Where: Fairfax County, Virginia, USA

What: 1,000 kW, 1,500 kW and 1,750 kW MTU Onsite Energy generator sets for three different wastewater pump stations

Why: Faster response time from generator sets plus improved reliability and reduced maintenance made it more cost-efficient to install new systems than to upgrade existing units

“Compared to the generators they replaced, the new equipment is more efficient and provides a higher degree of reliability.”

// Dave Ashburn, president, Cynergy Electric Company

FAIRFAX COUNTY UPGRADES WASTEWATER PUMPING STATIONS WITH MTU ONSITE ENERGY STANDBY POWER SYSTEMS

FAST RESPONSE TIME, EASY MAINTENANCE
IMPROVE RELIABILITY AND EFFICIENCY

FAIRFAX COUNTY, Virginia—Fairfax County’s wastewater system serves an area covering more than 230 square miles and can collect and clean more than 160 million gallons of wastewater per day from about 340,000 homes and businesses. The wastewater management system consists of approximately 3,200 miles of pipe, dozens of pumping stations and several treatment facilities. When the 30-year-old emergency standby generators at three wastewater pump stations required upgrading, project officials determined it was more cost-efficient to completely replace the units with standby power systems from MTU Onsite Energy than to make the needed upgrades to the existing generators. The new units bring backup power online much faster, and they are more compact, easier to maintain and easier on the environment than their predecessors.

Analysis recommends new units over upgrade

The Wastewater Collection Division’s Pumping Stations Branch operates and maintains the wastewater pump stations, flow meters, a large-pressure sewer system and several facilities that add chemicals to control odor and corrosion. Unmanned and completely automated, each of the Fairfax County pump stations requires a standby power source that automatically comes online to keep the pumps running and wastewater flowing through the collection system when utility power is lost.

Recently, Cynergy Electric Company Inc., an electrical contractor in Crofton, Maryland, completed a yearlong project for ALPHA Construction Company, Upper Marlboro,
MTU Onsite Energy Corp. (formerly Katolight Corporation) is a leading producer of diesel-powered generator sets from 30 kW to 3,250 kW and natural gas-powered generator sets from 30 kW to 400 kW for standby, prime power and cogeneration applications. The company also provides automatic transfer switches, paralleling switchgear, controls and accessories for complete power system solutions.

MTU Onsite Energy Corp., a Tognum Group company based in Mankato, Minnesota, combines the expertise of Katolight and MTU Detroit Diesel Power Generation to meet the ever-increasing distributed power needs of customers in North America and around the world. MTU Onsite Energy Corp. is part of the Tognum Group’s Onsite Energy and Components business unit. For more information, visit www.mtu-online.com.