

## Town of Peterborough, NH

### Wastewater Treatment Plant (WWTP) Solar PV Project

<b>Developer / EPC:</b>	Borrego Solar Systems, Inc.
<b>Planned Commercial Operation:</b>	July 2015
<b>Installation Time Frame:</b>	9 months
<b>Location:</b>	Peterborough, NH: latitude - 42.87°N
<b>Solar Resource (Specific Yield):</b>	1,298 kWh/kWp
<b>Annual AC Production:</b>	1,222,716 kWh/yr

The Town of Peterborough's 942kW solar system is located on nearly five acres of former wastewater lagoons at the site of the town's wastewater treatment plant and is the largest single solar PV installation in the state. Financed through a 20-year Power Purchase Agreement (PPA) with Borrego Solar's subsidiary - Water Street Solar and a \$1.2 million grant from the Public Utilities Commission, the Town was able to implement the project with no up-front costs and will achieve an estimated savings between \$25,000 and \$50,000 per year in energy costs or nearly \$500,000 to \$1 million over the term of the agreement.



Once operational, the solar array will generate and return energy to Eversource through a legislative policy called group net-metering. Approximately 70 percent of the 1.2 million kWh generated annually will offset the usage at the WWTP and the remaining 30 percent will be used to credit generation charges at the townhouse and other town facilities.



Project Details	
<b>System Size</b>	941.840 kW DC / 744 kW AC
<b>Equipment</b>	<i>Modules</i> 3,088 Canadian Solar 305Watt CS6X-305P
	<i>Racking</i> Sunlink - Ballasted Ground Mount System
	<i>Inverters</i> SMA 24kW Three Phase String Inverters - STP-24TL
<b>Tilt</b>	30°
<b>Azimuth</b>	180°
<b>System Monitoring</b>	Also Energy - Power Track