

# COMMERCIAL SOLAR ENERGY GUIDE

## Detailed Information on Solar Photovoltaic (PV) Systems



### IN YOUR BUSINESS

Commercial solar photovoltaic systems range in size depending on a variety of conditions such as roof space, building load, or the amount of energy offset desired. A 4,000 square foot office building might require around 10,000 watts of PV to meet its daily energy needs.

Photovoltaics (PV) are arrays of solar cells that convert light into electricity. Producing electricity with PV emits no pollution, produces no greenhouse gases and uses no finite fossil-fuel resources.

Solar photovoltaic technologies have declined in price since they were first introduced onto the market, driven by improved research and development, and most of all by steady increases in sales volume. Most business owners start small, since PV can be added in modular increments as your energy needs and investment capabilities grow. **It is important to focus on reducing your overall energy use through energy efficiency prior to sizing a solar PV system for your business.**

PV arrays can be mounted at a fixed angle facing south in an unshaded region of the roof or on a tracking device that follows the sun, allowing them to capture the most sunlight over the course of a day. Integrated PV cells are now available in a variety of shapes and sizes including triangular shaped panels as well as small roofing tiles.

<sup>1</sup> Annual savings are examples only.

<sup>2</sup> Availability of federal tax credits should be verified prior to installation of a solar system.

<sup>3</sup> The average 1 kilowatt PV system in Central

Florida produces 1,350 kWh per year. Source: [pvwatts.nrel.gov](http://pvwatts.nrel.gov)

<sup>4</sup> Electric rates are filed with the Florida Public Service Commission and are subject to change.

### COMMERCIAL EXAMPLE WITH GSD RATE <sup>1</sup> Average PV System Cost \$3–\$5/Watt

Initial System Cost (4 KW)	\$20,000
Federal Tax Credit (30%) <sup>2</sup>	– \$ 6,000
	\$14,000
Est. Avg. Annual Solar Production <sup>3</sup>	5,400 KWH
Electric Savings <sup>4</sup>	\$ 0.064/KWH
<b>Annual Savings: 5,400 KWH x \$0.064 = \$345</b>	

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	\$14,000
Est. Avg. Annual Solar Production <sup>3</sup>	5,400 KWH
Electric Savings <sup>4</sup>	\$ 0.103/KWH
<b>Annual Savings: 5,400 KWH x \$0.103 = \$556</b>	



## Follow these Steps for a Successful Solar Installation with OUC:

- 1. Optional:** Contact OUC's Customer Service at **407-423-9018** to request an energy survey. OUC recommends that an energy survey be conducted to ensure that your business is operating efficiently prior to the installation of a solar system.
- 2.** Solicit quotes and select a Solar Contractor to install the solar system. OUC recommends getting at least three quotes.
- 3.** Contractor/Customer submits required paperwork online at **[www.ouc.com/rebates](http://www.ouc.com/rebates)**.  
*\* Proof of purchase of Solar System, OUC Interconnection Application and an electrical one-line diagram.*
- 4.** Contractor pulls required permits from designated jurisdiction, installs solar system and completes final permit inspection.
- 5.** OUC's Solar PV Inspector will contact the customer to schedule an inspection to approve the system and install electric net-meter.



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## OUC Preferred Contractor Network

OUC connects customers needing a solar contractor or other service professionals with the members of our Preferred Contractor Network. The OUC Preferred Contractor Network features contact data for contractors categorized by specialty. Our program includes standards of conduct, a Code of Ethics and a customer feedback mechanism. It doesn't matter if your need is big or small. The service professionals of the OUC Preferred Contractor Network are just a click away. Visit **[www.ouc.com](http://www.ouc.com)** for more information.



## Want to Learn More?

Be sure to visit OUC's Solar Website, **[www.ouc.com/solar](http://www.ouc.com/solar)**, for more information on OUC's Solar Programs and how to participate.

