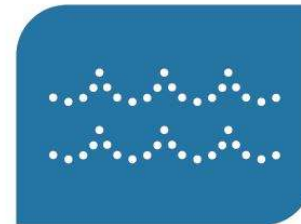
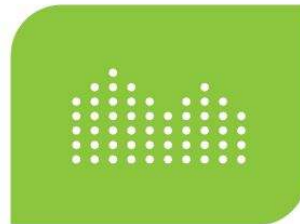
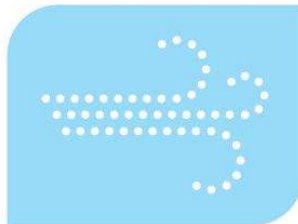


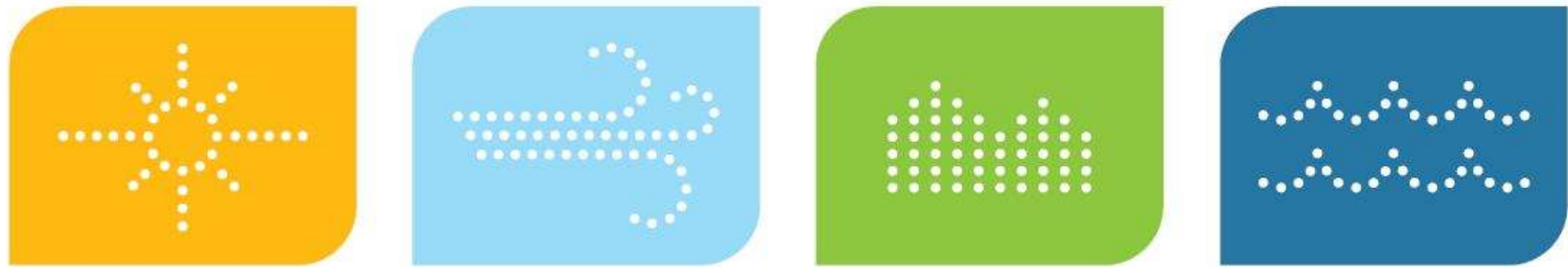
# Louisiana Solar Industries: Lighting the Way to Sustainable Economic Development

presentation to:  
*2011 Louisiana Clean Energy Expo*

by:  
Jeffrey Cantin  
Secretary/Treasurer

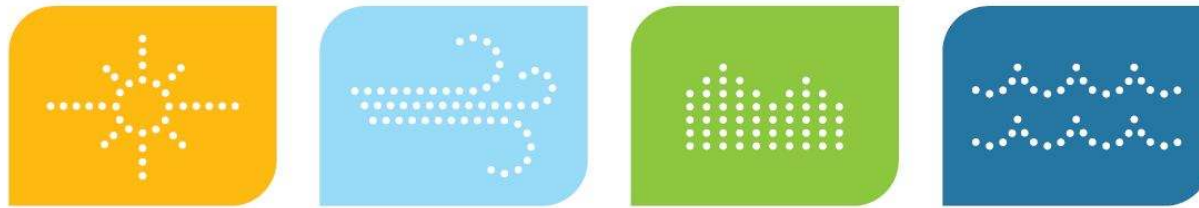


Gulf States Renewable Energy Industries Association



## Gulf States Renewable Energy Industries Association

- Louisiana, Mississippi, Alabama
- Solar Energy Industries Association (SEIA)
- Solar, Hydrokinetic, Wind, Geothermal
- Trade Representation: Regulatory, Legislative, Arbitration, Self-Policing
- Solar prominent in Louisiana

