We power the world with innovative gas turbines

Siemens Energy gas turbine portfolio
Gas turbines from 2 to 593 MW

The Siemens Energy gas turbine range has been designed and tailored to help meet our customers’ challenges in a dynamic market environment.

Our models range from 2 to 593 MW, fulfilling the requirements of a wide spectrum of applications in terms of efficiency, reliability, flexibility, and environmental compatibility. The products offer low lifecycle costs and an excellent return on investment.
Siemens Energy gas turbines overview

For more information, please click on a product name

**General note:**
All simple cycle and mechanical drive performance data in this document are gross values at ISO ambient conditions.
All combined cycle performance data in this document are gross values at ISO ambient conditions.

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**Heavy-duty gas turbines**

- **SGT-50** [2 MW]
- **SGT-A05** [4 to 6 MW]
- **SGT-100** [5 to 6 MW]
- **SGT-300** [8 to 9 MW]
- **SGT-400** [10 to 11 to 15 MW]

**Industrial gas turbines**

- **SGT-600** [24 / 25 MW]
- **SGT-A35** [31 to 37 / 32 to 39 MW]
- **SGT-700** [33 to 35 / 34 to 36 MW]
- **SGT-750** [40 / 34 to 41 MW]
- **SGT-800** [45 to 62 MW]

**Aeroderivative gas turbines**

- **SGT6-2000E** [117 MW]
- **SGT6-5000F** [215 to 260 MW]
- **SGT6-8000H** [310 MW]
- **SGT6-9000HL** [440 MW]

**60 Hz**

- **SGT5-2000E** [198 MW]
- **SGT5-4000F** [329 to 385 MW]
- **SGT5-8000H** [450 MW]
- **SGT5-9000HL** [593 MW]

**50 Hz**

**Gas turbines in the range of**

- **0 – 15 MW**
- **15 – 100 MW**
- **100 – 600 MW**

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**Introduction**

**Hydrogen overview**

**References**
Siemens Energy HL-class gas turbines are paving the way to the next level of efficiency and performance. The evolutionary development step, derived from proven H-class technology, combines a series of new but already tested technologies like super-efficient internal cooling features for blades and vanes and an advanced combustion system to increase firing temperature.

The result: A technology carrier to the next level with a combined cycle efficiency beyond 64%.

The HL-class consists of two engines: SGT5-9000HL and SGT6-9000HL.

• Derived from proven Siemens Energy H-class technology
• Pushing efficiency and performance to the next level
• Competitive service model with 33,000 Equivalent Base Hours (EBH) / 1,250 Equivalent Starts (ES)

With a combined cycle efficiency of more than 64%, the HL-class gas turbines are paving the way to the next level.
The SGT5-8000H offers outstanding performance and high operational flexibility. The air-cooled turbine provides a power output of 450 MW. With short start-up times and high load variations, the turbine offers low lifecycle costs and helps to meet fluctuating power demands.

The turbine is the core component of highly efficient gas-fired power plants, designed for 675 MW with an efficiency higher than 62% in combined cycle operation.

With more than 2.5 million fired hours, the SGT-8000H series provides mature technology with verified reliability and availability.

- Outstanding performance
- High operational flexibility
- Proven in commercial operations
The **SGT6-8000H** offers outstanding performance and high operational flexibility. The air-cooled turbine provides a power output of **310 MW**. With short start-up times and high load variations, the turbine offers low life-cycle costs and helps to meet fluctuating power demands.

The turbine is the core component of highly efficient gas-fired power plants, designed for 472 MW with an efficiency higher than around 62% in combined cycle operation.

With more than **2.5 million fired hours**, the SGT-8000H series provides mature technology with verified reliability and availability.

