

Overview of energy hubs and carbon capture

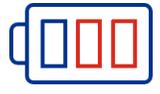
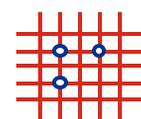
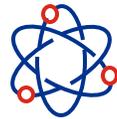
Graeme Wilson, Worley



Energy transition: Worley is the leader

2948+

Project experiences



Solar power	Wind power	Geothermal, hydro & ocean power	Nuclear power	Renewable fuels, renewable natural gas, waste-to-energy	Hydrogen	Distributed energy, EV & storage	Electrification, energy efficiency & grid transformation	Carbon capture utilization & storage	Mining, minerals and metals	Energy Transition materials
360+ Solar power projects	759+ Wind power projects	309+ Geothermal, hydro and ocean power projects	226+ Nuclear power projects	246+ Renewable fuels, renewable natural gas, and waste-to-energy projects	105+ Hydrogen projects	230+ Distributed energy, EV & storage projects	228+ Electrification, energy efficiency and grid transformation projects	213+ Carbon capture utilization and storage projects	56+ Energy Transition projects in mining, minerals and metals	212+ Energy Transition materials projects (excluding copper)
950 MW World's largest CSP/PV hybrid project	310 MW Largest onshore wind farm (and largest in Africa) 2600 MW Largest offshore wind farm	20 GW Largest hydropower project	30+ GW Nuclear projects in 60+ years, 27 countries, 5 continents	\$211m Savings in a single project through licensor design optimization	36 GW Largest green hydrogen electrolyzer studied, combined with offshore wind	200 MW EPC for PV solar project including grid interconnection	\$20m/yr Savings achieved through energy efficiency and electrification for a single industry client	100 MT Million tons of CO ₂ expected to be captured and stored on world's largest CCS project	70% Diesel reduction through electrification at world's largest iron ore mine	25+ Lithium projects in brine concentrates 25+ yrs Lithium experience globally



Carbon capture project at Drax power station

We are providing the early front-end engineering and design (pre-FEED) for the first two carbon capture units at Drax Group's power station in North Yorkshire, UK. Each unit is expected to capture approximately 4 million tonnes of carbon dioxide a year.

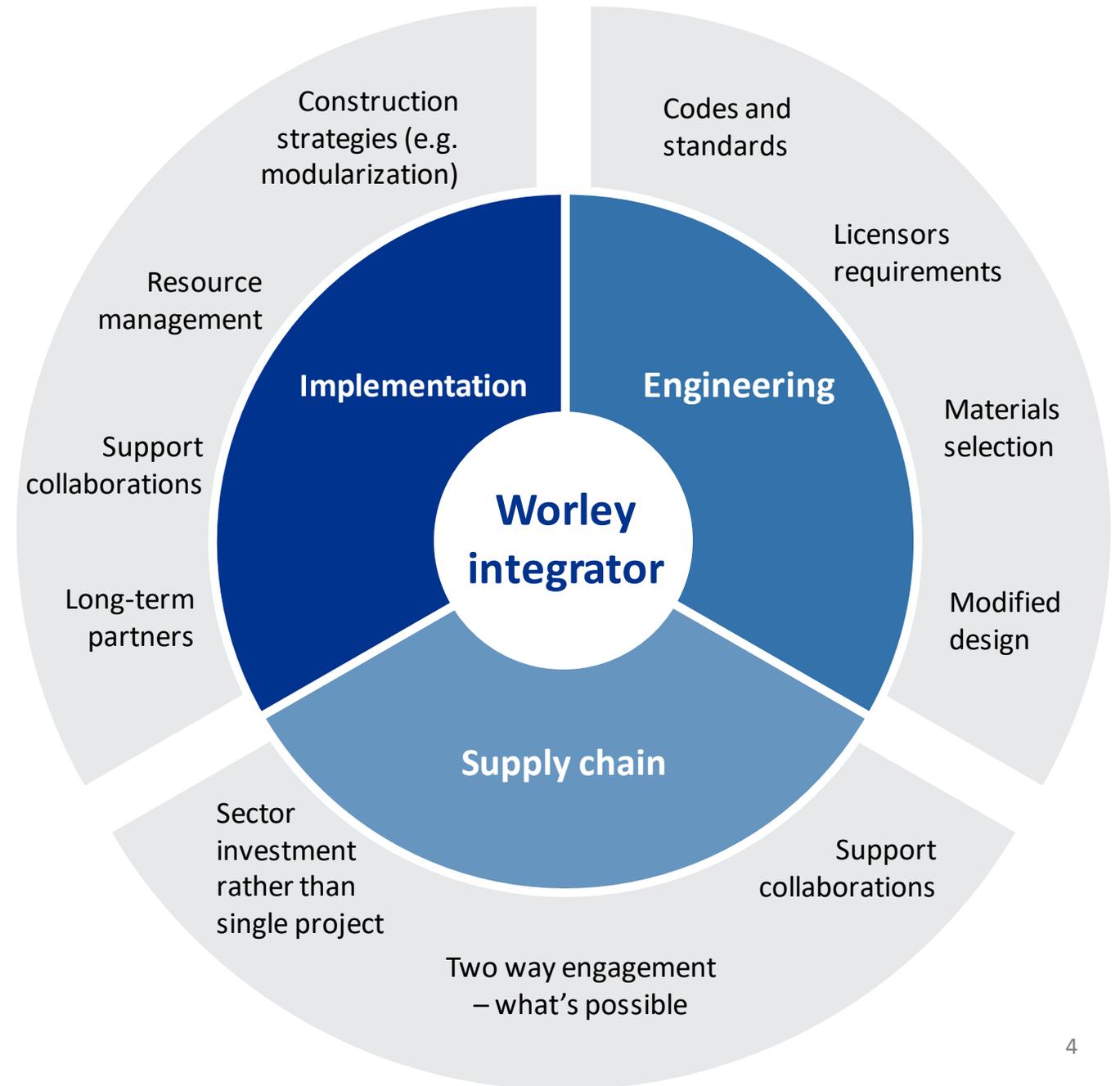
The carbon capture units will incorporate the negative emissions process scheme, Bioenergy with Carbon Capture and Storage (BECCS). Drax has successfully piloted BECCS which generates renewable electricity while permanently removing carbon dioxide from the atmosphere.

Our work includes developing the plant layout, cost estimation and schedules for FEED and detailed engineering, procurement and construction. It will also explore options to integrate the project into the existing Drax site at an industrial scale and provide studies to optimize performance and cost.

This project could result in the power station becoming carbon-negative and contribute to Humber's ambition to become the UK's first zero-carbon industrial cluster. It also has the potential to inspire future decarbonization projects from adjacent industries.

In-Country Value (ICV) for UK industrial hubs

- Worley and our Peers become integrators
- Early development of execution plan to maximize value from UK – Driving ICV
- Adjust engineering and execution plan to increase ICV
- Long-term perspective – market sector rather than project
- Exportability
- EIC support – UK knowledge
- Promotes competition rather than nationalization





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