Tracking Solar Jobs

The Solar Foundation’s State Solar Jobs Census

THE SOLAR FOUNDATION
Research and Education to Advance Solar Energy
About The Solar Foundation

National 501(c)(3) nonprofit whose mission is to increase understanding of solar energy through strategic research that educates the public and transforms markets.

www.TheSolarFoundation.org
Highly Rigorous Survey-Based Count of “Solar Workers”

“Solar worker” spends at least 50% of their time working on solar-related activities.

Photo Credit: Gro Solar
Employment By Industry Sector

- Installation
- Manufacturing
- Sales and Distribution
- Project Development
- Other

Photo Credits: First Solar, First Solar, NREL, Gro Solar, NREL From Left to right.
NATIONAL SOLAR JOBS CENSUS 2013

Over 142,000 Americans work in the Solar Industry

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Image courtesy of groSolar
Industry Comparisons

- US Iron and Steel Mill Industry: 86,122
- Coal Mining: 89,838
- US Auto Manufacturing (light duty vehicles, not including suppliers): 116,100
- US Solar Industry: 142,698

Source: The Solar Foundation and Bureau of Labor Statistics
Drivers of Growth

Capacity-Weighted Average Installed Costs, 2010-2013

Source: SEIA and GTM Research, "Solar Market Insight" report series
California is home to more than 40% of the total installed solar capacity in the US and employs one third of all solar workers in the nation.
Breakdown by Solar Employment Sectors in California

- CA employers expect to add 10,500 (22.3%) in 2014, representing 47% of all solar workers nationwide.
- CA workers earn more than national solar workers.
- California added 3,500 jobs in 2013 to reach a total of 47,233 solar jobs.

- Installation = 60% of workers
- Manufacturing = 30%
- Project Development = 6%

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Despite having the best solar resource in the US, AZ lost more than any other state. Yet it still accounts for six percent of national solar employment. AZ employers are cautiously optimistic for 2014, expecting 5.6% growth.
Minnesota

- MN has 858 solar jobs, representing a 73% growth rate over 2012
- MN employers are bullish, with 28% expected growth in 2014
- MN is mandated to increase its solar capacity by 30 fold by 2020

Photo Courtesy Solar Services, Inc.
State by State Snapshots

Interactive map with all 50 states at: www.SolarStates.org
<table>
<thead>
<tr>
<th>Rank</th>
<th>State</th>
<th>Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>CA</td>
<td>47,223*</td>
</tr>
<tr>
<td>2.</td>
<td>AZ</td>
<td>8,558</td>
</tr>
<tr>
<td>3.</td>
<td>NJ</td>
<td>6,500</td>
</tr>
<tr>
<td>4.</td>
<td>MA</td>
<td>6,400*</td>
</tr>
<tr>
<td>5.</td>
<td>NY</td>
<td>5,000*</td>
</tr>
<tr>
<td>6.</td>
<td>TX</td>
<td>4,100</td>
</tr>
<tr>
<td>7.</td>
<td>FL</td>
<td>4,000*</td>
</tr>
<tr>
<td>8.</td>
<td>OH</td>
<td>3,800</td>
</tr>
<tr>
<td>9.</td>
<td>CO</td>
<td>3,600</td>
</tr>
<tr>
<td>10.</td>
<td>NC</td>
<td>3,100*</td>
</tr>
<tr>
<td>11.</td>
<td>PA</td>
<td>2,900</td>
</tr>
<tr>
<td>12.</td>
<td>MO</td>
<td>2,800*</td>
</tr>
<tr>
<td>13.</td>
<td>TN</td>
<td>2,800</td>
</tr>
<tr>
<td>14.</td>
<td>OR</td>
<td>2,700</td>
</tr>
<tr>
<td>15.</td>
<td>MI</td>
<td>2,700</td>
</tr>
<tr>
<td>16.</td>
<td>GA</td>
<td>2,600*</td>
</tr>
<tr>
<td>17.</td>
<td>HI</td>
<td>2,600</td>
</tr>
<tr>
<td>18.</td>
<td>NV</td>
<td>2,400</td>
</tr>
<tr>
<td>19.</td>
<td>IL</td>
<td>2,100</td>
</tr>
<tr>
<td>20.</td>
<td>WA</td>
<td>2,000</td>
</tr>
</tbody>
</table>

*grew by 1,500 jobs or more
CA, AZ, NJ, and MA retained their places in the Top Four

Substantial movement among the rest of the states in the Top Ten
Growth Rate of Top Ten (and MN)
Highest Growth Rates From 2012 to 2013

20 states more than doubled their solar jobs
Breakdown of Jobs by Sector
National and Top 5 Solar Job States, 2013

National

California

Arizona

New Jersey

Massachusetts

New York

Legend:
- Installation
- Manufacturing
- Sales & Distribution
- Project Development
- Other
Questions:

Andrea Luecke
Executive Director

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info@solarfound.org
202-469-3732

www.TSFcensus.org
www.SolarStates.org