- Outstanding performance
- High operational flexibility
- Proven in commercial operations

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**SGT6-8000H**

**Heavy-duty gas turbine**

**Power generation**

- Frequency: 60 Hz
- Gross efficiency: 40.4%
- Exhaust temperature: 645 °C (1,193 °F)

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**Dangjin 3, South Korea**

**SGT6-8000H**

Heavy-duty gas turbine

Power output: 310 MW
The proven SGT5-4000F gas turbine has a robust design with internal cooling air passages for trusted long-term operation and fast start-up capability. The advanced annular combustion chamber with individually replaceable heat shields allows for easy and fast walk-in maintenance. Hydraulic Clearance Optimization (HCO) reduces clearance losses to increase the gas turbine efficiency and minimize degradation at start-up and shut down.

Today, more than 360 turbines have been sold. The installed fleet has accumulated an impressive fleet experience of over 20.5 million equivalent operating hours, and a fleet reliability of more than 99%.

- Proven design, large fleet experience
- Easy maintenance, high availability
- High operational flexibility

The SGT5-4000F is a well-proven 50 Hz gas turbine with an outstanding reliability and availability.

SGT5-4000F
Heavy-duty gas turbine

Power generation

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
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<tr>
<td>Gross efficiency</td>
<td>41.0 – 41.5%</td>
</tr>
<tr>
<td>Exhaust temperature</td>
<td>599 – 619 °C (1,110 – 1,146 °F)</td>
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</tbody>
</table>
The SGT6-5000F gas turbine offers economical power generation with fast start-up for peak, intermediate, or base load duty. It achieves peak values for reliability and continuous operation with highest performance values in its class.

Today, more than 380 turbines have been sold. The installed fleet has accumulated more than 17 million equivalent operating hours, with a fleet reliability of over 99%.

- Highest power output for 60 Hz F-class
- Fast start-up and load changing capabilities
- Low emissions with an NOx emission of \( \leq 9 \text{ ppmvd} \) on gas and \( \leq 25 \text{ ppmvd} \) on oil

The SGT6-5000F offers world-class reliability and best-in-class emission values.

SGT6-5000F
Heavy-duty gas turbine

Power generation

<table>
<thead>
<tr>
<th>Frequency</th>
<th>60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross efficiency</td>
<td>39.5 – 40.0%</td>
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<tr>
<td>Exhaust temperature</td>
<td>592 – 612 °C (1,098 – 1,134 °F)</td>
</tr>
</tbody>
</table>

Power output: 215 – 260 MW
The SGT5-2000E gas turbine is a proven, robust engine for the 50 Hz market which is used in simple cycle or combined cycle processes with or without combined heat and power. It is suitable for all load ranges, including peak load.

The SGT5-2000E offers outstanding fuel flexibility. It can be fired with low caloric gases or gases containing CO₂, H₂S and N₂, as well as with crude oil and other liquid fuels with high viscosity. It provides low NOx emissions, even in the part-load range.

Today, around 400 turbines have been sold, and additionally, more than 270 units under license. Our installed fleet has accumulated over 21 million equivalent operating hours. The SGT-2000E series fleet’s overall best-in-class reliability exceeds 99.5%.

- Best-in-class reliability
- High operational and fuel flexibility
- Easy maintenance

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SGT5-2000E
Heavy-duty gas turbine

Power generation

- Frequency: 50 Hz
- Gross efficiency: 37.6%
- Exhaust temperature: 536 °C (997 °F)

Power output: 198 MW
The SGT6-2000E gas turbine is a proven, robust engine for the 60 Hz market which is used in simple cycle or combined cycle processes with or without combined heat and power supply. It is suitable for all load ranges, including peak load.

The SGT6-2000E offers outstanding fuel flexibility. It can be fired with low calorific gases or gases containing CO₂, H₂S and N₂, as well as with crude oil and other liquid fuels with high viscosity. It provides low NOₓ emissions, even in the part-load range.

Today, more than 100 turbines have been sold, resulting in a fleet experience of over 9 million equivalent operating hours. The SGT-2000E series fleet’s overall best-in-class reliability constantly exceeds 99.5%.

