

The Siemens logo is displayed in a white box in the top left corner of the image. The background of the entire page is a photograph of a large industrial steam turbine in a factory setting. The turbine is primarily green with a large, dark, circular component on the left. Various pipes, valves, and structural elements are visible around the turbine. In the background, other industrial equipment and the factory's steel framework can be seen.

SIEMENS

Power and Gas

Siemens Steam Turbine SST-300

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www.siemens.com/steamturbines

Siemens SST-300:

Reliable and proven worldwide

The SST-300 is an optimal solution for a wide range of applications due to the implementation of the best technology combined with over 20 years of experience. In the last decade alone, this turbine has been installed in over 500 industrial and power applications by customers all over the world.

The flexible configuration of the SST-300 enables it to be used in diverse applications such as waste-to-energy, chemical processing, pulp and paper etc.

All components and auxiliaries including the lube oil system are mounted on a common base frame. The turbine can be configured with either an upward, downward or axial exhaust orientation depending on the layout of the plant. The turbine can also accommodate multiple extraction / steam induction points as well.

The compact design and simple layout of the turbine significantly reduces cost and time associated with its construction, inspection and maintenance.

Standard modules with customized steam path

The SST-300 is an economical steam turbine which combines standard turbine and auxiliary modules with a customized steam path.

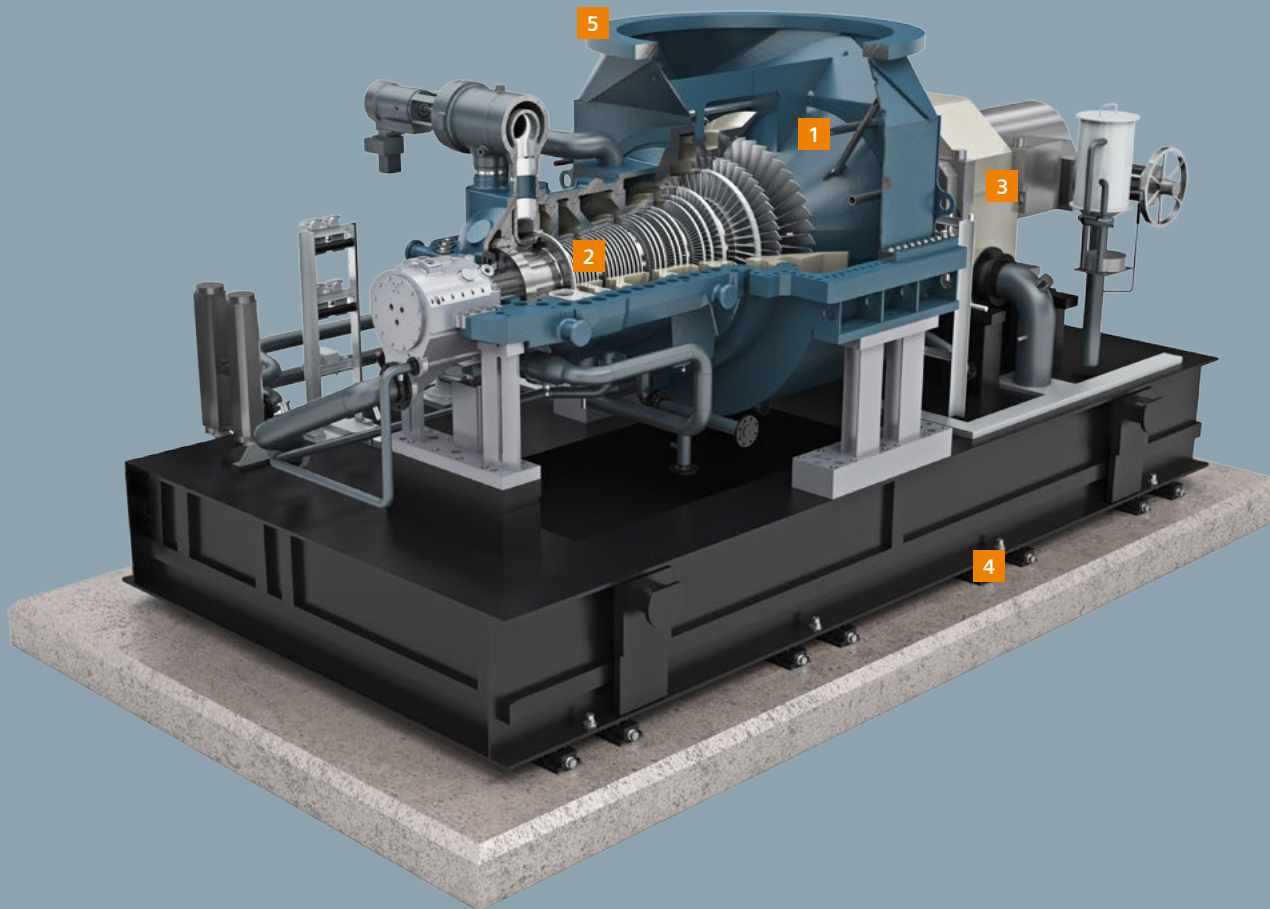
The worldwide operating fleet of the SST-300 has demonstrated a high availability and reliability. The turbine itself can be offered as a skid mounted unit with a separate lube oil tank or with a double extraction.