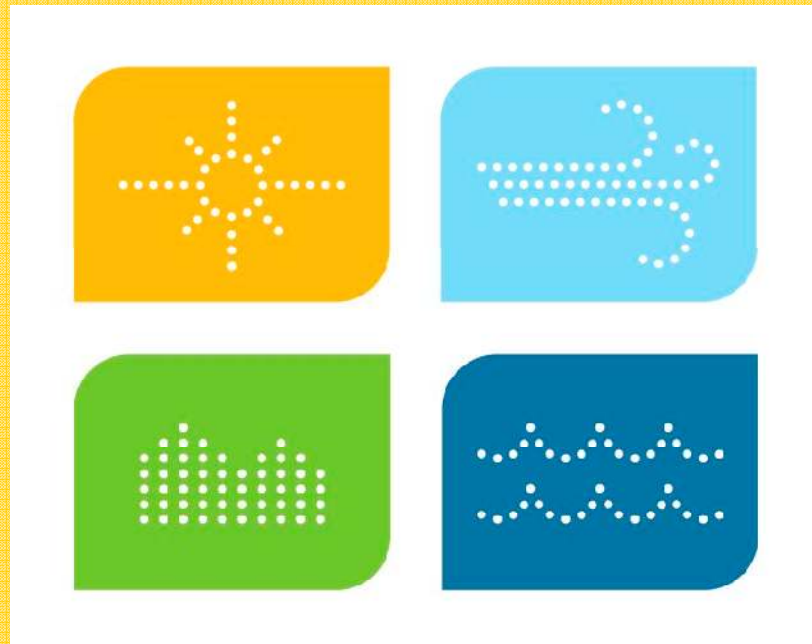


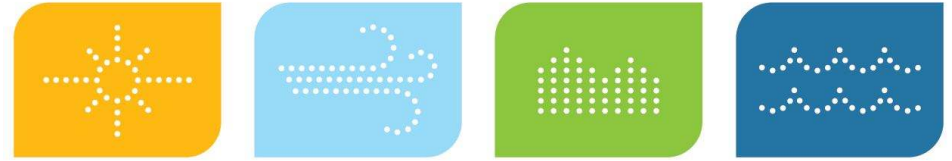
Gulf States Renewable Energy Industries Association

## **Resources, Capacity, Industry, Jobs**

- **Solar Resource:** Power Potential
- **Installed Capacity:** Today's systems
- **Economic Impacts:** Savings and Jobs
- **Ramp-up Potential:** Solidifying Gains

