

# Tracking Solar Jobs

The Solar Foundation's  
State Solar Jobs Census



# 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](http://www.TheSolarFoundation.org)

# Census Series

OCTOBER 2010

National Solar Jobs Census 2010



A Review of the U.S. Solar Workforce

THE SOLAR FOUNDATION

OCTOBER 2011

National Solar Jobs Census 2011



JANUARY 2014

National Solar Jobs Census 2013



The Annual Review of the U.S. Solar Workforce

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NOVEMBER 2012

National Solar Jobs Census 2012



A Review of the U.S. Solar Workforce

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# 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

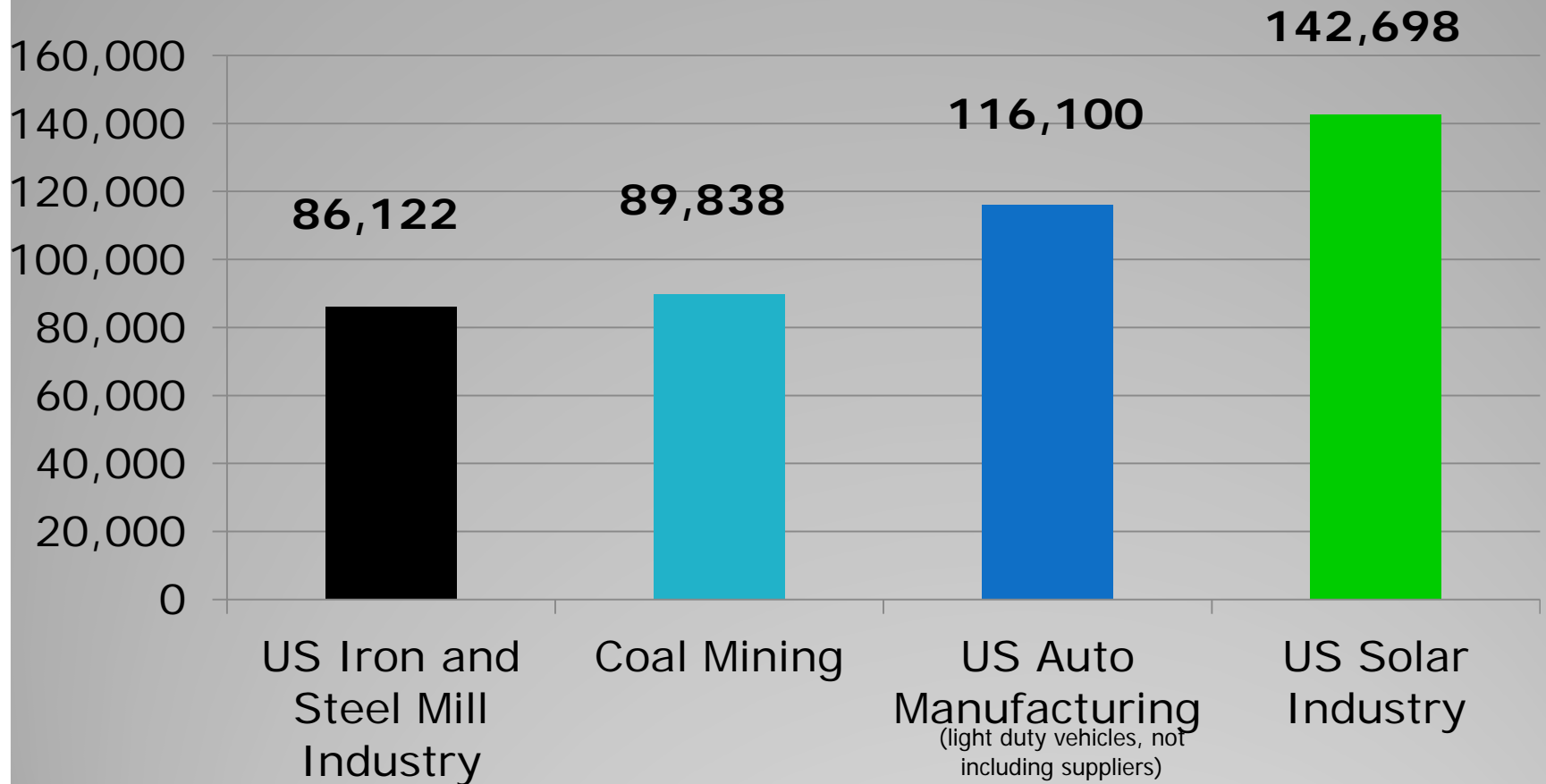


OVER 142,000  
AMERICANS  
WORK IN THE  
**SOLAR**  
INDUSTRY

**THE SOLAR FOUNDATION**<sup>®</sup>  
*Research and Education to Advance Solar Energy*

Image courtesy of groSolar

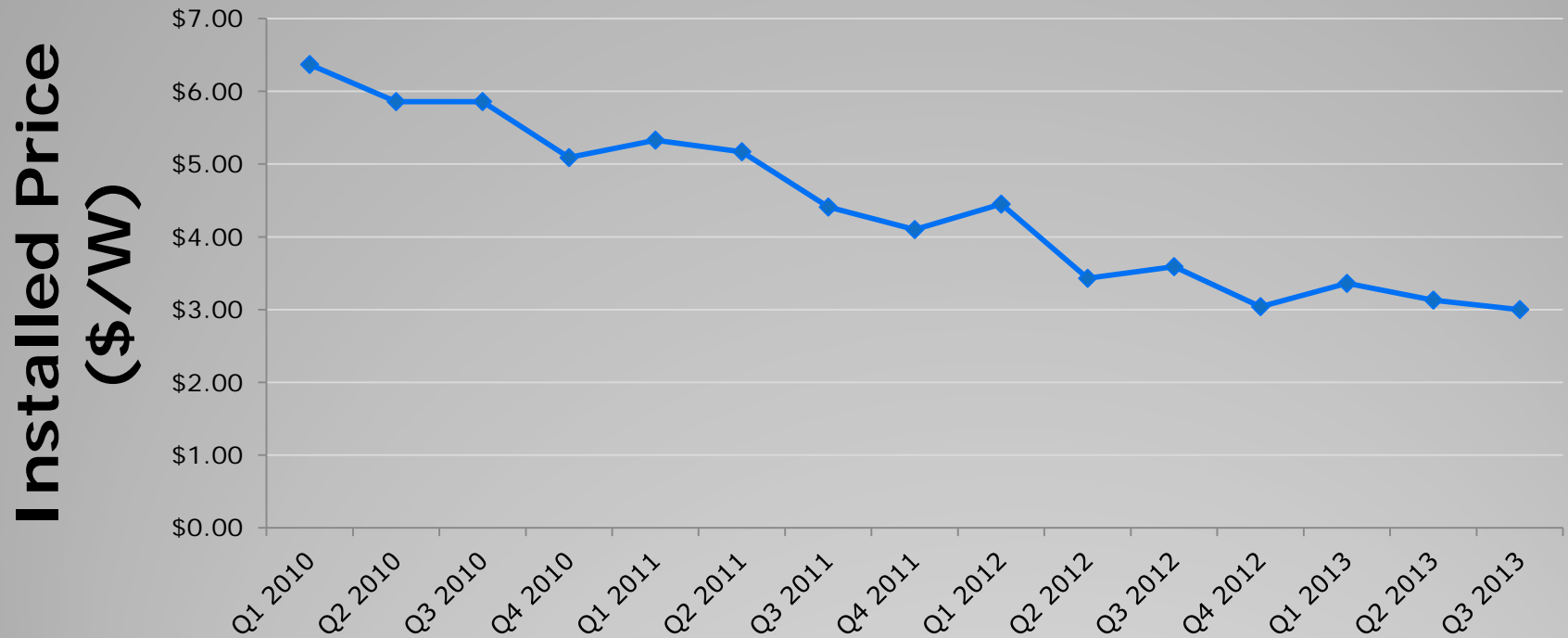
# Industry Comparisons



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.

