

INLAND VALLEY DEVELOPMENT AGENCY

San Bernardino, California

Project Overview

In November 2011, Vanir Energy, LLC completed a solar photovoltaic carport system for Inland Valley Development Agency in San Bernardino, CA. The IVDA is a joint powers authority comprised of the County of San Bernardino and the Cities of San Bernardino, Colton and Loma Linda. Formed in 1990, the IVDA is responsible for the redevelopment of the non-aviation portion of the former Norton Air Force Base.

Vanir installed a 196 KW DC solar system using SPI-230W PV modules mounted on SPI Peaq™ carport solar shade structures. By implementing this design, IVDA was able to extend its available footprint for a solar array while adding covered parking for 62 cars. The PV system generates approximately 250,000 kWh annually, offsetting 80-100% of IVDA's expected electric demand. In addition, the solar canopy systems at IVDA include energy efficient LED up-lighting which provides enhanced nighttime security for tenants and visitors of IVDA.

One of the more unique environmental benefits of solar shade structures is a reduction in the urban heat islanding effect associated with metropolitan areas and large open asphalt parking areas. Adding solar shade structures to parking lots helps to mitigate heat buildup while providing an added measure of energy independence through onsite electricity generation. The end result is an economic and environmental win-win solution for IVDA.

This project was a joint development effort between Vanir Energy, LLC and Vanir Construction Management, Inc. Vanir Energy is the system owner and financed the project for IVDA through a 7 year lease. VCM performed as the general contractor utilizing Holland Construction for the carport structure installation and mechanical sub-contracting, and Butterfield Electric for the electrical sub-contracting.

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PROJECT INFORMATION

Client:

Inland Valley Development Agency
San Bernardino, California

Summary:

- System Size - 196 KW DC generating approx. 250,000 kWh annually
- PV Modules - 854 SPI-230W Panels
- Shade Structures - SPI Peaq™ Solar Canopies
- Electrical Contractor - Butterfield Electric
- Mechanical Contractor - Holland Construction

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