

Example: 60kW Solar Shade Parking Structure in Phoenix, Arizona

Put Your Parking Lot to Work

- **Parking lots cost money**
- **Have to have them**
- **Necessary expense**
- **Unrealized cashflow potential**

Alpha Energy's Photovoltaic Solar Shade Structures are parking canopies with a roof specifically designed to provide low-cost support for a **solar power system**.

Companies who own and operate parking lots for the benefit of their customers and employees can take advantage of Federal, State and Utility **incentive programs** to install shade structures that generate clean, renewable solar electric energy.

In addition to the upfront financial benefits, the solar electric system you install to shade your parking lot will offer your company **fixed price electricity for 20 years** forward. Not only that, your customers, employees and the general public will learn about your company's **commitment to** doing your part for the environment.

➤ Financial Benefits

The 20-year financial analysis of a 60kW system in Phoenix shows how a system cost of \$370K can achieve payback in 5 years (refer to Graph 1)*: 12% Internal Rate of Return (IRR) on the original investment.

The 60kW Solar Shade Parking Structure system will **generate \$1.94 in revenue for every \$1.00 spent** over 20 years (refer to Graph 2). This revenue includes the electricity generated by the solar structures, as well as state and federal incentives, the state depreciation benefit and the many incentives offered by the Arizona Public Service Company.

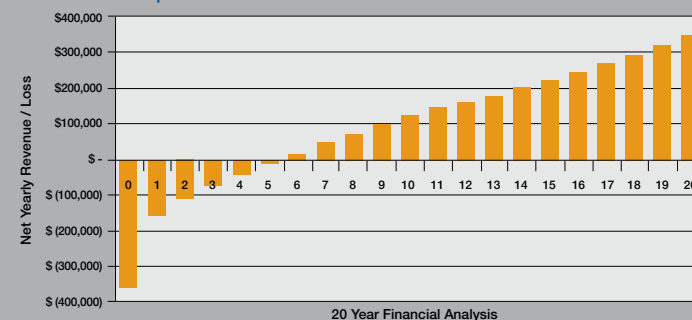
According to Table 1, the first year of income generated from the 60kW Solar Shade Parking Structure system amounts to more than \$247K in saving, which means a repayment of the initial investment at a 66% rate.

Table 1

Income Source	Benefit
Electricity Savings: \$.08 to \$.13 per kWh	\$12,000 Per Year
Arizona Income Tax Credit	\$25,000 Per System
Federal Tax Credit	\$110,000 in Year One
5 Year Depreciation	\$100,000 in Year One
Property / Sales Tax Exemption	

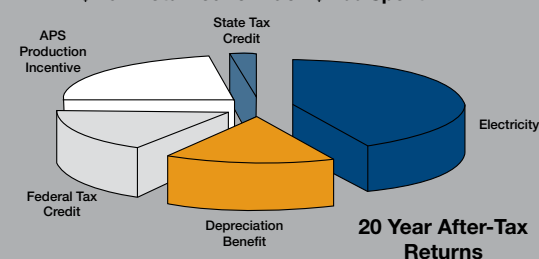
* When appropriate Federal and State Rebates and incentives are applied.

Graph 1



Graph 2

\$1.94 Returned for Each \$1.00 Spent



As shown in Table 2, financial incentives can be obtained over different periods of time from the Arizona Public Service Company (APS), Salt River Project (SRP) and Tucson Electric Power (TEP).

Table 2

Arizona Utility Incentives for a 60kW Solar System	
Arizona Public Service Company	\$135,000 over 10 Years
Salt River Project	\$150,000 over 10 Years
Tucson Electric Power	\$107,000 over 10 Years

➤ Environmental Benefits

The 60kW solar shade parking structures will offset 99 tons of greenhouse gas emissions, equivalent to:

- Carbon emissions from 9,886 gallons of gas
- Carbon emissions from 203 barrels of oil
- Planting and growing 2,233 trees for 10 years

➤ Other Benefits

- Flexibility: Investors in solar shade parking structures can choose the percentage of electricity consumption to offset.
- Control: Monitoring systems enable operators to validate performance expectations through real-time monitoring and gathering of daily and historical performance data.

Solar Shade Parking Structures Feature:



Solar power revenue



Additional space for modules



Protection from the elements



Night time lighting capability


Alpha Energy, a member of **The Alpha Group**, is a full-service renewable energy organization providing system design, project management, installation, technical support and system maintenance for:

- Grid-tied Commercial and Industrial applications
- Off-grid applications
- Solar Shade Parking Structures

To learn more about putting your parking lot to work, call Alpha Energy at 602 997 1007

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