

The Siemens logo is displayed in a bold, teal, sans-serif font. It is positioned in the upper left corner of the page, set against a white rectangular background. The background of the entire page is a photograph of a large industrial steam turbine in a factory setting, with yellow overhead cranes and various pipes and machinery visible. The turbine itself is a complex, metallic structure with several large circular openings and a central vertical shaft. It is surrounded by a network of pipes, valves, and electrical conduits. The lighting is bright, highlighting the industrial environment.

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Siemens Steam Turbine SST-600

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Version 3

Siemens SST-600: Highly-versatile

Generator or mechanical drive – the Siemens SST-600 is configured for many possible applications.

The flexible SST-600 packaging fits a broad range of customer needs. It can be designed for optimum back-fitting to an existing process, e.g. when a municipal utility is modernized.

Or, when space is limited, it can be adapted as a compact steam turbine package with a small oil piping system, e.g. as a boiler feedwater pump drive.

It is also well suited where high-efficiency steam turbines are demanded. The Siemens SST-600 is the right answer to meet all of these different needs.

Generator drive in various packages

We deliver a standard steam turbine generator set including the SST-600 (with or without gearbox), a generator, oil system, piping and instrumentation and control system.

The standard package can be extended to include a condenser, condensing plant or pre-heating system.

The SST-600 can also be supplied as a multi-casing variant. Siemens is thus offering a steam turbine for smaller applications up to 200 MW, in which even a smaller volume flow through reheat is exploited in a highly efficient manner.

