

Siemens Energy

Versatility of Heavy-Duty and Industrial Gas Turbines

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As an integrated energy
technology company

**we support our
customers along
the energy value
chain**



Power generation

- > [Gas Services](#)
- > [Siemens Gamesa](#)

Transport and storage of energy

- > [Grid Technologies](#)

Reducing GHG emissions and energy consumption in industrial processes

- > [Transformation of Industry](#)

Facts and figures about Gas Services



More than **26,000**
employees worldwide¹



Built on a **150-year**
legacy



~ €11bn Revenue



> 7,400

Heavy-duty, aeroderivative and industrial gas turbines and large steam turbines



€41bn

Order backlog with > 80% in Service



32%

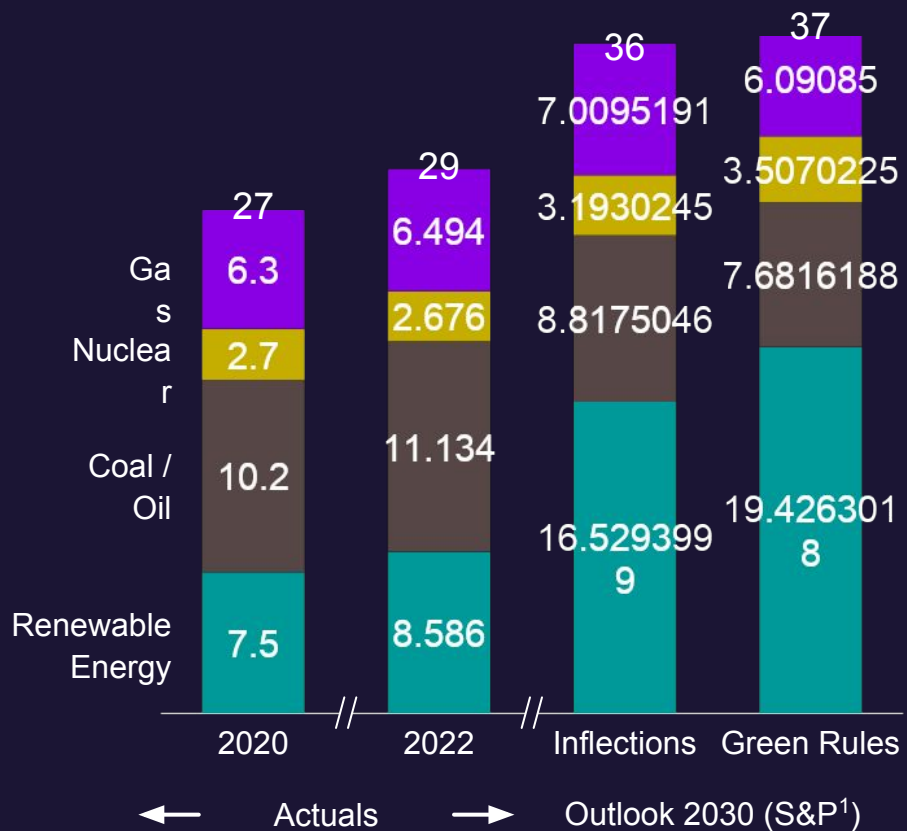
Total market share in GTs > 10MW²

¹ Including support functions | ² In Power Generation applications for FY23

Gas additions expected to remain at high level

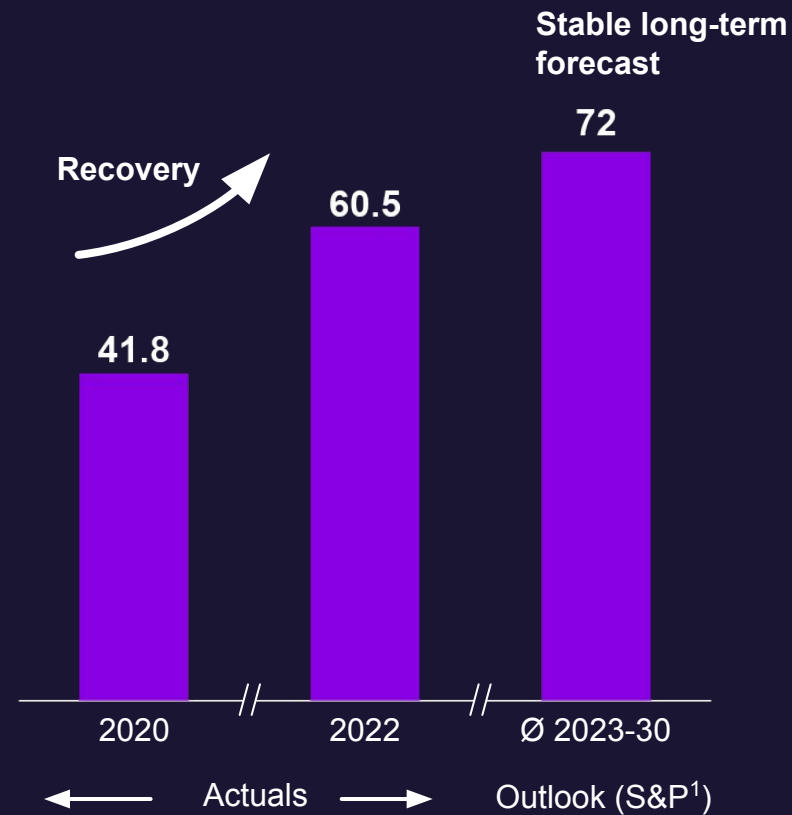
Power generation

in 1,000 TWh