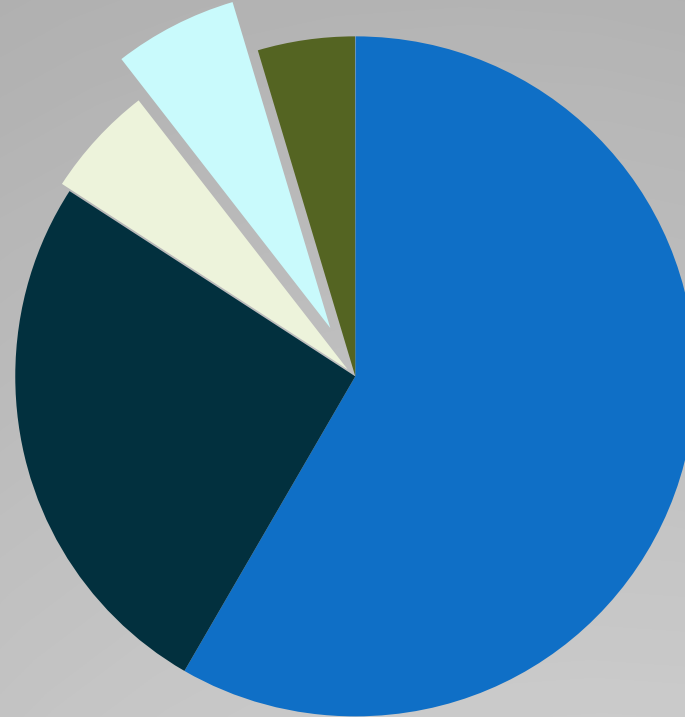


## Breakdown by Solar Employment Sectors in California

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



■ Installer

■ Manufacturer

■ Distributor

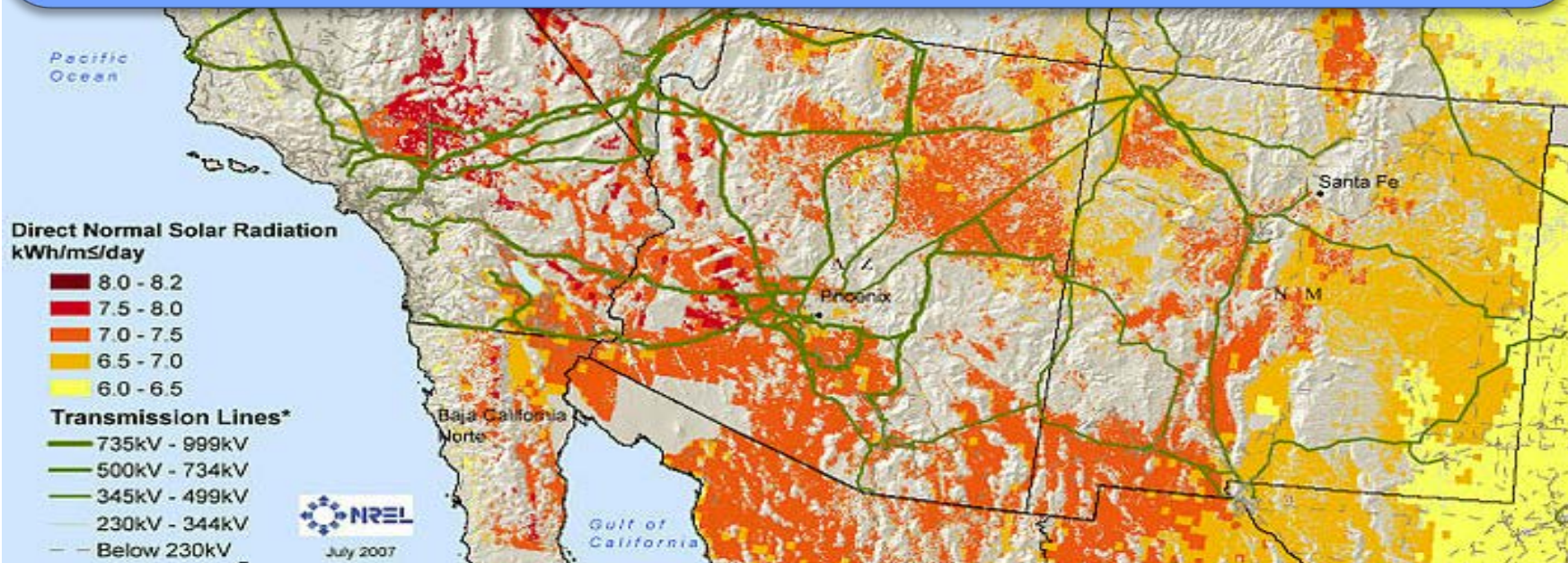
■ Project Developer

■ Other

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

# Arizona

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.



