



The City of Westfield completed improvements to the Water Pollution Control Plant - anticipating a 24% reduction in electricity use and a 6 month payback

In a ceremony in Ware, April 2018, the Baker-Polito Administration, through MassDEP’s Clean Energy Results Program, with support from the Department of Energy Resources and the Massachusetts Clean Energy Center, awarded [\\$4 million in state Gap II grants](#) to Water and Wastewater Facilities for energy efficiencies and renewable power generation in the Commonwealth.

The City of Westfield was awarded a \$39,424 State Gap II grant, which was combined with a \$9,296 Westfield Gas & Electric incentive for energy efficiency to complete the project. Previously, the existing Treatment Plant Influent Pumps were inefficient, with at one pump running 24/7 and a second pump running 50% of the time. This project consisted of the removal and re-installation of our four Fairbanks Morris influent pumps in the operations building basement. The pumps were delivered to and from AW Chesterton Company for refurbishment. The work included priming the volute and impeller with corrosion resistant primer, corrosion resistant coating, and paint with an industrial urethane enamel to reduce friction loss and thus save energy.

This energy conservation measure is estimated to reduce the influent wastewater pumping electricity use by 24% per year.

The City is expected to reduce its electricity usage by 54,684 kilowatt hours (kWh) – resulting in projected cost savings of approximately \$7,820 annually.

Total Project Costs:		\$53,100
Less: Gap II Grant Award:	\$ 39,424	
Westfield G&E Incentive:	<u>\$ 9,296</u>	
Subtotal:		<u>\$48,720</u>
City of Westfield (cost share):		\$4,380
Projected Annual Cost Savings:		\$7,820
Projected Annual Electricity Savings:		54,684 kWh

This project is funded in part through a grant from the Massachusetts Department of Environmental Protection.

Any questions about the project should be directed to Jeffrey Gamelli, Deputy Superintendent, at 413-572-6268 or j.gamelli@cityofwestfield.org



Influent Pump Flows (GPM)			
Pump	Before	After	% Increase
1	3744	4006	7.0
2	3855	4000	3.8
3	3910	4042	3.4
4	2917	4048	38.8
Average	3607	4024	13.2