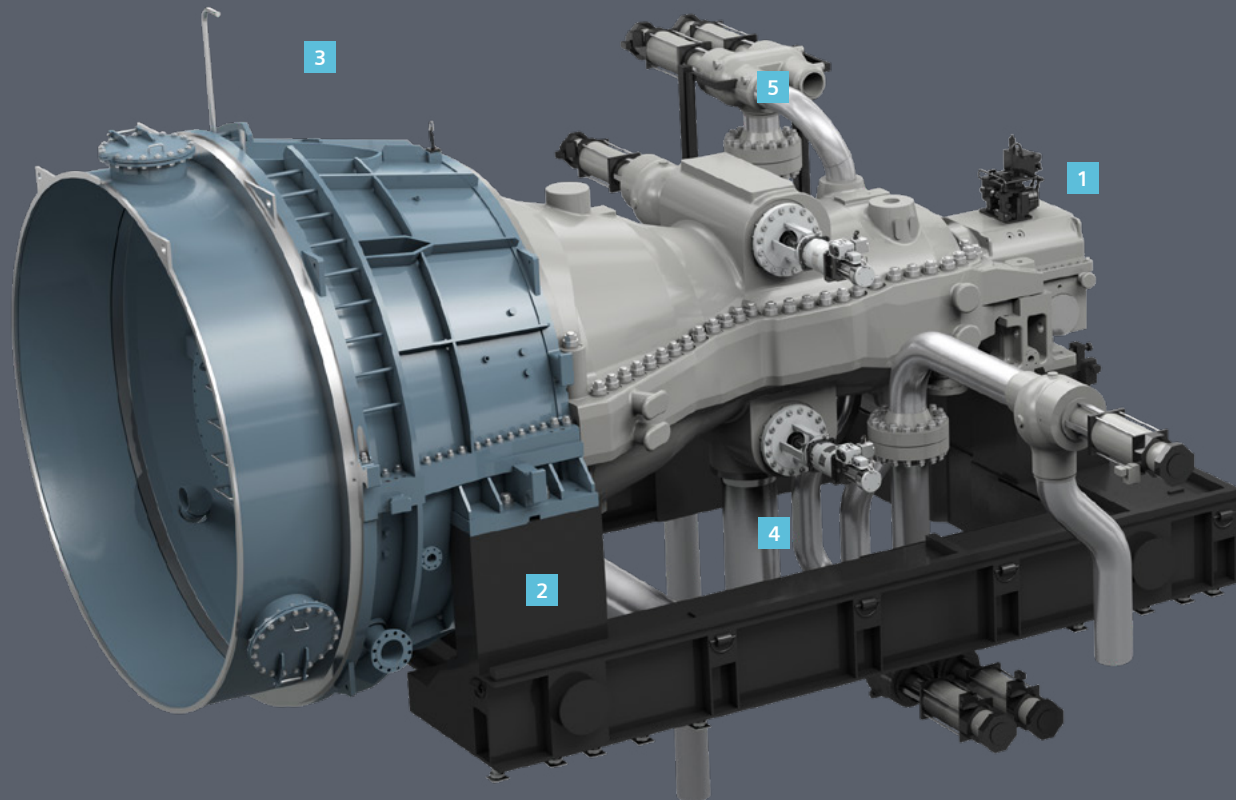
Mechanical drive

The SST-600 is also an efficient and economic mechanical drive. Since the 1970s, hundreds of projects have been successfully implemented all over the world using the SST-600 to directly drive everything from the smallest boiler feed water pump as reliably as the biggest compressor even in the most complex processes. The SST-600 complies with regulations including the API standard.

Siemens SST-600

The SST-600 is a steam turbine designed for operation within a speed range of 3,000 to 18,000 rpm for generators or mechanical drives up to 200 MW. The turbine is used for both condensing and backpressure, either geared or directly coupled. The customized steam path is

arranged according to the customer's needs. The SST-600 with its reliable and flexible design is available with axial or radial exhaust.



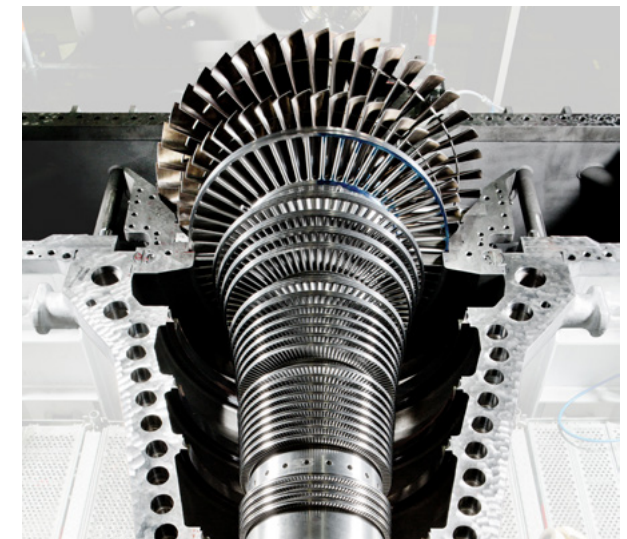
Overview

The SST-600 can be used as:

- Generator drive
- Compressor drive
- Boiler feed water pump drive
- Blower drive

Design enhancements provide:

- Increased efficiency due to lower flow losses
- Reduced start-up times due to faster turbine heat-up
- Fast load changes
- Compact design for simplified transportation
- Simplified maintenance thanks to improved availability, horizontal casing split and independently accessible bearings



Siemens SST-600: Technical overview

Power output:

- up to 200 MW

Speed:

- 3,000 to 18,000 rpm

Controlled extractions (up to 2):

- Pressure, ext. valve ≤ 72 bar / 1,044 psi
- Temperature $\leq 480^{\circ}\text{C}$ / 895°F

Uncontrolled extractions (up to 6):

- Pressure ≤ 85 bar / 1,233 psi

Live steam inlet pressure:

