

# PREMIER DEALERSHIPS SOLAR PORTFOLIO

Rooftop and canopy solar across  
Cape Cod & Plymouth



**Client:** Premier Automotive dealership network

**Location:** Cape Cod & Plymouth, MA

## Project Overview

BD Electrical & Solar delivered commercial rooftop and canopy solar across multiple Premier properties, coordinating solar construction and electrical integration around active dealership operations.

The portfolio includes **BMW, Audi, Audi Car Wash, Volvo Cape, Volvo Plymouth, Jeep rooftop and canopy, and the Auto Salon.**

## BD's Scope of Work

- Rooftop racking and module installation
- DC wiring and commercial inverter installation
- AC distribution and electrical integration
- Jeep canopy solar and associated electrical work
- Interconnection, testing, and commissioning
- Coordination with operating dealerships



Volvo Cape rooftop solar



Jeep rooftop and solar canopy

**One portfolio. Different buildings. Site-specific execution.**

BD brings commercial solar construction and electrical infrastructure together across multiple operating properties.

## The Challenge

Each property brought a different roof layout, electrical system, and operating schedule. HVAC units, vents, skylights, and service clearances shaped the array layouts. Work also had to be coordinated around customer access, employees, and service operations.

## From Rooftops to Canopies

The portfolio extends beyond rooftop arrays. At Jeep, canopy solar adds generation above the parking area and requires its own inverter, distribution, disconnect, and metering infrastructure.

## Jeep Canopy: Design Detail

The project electrical drawing specifies:

- 171.69 kW DC / 150 kW AC
- 354 Qcells 485 W modules
- Three 50 kW Solectria inverters
- 480/277 V distribution with a 400 A AC panel and disconnect

Source: Jeep canopy electrical drawing, revised December 2024.  
Capacities shown are for the canopy design.

## The Result

Premier's portfolio brings on-site solar generation to multiple dealership and automotive facilities. The completed work demonstrates BD's ability to carry solar construction from the array through the electrical infrastructure, with installation planning tailored to each property.

### Planning solar across one facility or an entire portfolio?

Talk with BD about your roofs, parking areas, electrical infrastructure, and project schedule.



Audi Cape Cod rooftop installation



Volvo Plymouth rooftop installation