



DPUC/PUC Solar Canopy Project

89 Jefferson Boulevard
Warwick, RI

State of Rhode Island – Gina Raimondo, Governor

Department of Administration – Michael DiBiase, Director

Division of Capital Asset Management & Maintenance –

Carole Cornelison, Division Director

Division of Public Utilities & Carriers – Macky McCleary, Administrator

Office of Energy Resources – Carol Grant, Commissioner

Newport Renewables

DPUC/PUC Solar Canopy Project

RFP issued in September 2017

Newport Renewables selected as vendor in October 2017

Construction started June 2018

June 2018



July 2018





July 2018



July 2018

The canopy's steel frame was coated in zinc (galvanized) to increase the structure's longevity by keeping it rust free.



 **NPTRE**[®]
Newport Renewables
RI REG. # 35218

State of Rhode Island
Clark B. Rothblatt, Governor
Department of Administration
Michael D'Amico, Director

RI PVC Solar Canopy Project
DCAMM Project Description

- Construction of 23,000 sq ft Solar Canopy at the Parking Lot of RI DCAMM
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- This new Solar Canopy will provide protection for the existing parking spaces and will be constructed using galvanized steel.

Construction Start Date: June 15, 2018
Construction End Date: August 31, 2018

Construction & Quality
 

July 2018



August 2018



August 2018



DPUC/PUC Solar Canopy Project

150 solar panels were placed on top of the carport at a specific angle for optimum efficiency.

Three inverters were placed on the north-west side of the building.

- ★ The capacity associated with this project is **55.755 kW DC**
- ★ AC Capacity is estimated at **43.2 kW**
- ★ Inverters are SolarEdge, SE14.4KUS (19,400 Watts)
- ★ Solar Panels are LG NeOn2 (370 watts)

DPUC/PUC Solar Canopy Project

- The annual electric consumption at 89 Jefferson Boulevard is 125,040 kWh
- This project is expected to offset **over 40%** of our electric consumption
- The Solar Carport provides shelter for parked vehicles during inclement weather throughout all seasons.