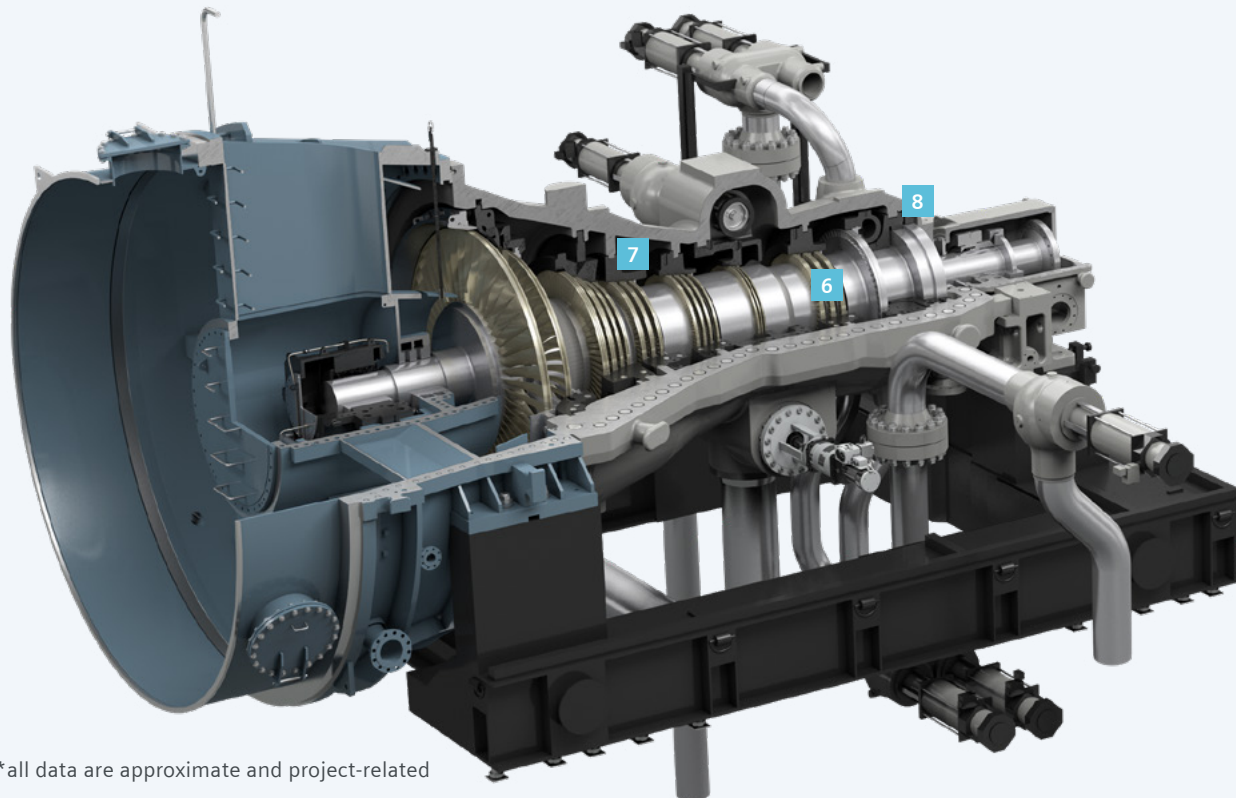
- ≤ 165 bar / $\leq 2,393$ psi

Live steam inlet temperature :

- $\leq 565^{\circ}\text{C}$ / $\leq 1,050^{\circ}\text{F}$

Exhaust conditions:

- Back pressure ≤ 80 bar / 1,160 psi
- Condensing ≤ 1.1 bar / 16 psi
- District heating ≤ 3.0 bar / 43 psi

