

Warwick (RI) Sewer Authority

Warwick Wastewater Treatment Plant is a 5 million gallon-per-day (MGD) designed capacity wastewater treatment plant serving the City of Warwick, RI. The plant is currently installing new equipment and systems to enable the facility to process an average of 7.7 MGD with peak flows during wet weather of more than 12.7 MGD.

Project Summary

Efficient Mechanical Equipment and Systems

- ◆ Installed variable speed drives on the aeration blowers
- ◆ Installed premium efficiency motors

Technical Assistance

- ◆ Full life cycle cost analysis for all measures, including the design air-flow rate of the aeration blowers for energy saving measures.



Strategic Partners

Warwick Sewer Authority

RES Engineering, Inc. (RES) — Technical Assistance
268 Summer Street, Boston, MA 02210

Beta Group, Inc. — Engineers
6 Blackstone Valley Place, Lincoln, RI 02865

Hart Engineering — Electrical Contractor
238 South Main, Assonet, MA 02702

National Grid



Warwick Sewer Authority
125 Arthur West Devine Boulevard
Warwick, RI 02886

Savings Summary

The Need — To optimize energy efficiency in the wastewater treatment plant's upgrade.

The Solution — An integrated approach utilizing technical assistance and custom design resources to reduce energy consumption and costs.

National Grid Design Assistance	\$7,500
National Grid Incentive	\$52,401
Estimated Annual Electric Energy Savings	282,153 kWh
Annual Energy Cost Savings	\$26,855
CO ₂ Lifetime Reduction	2,280 tons
Barrels of Oil	187
Equivalent Vehicle Reduction	285

nationalgrid

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