# Louisiana Solar Resource

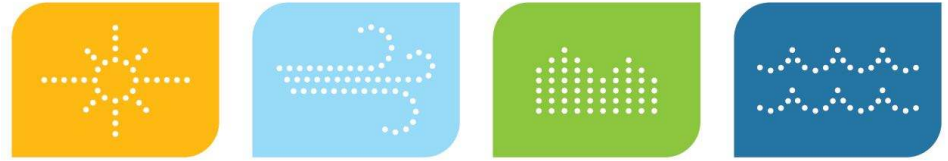




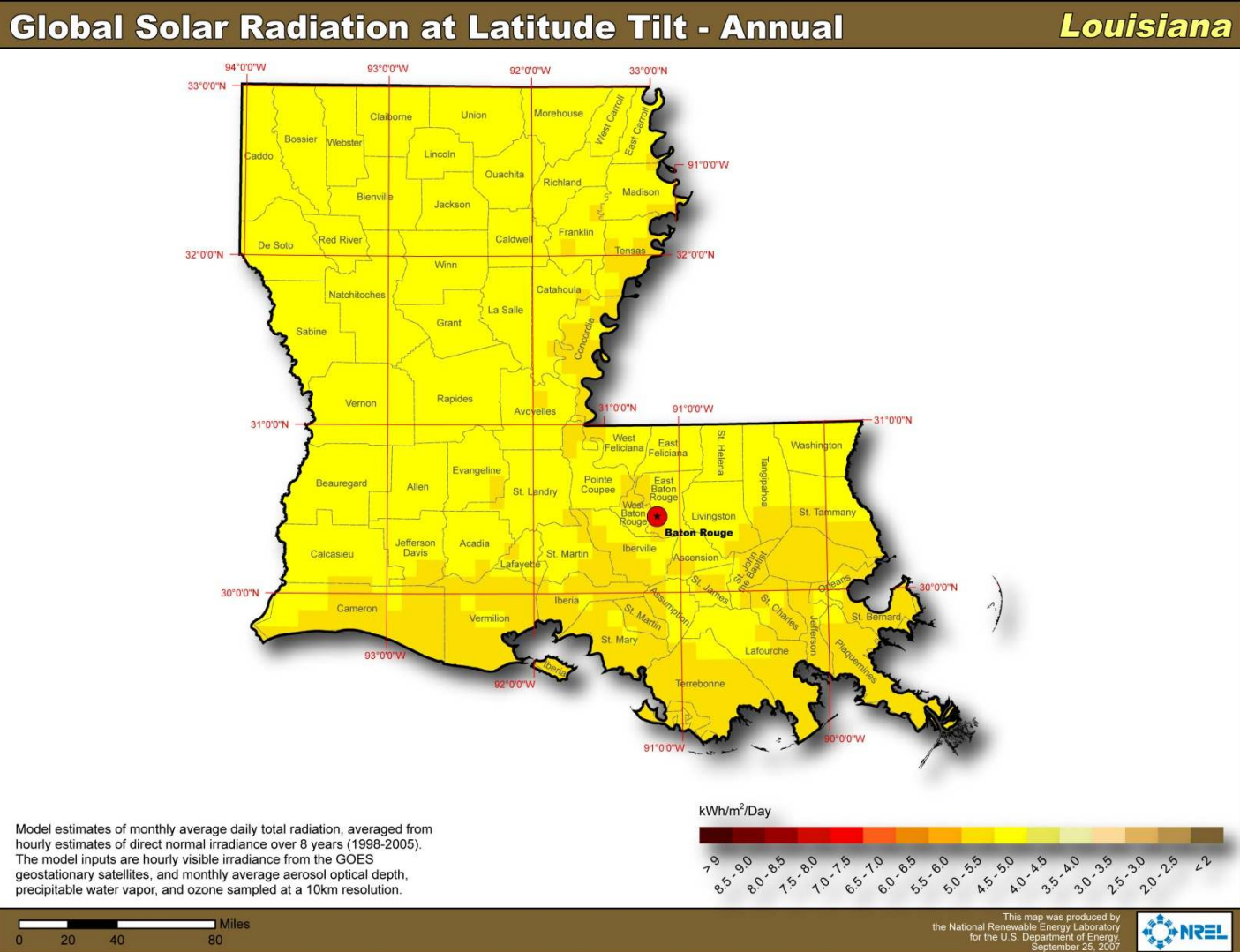
Gulf States Renewable Energy Industries Association

## Solar Resource

- **Raw Solar Power:** 5 kWh per square meter
- Higher than many other areas with more interest and policy support:
  - Germany 3.0 kWh/m<sup>2</sup>
  - New Jersey 4.5 kWh/m<sup>2</sup>
  - Pennsylvania 4.3 kWh/m<sup>2</sup>
  - Ontario 4.1 kWh/m<sup>2</sup>