- Best-in-class reliability
- High operational and fuel flexibility
- Easy maintenance

SGT6-2000E
Heavy-duty gas turbine

Power generation

<table>
<thead>
<tr>
<th>Frequency</th>
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<tr>
<td>Gross efficiency</td>
<td>35.4%</td>
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<tr>
<td>Exhaust temperature</td>
<td>532 °C (990 °F)</td>
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Charles D. Lamb Energy Center, Oklahoma, USA

Power generation: 117 MW
The market leading SGT-800 industrial gas turbine offers broad flexibility.

The SGT-800 combines a simple, robust design, for high reliability and easy maintenance, with high efficiency and low emissions.

Sustainable and future proof. Continuously improving green fuel capabilities and moving towards 100% hydrogen capability latest by 2025.

Designed for flexible operation makes it perfectly suited for peaking power and grid support.

Excellent simple cycle efficiency and steam-raising capability make it outstanding in cogeneration and combined cycle installations.

More than 480 units sold and over 12 million operating hours. An excellent choice for both power generation and industrial applications.

- Proven reliability
- Flexible solutions
- Excellent performance

SGT-800 Industrial gas turbine

**Power generation**
- Frequency: 50/60 Hz
- Gross efficiency: 38.4 – 41.1%
- Exhaust temperature: 560 – 596 °C (1,041 – 1,104 °F)
- Exhaust mass flow: 115.1 – 137.7 kg/s

**SCC-800 2x1 combined cycle power plant**
- Gross plant output: 134.5 – 182.0 MW(e)
- Gross plant efficiency: 57.8 – 60.6%

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SGT-800 core engine is available with different ratings

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Amata Nakorn, Chonburi, Thailand
With **maximized uptime, top-class performance**, and a **low environmental footprint**, the **SGT-750** industrial gas turbine is a perfect choice for the oil and gas industry as well as industrial power generation. The modular and flexible engine enables onshore or offshore applications, mechanical drive or heat and power. It combines a robust, reliable design with high efficiency and low emissions.

The SGT-750 offers broad flexibility with **different rating options** due to excellent part load capability. When running on lower load the maintenance intervals will be extended, low emissions can be guaranteed while the efficiency still is kept over 40%.

The SGT-750 has a track record of **successful performance** after years in operation and verified results in various applications. Units are sold for use in both power generation and compressor applications such as pipelines and liquefied natural gas (LNG).

- Maximized uptime
- High efficiency
- Low emissions

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**SGT-750**

**Industrial gas turbine**

**Power generation**

<table>
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<th>Frequency</th>
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</thead>
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<tr>
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<tr>
<td>Exhaust temperature</td>
<td>468 °C (875 °F)</td>
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<tr>
<td>Exhaust mass flow</td>
<td>115.4 kg/s</td>
</tr>
</tbody>
</table>

**Power generation:** 39.8 MW(e)

**Mechanical drive applications**

| Efficiency | 40.4 – 41.6% |
| Exhaust temperature | 439 – 468 °C (821 – 875 °F) |
| Exhaust mass flow | 107.5 – 115.4 kg/s |
Thanks to its wide fuel range capability and design features, the **SGT-700** is a perfect choice for several onshore applications: Industrial power generation, oil and gas power generation, and mechanical drive applications.

It performs well in combined cycle plants, and combined heat and power plants.

The SGT-700 gas turbine is an evolution of the proven SGT-600 and is specifically designed for higher power output. It offers easy on-site or off-site maintenance, and operates with a wide range of gaseous and liquid fuels on Dry Low Emission (DLE).

More than **125 units** have been sold with over **4 million operating hours**. The fleet-leading gas turbine has over 125,000 operating hours.

