

Grid-Tied Commercial System

Cox Solar Power Installation in Avondale, AZ



Solar Elevated Racking Structures Case Studies

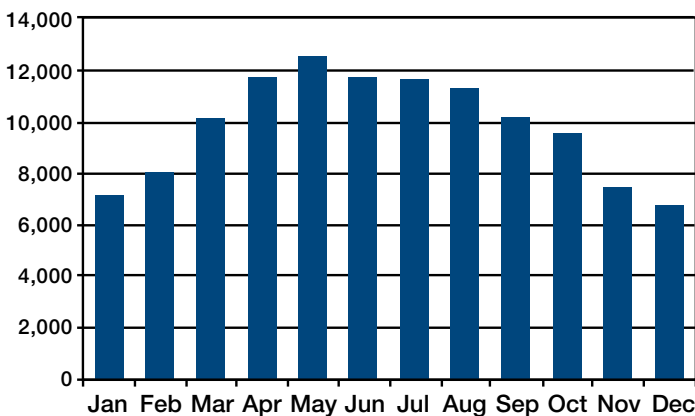


System Specifications	
Number of Systems:	2
Number of Structures:	3
System Power:	Total of 75kW
PV Array:	Total of (276) 175W Modules
Solar Inverters:	(2) 30kW (3) 7kW

This 75kW Elevated Solar PV Grid-Tied structure for Cox Communications is the first commercial solar installation in the city of Avondale, AZ. The system will provide clean and low-cost power for onsite business operations for the next 20 to 25 years.

Comprised of two systems, the Cox Avondale installation required 276 175W photovoltaic panels. Integrating three of Alpha's Elevated Solar Racking Structures, the systems cover 57 parking spaces, offering a dual benefit: protection from the elements and additional space for installation of PV panels. Combined, the systems will generate more than 115,000 kilowatt hours per year, enough to power 11 homes and prevent the emissions of more than 142,000 lbs of CO₂. Construction took less than 3 months, with all permitting and logistics coordinated by Alpha Energy's project management team.

Yearly kWh Production



* These estimates are based on thirty years of solar radiation data collected near Phoenix, AZ by the USA National Renewable Energy Laboratory. They represent long-term production estimates based on the size of the solar array, solar panel tilt and orientation. Actual production may vary, due to factors including, but not limited to, site-specific shading, and solar panel temperature.

With a reputation for offering competitive pricing, innovative engineering and unrivaled system performance, Alpha Energy designed, installed, commissioned and tested the system. The system was engineered to meet our customer's objective of maximum electricity at a minimal cost.



Alpha Energy
www.alpha.com

United States Bellingham, Washington
Phoenix, Arizona

Tel: 360 647 2360 Fax: 360 671 4936
Tel: 602 997 1007 Fax: 623 249 7833

member of The Group™
049-221-10-001 (02/10)