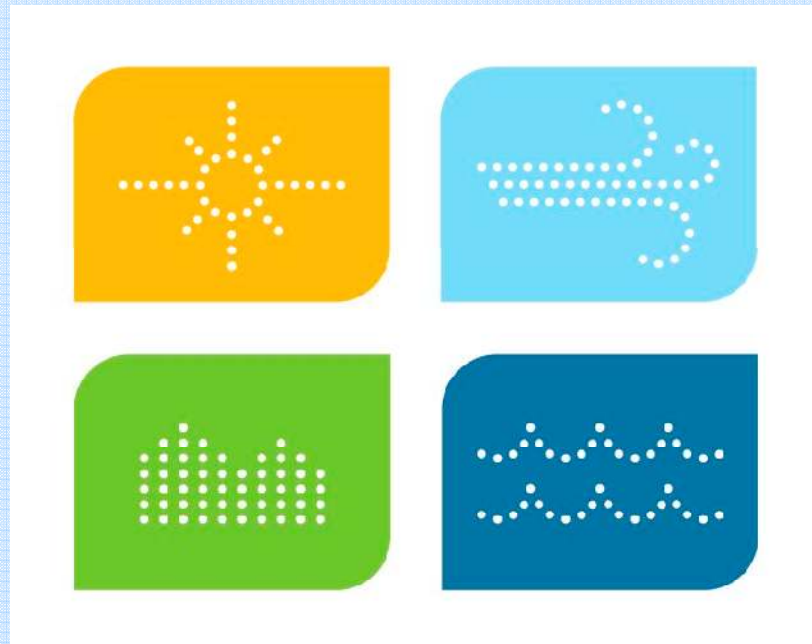


Gulf States Renewable Energy Industries Association





# Louisiana Installed Capacity





Gulf States Renewable Energy Industries Association

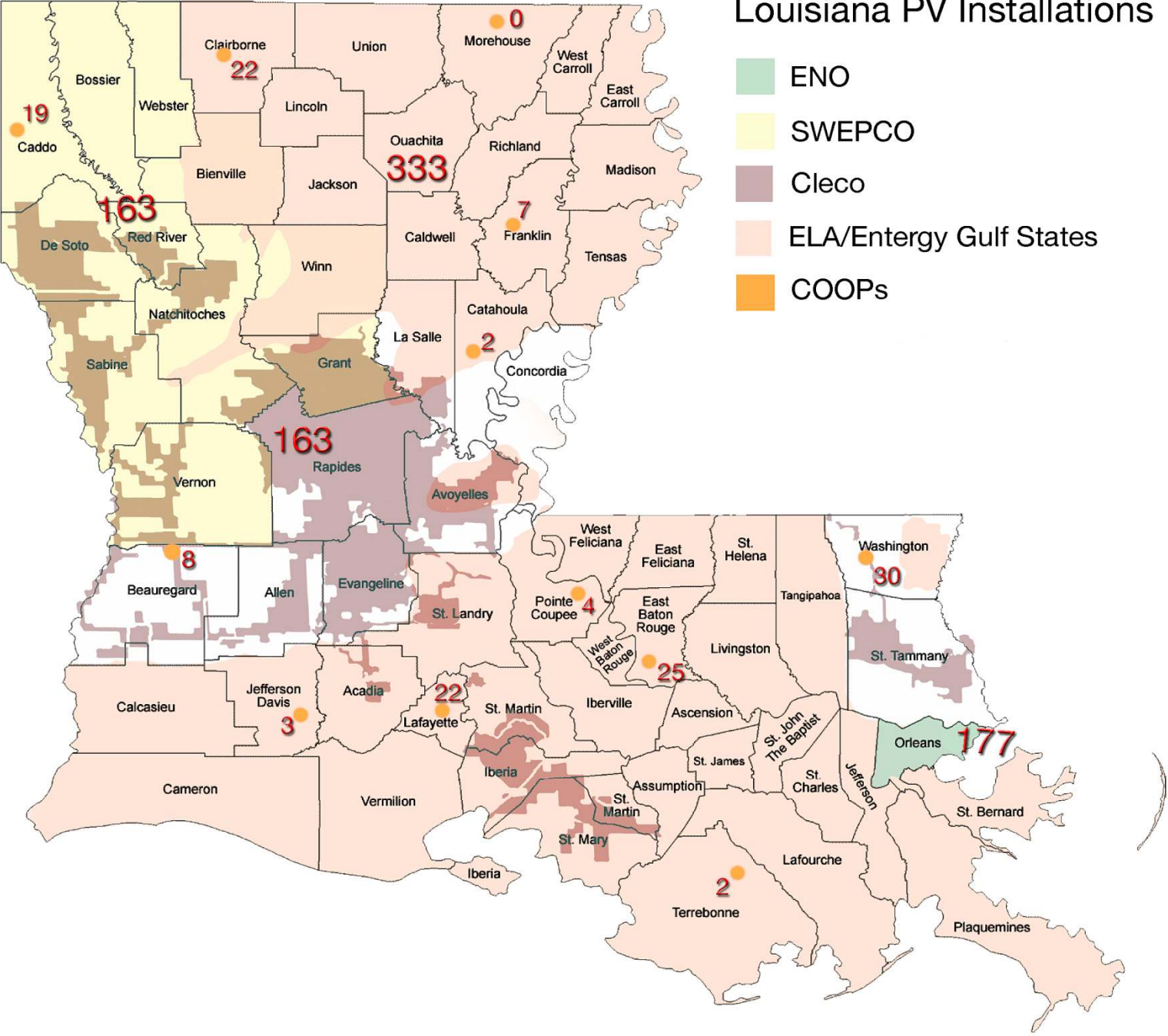
## Utility Reported PV Installations & Corresponding kW