- Robust, reliable design
- High fuel flexibility
- Low emissions

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**SGT-700**

**Industrial gas turbine**

**Power generation**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross efficiency</td>
<td>37.2 – 38.0%</td>
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<tr>
<td>Exhaust temperature</td>
<td>531 – 533 °C (988 – 991 °F)</td>
</tr>
<tr>
<td>Exhaust mass flow</td>
<td>95.0 – 98.7 kg/s</td>
</tr>
</tbody>
</table>

**Mechanical drive applications**

<table>
<thead>
<tr>
<th>Efficiency</th>
<th>38.2 – 39.0%</th>
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</thead>
<tbody>
<tr>
<td>Exhaust temperature</td>
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<tr>
<td>Exhaust mass flow</td>
<td>95.0 – 98.7 kg/s</td>
</tr>
</tbody>
</table>

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**Three SGT-700 packages for mechanical drive**

**Power generation:** 32.8 – 35.2 MW(e)

**Mechanical drive:** 33.7 – 36.2 MW
High reliability and availability in combination with good fuel flexibility and third-generation DLE makes the SGT-600 a perfect choice for several onshore applications: Industrial power generation, oil and gas power generation, and mechanical drive applications. Within the IPG applications, the turbine performs well in combined heat and power plants, and combined cycle plants.

The industrial gas turbine combines a robust, reliable design with high fuel flexibility, and low emissions.

More than 350 units have been sold with over 11.5 million operating hours. The fleet-leading gas turbine has 160,000 operating hours.

- Robust, reliable design
- High fuel flexibility
- Low emissions

SGT-600
Industrial gas turbine

Power generation
- Frequency: 50/60 Hz
- Gross efficiency: 33.6%
- Exhaust temperature: 543 °C (1,009 °F)
- Exhaust mass flow: 81.3 kg/s

Power generation: 24.5 MW(e)
Mechanical drive: 25.2 MW

Mechanical drive applications
- Efficiency: 34.6%
- Exhaust temperature: 543 °C (1,009 °F)
- Exhaust mass flow: 81.3 kg/s
The **SGT-400** is a twin-shaft gas turbine available in different configurations and power ratings to support power generation and mechanical drive applications from 10 – 15 MW. The twin-shaft arrangement allows for commonality of parts in mixed-duty installations.

The gas turbine offers the highest efficiency in its power class, incorporating the latest aerodynamic and combustion technologies.

With about 20 years of operating experience, the SGT-400 is proven in both offshore and onshore applications. Over 420 units have been sold with more than 7 million hours operating experience. The fleet leader has accumulated more than 120,000 operating hours.

- Latest aerodynamic and combustion technology
- Suitable for all climates, onshore and offshore
- High power-to-weight ratio

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**SGT-400**

*Industrial gas turbine*

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 34.8 – 35.6%
- Exhaust temperature: 510 – 555 °C (950 – 1,031 °F)
- Exhaust mass flow: 34.2 – 44.5 kg/s

**Mechanical drive applications**

- Efficiency: 36.4 – 37.1%
- Exhaust temperature: 510 – 543 °C (910 – 1,009 °F)
- Exhaust mass flow: 34.3 kg/s – 44.5 kg/s

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**Power generation:** 10.5 – 14.3 MW(e)

**Mechanical drive:** 10.9 – 14.9 MW

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**Technical data sheet**

The SGT-400 is available as a factory-assembled package.
The SGT-300 industrial gas turbine has a rugged industrial design that enables **high efficiency, reliability, and excellent emissions performance** in a broad spectrum of applications for both power generation and mechanical drive.

The gas turbine is a **proven** unit for all electrical power generation and cogeneration applications. It operates on a wide range of gaseous and liquid fuels. The compact arrangement, on-site or off-site maintainability, and inherent reliability of the SGT-300 make it an ideal gas turbine for the demanding oil and gas industry.

Over **175 units** have been sold, with more than **7.5 million equivalent operating hours**.

- Low maintenance requirements
- Low emissions
- Single-shaft version for power generation, twin-shaft version for mechanical drive applications

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**SGT-300 Industrial gas turbine**

**Power generation**

- Frequency: 50/60 Hz
- Gross efficiency: 30.8%
- Exhaust temperature: 543 °C (993 °F)
- Exhaust mass flow: 30.2 kg/s

**Mechanical drive applications**

- Efficiency: 35.3 – 36.0%
- Exhaust temperature: 490 – 504 °C (914 – 939 °F)
- Exhaust mass flow: 29.5 – 30.4 kg/s

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The SGT-300 twin-shaft version is used for mechanical drive.