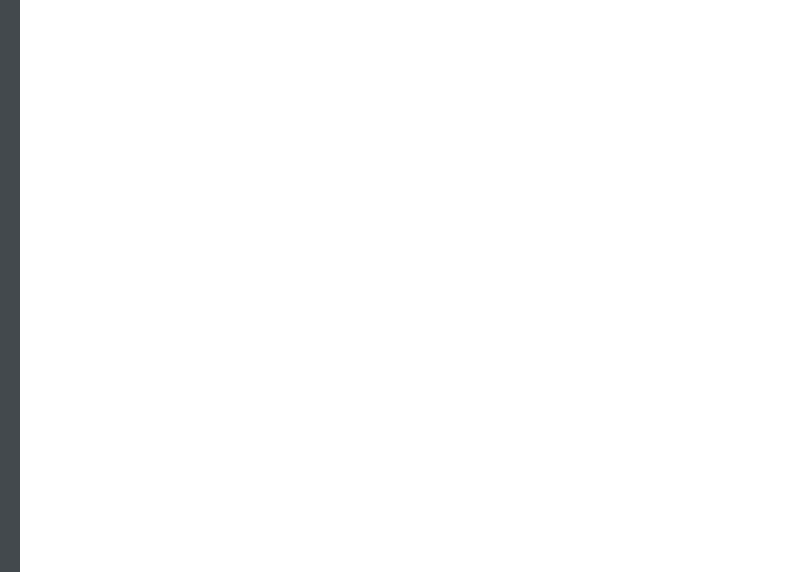
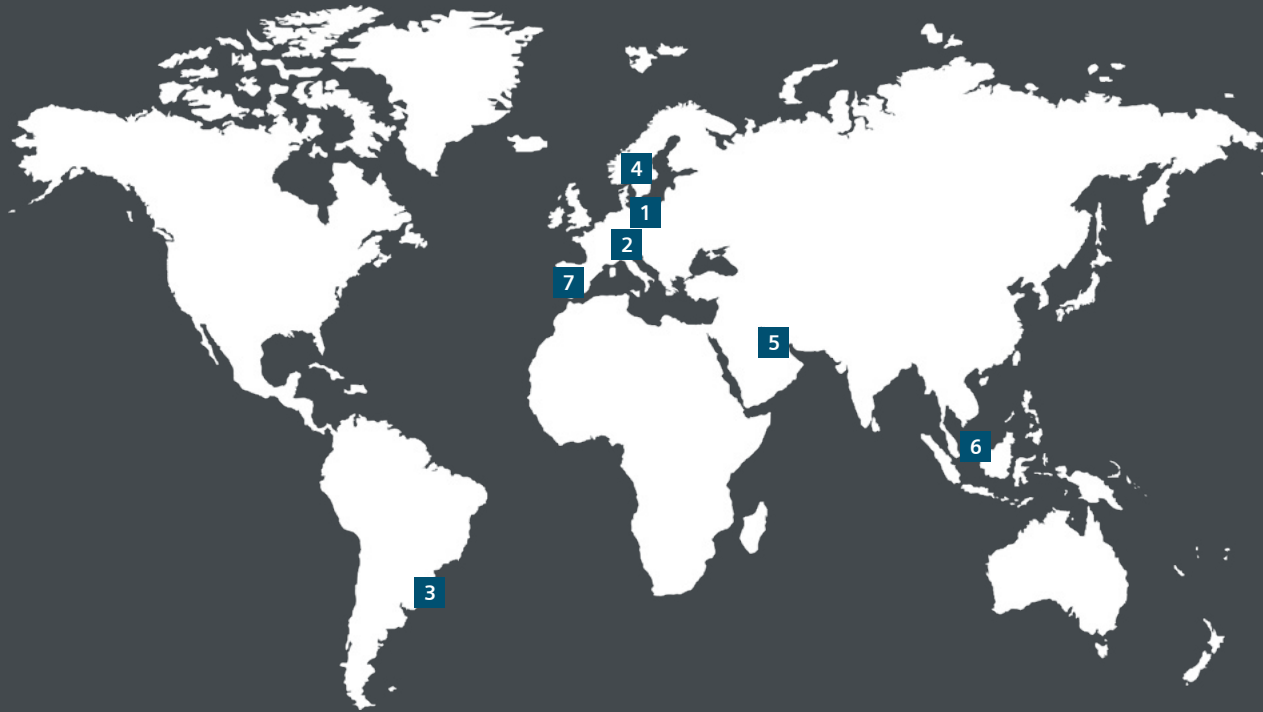


*all data are approximate and project-related

Typical applications for the SST-600



Siemens SST-600: Reference examples



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