



Washington Suburban Sanitary Commission

DEMAND SIDE HIGHLIGHTS

- \$20 million capital improvement project covering five wastewater treatment facilities and headquarters building
- Over \$1.6 million in guaranteed energy and operating cost savings
- More than 10 million kWh in estimated annual electricity savings

SUPPLY SIDE HIGHLIGHTS

- Managing the entire electric supply portfolio for WSSC's 31 sites
- More than 215,000 MWh in total annual sales
- Electric procurement exceeds \$75 million over five year period (estimated)
- 15 year agreement

GREEN ENERGY HIGHLIGHTS

- Wind power providing, on average, 28% of the total electrical needs

CUSTOMER PROFILE

The Washington Suburban Sanitary Commission (WSSC) serves 1.8 million customers in the Maryland suburbs of Washington, D.C. To meet this demand, WSSC operates and maintains two water filtration plants, 15 water pumping stations, seven wastewater treatment plants, and 53 wastewater pumping stations. WSSC is the 8th largest water and wastewater utility in the nation.

PROJECT DESCRIPTION

WSSC has worked with Constellation Energy and its retail energy business for more than 10 years to reduce WSSC's energy and operational costs. With aggressive conservation goals, the project required a forward-thinking approach to energy usage and purchasing as well the incorporation of green energy technology. An energy performance contract that required no upfront capital while guaranteeing savings was the procurement vehicle selected that ultimately allowed WSSC to meet its goals while allowing flexibility to meet future demand.

The \$20 million dollar capital improvement project was executed in two \$10 million phases, each with strict financial goals. For the initial \$10 million phase, Constellation developed a performance contracting plan that called for the project to be self-funded through guaranteed energy and operational savings. Constellation also assisted WSSC in obtaining long-term, low-interest financing through a State of Maryland water quality program. First phase operational savings exceeded the initial project funding payments.



Energy Efficiency



Power





TECHNICAL FEATURES

- Two onsite generators allow the facility to cut expensive capacity costs during times of peak demand
- Variable Frequency Drives (VFDs) installed on pumps and air handlers
- Fine bubble diffusers and dissolved oxygen control
- Major pump station improvements include new pumps, VFDs and control sequences
- Lighting and HVAC improvements

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WIND POWER

As part of a 10-year power purchase agreement, Constellation selected Edison Mission Group to build a 29.4 MW wind plant in Somerset County, Pa. In April 2008, WSSC began receiving 85% of the wind project's power output, representing approximately 60,000 MWh annually—which is providing on average 28% of the overall electrical requirements for WSSC facilities. The arrangement provides long-term price stability and represents one of the nation's largest commitments to wind power—or any other renewable energy—by a local government entity.

DEMAND SIDE

To maximize energy and cost savings as well as achieve operational and maintenance savings, Constellation identified, designed, and installed numerous energy conservation measures and technological improvements to the WSSC wastewater treatment systems. New pumps were installed in a major pump station to improve reliability and reduce emissions.

WSSC also participates in two of Constellation's Demand Response programs. The PJM Interruptible Load for Reliability program helps WSSC earn economic incentives by reducing its electricity load during periods of system emergencies. In addition, as part of Constellation's Peak Response Program, Constellation manages WSSC's Peak Load Contributions at four of its major facilities.

SUPPLY SIDE

Constellation helped WSSC to stabilize its total energy expenditures by bypassing the retail market and purchasing competitively-priced electricity wholesale. Constellation's expertise in providing competitive electric supply enabled WSSC to take full advantage of the deregulated energy marketplace, by assisting WSSC in managing its annual energy budget and reducing risk.

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