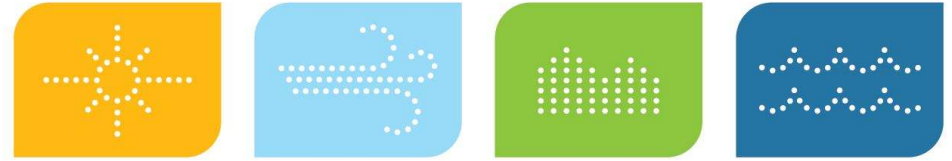
Utility Type	PV Installations	kW*
COOP	144	394.01
IOUS	836	1,445.8
Municipal Electric	62	N/A
<b>TOTAL</b>	<b>1,042</b>	<b>1,839.81</b>

\* Missing kW information for three COOPS and Entergy Louisiana, Entergy Gulf States, & Cleco



# Louisiana PV Installations



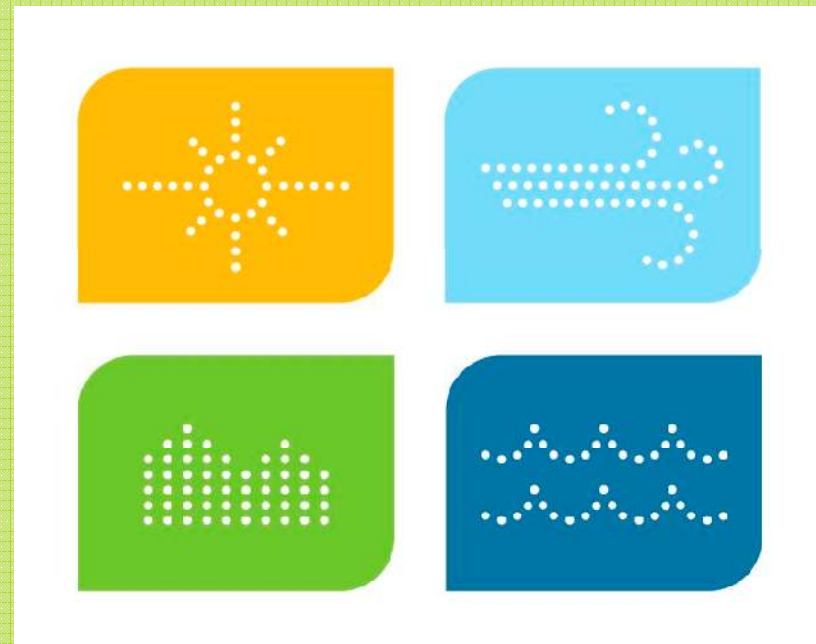


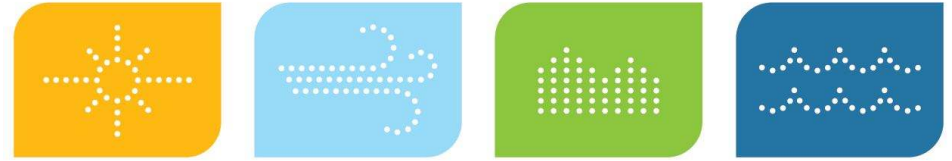
Gulf States Renewable Energy Industries Association

