CASE STUDY

TOWN OF STOCKBRIDGE, MA

TECHNOLOGY TYPE

RENEWABLE ENERGY SOLAR PHOTOVOLTAIC

SOLAR PANELS INSTALLED

2,800+

ENERGY PROJECT SIZE

900
kW DC

PV CAPACITY

1.1+
MILLION kWh

ANNUAL ELECTRICITY COST REDUCTION AND NEW TAX REVENUE:

$60,000

AMERESCO

SUMMARY

Ameresco was chosen by the Town of Stockbridge to develop a solar PV project at the closed town landfill under a Power Purchase Agreement (PPA) structure and net metering. The solar array covers approximately 3.5 acres. Construction took place over four months and the solar farm commenced operation in February 2018.

AMERESCO
Green • Clean • Sustainable

SERVICES PROVIDED

Ameresco designed and built a 900 kW DC/668 kW AC solar farm connected directly into the local National Grid electric distribution system. The energy generated by the project will be credited to Town of Stockbridge electrical accounts as net metering credits.

> "This exciting project demonstrates Stockbridge's commitment supporting sustainable renewable energy solutions, reducing greenhouse gas emissions, reducing annual energy costs and effectively utilizing Town-owned land. It's a win-win no matter how you look at it. We're utilizing otherwise unusable land to generate renewable power, all while saving the Town about $60,000 annually in electricity cost reduction and new tax revenue. Over the 20-year life of this solar PV facility, the Town's projected economic benefit is upwards of $1 million."

Steve Shatz
Finance Committee and former Selectman, Town of Stockbridge

CUSTOMER BENEFITS

This project has allowed the Town of Stockbridge to save on energy costs, increase tax revenues and to reduce greenhouse gas emissions. Ameresco has established a publicly accessible, web enabled project dashboard that provides cumulative and near real-time solar generation information. The Town of Stockbridge solar generation portal can be found at: https://solarems.net/kiosks/482. This exciting project demonstrates Stockbridge's commitment to increasing the percentage of power we use from renewable energy, with the added benefit of reducing what the Town pays for electricity.

- Installed over 2,800 solar panels; 320 watts generated from each
- Projected first year generation of over 1.1 million kWh, total projected generation over the 20-year term is approximately 21.8 million kWh
- Approximately $46,000 in annual electricity cost savings and approximately $13,000 annual property tax payment
- Projected 20-year overall savings of over $1 million
- 849 metric tons of CO_2 offset annually, equivalent to 182 passenger vehicles driven for one year or annual electricity usage of 127 homes
- Reduced carbon footprint consistent with the Town's environmental sustainability objectives

For the full story, visit: ameresco.com