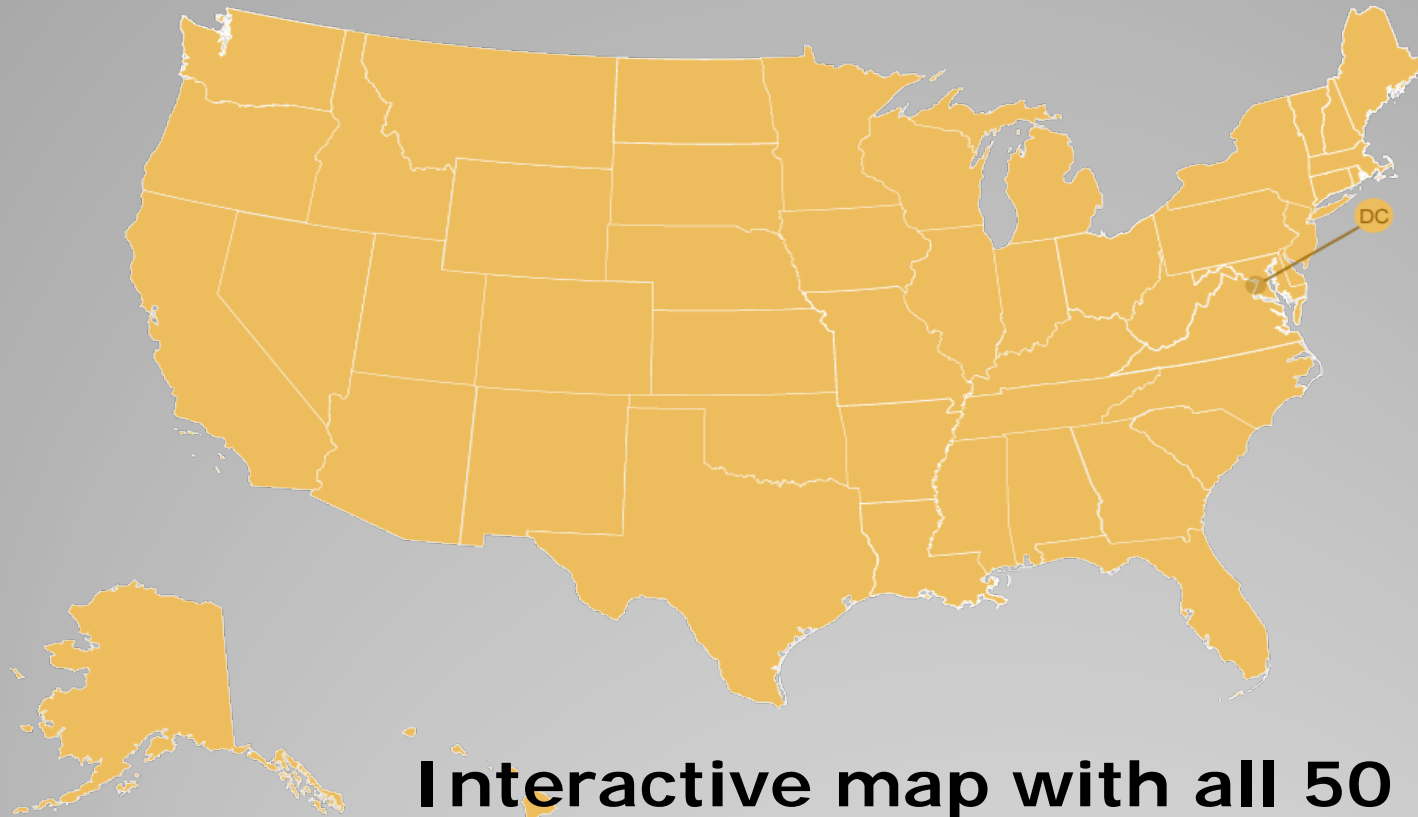
# Minnesota

- 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