## Estimated Capacity Solar PV

- 1042 Grid-Tied Solar PV systems reported to date
- Power ratings provided for 484 of reported systems, averaging 3.8 kW
- Estimated total solar installed capacity in Louisiana between 3.7 and 4.3 MW
- In early 2007, estimated LA capacity less than 20kW

# Economic Impacts

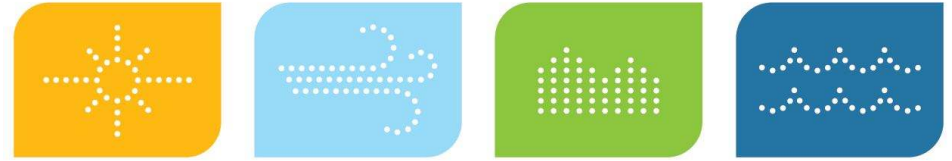




Gulf States Renewable Energy Industries Association

## Installed Value and Federal Funds

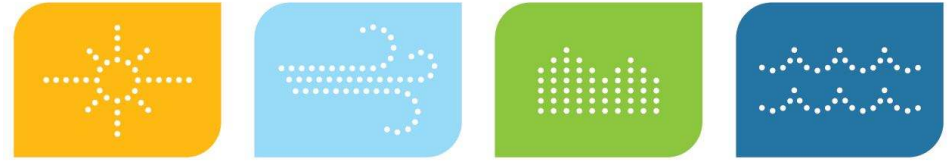
- Total value of installed residential solar installations in LA is \$33,554,228 (*LDR*)
- 30% Federal Tax Credit for solar applies to majority of these systems
- Indicates over \$9M in related Federal funds injected into Louisiana economy



Gulf States Renewable Energy Industries Association

## Owner Energy Cost Savings

- Annual utility savings of 3.8kW PV: \$600
- 30-year escalated savings: \$33,651
- Lifetime savings of all La PV systems: \$35.1M
- Lifetime savings of Thermal systems: \$4.8M
- Total savings: \$39.9M
  
- Energy Savings ROI for Solar Credit: 138%
  
- **Direct economic impact:** Post-tax disposable income

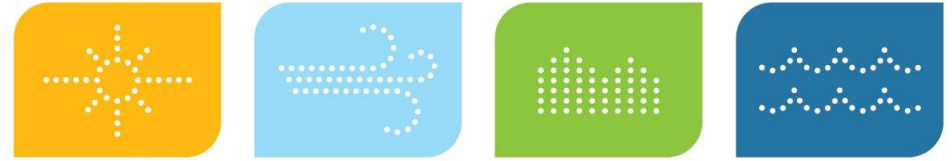


Gulf States Renewable Energy Industries Association

## Employment Estimates

- 1,042 PV and 3.9MW = 914 New Jobs (JEDI)
- 120+ Statewide Licensed Solar Energy Contractors (LSLBC)
- Informal Industry Survey Indicates Average of 6 Full-time Employees, up to 35 (GSREIA)

Jobs and Economic Development Impact: See [www.nrel.gov/analysis/jedi](http://www.nrel.gov/analysis/jedi) for more information  
Louisiana State Licensing Board for Contractors, <http://www.lslbc.louisiana.gov>