Robust, reliable, maintainable single-shaft version for power generation applications
The **SGT-100** industrial gas turbine is a proven unit for all electrical power generation and mechanical drive applications. The compact arrangement, on-site or off-site maintainability, and inherent reliability makes it an ideal gas turbine for the demanding oil and gas industry.

The gas turbine has a rugged industrial design that enables **high efficiency** and **excellent emissions performance** on a wide range of gaseous and liquid fuels.

More than 420 units have been sold with more than 29.5 million operating hours. The lead package has over **180,000 equivalent hours of operation**.

- Robust and reliable product
- Wide range of gaseous and liquid fuels
- Single-shaft version for power generation or twin-shaft version for mechanical drive applications

**Technical data sheet**

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**SGT-100**

**Industrial gas turbine**

**Power generation**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross efficiency</td>
<td>30.1 – 30.2%</td>
</tr>
<tr>
<td>Exhaust temperature</td>
<td>544 – 549 °C (1,011 –1,020 °F)</td>
</tr>
<tr>
<td>Exhaust mass flow</td>
<td>19.5 – 21.0 kg/s</td>
</tr>
</tbody>
</table>

**Mechanical drive applications**

| Efficiency | 33.5% |
| Exhaust temperature | 544 °C (1,011 °F) |
| Exhaust mass flow | 19.5 kg/s |

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The SGT-100 combines advanced technology with robust construction.
The Siemens Energy SGT-50 gas turbines is an industrial gas turbine with a power output range of 2MW. The turbine combines minimal maintenance in a compact footprint that make it ideal for continuous power generation onshore and offshore, emergency and standby power and combined heat and power (CHP) plants. Because of it’s simple, **low maintenance design,** **high reliability and operational experience,** the SGT-50 turbine generator packages are the preferred solution for 2MW power requirements. The wide fuel range enables operation on extremely low heating value fuels, landfill gas, associated gas from crude oil production, and liquid fuels including some crude oils. They are also available in an externally fired configuration for those customers with off-combustor technologies. Over 1,000 units have been sold with more than 25 million hours operating experience. The fleet leader has accumulated **more than 250,000 operating hours.**

- Robust and reliable
- Low emissions
- Suitable for all climates – onshore and offshore
- Available in a mobile configuration

**SGT-50**
**Industrial gas turbine**

**Power generation**
- Frequency: 50/60 Hz
- Gross efficiency: 26%
- Exhaust Temperature: 600 °C (1,112 °F)
- Exhaust mass flow: 9.5 kg/s (20.9 lb/s)

**Power generation: 2 MW(e)**
With class-leading reliability and availability, the SGT-A35 is a proven, dependable choice in power generation and mechanical drive applications. It is qualified to meet the stringent standards of the oil and gas industry in both onshore and offshore service.

The aeroderivative gas generator is highly tolerant of transient excursions and challenging mission cycles, and can be easily exchanged at site, reducing maintenance downtime and cost. Both conventional and DLE combustion systems are available, including dual fuel capability.

Evolved through decades of technological advancements, the SGT-A35 has accumulated over 46 million operating hours, with over 850 units sold.

- Proven track record in the oil and gas industry
- Several variants to meet different power needs
- Lightweight, compact, modular package design to maximize power density

The SGT-A35 is a two-spool gas generator aerodynamically coupled to a free power turbine.

### SGT-A35
#### Aeroderivative gas turbine

**Power generation**
- Frequency: 50/60 Hz
- Gross efficiency: Up to 40.4%
- Exhaust temperature: 485 – 504 °C (905 – 939 °F)
- Exhaust mass flow: 97.7 – 111.0 kg/s

**Mechanical drive applications**
- Efficiency: Up to 41.9%
- Exhaust mass flow: 97.7 – 109.7 kg/s

Power generation: 31.3 – 37.3 MW(e)
Mechanical drive: 32.2 – 38.5 MW

Two SGT-A35 offshore generating sets installed on a Floating Production, Storage and Offloading (FPSO) vessel.

