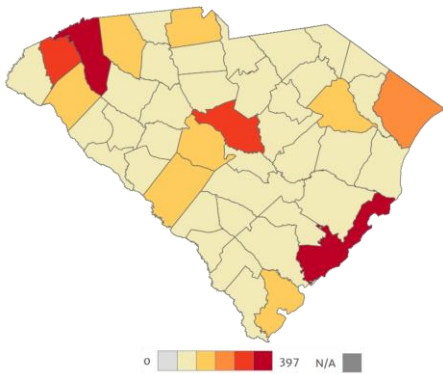


A community's processes and programs can make or break the solar value proposition for its residents and businesses. At a community's request, SolSmart supports officials in building capacity through a suite of voluntary actions that can support market growth. SolSmart empowers communities to become designated at the Bronze, Silver, or Gold level via no-cost technical assistance based on best management practices in areas identified as community priorities. This community profile highlights several important solar-relevant metrics and opportunities for solar market growth.

**SOLAR MARKET**

### SOUTH CAROLINA HAS 2,772 SOLAR WORKERS



### SOLAR JOBS RANKINGS



**Solar Jobs Rank**  
(among the 50 states and DC) **27**

**Solar Jobs Per Capita**  
(among the 50 states and DC) **20**

### SOLAR INDUSTRY



**66**

**SOLAR COMPANIES IN SOUTH CAROLINA**

**14**

**SOLAR COMPANIES IN CHARLESTON**

- In 2016, there were over 260,000 American solar workers, a 25% increase over 2015.
- One out of every 50 new jobs in the United States in 2016 was created in the solar industry.
- Solar jobs increased at least 20% each year for the fourth year in a row.

**MARKET POTENTIAL**

### ECONOMICS OF 200 SYSTEMS



**\$3,093,200**  
ECONOMIC OUTPUT



**31.3**  
TOTAL JOBS

### IMPROVING PROJECT FINANCIALS



**\$7,526**

**MORE SAVINGS**

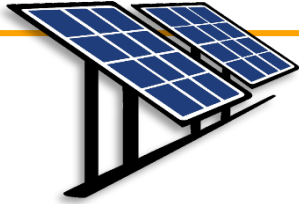


**6.6**  
YEARS

**FASTER PAYBACK**

Creating a solar-friendly environment can contribute to local economic development and job creation for Charleston's residents. The TABLE ABOVE shows the projected economic development and job creation potential generated by about 200 typical residential systems of 5 kW each.

As a part of the Department of Energy SunShot Initiative, SolSmart will help communities make progress toward the SunShot target of \$1.50 per Watt. The TABLE ABOVE shows the projected improvement in savings and payback period for a 5kW project in Charleston, were it to hit the SunShot price target.



**SOLAR CAPACITY**

### TOTAL INSTALLED CAPACITY

**SOUTH CAROLINA 119 MW**

United States 42,373.7 MW

### DISTRIBUTED GENERATION

**SOUTH CAROLINA 45.5%**

United States 39%

- Solar is forecasted to rank 1<sup>st</sup> for capacity additions in 2017, outpacing additions of all other energy technologies.
- There are over 1,347,000 solar energy systems installed in the United States.

### AVOIDED EMISSIONS



**EQUAL TO PLANTING 5.5 FOOTBALL FIELDS OF TREES**

**OR NOT DRIVING**

**194,000 MILES**

Estimated avoided carbon dioxide equivalent, based on a 5 kW PV system over 20 years

### IN-PERSON ASSISTANCE

SolSmart offers the following in-person assistance to help communities reach designation:

- Seminars or Workshops
- Intensive multi-day workshops with local government staff
- Site visits by a SolSmart expert

**WORKSHOPS**



### CHARLESTON'S SMALL BUILDING STOCK

**SUITABLE FOR PV 31,600 BLDGS**

PERCENT OF SMALL BLDGS 83.60%

**PV CAPACITY POTENTIAL 266,600 kW**

ENERGY GENERATION POTENTIAL 357,100 MWh

MEAN HOUSEHOLD USE YR (SC) 14,239 kWh

### CHARLESTON'S SOLAR RESOURCE

**43%**

**MORE SUN THAN BERLIN, GERMANY, A WORLD LEADER IN SOLAR**

**69%**

**AS MUCH SUN AS YUMA, ARIZONA, SUNNIEST CITY IN THE USA**

**SOLAR CONTEXT**

VISIT SOLSMART.ORG OR CALL 202-866-0915 FOR INFORMATION.