



The Town of Deerfield completed Aeration System improvements to the South Deerfield Wastewater Treatment Facility. These improvements will make the treatment process more energy efficient. A 30% savings in the amount of electricity used for the aeration system process is anticipated.

In January 2023 it was announced that 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 [\\$8.1 million in State Gap III grants](#) to Water and Wastewater Facilities for energy efficiencies and renewable power generation in the Commonwealth of Massachusetts.

The Town of Deerfield was awarded a \$179,173 State Gap III grant, which was combined with funding from the Town of Deerfield to complete the project as part of the recently completed Phase 1 South Deerfield WWTF (SDWWTF) Upgrades Project. The State’s GAP Funding III Grant Program allowed the Town to implement energy efficiency upgrades to its aeration system, which is the largest energy consumption source at the SDWWTF.

The aeration upgrades included the replacement of the facility’s existing aging and inefficient floating mechanical surface aerator with new lower horsepower energy efficient floating mechanical surface aerators. Two new floating mixers were also installed, to allow for energy efficient operations through us of periods of turning the aerator off (cyclic aeration). With the replacement of the 75 horsepower (HP) aerators with energy efficient 40 HP aerators and 20 HP mixers, the Town is projected to save \$23,727 annually through a reduction of approximately 138,846 kWh/year.

This energy conservation measure is estimated to reduce the aeration process electricity use by 30% per year.

Total Project Costs:	\$595,829.71	Projected Annual Cost Savings:	\$23,727.00
Less: Gap III Grant Award:	\$179,173.00	Projected Annual Electricity Savings:	138,846 kWh
Town of Deerfield (Cost Share):	\$416,656.71		

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 Eric Meals, Chief Wastewater Operator, at 413-665-2651 or WWtpoper1@town.deerfield.ma.us, or Trevor McDaniel, Selectboard, at 413-575-0871 or tmcdaniel@town.deerfield.ma.us



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