

A large industrial steam turbine, the SST-200, is shown in a skid-mounted configuration. The turbine is painted in a light blue color and is mounted on a black metal frame. It features a complex arrangement of pipes, valves, and a large cylindrical component. The background is a plain, light-colored wall.

SIEMENS

Ingenuity for life

SST-200

Economic and flexible steam turbine from 4 to 20 MW

[siemens.com/steamturbines](https://www.siemens.com/steamturbines)

The SST-200 is a single casing steam turbine provided in a packaged, skid-mounted configuration. It represents a solution based on long experience with both mechanical and generator drives and is characterized by ease of installation, facilitated by the modular package. The tailor-made, flexible steam turbine exactly fits to the customer needs.

SST-200

Economic and highly reliable

The Siemens SST-200 Siemens industrial steam turbine product line is based on the reaction blade technology.

The turbine series follows a modular product philosophy, ensuring a high level of performance and reliability.

The ability to combine standardized casing modules enable optimal design flexibility. This allows the turbine series to achieve high performance in combination with an optimal cost position.

Each steam path is customized for optimal fit to the specific thermal cycle requirements providing high efficiency over the entire operating range.

The inlet and exhaust sections are configured to cover different plant layout needs, and is available for both condensing and back pressure applications.

With this flexible approach the SST-200 series cover the range of both industrial power generation and mechanical drive applications.

The product design closely follows API 612 requirements.

Typical applications



Sugar



Chemical



Biomass



Mechanical drive



Metals and mining



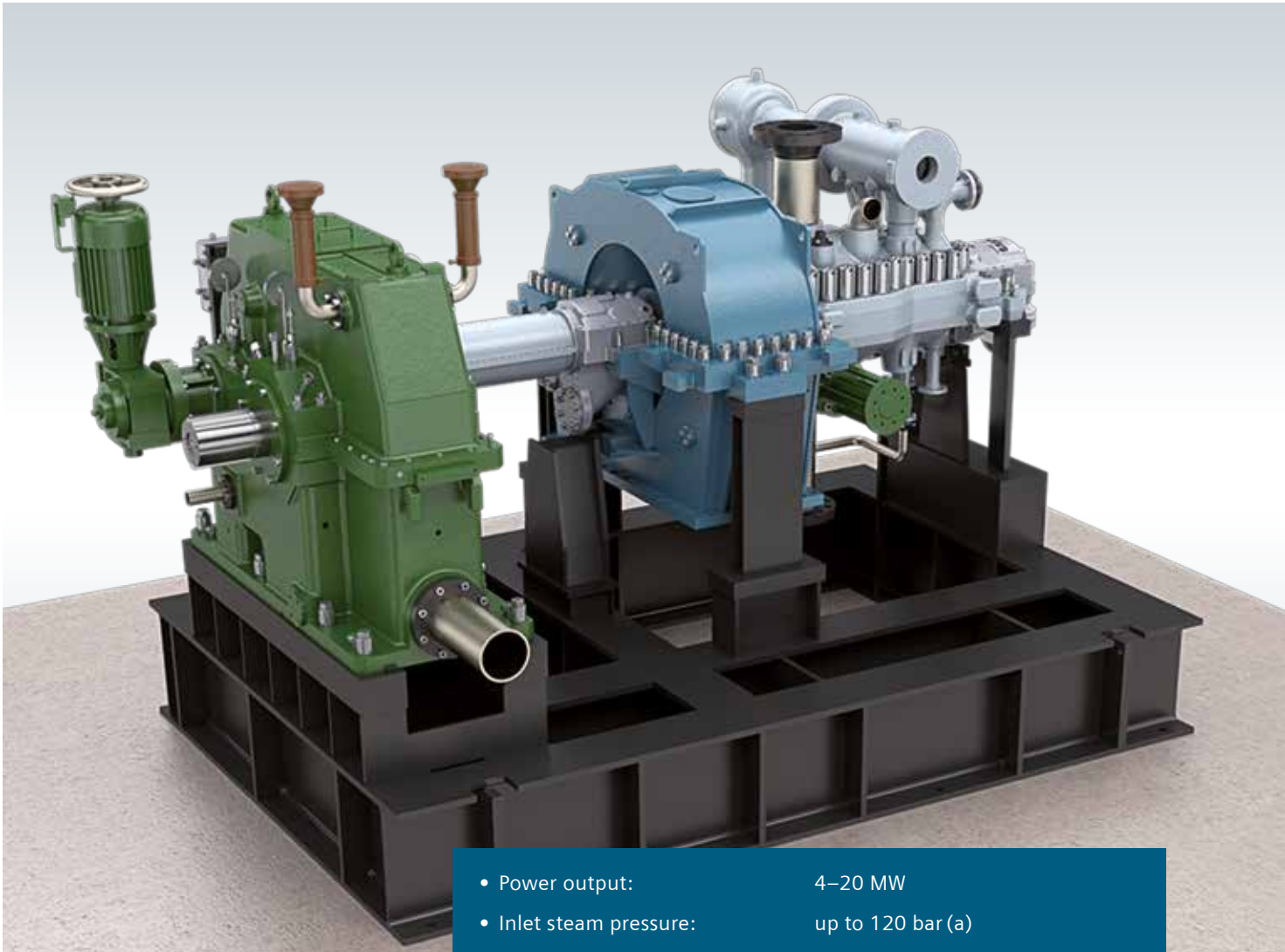
Energy from waste plants



Benefits

- A high degree of standardization and lean specifications reduce the time to take the steam turbine in operation and provide easy maintenance. The combination of these factors lead Siemens to deliver a highly reliable products, with the short delivery times that suit this market segment.
- Implementation of the latest blading technology has led to efficiency improvements of up to 2% compared to previous turbine design
- Optimal total cost ownership due to standardized components, highest efficiency, and optimized maintenance concept

Technical overview



- Power output: 4–20 MW
 - Inlet steam pressure: up to 120 bar (a)
 - Inlet steam temperature: up to 540°C
- Exhaust conditions:
- Water-Cooled Condenser 0.05–0.15 bar (a)
 - Air-Cooled Condenser 0.15–0.50 bar (a)
 - Backpressure Turbines 2–20 bar (a)
 - Uncontrolled extraction up to 3
 - Controlled extraction 1

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