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Two SGT-A35 offshore generating sets installed on a Floating Production, Storage and Offloading (FPSO) vessel.
Based on proven aeroderivative design, the SGT-A05 gas turbines are flexible, compact and lightweight designs that are ideally suited for decentralized power generation offering high efficiency and fast start-up capabilities.

The gas turbine engine is designed to operate on a wide variety of fuels. The fuel system operations include dual fuel, steam, and water injection. DLE technology is also available.

More than 1,720 SGT-A05 gas turbines have been sold for industrial use to more than 500 customers in 55 countries, accumulating an impressive 133 million operating hours since its introduction in 1963.

- More than 1,720 gas turbines supplied
- Full engine power within 60 seconds
- High electrical and cycle efficiency

The SGT-A05 has black start and hot start capability. Full engine power available within 60-90 seconds in all conditions, pending local and package requirements.

### SGT-A05 Aeroderivative gas turbine

#### Power generation

- **Frequency**: 50/60 Hz
- **Gross efficiency**: 29.7 – 33.1%
- **Exhaust temperature**: 495 – 560 °C (923 – 1,040 °F)
- **Exhaust mass flow**: 15.4 – 21.4 kg/s

Power generation: 4.0 – 5.8 MW(e)
Siemens Energy gas turbines are ready for the Hydrogen Economy

In a future decarbonized world, gas turbines and combined cycles running on sustainable hydrogen will complement renewable energy with dispatchable, carbon-free backup power supply to provide electrical energy during periods of “dark doldrums” (lack of sun or wind power).

Already today, most of our turbine models can burn a fuel mixture of natural gas and 30-75% (vol.) of hydrogen, and extensive R&D programs are in place targeting 100% capability between 2023 and 2030.

H₂ readiness configurations are available to optimize front end installation costs while minimizing costs and disruption of a later retrofit to hydrogen combustion.

Using hydrogen as fuel, gas turbines and combined cycles will become the prime provider of flexible and dispatchable residual load in a fully decarbonized power scenario while eliminating the risk of stranded assets.

CO₂-free hydrogen production plant from Siemens Energy in Wunsiedel, Germany

Calculate your carbon dioxide (CO₂) reduction and cost-savings potential by running your aeroderivative, industrial, and heavy-duty gas turbines fully or partially on hydrogen with our Hydrogen Decarbonization Calculator.
Siemens gas turbines are operating in more than 100 countries. We provide proven technology with over 7,000 installed heavy-duty, industrial and aeroderivative gas turbines.
Siemens gas turbines are operating in more than 60 countries. We provide proven technology with over 7,000 installed heavy-duty, industrial and aeroderivative gas turbines.

References: Industrial and Aeroderivative gas turbines
### Performance data overview: Power generation