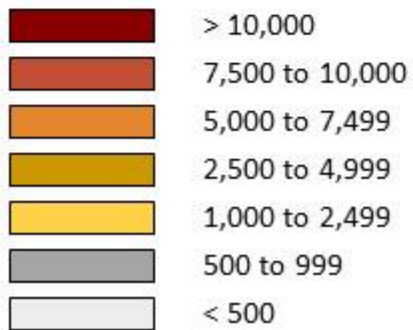
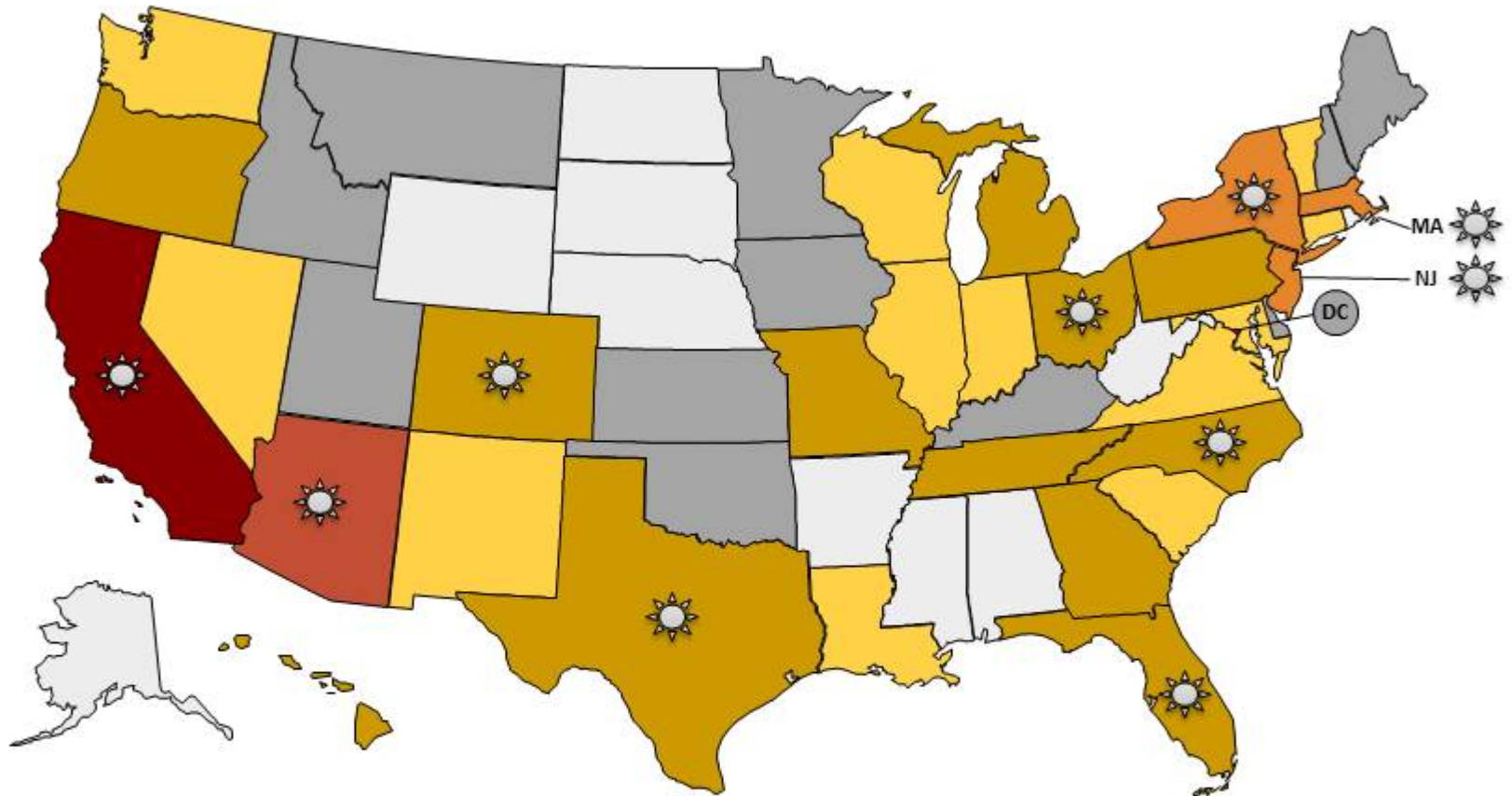
Photo Courtesy Solar Services, Inc.

