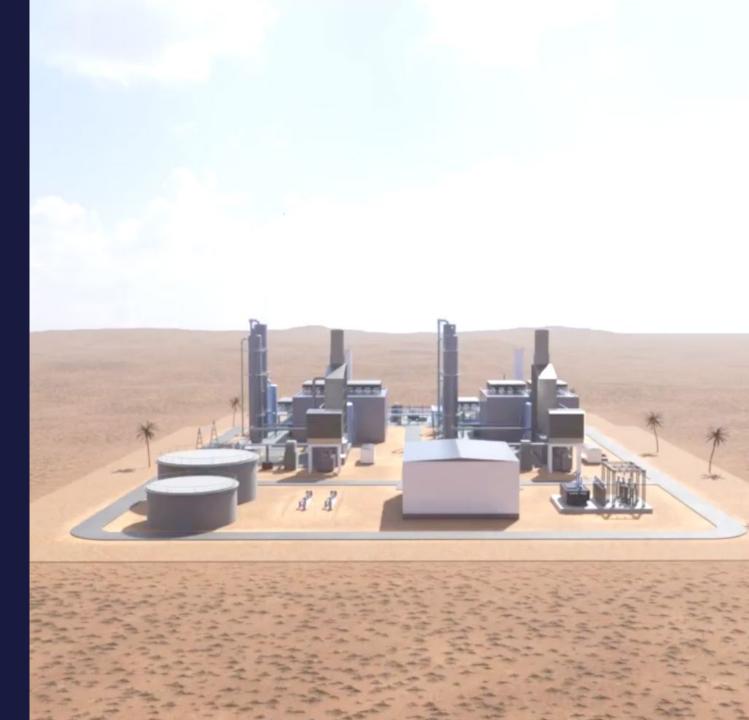
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CapsolGT® enabling affordable lowcarbon gas power generation

Carbon Capture Technology Expo North America June 2024

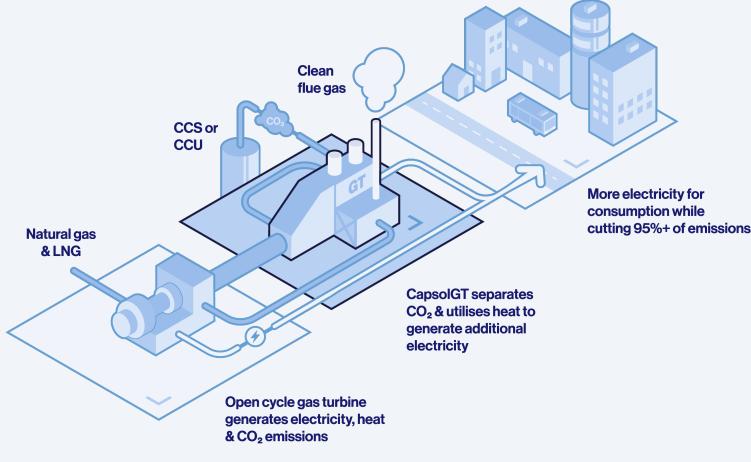




The challenge

- Highly efficient gas turbines play a key role in global decarbonization efforts
- Gas power is seen as a vital transition technology to replace heavy emitters
- To further increase its long-term relevance, turbine operators seek an economically viable carbon capture solution
- Traditionally linked with high capex and opex due to low concentration of CO₂ in the exhaust gas
- Cost-efficient carbon capture from gas turbines is seen as the "holy grail" in the carbon capture industry

CapsolGT[®]: A highly cost-competitive carbon capture solution developed specifically for gas turbines



Carbon capture plant for gas turbines

GE Vernova's and Siemens Energy's Aeroderivative and industrial sizes (10 -120+ Mwe)

Carbon capture, heat recovery and power generation in one

Utilizes waste heat to drive the capture cycle and generate additional power

Safe, environmentally friendly capture solution

The two main gas turbine segments



Simple/open cycle

10 – 120+ MW 35% – 40% +

Oil & gas Industry

Peak load power plants

CapsolGT[®] applicable for retrofit on existing and new built



Combined cycle

150 – 450+ MW

55% - 62% +

Power generation

Several parallel CapsolGT[®] plants as alternative to new built "base load" power plant

