In November 2020, Sembcorp obtained outline planning consent for a mixed-use roadside development.
-  The development would include a petrol station, convenience store and hot food takeaway, providing a much-needed amenity to Wilton and the local area.
-  Marketing of the development opportunity has concluded, and Sembcorp are in discussions with a preferred bidder. There has been huge interest in the opportunity from developers and brands alike.
-  With construction expected to start in 2022, the development could be open by Q2 2023.





Development Opportunities Available

-  Wilton International has shovel-ready development plots available for energy-intensive industries and sectors.
-  Some plots at Wilton have pre-consented planning permission, which can reduce project risk and timelines.
-  Sembcorp owns and operates the UK's largest private wires network at Wilton, meaning developers have access to reliable and competitively-priced power generated on site and backed up by the National Grid.
-  Teesside is home to the largest Freeport in the UK; Wilton is central to this with a proposed 200ha of tax zone land and excellent connectivity to Teesport and the wider Teesside industrial cluster.





WILTON
INTERNATIONAL

Update on Energy Projects



Introducing Whitetail Clean Energy (Whitetail)



Whitetail is a collaboration between 8 Rivers, a U.S. innovation firm, and Sembcorp Energy UK, bringing world-leading development expertise to this NET Power project.

8 RIVERS



Innovative
350MW
plant

> **800,000**
tons CO₂
captured per
year

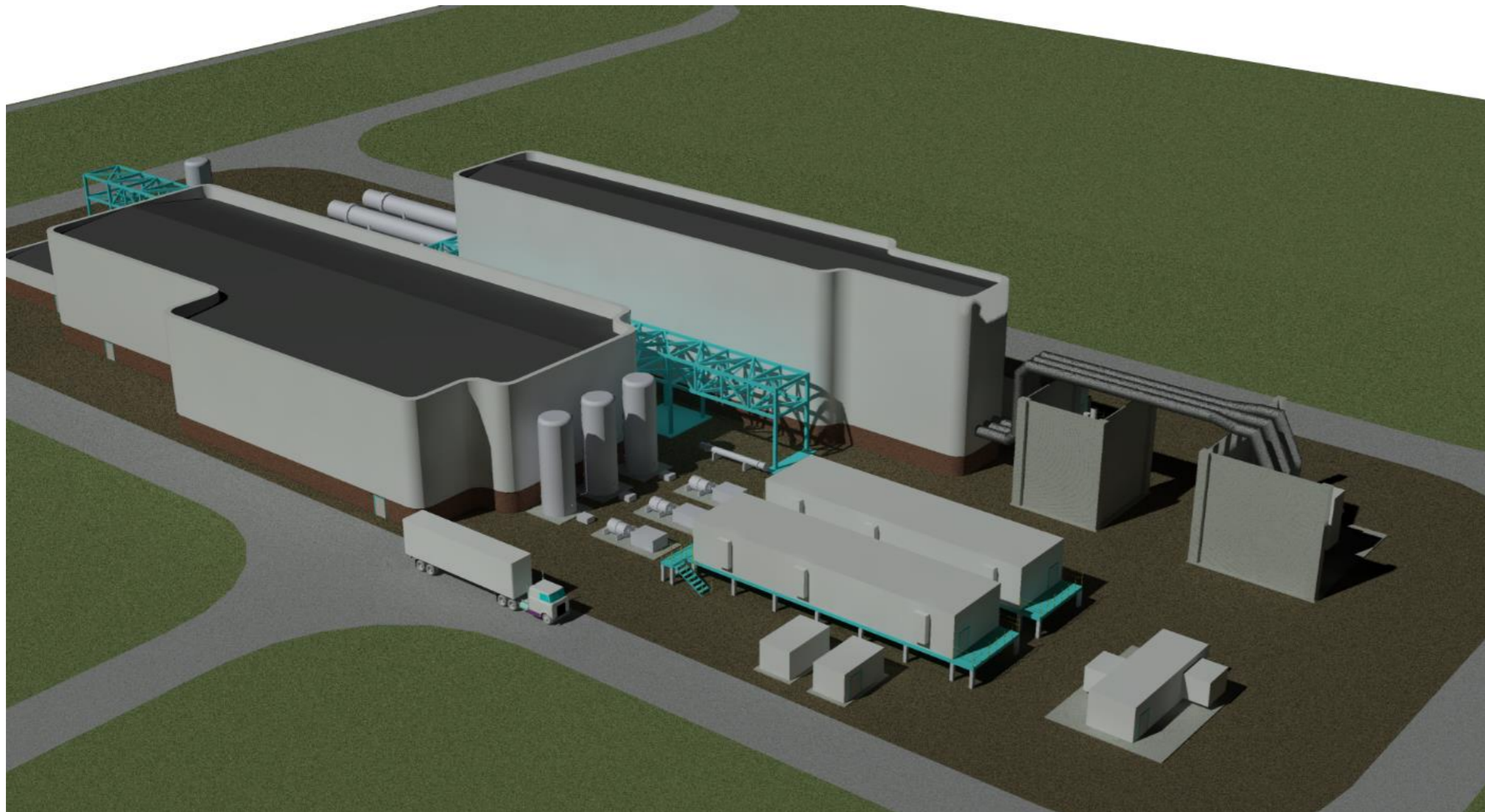
Near
Net Zero
emissions

Operational by
