



CASE STUDY

TOWN OF BRAINTREE, MA

TECHNOLOGY TYPE

POWER PURCHASE AGREEMENT
RENEWABLE ENERGY
SOLAR PHOTOVOLTAIC SYSTEM

TOTAL NUMBER OF SOLAR PANELS

6,251

LANDFILL SOLAR PV CAPACITY

1.26
MW DC

ROOFTOP SOLAR PV CAPACITY

664
kW DC

ANNUAL ENERGY GENERATED:

2,450,000
kWh

SUMMARY

The Town of Braintree's Electric Light Department (BELD) worked with Ameresco on two solar PV projects to help meet its franchise obligation to provide electricity to 16,000 customers.

SERVICES PROVIDED

Braintree and Ameresco partnered under a 20 year Power Purchase Agreement to design, construct, operate and maintain a solar PV array on the Braintree landfill. Ameresco also designed, built, owns, and operates a rooftop solar array located on Braintree High School (BHS).

- Solar landfill energy project size 1.26 MW DC with 4,142 solar panels
- Solar rooftop energy project size 664 kW DC with 2,109 solar panels



“ The partnership... with Ameresco is a beneficial one that states our commitment to the usage of renewable energy as we move forward. ...Braintree created a Commonwealth Community Compact and as its main commitment to continuous improvement, the Town pledged to adapt to climate change. ”

Joseph C. Sullivan
Mayor, Town of Braintree

CUSTOMER BENEFITS

The solar projects provide BELD with on-peak, non-greenhouse gas producing, electricity generation.

- Solar landfill energy savings 1.65 million kWh annually
- Solar rooftop energy savings 800,000 kWh annually
- Save equivalent of 1,689 metric tons of CO₂ per year
- Reduce need for energy from traditional power plants fueled by fossil fuels
- Enables advantageous use of landfill space
- Provides educational opportunities for Braintree students and teachers

For the full story, visit: www.ameresco.com