# State by State Snapshots



**Interactive map with all 50  
states at: [www.SolarStates.org](http://www.SolarStates.org)**

# Solar Jobs by State - 2013



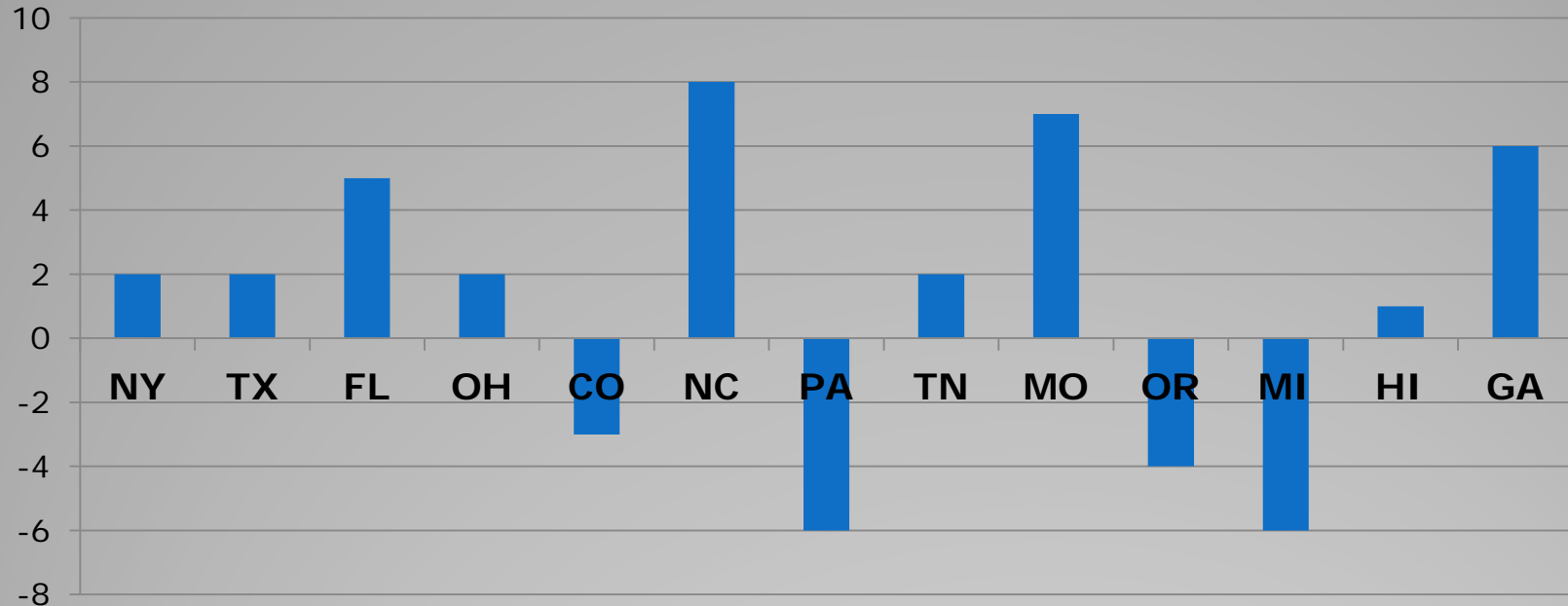
 2013 Top Ten Solar Jobs State

# Top 20 Solar Jobs States

- |                 |                 |
|-----------------|-----------------|
| 1. CA = 47,223* | 11. PA = 2,900  |
| 2. AZ = 8,558   | 12. MO = 2,800* |
| 3. NJ = 6,500   | 13. TN = 2,800  |
| 4. MA = 6,400*  | 14. OR = 2,700  |
| 5. NY = 5,000*  | 15. MI = 2,700  |
| 6. TX = 4,100   | 16. GA = 2,600* |
| 7. FL = 4,000*  | 17. HI = 2,600  |
| 8. OH = 3,800   | 18. NV = 2,400  |
| 9. CO = 3,600   | 19. IL = 2,100  |
| 10. NC = 3,100* | 20. WA = 2,000  |

