

NATIONAL JOINT COUNCIL for the ENGINEERING CONSTRUCTION INDUSTRY

POTENTIAL CARBON CAPTURE & STORAGE PROJECTS

30th APRIL 2024

CLIENT	LOCATION	PROJECT	COMMENTS	LAST UPDATE
DOUBLE CLICK ON THOSE CLIENTS UNDERLINED FOR GREATER DETAIL				
<u>Cory Environmental Holdings Ltd(CEHL)</u>	London	Cory Decarbonisation Project Construction and operation of carbon capture plant	November 2021 Cory announced largest single site EfW decarbonisation project. NIP/BETA accepted application 18.4.24. Pre-examination now in progress until 18.7.24.	19.4.24
<u>Drax</u>	Selby	BECCS - Bio-energy, Carbon Capture & Storage	Final investment decision expected 2023. Worley undertaking the FEED study. Drax is part of the East Coast Cluster, a partnership between Zero Carbon Humber and Net Zero Teesside. Work to build BECCS could start as soon as 2024. Sec of State granted consent 16.1.24. No new information.	19.4.24
<u>Hanson Heidelberg Cement Group</u>	Padeswood Cement Works Flintshire	Padeswood Cement Works CC & Storage	£400m capital value. Padeswood is part of the HyNet North West decarbonisation cluster. Progressed to the due diligence and negotiation phase. 350 peak workforce. March 2023 shortlisted to proceed to negotiations for UK Gov financial. Hanson to take account of feedback when finalising the planning application, which was submitted to Planning and Environmental Decisions Wales (PEDW) late 2023. Project now aims to be operational in 2028.	19.4.24
<u>Keadby Generation Ltd</u>	Keadby	Keadby 3 Low Carbon Gas PS Project 910 MW	Sec of State granted consent 7.12.22. Awaiting outcome of bid for UK Gov funding. March 2023 NOT shortlisted to proceed to negotiations for UK Gov financial support. No new information.	19.4.24
<u>Net Zero Teesside</u>	Teesside	860MW Complex Clean Energy Project	Previously known as the Clean Gas Project. OGCi Climate Investments which include Shell, Total, Equinor and Eni and led by BP. Start-up date of mid-2025. March 2023 shortlisted to proceed to negotiations for UK Gov financial support. Sec of State granted consent 16.2.24. 11.4.24 Wood Group selected as a contractor for integrated project management services.	19.4.24
<u>Phillips 66/Uniper/VPI Immingham</u>	South Humber Bank	Humber Zero	£1b -£2b capital value. Projected start up 2027. Key contract issued to Babcock & Wilson for designing pre-treatment process. March 2023 NOT shortlisted to proceed to negotiations for UK Gov financial support. No new information.	19.4.24
<u>Prax Lindsey Oil Refinery</u>	Humberside	Prax Lindsey Carbon Capture Project (PLCCP)	£300m capital value. Prax Lindsey Oil Refinery announced plans to build CC plant. March 2023 NOT shortlisted to proceed to negotiations for UK Gov financial support. No new information.	19.4.24

RWE Generation SE	Pembroke	Pembroke Net Zero Centre (PNZC) 2.2GW CCGT Carbon Capture	RWE signed contract with Fluor. Feasibility study re decarbonisation around PNZC in order for RWE to participate in the UK Gov's carbon capture, usage & storage (CCUS) cluster sequencing process. Peak manpower 900-1500. Preparing to apply to the Dpt for Energy Security and Net Zero's Track 2 Phase 2 cluster sequencing funding application process. Now completed feasibility studies ahead of taking the next steps toward its FEED study. No new information.	19.4.24
RWE Generation SE	Staythorpe PS	1.7GW CCGT Carbon Capture	Feasibility testing to retrofit CC technology at Staythorpe & Pembroke. RWE developed partnerships with industrial clusters S Wales Industrial Cluster (SWIC) and Viking CCS in order to develop transportation and storage options. Preparing to apply to the Dpt for Energy Security and Net Zero's Track 2 Phase 2 cluster sequencing funding application process. Now completed feasibility studies for its proposed CCS plant, and will shortly be moving ahead with procurement of its FEED study ahead of an initial consultation planned for February 2024. No new information.	19.4.24
RWE Generation SE	Stallingborough PS	Up to 900MW CCGT Carbon Capture	Developing proposals for a new CCGT at Stallingborough. Preparing to apply to the Dpt for Energy Security and Net Zero's Track 2 Phase 2 cluster sequencing funding application process. RWE has signed contracts with Technip Energies and Bechtel to deliver. Technip Energies and GE Gas Power will develop pre-FEED studies. Initial consultation planned for February 2024 with a further (statutory) consultation to follow in 2025. Stallingborough power station is a Nationally Significant Infrastructure Project (NSIP) and will require consent through the Development Consent Order (DCO) planning process. Early stage community consultation launched on 8.4.24 until 20.5.24. Statutory consultation to launch in 2025.	19.4.24
Sembcorp Energy UK/8 Rivers Capital/NET Power	Teesside	Whitetail Clean Energy 300MW	Whitetail Project expected to create more than 2000 jobs during peak construction. Currently awaiting outcome of its bid for UK Gov funding. March 2023 NOT shortlisted to proceed to negotiations for UK Gov financial support. No new information.	19.4.24
SSE Thermal & Equinor	Peterhead	910MW CCS	March 2022 planning application submitted. Mitsubishi Heavy Industries Group, Worley and Técnicas Reunidas to deliver a detailed plan for Peterhead Carbon Capture Power Station. The project to connect into the Scottish Cluster's CO2 transport and storage infrastructure although the Scottish Cluster is currently in 'reserve' status. Peterhead Carbon Capture Power Station could be operational as early as 2027. Planning permission granted by Aberdeenshire CC. UK Gov cut £1b CCS grant – project unlikely to proceed. No new information.	19.4.24
Storegga/Shell/Harbour Energy/North Sea Mid Stream Partners	St Fergus	Acorn Project CCS	Acorn Project has advanced directly into Track-2. 31.7.23 UK Gov confirmed funding for the Acorn Project in St Fergus. The project, could see up to 21,000 jobs created. Entering the Track-2 process will allow Acorn to commence detailed negotiations with Government. The Acorn Development Partners are currently preparing for detailed commercial negotiations with Government in Track-2. The Prime Minister confirmed Acorn had entered the Track-2 process in July 2023. 14.12.23 Acorn Partners sign MoU with Uniper. No new information.	19.4.24
Tarmac	Buxton	Buxton Lime Net Zero Project (BLNO)	Tarmac, in collaboration with Leilac, moving to deliver the world's first zero emissions lime plant and aims to develop the world's first commercial scale zero emissions lime plant which will use integrated carbon capture and storage (CCS) technology. March 2023 shortlisted to proceed to negotiations for UK Gov financial support. No new information.	19.4.24
Viridor	Runcorn	Runcorn Energy Recovery Facility CCS Project	Will provide CO2 to the HyNet Cluster in the NW. Peak manpower 1300. March 2023 shortlisted to proceed to negotiations for UK Gov financial support. February 2024 Environmental Permit application submitted. April 2024 Viridor entering final negotiations with DESNZ to conclude a Waste Industrial Carbon Capture contract which could secure Government support alongside Viridor's own investment to make the project a reality. Viridor announced that contracts have been signed with two key partners, to progress to the next stage of development. Progression to this phase of design activity will take Viridor's spend commitments on the project to over £20m. Technip Energies has been awarded the Front-End Engineering Design (FEED) contract and Fichtner has been chosen to provide Owner's Engineer (OE) services.	19.4.24