



Commissioned  
Panels Supplied by  
Inverters & Optimizers Supplied by  
Installed capacity (kW)

October 2014  
Canadian Solar 310w  
Solar Edge  
100 kW DC

## Overview

We proudly present one of the most advanced structures available in the solar industry implementing cutting edge technology to fit your needs. This innovative overhead application of solar is one of clean energy's most versatile designs. It is a modular and customizable solar structure that bridges the world of function and design by flawlessly integrating solar energy into a versatile application.

Using a DUKE ENERGY Grant from the Sun Sense Program, USFSP commissioned a solar canopy to be "floated" above the car ramp on the top floor of the parking garage in downtown St. Petersburg, Florida.

A galvanized custom made steel structure was designed and craned piece by piece to the top floor of the building. Working closely with the car park's original engineers, the heavy steel I beams were raised into place then balanced on the car park parapet walls.

Solar panels were added to the top creating a shade canopy for the students cars, but more importantly, supplying all the power the garage will ever need.

One of the many project challenges was the shade caused by the mandatory light posts and beacons for the neighboring airport. Utilizing an inverter system with optimizers under each panel, power degradation is minimized and boosted during cloudy days, which would otherwise decrease production with normal inverters.

