

TREATMENT PLANT UPGRADE

STATE PROGRAM: Massachusetts Department of Environmental Protection

ASSISTANCE RECIPIENT: Town of Grafton

ASSISTANCE AMOUNT: \$37.2M



PROJECT DESCRIPTION

In keeping up with new nitrogen and phosphorus effluent limit standards, the town of Grafton implemented a series of treatment plant upgrades to improve nutrient loading for the Blackstone River. Grafton uses both decentralized wastewater treatment as well as a sewer system that is serviced by a secondary treatment facility to service its population of 15,000. Their loan financed 14 projects, which include upgrades to the treatment facility that address nutrient removal, water efficiency, energy efficiency, and green infrastructure. These upgrades included the installation of a 300-kilowatt solar photovoltaic system, a green roof, a new UV system to replace a sodium hypochlorite system, installation of previous walkways, upgrades to aeration tanks, a new grit separator, new daylighting windows, lighting conversion to LEDs, and Energy Star domestic hot water heaters. These improvements will significantly reduce electricity costs and produce a higher effluent quality for Grafton's treatment facility.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf.