Everllence

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Everllence CO_2 Compression Technology for UK Flagship CCS Project

- **Everllence to supply five compressor trains for Net Zero Teesside Power and Northern Endurance Partnership**
- **NZT Power to capture up to 2m tonnes of CO_2 annually, with NEP transporting it to offshore storage sites**

Everllence has been commissioned to supply the CO_2 compression systems for Net Zero Teesside Power (NZT Power) and the Northern Endurance Partnership (NEP) – two flagship projects within the UK's government-backed East Coast Cluster decarbonization initiative in northeast England.

NZT Power is poised to be the UK's first commercial-scale gas-fired power plant with integrated carbon capture and storage (CCS). NEP will provide the transportation and storage backbone of the East Coast Cluster, gathering CO_2 from NZT Power and other industrial sources and permanently storing it in offshore geological formations beneath the North Sea – helping to decarbonize local power generation and industry on Teesside.

Developed as a joint venture between bp and Equinor, NZT Power will generate more than 740 megawatts of dispatchable low-carbon electricity, equivalent to the average annual consumption of more than one million UK homes, while capturing up to 2 million tonnes of CO_2 per year. Combined with emissions from additional industrial sources, NEP's infrastructure will eventually be able to transport and store up to 10 million tonnes of CO_2 annually from the Tees Valley region. NEP is a joint venture between bp, Equinor and TotalEnergies.

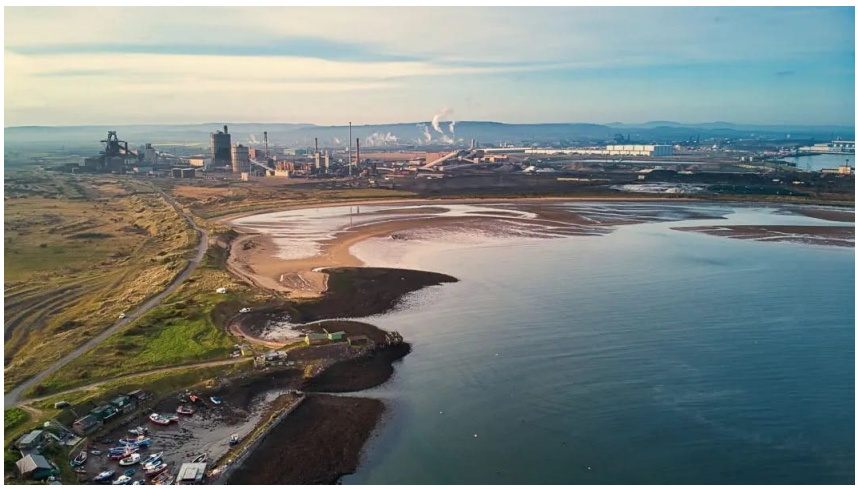
Dr. Uwe Lauber, CEO of Everllence, states: "This major initiative sets a precedent for climate-compatible power generation at scale. It shows how flexible gas-fired plants can become part of a net-zero energy system when paired with carbon capture. We're proud to contribute to this flagship project with our CO_2 compression expertise – supporting both UK climate goals and long-term industrial competitiveness."

As leader of a consortium with GE Vernova – and with the support of construction partner Balfour Beatty and technology partner Shell Catalysts & Technologies – Technip Energies is responsible for the design, procurement, construction and commissioning of the facility, including its CO_2 handling systems.

Everllence has been selected to supply a total of five centrifugal compressor trains for two different stages of the CO_2 process: two integrally geared compressors (type RG) will boost wet CO_2 at low pressure, driven by fixed-speed motors with soft starters and regulated through inlet guide vanes (IGV). The three radial barrel compressors (type RB) will process dry CO_2 at high pressure for offshore transmission via the Northern Endurance Partnership network and are equipped with electric motors featuring variable frequency drives (VFD). The supply also includes lubrication and control systems, and process-specific auxiliary equipment. In total, the five systems will compress over 370,000 kilograms of CO_2 per hour.

The scope further includes a dynamic process simulation, enabling the compressor systems to operate at their full potential in terms of process efficiency. The integrally geared compressors will feature a digital twin with virtual sensors, allowing the operator to validate measured data in real time. Using machine learning capabilities, the system can continuously adjust and refine its performance based on operating data.

Dr. Marco Ernst, Head of Segment CCUS at Everllence, adds: “Our compressor portfolio is designed to meet the full range of process conditions in CO_2 service – supporting everything from low-pressure to high-pressure applications, liquefaction, and pipeline transport. With all compression solutions provided from a single source, we ensure seamless integration, technical reliability, and efficiency across the entire CCUS value chain.”



Five Everllence compressor trains will be deployed for Net Zero Teesside Power and Northern Endurance Partnership © NZT Power

Three radial barrel compressors (type RB) from Everllence will process dry CO_2 at high pressure for offshore transmission via the Northern Endurance Partnership network. © Everllence

Two integrally geared compressors (type RG) from Everllence will boost wet CO_2 at low pressure for NZT Power © Everllence

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Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – 'Moving big things to zero' – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.