

City of Toledo Bayview Waste Water Treatment Facility

Toledo, Ohio

Improvement 53

The City of Toledo kicked off the first of many green initiative projects in 2007 when they proposed improvements to the Bayview Waste Water Treatment Facility. These improvements would generate electricity through the processing of the city's abundance of landfill and digester gases. The power generated from these gases would remove them from the power grid and therefore reduce the city's electric cost up to \$3 million a year.

Project Scope

IPS was the mechanical contractor responsible for labor and material to install and connect a 10MW combined cycle power generator which was provided by the owner. IPS was also responsible for the installation of two Domnick Hunter Systems – one at the landfill station and the other at the co-generation facility that would remove any impurities before using the green gases to generate electricity for the facility. The project involved the installation of a 6MW gas fired turbine, 70 MLBS/HR waste heat boiler, 4MW steam turbine, water cooled condenser, all additional system support equipment such as cooling towers, gas compressor equipment at the landfill and booster gas compressor equipment at the co-generation facility with a gas blending station that would provide the option of blending any combination of the two gases along with natural gas for continuous power to the facility.



Project Duration: 24 Months

Project Cost: \$40 Million

ALTERNATIVE FUELS



IPS