

Grid-Tied Commercial System

Cox Communications Solar Power Installation in Phoenix, AZ



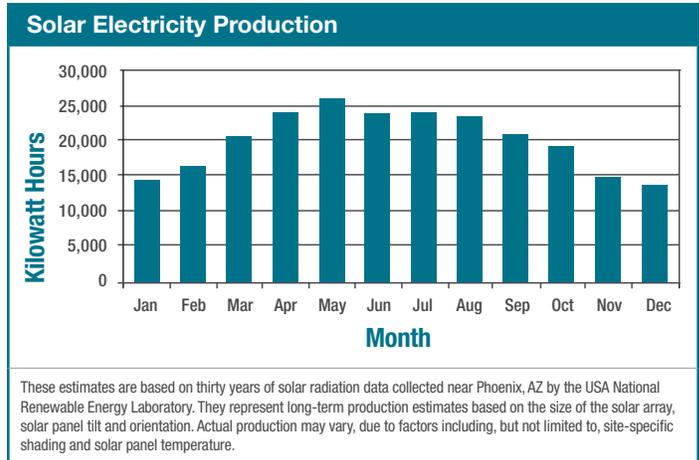
Alpha Energy partnered with regional parking structure installers and RMJ Electrical Contractors to build a series of turn-key solar shade parking structures for Cox Communications headquarters in Phoenix, AZ. The project was designed to cut Cox's power demand and reduce energy expenses.

The 153kW grid-tied solar power system includes 900, 170W photovoltaic panels positioned across six parking structures protecting 75 parking spaces for Cox employees. The system generates more than 240,000kWh per year, which is roughly the amount required to power 17 homes. The resulting CO₂ offset of 289,000lbs. is equivalent to preventing the emissions of 24 cars annually.

The system is combined with a series of parking structures that provide basic parking protection from the elements. These structures also make the solar modules visible from the street to help demonstrate Cox Communications' commitment to renewable energy.

One of the nation's leading developers of turn-key photovoltaic systems for commercial, institutional and remote (off-grid) applications, Alpha Energy is recognized as a market innovator in packaging renewable energy technologies.

System Specifications	
System Power:	153kW
PV Array:	(900) 170W modules
Solar Inverter	135W, 48VAC, 3PH INVTR
Solar Shade Structures:	6
Time Line:	<3 months from ground-breaking to system commissioning



Progression Photos

Cox Communications Solar Power Installation in Phoenix, AZ



Construction complete in less than three months



Alpha coordinated all construction permitting and inspections



Onsite project management



Six new parking structures were installed



Created 75 covered parking spaces for employees and customers



Generates more than 240,000 kilowatt hours per year



Required 900 PV Modules



Installed night time lighting and cameras for increased security



Visible from the street, highlighting a renewable energy commitment