Service and maintenance

Our proven installation and maintenance concept lowers maintenance costs by enabling easy access to the installed components – the turbine, gearbox, generator and auxiliaries.

Our service solutions are based on many years of experience in taking care of a substantial global fleet.

This experience is incorporated systematically into our design and manufacturing as well as our service and maintenance practice, making Siemens a reliable partner now and in the future.



Example for arrangements:
SST-300 with upward radial exhaust

Option of remote monitoring

As all SST-300 can be provided with remote monitoring, Siemens offers service contracts for condition-based maintenance, customized for the specific operating status of each machine to reduce outage and overhaul costs. Using the remote monitoring technology, customers are able to get fast telephone assistance and secure remote support, online help, advanced troubleshooting and intervention, provided by specialists personnel who are familiar with the plant's design and understand its operation.

Additionally, we offer comprehensive spare-part service, repairs and maintenance solutions designed to increase the reliability and availability of the plant. Our retrofit solutions return turbines to the state of the art even after a normal operating life. Long-term maintenance contracts assure prolonged plant operation at predefined costs.



Siemens SST-300: Technical overview

Power output: up to 50 MW

Speed: up to 12,000 rpm

Uncontrolled extractions (up to 6):

Pressure up to 60 barA / 870 psi

Controlled extraction possible (single or double, adaptive stage, nozzle control, throttle control):

Pressure up to 25 barA / 362 psi

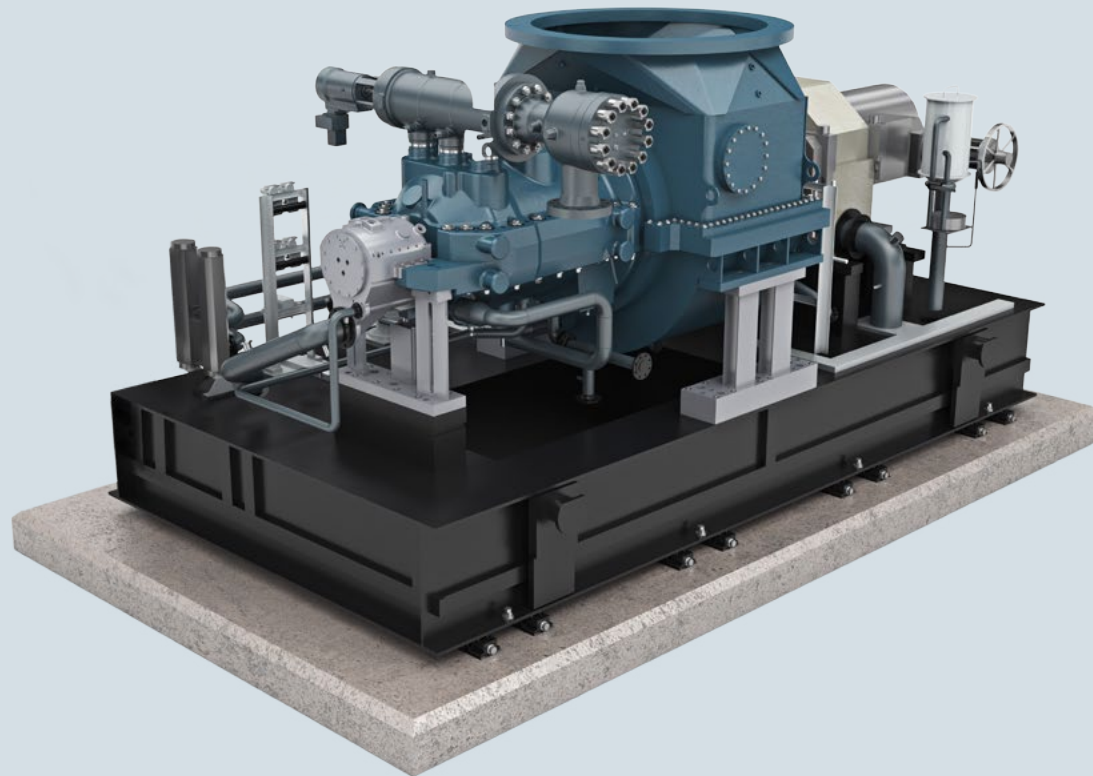
Live steam conditions (nozzle or throttle control):

