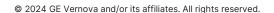


Matt Davidsaver, P.E.

CCS Product LineGas Power



GE Vernova



PURPOSE-BUILT

Launched as an independent company on April 2, 2024

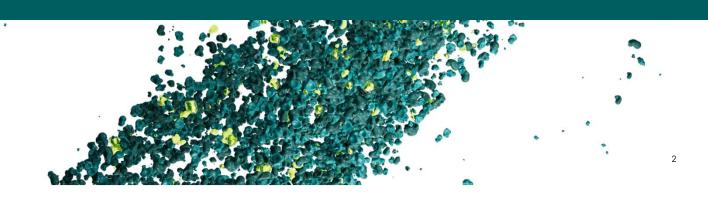
SCALE, BREADTH & TECHNOLOGICAL DEPTH

to be a leader: Power, Wind, Electrification & Digital businesses supported by Advanced Research, Consulting Services & Financial Services

NEARLY 30%

of world's electricity today generated by our technology

THE ENERGY TO CHANGE THE WORLD



Electrify and decarbonize the world



GE VERNOVA TECHNOLOGIES











GENERATE

TRANSFER

ORCHESTRATE

CONVERT

STORE







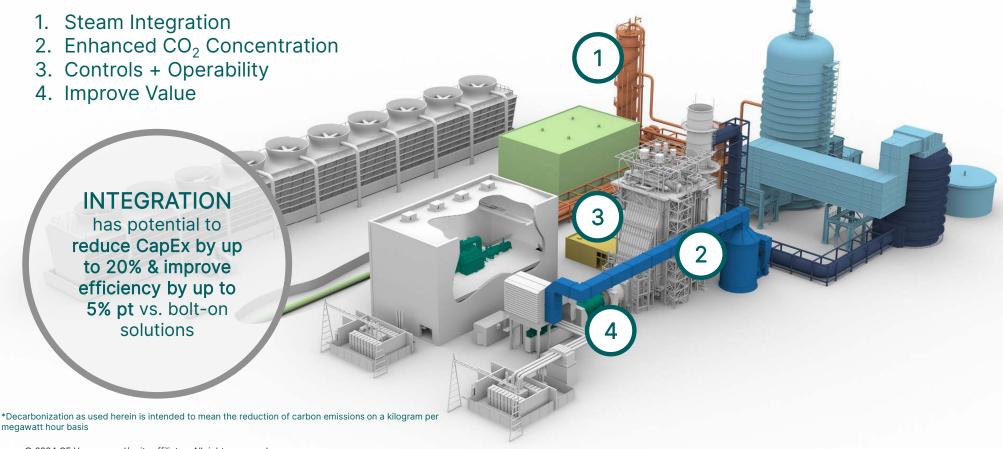
We provide essential products & services for the world's electricity systems

a- GE estimate of served available segment, capex and services

GE Vernova's Carbon Capture Solutions



Reduce overall decarbonization* cost while maintaining availability and reliability



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GE Vernova's carbon capture product offerings

Reduce overall decarbonization* cost while maintaining availability and reliability



Steam Integration



- ✓ Using steam produced in HRSG results in lower capital costs
- ✓ HRSG can provide reliable steam for the capture plant
- ✓ GE Vernova improves steam path and controls to provide best performance-value trade
- Capex
- Efficiency

Enhanced CO₂ Concentration



- ✓ Using GE Vernova's GT combustions' capabilities to increase CO₂ levels
- ✓ Increased CO₂ concentration helps reduce size of capture plant
- ✓ GE Vernova can manage the risk of elevating the CO₂ in our GTs
- Capex
- Risk Exposure

Controls and Operability



- ✓ Extending predictive modelbased controls into the CCS plant
- ✓ Advanced simulation of integrated NGCC & CCS improves commissioning time and training
- ✓ GE Vernova can manage the risk of GT & ST operability as well as CCS (e.g., grid, response, fast ramp, etc.)
- Reliability