<table>
<thead>
<tr>
<th>POWER GENERATION (METRIC UNITS)</th>
<th>POWER GENERATION (IMPERIAL UNITS)</th>
<th>MECHANICAL DRIVE (METRIC UNITS)</th>
<th>MECHANICAL DRIVE (IMPERIAL UNITS)</th>
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<tbody>
<tr>
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<td><strong>Frequency</strong></td>
<td><strong>Gross efficiency</strong></td>
<td><strong>Heat rate</strong></td>
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<td>30.8%</td>
</tr>
<tr>
<td>SGT-100 (5.4 MW)</td>
<td>5.4 MW(e)</td>
<td>50/60 Hz</td>
<td>30.2%</td>
</tr>
<tr>
<td>SGT-100 (5.1 MW)</td>
<td>5.1 MW(e)</td>
<td>50/60 Hz</td>
<td>30.1%</td>
</tr>
<tr>
<td>SGT-50 (2 MW)</td>
<td>2.4 MW(e)</td>
<td>50/60 Hz</td>
<td>26.0%</td>
</tr>
<tr>
<td>SGT-A35 (GT61 39 MW)</td>
<td>37.2 MW(e)</td>
<td>50/60 Hz</td>
<td>40.4%</td>
</tr>
<tr>
<td>SGT-A35 (GT61 34 MW)</td>
<td>33.5 MW(e)</td>
<td>50/60 Hz</td>
<td>39.3%</td>
</tr>
<tr>
<td>SGT-A35 (GT61 34 MW) 60 Hz</td>
<td>33.9 MW(e)</td>
<td>60 Hz</td>
<td>38.0%</td>
</tr>
<tr>
<td>SGT-A35 (GT61 34 MW) DLE 60 Hz</td>
<td>31.7 MW(e)</td>
<td>60 Hz</td>
<td>37.8%</td>
</tr>
<tr>
<td>SGT-A35 (GT61 34 MW) DLE</td>
<td>33.4 MW(e)</td>
<td>50/60 Hz</td>
<td>39.4%</td>
</tr>
<tr>
<td>SGT-A35 (GT62 DLE)</td>
<td>31.3 MW(e)</td>
<td>50/60 Hz</td>
<td>38.3%</td>
</tr>
<tr>
<td>SGT-A05 (KB7HE)</td>
<td>5.8 MW(e)</td>
<td>50/60 Hz</td>
<td>33.1%</td>
</tr>
<tr>
<td>SGT-A05 (KB7S)</td>
<td>5.4 MW(e)</td>
<td>50/60 Hz</td>
<td>32.3%</td>
</tr>
<tr>
<td>SGT-A05 (KB8S)</td>
<td>4.0 MW(e)</td>
<td>50/60 Hz</td>
<td>29.7%</td>
</tr>
<tr>
<td><strong>Heat rate</strong></td>
<td><strong>Turbine speed</strong></td>
<td><strong>Pressure ratio</strong></td>
<td><strong>Exhaust mass flow</strong></td>
</tr>
<tr>
<td>8,375 kJ/kWh</td>
<td>3,000 rpm</td>
<td>24.0 : 1</td>
<td>1,050 kg/s</td>
</tr>
<tr>
<td>8,333 kJ/kWh</td>
<td>3,600 rpm</td>
<td>24.0 : 1</td>
<td>725 kg/s</td>
</tr>
<tr>
<td>8,780 kJ/kWh</td>
<td>3,000 rpm</td>
<td>21.0 : 1</td>
<td>935 kg/s</td>
</tr>
<tr>
<td>8,920 kJ/kWh</td>
<td>3,600 rpm</td>
<td>21.0 : 1</td>
<td>650 kg/s</td>
</tr>
<tr>
<td>8,780 kJ/kWh</td>
<td>3,000 rpm</td>
<td>20.1 : 1</td>
<td>724 kg/s</td>
</tr>
<tr>
<td>8,675 kJ/kWh</td>
<td>3,000 rpm</td>
<td>21.0 : 1</td>
<td>800 kg/s</td>
</tr>
<tr>
<td>9,000 kJ/kWh</td>
<td>3,600 rpm</td>
<td>19.5 : 1</td>
<td>586 kg/s</td>
</tr>
<tr>