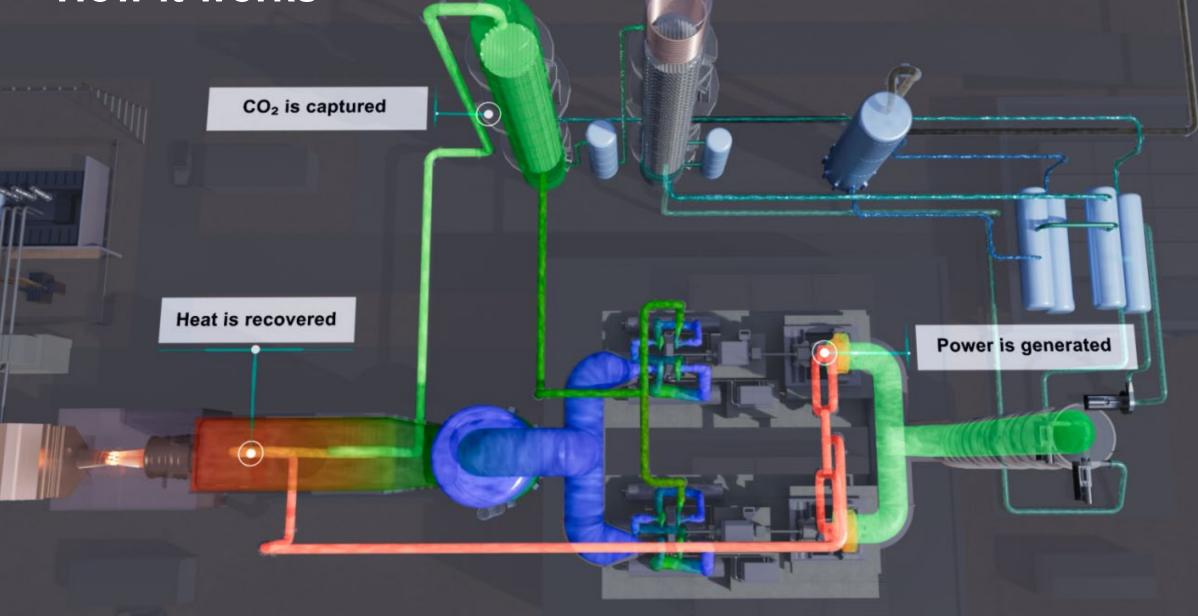
Gas turbines size

Plant efficiency

Typical application

CapsoIGT® technology fit

How it works



A highly attractive value proposition



Efficient technology suitable for any conditions



Reduced overall plant complexity and capex



Superior environmental impact



Delivered together with leading turbine manufacturers



1 Efficient technology suitable for any conditions

Maintaining additional electricity generation

Where the weather is hot

- Minimized air-cooling demand
- Optimized power generation during heat streaks

Where water scarcity occurs

- Closed-loop water balance possible
- Utilizes water from flue gas
- Where capture emissions matter
 - Free of harmful Nitrosamines and Ammonia compounds



2 Reducing overall plant complexity and CAPEX

Easier to integrate and enhanced system reliability

No turbine modification required

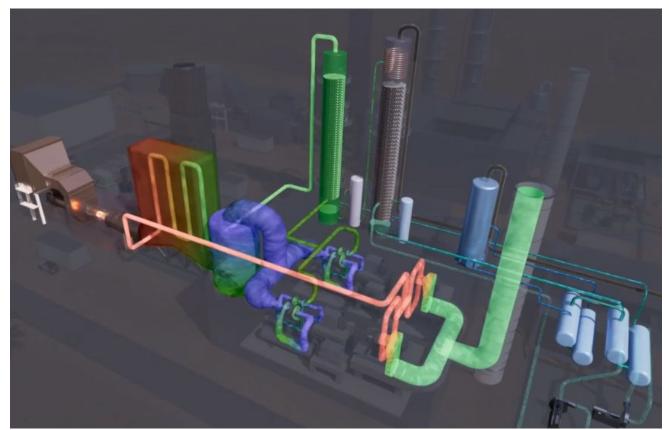
- Avoids exhaust gas recirculation
- Connects at the end of the exhaust gas duct