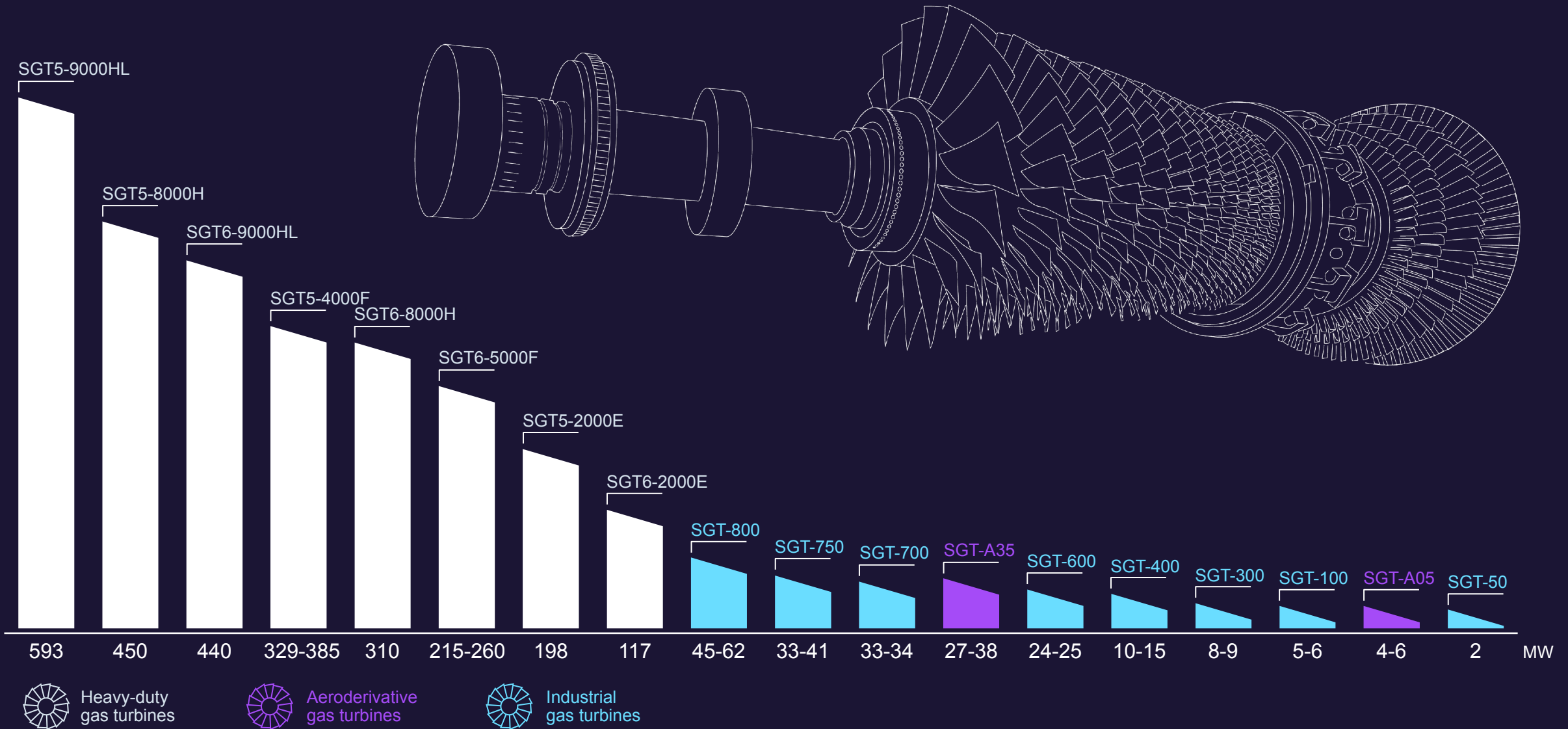
Gas market outlook

in GW additions



- Renewables integration – Peaker
- Coal- / Oil-to-Gas shift
- Manufacturing
- Data Centers
- Population Growth
- Electrification

Siemens Energy's Gas Turbine Portfolio





Gas Turbines can meet diverse market needs

Baseload Power Generation

Peaking Power

Behind-the-Meter Industrial / Data Centers

Combined Heat and Power (CHP)

Providing reliable power generation

Lincoln Generating Station

North Carolina, U.S.