<td>9,110 kJ/kWh</td>
<td>3,600 rpm</td>
<td>17.0 : 1</td>
<td>478 kg/s</td>
</tr>
<tr>
<td>9,863 kJ/kWh</td>
<td>3,000 rpm</td>
<td>12.8 : 1</td>
<td>558 kg/s</td>
</tr>
<tr>
<td>10,169 kJ/kWh</td>
<td>3,600 rpm</td>
<td>12.0 : 1</td>
<td>368 kg/s</td>
</tr>
<tr>
<td>8,759 kJ/kWh</td>
<td>6,600 rpm</td>
<td>21.1 : 1</td>
<td>135.5 kg/s</td>
</tr>
<tr>
<td>8,970 kJ/kWh</td>
<td>6,600 rpm</td>
<td>22.0 : 1</td>
<td>136.6 kg/s</td>
</tr>
<tr>
<td>9,123 kJ/kWh</td>
<td>6,600 rpm</td>
<td>22.0 : 1</td>
<td>137.7 kg/s</td>
</tr>
<tr>
<td>9,147 kJ/kWh</td>
<td>6,600 rpm</td>
<td>19.8 : 1</td>
<td>124.7 kg/s</td>
</tr>
<tr>
<td>9,381 kJ/kWh</td>
<td>6,600 rpm</td>
<td>18.3 : 1</td>
<td>115.1 kg/s</td>
</tr>
<tr>
<td>8,922 kJ/kWh</td>
<td>6,100 rpm</td>
<td>24.3 : 1</td>
<td>115.4 kg/s</td>
</tr>
<tr>
<td>9,466 kJ/kWh</td>
<td>6,500 rpm</td>
<td>18.7 : 1</td>
<td>98.7 kg/s</td>
</tr>
<tr>
<td>9,675 kJ/kWh</td>
<td>6,500 rpm</td>
<td>18.7 : 1</td>
<td>95.0 kg/s</td>
</tr>
<tr>
<td>10,720 kJ/kWh</td>
<td>7,700 rpm</td>
<td>14.0 : 1</td>
<td>81.3 kg/s</td>
</tr>
<tr>
<td>10,103 kJ/kWh</td>
<td>9,500 rpm</td>
<td>18.5 : 1</td>
<td>44.5 kg/s</td>
</tr>
<tr>
<td>10,294 kJ/kWh</td>
<td>9,500 rpm</td>
<td>16.9 : 1</td>
<td>40.0 kg/s</td>
</tr>
<tr>
<td>10,168 kJ/kWh</td>
<td>11,500 rpm</td>
<td>16.4 : 1</td>
<td>34.2 kg/s</td>
</tr>
<tr>
<td>11,704 kJ/kWh</td>
<td>14,045 rpm</td>
<td>13.7 : 1</td>
<td>30.2 kg/s</td>
</tr>
<tr>
<td>11,613 kJ/kWh</td>
<td>17,384 rpm</td>
<td>15.6 : 1</td>
<td>21.0 kg/s</td>
</tr>
<tr>
<td>11,945 kJ/kWh</td>
<td>17,384 rpm</td>
<td>14.0 : 1</td>
<td>19.5 kg/s</td>
</tr>
<tr>
<td>9,154 kJ/kWh</td>
<td>4,850 rpm</td>
<td>23.0 : 1</td>
<td>99.0 kg/s</td>
</tr>
<tr>
<td>9,465 kJ/kWh</td>
<td>3,600 rpm</td>
<td>23.0 : 1</td>
<td>101.0 kg/s</td>
</tr>
<tr>
<td>9,536 kJ/kWh</td>
<td>3,600 rpm</td>
<td>23.0 : 1</td>
<td>98.1 kg/s</td>
</tr>
<tr>
<td>9,040 kJ/kWh</td>
<td>4,850 rpm</td>
<td>23.0 : 1</td>
<td>97.8 kg/s</td>
</tr>
<tr>
<td>9,400 kJ/kWh</td>
<td>4,800 rpm</td>
<td>22.0 : 1</td>
<td>97.7 kg/s</td>
</tr>
<tr>
<td>10,889 kJ/kWh</td>
<td>14,600 rpm</td>
<td>14.4 : 1</td>
<td>21.4 kg/s</td>
</tr>
<tr>
<td>11,146 kJ/kWh</td>
<td>14,600 rpm</td>
<td>14.2 : 1</td>
<td>21.3 kg/s</td>
</tr>
<tr>
<td>12,137 kJ/kWh</td>
<td>14,200 rpm</td>
<td>10.3 : 1</td>
<td>15.4 kg/s</td>
</tr>
</tbody>
</table>
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