\*grew by 1,500 jobs or more

## Rank Change from 2012 to 2013

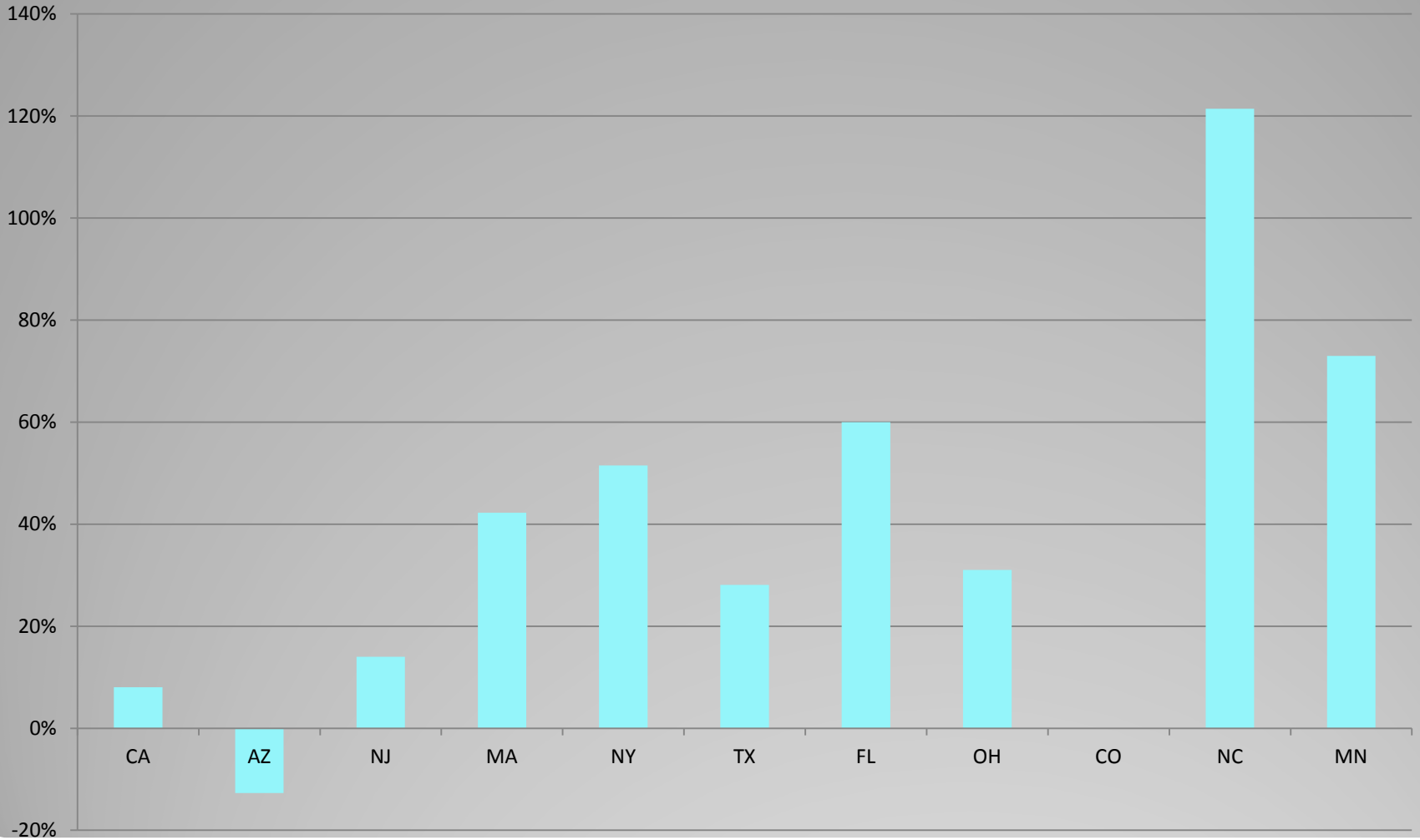


CA, AZ, NJ, and MA retained their places in the Top Four

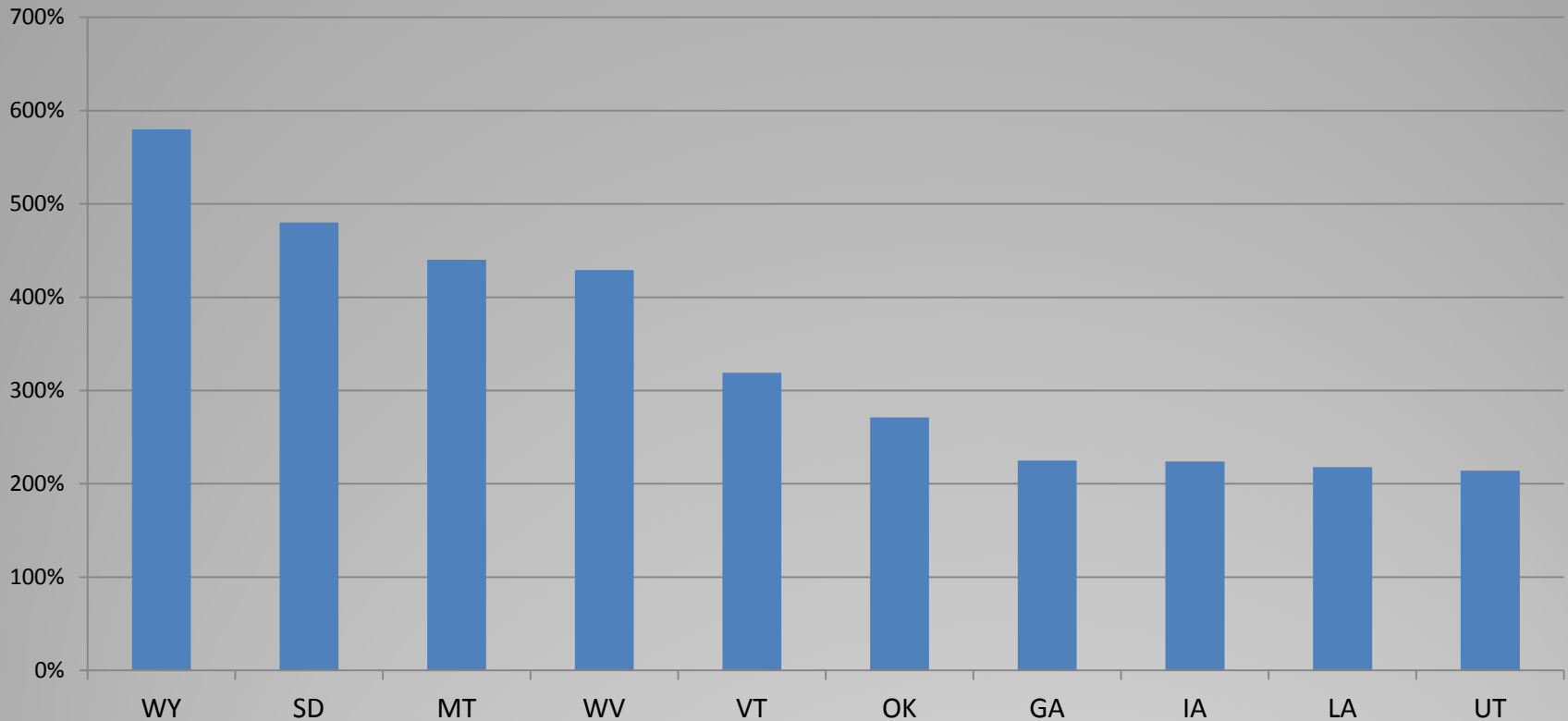
Substantial movement among the rest of the states in the Top Ten