2026

<https://whitetail.energy/>

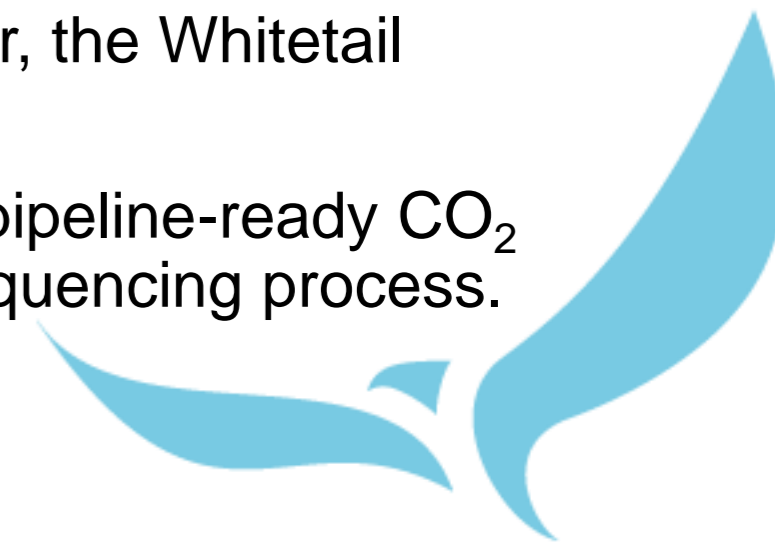


Innovative Low-Carbon Technology



- Innovative 350MW Power station poised to capture and store carbon emissions offshore
- UK's first Net Power plant
- Capturing almost 98% of carbon dioxide emissions for sequestration
- Major contribution to the levelling-up agenda, supporting Net Zero goals

- Harnessing the NET Power process that combusts natural gas with oxygen rather than air, the Whitetail plant will use supercritical carbon dioxide as a working fluid to drive a turbine.
- Flexible, low carbon, dispatchable power, available when needed. Whitetail will produce pipeline-ready CO₂ which is captured in existing T&S network supporting the ongoing BEIS CCUS cluster sequencing process.



Supporting the Net Zero Transition



In the UK, major milestones on Sembcorp's journey to a cleaner future started with pioneering biomass in 2007 – this helped lead to the closure of our last coal-fired boilers at our Wilton Power Station in 2014, ahead of the Government's 2015 commitment to phase out coal over the following 10 years.

In 2016, the Wilton 11 Energy from Waste Combined Heat and Power facility then came online, and 2018 saw our UK operations expand with rapid-response energy generation that helps enable more renewables on the grid.

With Sembcorp's global strategy to transform its portfolio from brown to green, our decarbonisation journey continues. We are also in conversation with our customers at Wilton International about how we can help reduce their emissions with solutions that in future may involve low carbon hydrogen or industrial CCUS.