- Pressure up to 120 barA / 1,740 psi
- Temperature up to 520 °C / 968 °F

Exhaust steam pressure:

- Back pressure up to 16 barA / 232 psi
- District heating up to 3 barA / 43 psi
- Condensing up to 0.25 barA / 3.6 psi

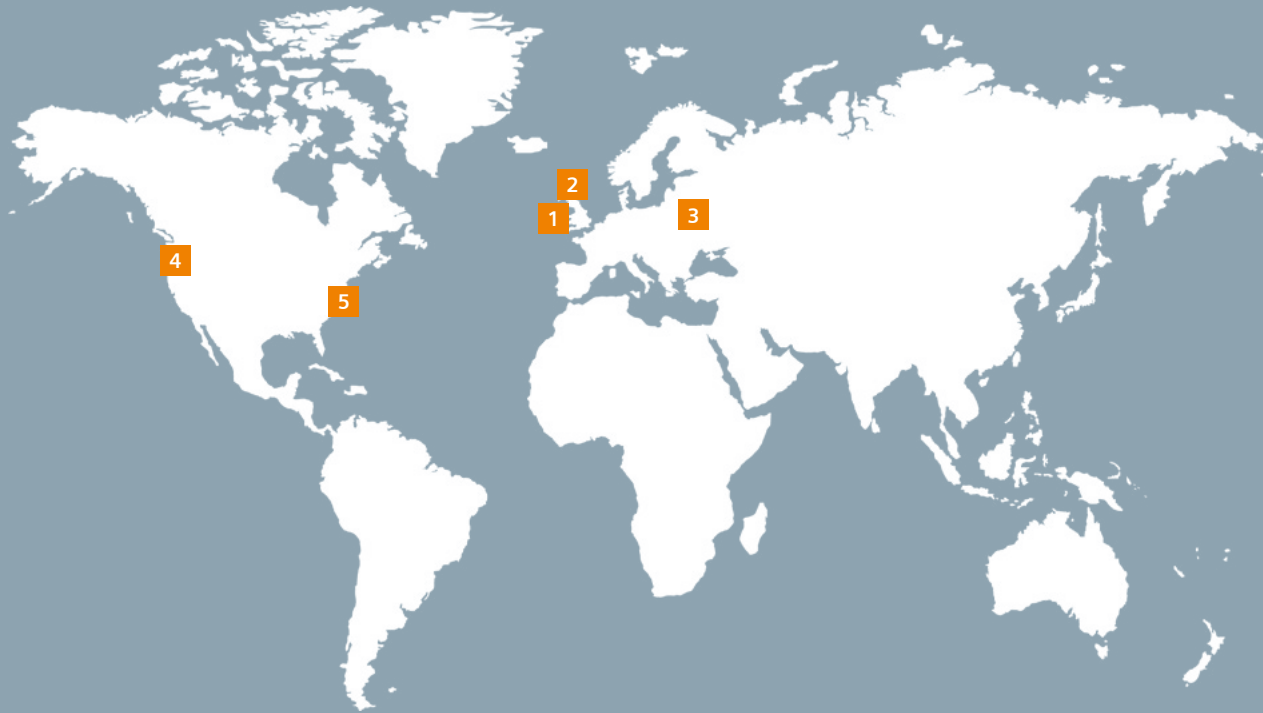
*all data are approximate and project-related



Typical applications for the SST-300



Siemens SST-300: Reference units



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