Improve Value



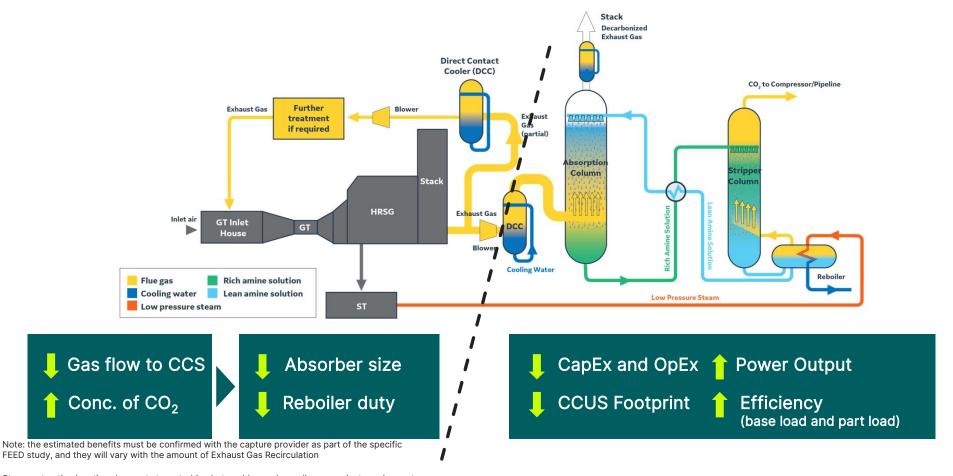
- ✓ Using proven GT modifications to improve functionality
- ✓ Recover MW to compensate for CCUS operation
- ✓ Potential increase in GT operability (e.g., grid response, fast ramp, etc.)
- Output
- Reliability
- Efficiency



^{*}Decarbonization as used herein is intended to mean the reduction of carbon emissions on a kilogram per megawatt hour basis

Enhanced CO₂ concentration with EGR





Steam extraction location shown at steam turbine but could vary depending on project requirements

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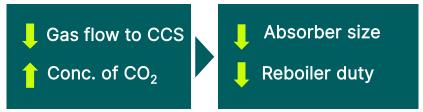
Enhanced CO₂ concentration with EGR



Featured Categories

From FEED studies GE has led or facilitated

- 15% Solvent Makeup (reduced O2 results in reduced solvent oxidation)
- 4+% TPC CAPEX (CCS piping, absorber size and materials)
- 1 27% kg/hr reduction SOx
- No Change to plant auxiliary loads



Note: the estimated benefits must be confirmed with the capture provider as part of the specific FEED study, and they will vary with the amount of Exhaust Gas Recirculation

Southern Company Plant Barry FEED Study

POWER



https://www.powermag.com/ge-led-carbon-capture-project-at-southern-company-site-gets-doe-funding/



We are Ready to Quote

- 7HA.03
 - 564MW Net, ISO, 1x1 Single Shaft with up to 95% Carbon Capture
 - ~1.6M tonne CO2 annually at 90% capacity factor

- 9HA.02
 - 730MW Net, ISO, 1x1 Single Shaft with up to 95% Carbon Capture
 - ~2M tonne CO2 annually at 90% capacity factor





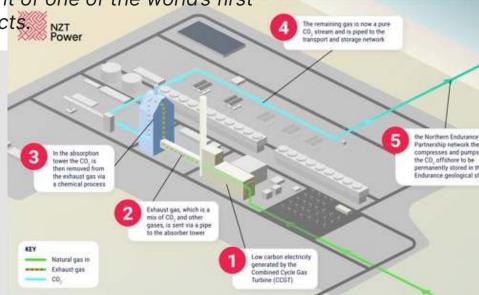
Note: the estimated values must be confirmed with the capture provider as part of the project specific FEED study, and they will vary with the amount of Exhaust Gas Recirculation

Net Zero Teesside Power (NZT Power), UK

bp selects Technip Energies and GE Vernova for development of one of the world's first commercial scale gas-fired power and carbon capture projects.

 Technip Energies with GE Vernova, and construction partner, Balfour Beatty, received a Letter of Intent from bp for the execution phase of the Net Zero Teesside Power (NZT Power) in the United Kingdom.

- Landmark project in the UK expected to capture up to 2 million tonnes of CO₂ per year
- Earlier Technip Energies and GE Vernova Gas
 Power developed a front-end engineering design
 (FEED) study to integrate carbon capture solution
 with a H-Class natural gas fired power plant
- GE Vernova Gas Power will provide expertise in combined cycle plant engineering, operability, and plant integration while Technip Energies will focus on carbon capture and compression plant using Shell's Cansolv® carbon capture technology.



GE VERNOVA

How Else to Integrate?



GE is Ready to Find Novel Integrations!

Heat Integration

Electrical Integration

Controls Integration

Mechanical Integration









Cas Power

Exhaust gas recirculation (EGR) and carbon capture



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