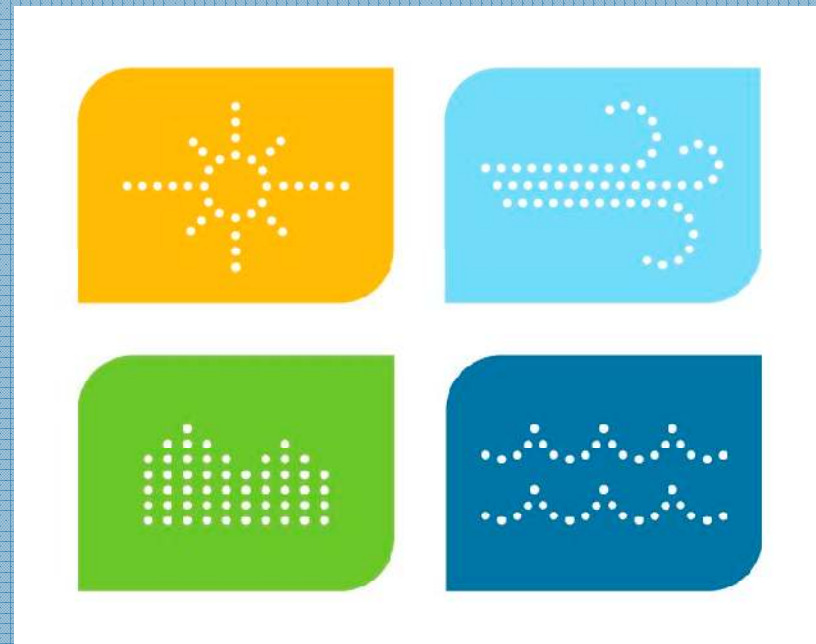
Gulf States Renewable Energy Industries Association

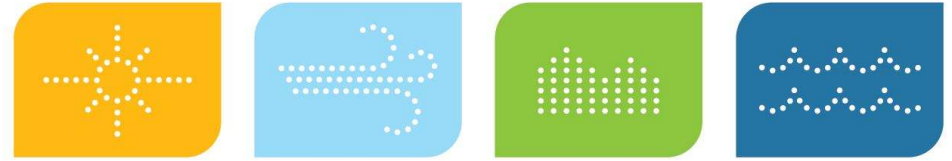
## Job Categories

- **Direct:**
  - **Skilled:** electricians, plumbers, roofers, laborers
  - **Professional:** designers, engineers
  - **Office:** clerical, accounting, management
- **Indirect:**
  - Engineers, architects, attorneys
  - Warehouse/supply, domestic manufacturing



# Scale Up Opportunities and Benefits



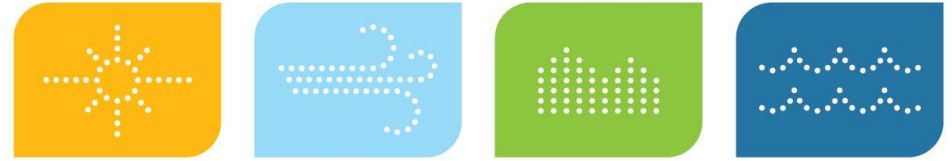


Gulf States Renewable Energy Industries Association

# Renewable Energy Implementation Plan

- Public Service Commission Docket
- RFP for 350MW of Utility-Scale Renewable Energy
- 2012-2014 Performance Timeline
- Could Dramatically Boost Installed RE Capacity
  
- Question: What are the potential economic benefits of expanding to 10, 50, and 100 MW of solar PV in Louisiana?

*(LA PSC Docket No. R-28271 Subdocket B)*



Gulf States Renewable Energy Industries Association

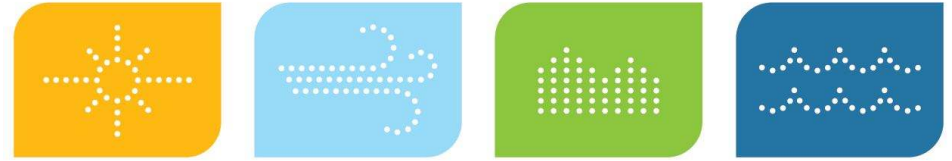
# Projected Employment Impacts

## Job Creation with Expanded Solar Capacity

- 10 MW: 2,307
- 50 MW: 11,535
- 100 MW: 23,071

Total estimated jobs during construction and installation period

Source: JEDI/NREL



Gulf States Renewable Energy Industries Association

## **Louisiana Renewable Energy**

- Strong natural resources
- Favorable markets and costs
- Growing industry with regional potential
- Sustainable high-skill jobs
- Positioning for future international demand

# Questions/Comments