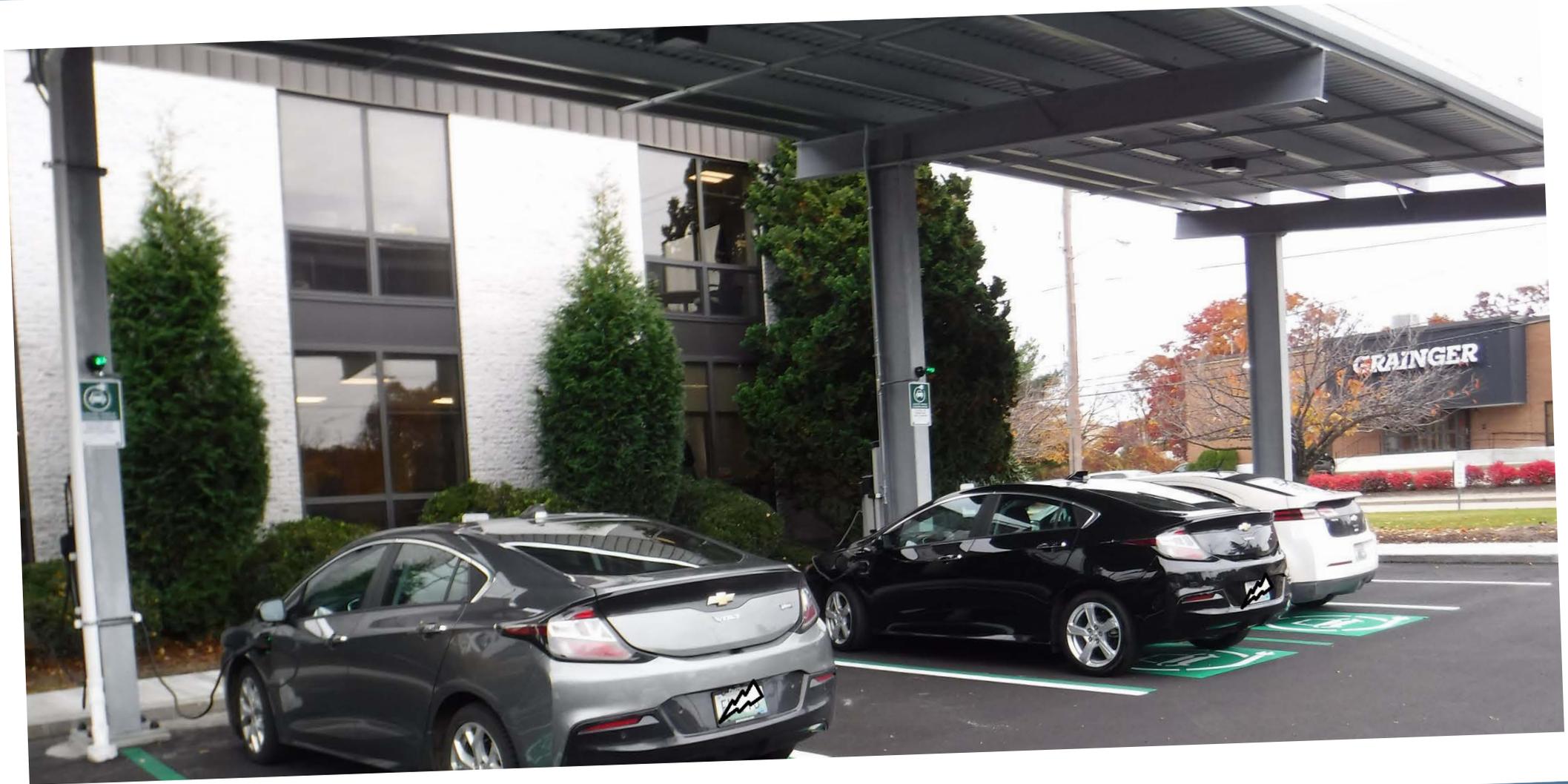
Electric Vehicle Charging Stations

- We currently have 4 dual ChargePoint CT4000 charging stations with ports to charge 8 Electric Vehicles at one time.
- Each station has a color LCD display with an instructional video on how to use the station.
- Multi-language: English, Spanish and French
- Touch button interface works in rain, snow and with gloves.

Electric Vehicle Charging Stations



- Each station has two standard Level 2 charging ports with locking holsters.
- Each port provides 7.2 kW that can charge any Electric Vehicle.
- Each port is equipped with a 23ft charging cord to increase the usability of our charging spots.
- Charging stations are available 24/7.



