ECOsine™ Active
Increased grid quality for water/wastewater treatment facilities

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Clean power for pure water
Central wastewater treatment facilities need to meet stringent requirements in order to operate reliably and in an environmentally compliant manner. The responsible persons have, in particular, to ensure the availability of the plant on a 24/7 schedule.

Municipal sewage treatment plant in a German town
Numerous variable speed drives for pumps and fans generate a harmonic content of the current in the supply that can lead to thermal overload of the electrical infrastructure and to malfunctions of sensitive equipment. In this application example, the power factor correction (PFC) equipment suffered from significant additional losses caused by the harmonics.
**ECOsine™ Active ensures maximum system availability**

The installation of ECOsine™ Active with a compensation current of 300A (FN 5420-300-480-3) brought the required electrical and thermal relief to the PFC. The considerably improved power quality even made possible the installation of a back-up generator in case of a blackout, previously impossible because of the prevailing harmonic content.

ECOsine™ Active's unique capability to adapt to the situation of grid and load at any one time, ideally guaranteed the reliable continuous operation of the wastewater treatment plant.