Monroe County Water Authority

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Rochester, Monroe County

Background

Monroe County Water Authority (MCWA), the third largest water provider in New York State, supplies more than 50 million gallons of potable water to homes and businesses in Monroe, Genesee, Ontario, Wayne, and Orleans Counties. The water delivery system is comprised of more than 2,100 miles of water mains and can store up to 150 million gallons. This large storage capacity gives MCWA the flexibility to pump and store water before it is needed which subsequently reduces energy use.

MCWA worked with the New York State Energy Research and Development Authority (NYSERDA) and others to improve its metering ability and to improve its energy management system in the curtailment process. This project participated in NYSERDA's **New York Energy $mart**SM Peak-Load Reduction Program.

Recommendations

RS Environmental Solution, Inc., an independent consultant, conducted a technical assessment at MWCA and identified the following ways to improve curtailment capacity:

- Install real-time meters at each pump location to determine energy usage and verify actual reduction during an energy curtailment.
- Integrate meters with the management system to analyze water reserves and ensure a proper water supply is available even during a curtailment.

Incentives and Results

NYSERDA provided an **$85,000** incentive to implement the recommended measures. With these new capabilities, MCWA can participate in the New York Independent System Operator's (NYISO) Special Cases Resource (SCR) Program. MCWA has committed 8,000 kW of its average monthly demand peak of 13,000 kW to the SCR Program.

The Peak-Load Reduction Program is designed to reduce energy costs and improve electric system reliability by providing incentives that encourage summer-peak electricity demand reduction in New York State.

NYSERDA

For more information about these services, contact NYSERDA toll free 1-866-NYSERDA, locally (518) 862-1090, or e-mail: **info@nyserda.org**

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