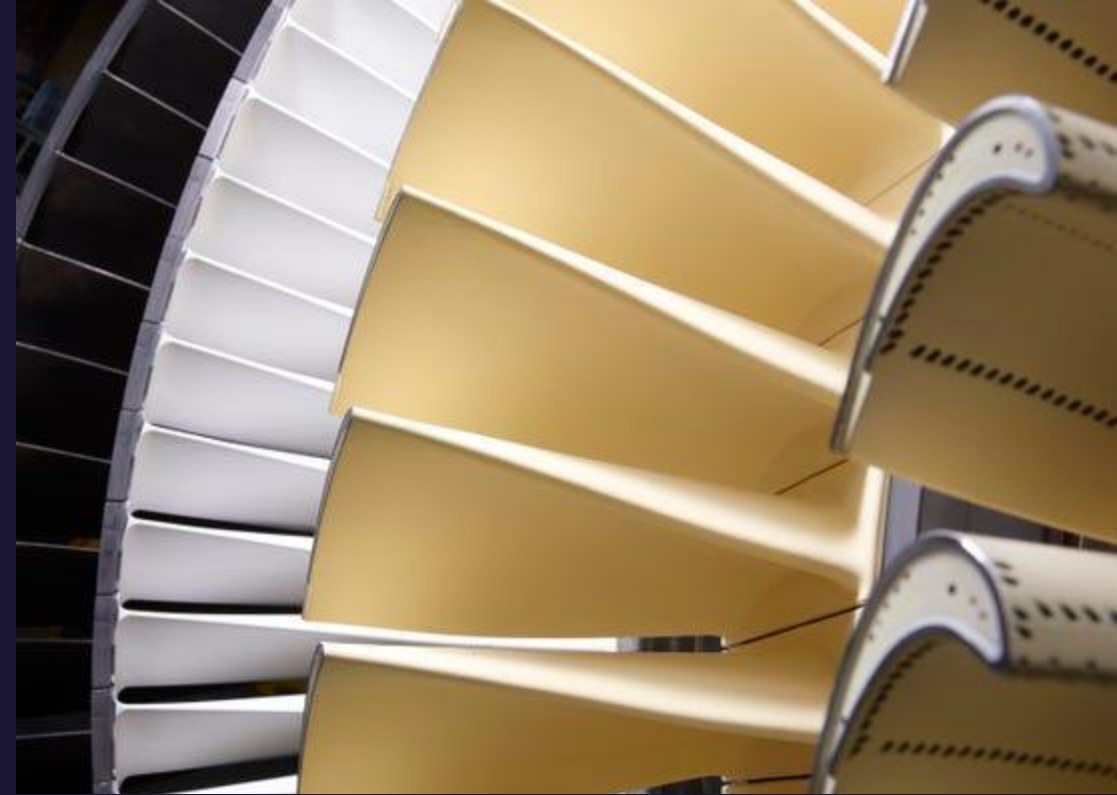
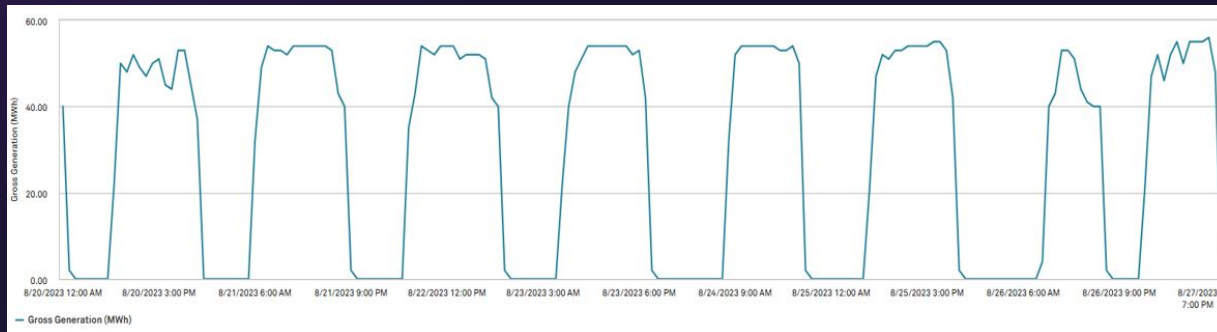
- Ensures a stable supply of electricity during times of high electricity use and when power from solar generation is not available.
- Utilizes Siemens Energy's advanced class SGT6-9000HL gas turbine
- Provides reliable and efficient power



Ramping up when renewables take a break

- Gas turbines fill a critical need to provide reliability to the grid due to the intermittency of renewables and during times of peak demand
- Aeroderivatives and F/J-class units primarily utilized for this purpose
- Gas turbines offer flexibility and a degree of future-proofing

Sample operational profile of a peaking gas turbine



Gas Turbines are an enabler across industry and power generation



Cascade power plant

A 900 MW combined cycle power plant to provide over 8% of Alberta's average electricity demand – with state-of-the-art natural gas turbine technology and service from Siemens Energy.

Project designed to reduce Alberta's carbon footprint from energy production by up to 5%. The project supports the reliability of Alberta's power supply



Holland Energy Park

2 x SGT-800 combined cycle cogeneration facility located in the City of Holland, MI.

Supplies reliable electricity to the grid while also utilizing waste heat. The surplus heat from the circulating system is used in the city center's snowmelt system.



Food and Beverage CHP

A 70 MW facility designed to provide complete behind the meter power generation to a food and beverage facility utilizing 2 x SGT-700 MW units.

The project was designed to replace older and aging steam generating assets while also creating self-generation capabilities. This combined heat and power facility provides both the power and steam required to support this customer's needs and processes.

Thank you!

[siemens-energy.com](https://www.siemens-energy.com)

