



COMBINED HEAT AND POWER PROJECT WASTE TO ENERGY Bay View Wastewater Treatment Plant

OWNER
City of Toledo Division of Water Reclamation

LOCATION
Toledo, Ohio

PRODUCT
Taurus™ 60 (5.7 MWe) Gas Turbines

CUSTOMER VALUE
Sustainability

The Bay View Wastewater Treatment Plant in Toledo, Ohio processes over 2.5 million gallons of liquid waste per hour. The wastewater treatment plant produces flammable gas as a byproduct of its solid waste digestion process and is only two miles away from the landfill which produces large quantities of natural methane. The City of Toledo's Division of Water Reclamation (DWR) decided to install an on-site combined heat and power (CHP) generation station to improve reliability, lower electricity costs, and to reduce emissions from city operations.

After careful consideration the DWR selected Solar Turbines to provide a Taurus 60 gas turbine generator set, steam turbine, and a heat recovery steam generator to provide heat to the wastewater facility and nearby buildings, further lowering the overall energy cost of the plant. Solar was also selected to provide operation and maintenance of the plant under a long-term service contract.

The Bay View CHP facility has received three prestigious recognitions - the Environmental Protection Agency's Landfill Methane Outreach Program's 2010 Project of the Year, the Association of Energy Engineers International Innovation in Cogeneration and Renewable Energy, and the Combined Cycle Journal's 2010 Pacesetter Plant Awards.

Solar Turbines Incorporated
Tel: +1 619 544 5352
Mail: infocorp@solarturbines.com Web: www.solarturbines.com

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