GE Vernova + Technip Energies + Shell Catalysts & Technologies + Balfour Beatty

ARE WORKING TOGETHER AT NZT POWER IN THE UK, A SITE THAT AIMS TO BE THE

WORLD'S FIRST COMMERCIAL-SCALE GAS POWER PROJECT WITH CARBON CAPTURE

The plant will be powered by GE Vernova's advanced 9HA.02 gas turbine, a steam turbine, a generator, a Heat Recovery Steam Generator, and an Exhaust Gas Recirculation (EGR) system.

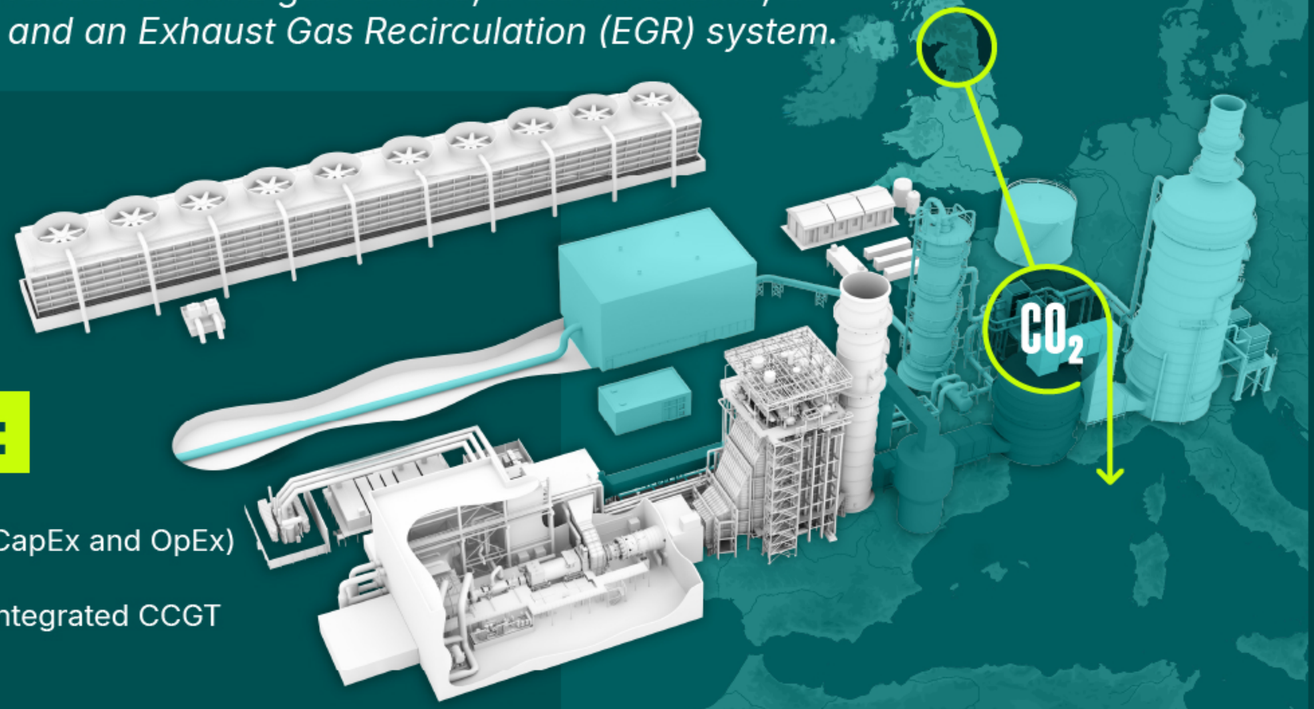
The plant will feature the 1st commercial use of

GE VERNOVA'S EGR TECHNOLOGY, which:

1. Recycles CO2-rich flue gas back to the turbine inlet
2. Increases the concentration of CO2 in the exhaust

POTENTIAL BENEFITS OF THE EGR SYSTEM:

- Reduced overall carbon capture plant cost (CCS CapEx and OpEx)
- Improvements in performance/emissions for the integrated CCGT
- Reduced solvent usage



Expected to capture

UP TO

2 MILLION

TONNES OF CO2

+

Power the equivalent

OF

1 MILLION

HOMES

WITH

FLEXIBLE

DISPATCHABLE

LOWER CARBON

↓

POWER