# Growth Rate of Top Ten (and MN)



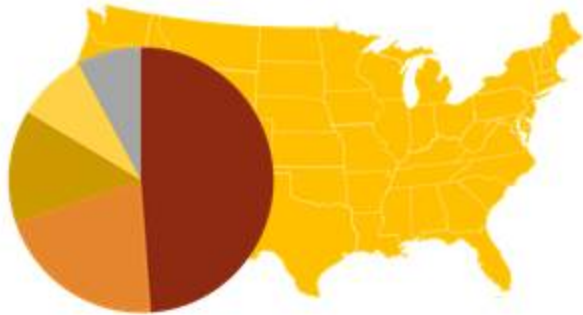
# Highest Growth Rates From 2012 to 2013



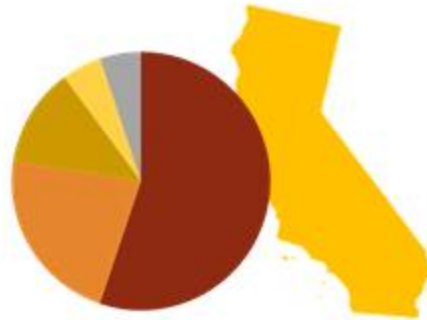
20 states more than doubled their solar jobs

# Breakdown of Jobs by Sector National and Top 5 Solar Job States, 2013

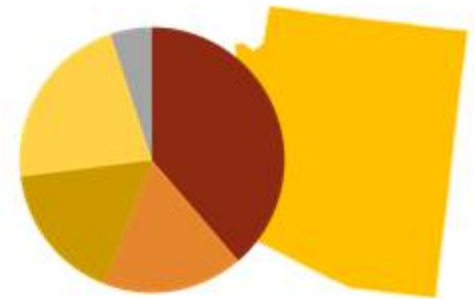
*National*



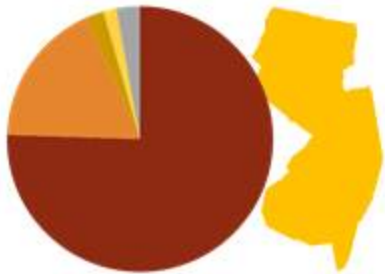
*California*



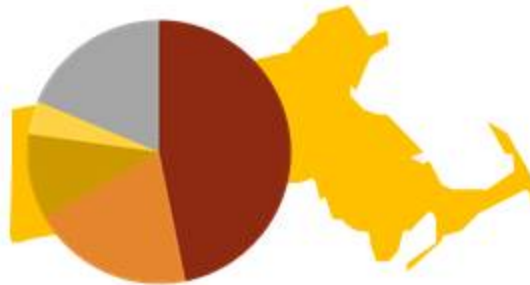
*Arizona*



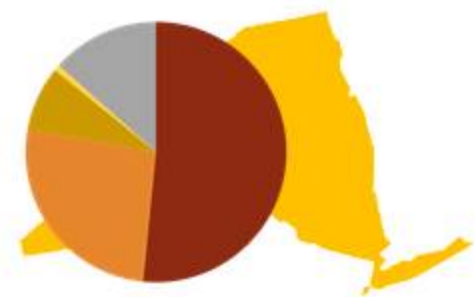
*New Jersey*



*Massachusetts*



*New York*



Questions:

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