



The Town of Millbury Completed Innovative Solar Carport and HVAC Improvements Project Using Grant Funds from the MA Department of Environmental Protection

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 efficiency projects and renewable power generation in the Commonwealth.

The Town of Millbury secured a \$155,385 State Gap II Grant, which was combined with \$16,160 in local funds, to complete the design and construction of a 24.9 kW solar photovoltaic carport to help offset electricity costs associated with a new, upgraded, energy-efficient heat pump system installed at the Sewer Administration building located at 131 Providence Street. The 30-year-old heat pump system that previously heated and cooled the Sewer Administration building was inefficient and did not operate consistently or satisfactorily. The Town hired Weston & Sampson Engineers to design the solar carport and ACE Solar to construct it, and ACE Temperature Control, Inc. and R&M Electrical Contractors Inc. to complete the HVAC improvements. The Town is pleased to report that the project was completed under budget.

By upgrading the Sewer Department's existing heating/cooling system and installing a 24.9 kW solar carport, the Town expects to reduce its annual electricity consumption by 3,165 kilowatt hours (kWh) while, at the same time, producing approximately 32,410 kWh in electricity each year. This will ultimately result in projected cost savings of approximately \$17,500 annually or a whopping \$238,600 over the life of the solar array.

Total Project Costs:	\$161,604
Gap II Grant Award:	\$145,444
Town of Millbury (cost share):	\$16,160
Projected Annual Cost Savings:	\$17,541
Projected Annual Electricity Savings:	3,165 kWh
Annual Energy Produced (estimate):	32,408 kWh



Any questions about this project should be directed to Laurie Connors, Millbury Director of Planning & Development, at 508-865-4754 or lconnors@townofmillbury.net.

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