Avoids steam boiler

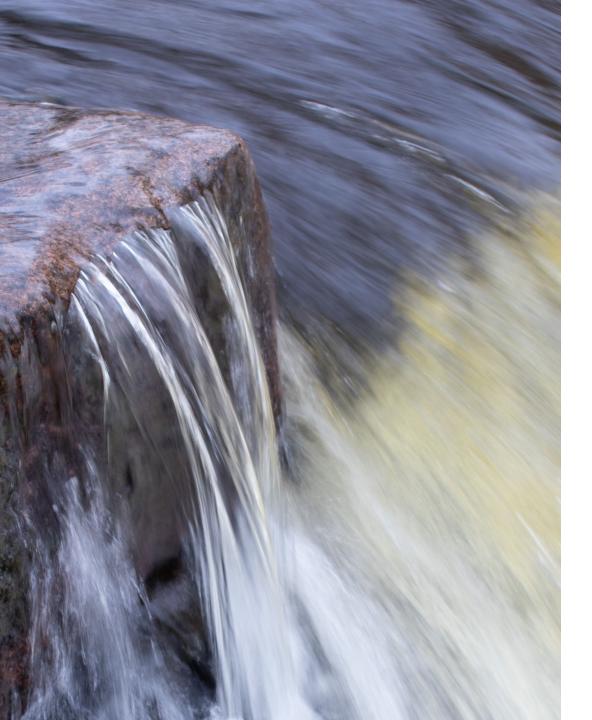
- Reduces operational complexity
- Enhances system reliability

Modular and flexible

- Several parallel powertrains
- Utilizes waste heat for efficiency



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3 Superior environmental impact

- Low water consumption
- Superior degradation profile
 - Due to absence of thermal degradation as well as oxygen reaction
- Free of harmful Nitrosamines

Delivered together with leading turbine manufacturers

GE Vernova and Siemens Energy



- Collaboration agreement with GE Vernova to collaborate on lower-carbon gas power by deploying GE's aeroderivative gas turbines in combination with CapsolGT[®] carbon capture plants
- The aim is to add significant value for low-carbon power producers, helping them to reduce costs and improve the efficiency of their future gas power plants

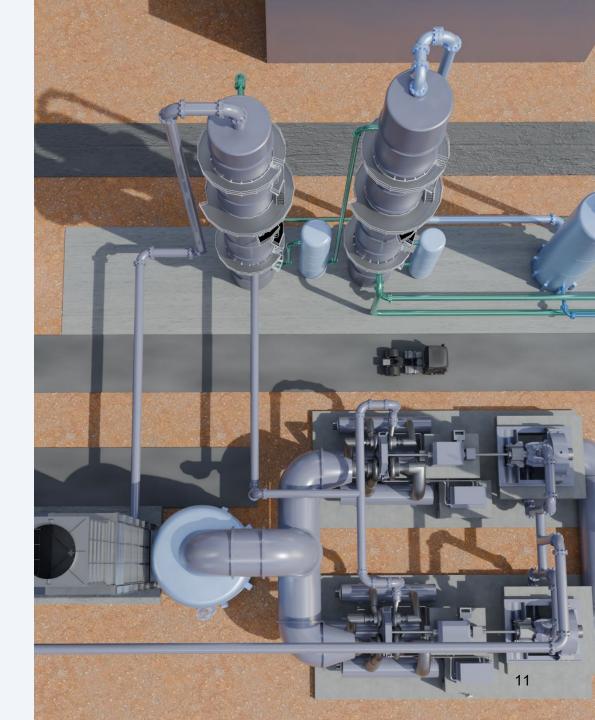


- Siemens Energy and Capsol Technologies participated in a non-exclusive pre-Feed study to evaluate CapsolGT[®] solution in combination with open cycle gas turbines
- Siemens Energy delivered thousands of gas turbines in relevant CapsolGT[®] size



Pre-FEED study validates highly attractive offering

- ✓95%+ capture rate for greenfield power plant with CapsolGT[®]
- ✓CapsoIGT[®] produces additional electricity
- Capex targets within range list of value engineering initiatives to further reduce costs identified





Ready for contracting

- Actively engaging with gas turbine operators and greenfield project developers
- Carbon capture potential of more than 200,000 tons of CO₂ per year per 50MW gas turbine
- Scalable solution tailored for various gas turbine sizes

H1 2024 Pre-FEED

executed



2026/27 Target start up of first capture plant capsol technologies

capsoltechnologies.com