November 2018



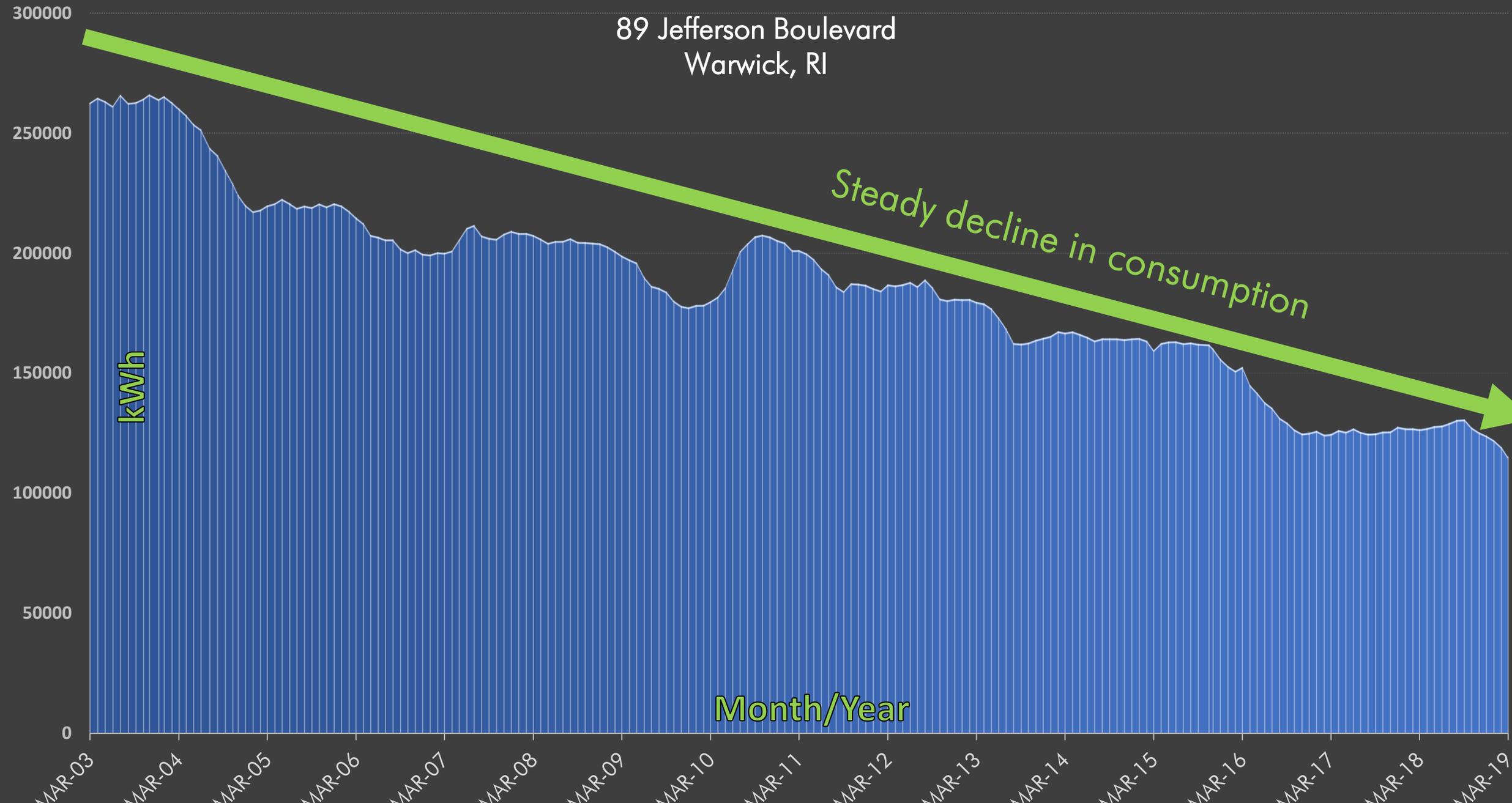
DPUC/PUC LEAD BY EXAMPLE



- **October 2012 – New energy-efficient HVAC System installed**
- **May 2013 – Purchased 2013 Toyota Camry and Toyota Highlander (hybrid vehicles)**
- **December 2015 – Energy-efficient LED lighting**
- **November 2016 – 2 dual Electric Vehicle Charging Stations**
- **December 2016 – Purchased 2016 Chevy Volt (Electric Vehicle)**
- **October 2018 – Installed energy-efficient water heater**
- **November 2018 – Solar Carport and an additional 2 dual Electric Vehicle Charging Stations (Total of 4 dual Electric Vehicle Charging Stations)**
- **January 2019 – Will be adding another 2019 Chevy Bolt to our fleet (Electric Vehicle)**

Decline in energy consumption from March 2003 – March 2019 (projected)

89 Jefferson Boulevard
Warwick, RI



Special Thanks!



Division of Public Utilities & Carriers

Kevin Lynch, Deputy Administrator
Al Contente, Engineer (Project Manager)
Becky Harwood, Information Technology



Office of Energy Resources

George Sfinarolakis – Solar Canopy
Ryan Cote – Electric Vehicle Charging Stations

Division of Capital Asset Management & Maintenance

Simidele Mabray – Solar Canopy
John Couture – Electric Vehicle Charging Stations



Newport Renewables

Stuart Flanagan – Co-Founder
Michael Cabral – Co-Founder

