

Small steam powered electric generator

With the micro steam turbine, smaller steam quantities or low pressure differences are sufficient for the first time to generate one's own electricity.

An optimized blade design and the direct coupling of the turbine and generator ensure that the micro steam turbine is not only significantly more compact than conventional steam turbines, it also has significantly higher efficiency, is completely oil-free due to the absence of a gear, and can be easily integrated into existing systems and plants.

Small and medium-sized companies operating steam systems in the lower output range can be found, for example, in the food, pharmaceutical, chemical, and textile industries, as well as among furniture manufacturers and energy suppliers. The new turbine offers them high energy-saving potential. The small steam turbine generates up to 40 percent more electricity with the same fuel input than conventional steam turbines in the output range up to 300 kW. Due to the high efficiency and low life-cycle costs of the turbine, for example, electricity costs can be halved, even in single-shift operation.

The cold and warm start-ups have been completed. Following optimization of the turbine control system and integration of the plant into the control technology for the district heating water degassing system, the handover and further operation by evo is scheduled for summer 2018 after completion of the trial operation and final CE certification.

Duration: May 2017 - decommissioning of the steam turbine

Funding code: 03EFFNW106

As a spin-off of Fraunhofer UMSICHT, TURBONIK GmbH offers the micro steam turbine as a complete package. The development of new applications and technical modifications are possible at any time in cooperation with Fraunhofer UMSICHT.

We also work directly on your company-specific issues. The size of your company is irrelevant: our teams support small companies just as professionally with research and development services as clients from medium-sized companies or large corporations.

Fraunhofer UMSICHT
Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT -
Micro steam turbine generates electricity and saves energy

Online in Internet; URL: <https://>



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Clayton's Steam Master-Class Units are built for small to medium applications, using the latest in-house technology available and even more. When designing the CSM-Class, Clayton engineers had only one goal in mind. Keep the existing advantages of the Clayton technology, make it easy to operate and give customers the possibility to customise according to their needs. The result is an extremely compact unit that requires just one touch on the display to fire it up. All the rest is managed internally. Our engineers did such a good job that the unit can now run for one week in a row without human intervention and can still deliver steam whenever it is needed.

Standard features of the CSM-Class are:

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