

The New York Solar Jobs Act: Creating Good Jobs in the Clean Energy Sector



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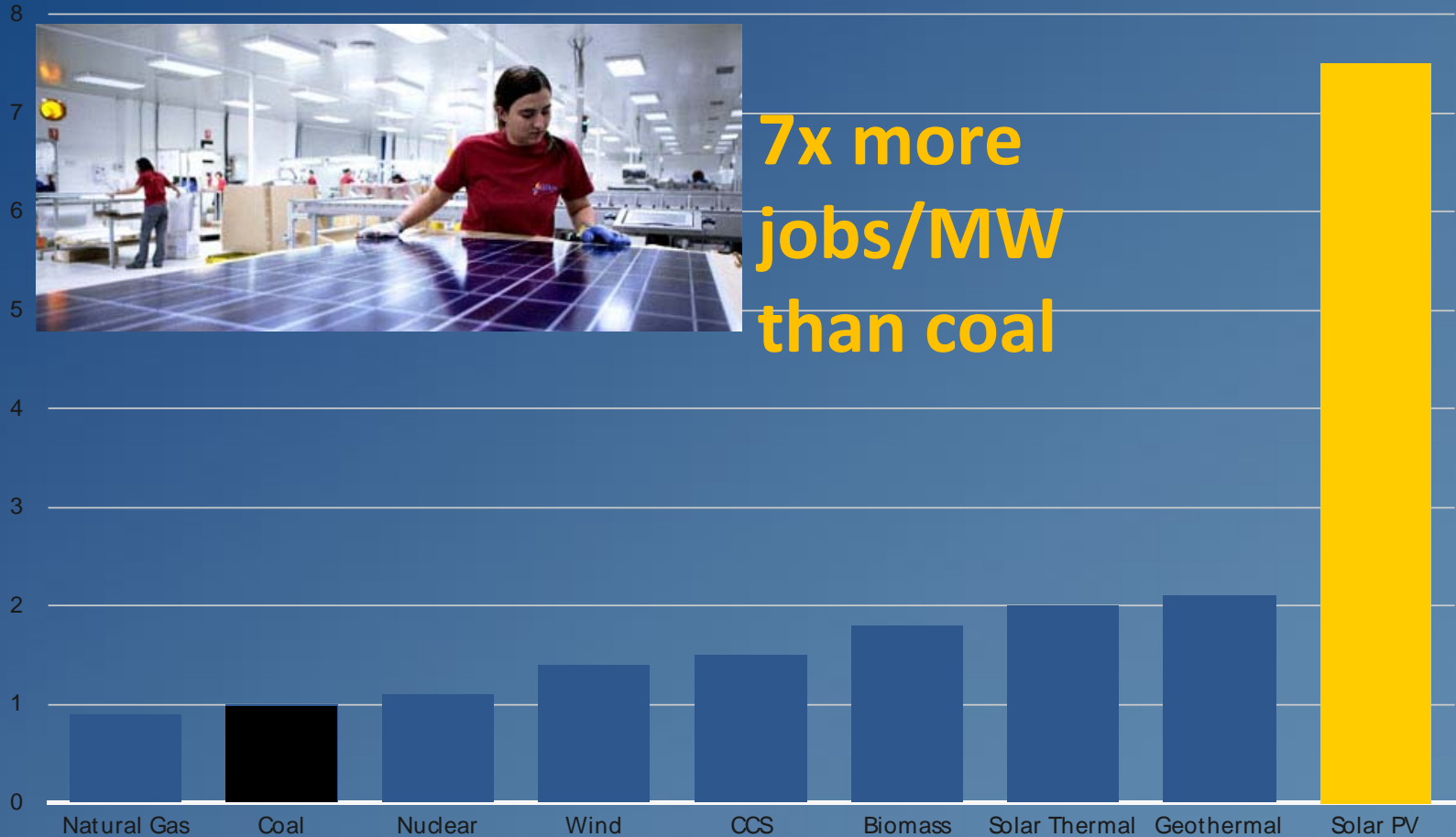
Why Solar?

- Energy Security
- Air Quality/Public Health
- Climate Change
- Improved Grid Reliability
- **Jobs:** *more jobs per MW than any other form of power generation; 14 jobs per \$1million invested (3x the # jobs as the same investment in oil/gas and 2x coal)**



*Source: Pollin, Robert; Heintz, James; Garrett-Peltier, Heidi. "The Economic Benefits of Investing in Clean Energy"
Center for American Progress: June 2009. http://www.americanprogress.org/issues/2009/06/pdf/peri_report.pdf

Solar Drives Job Growth

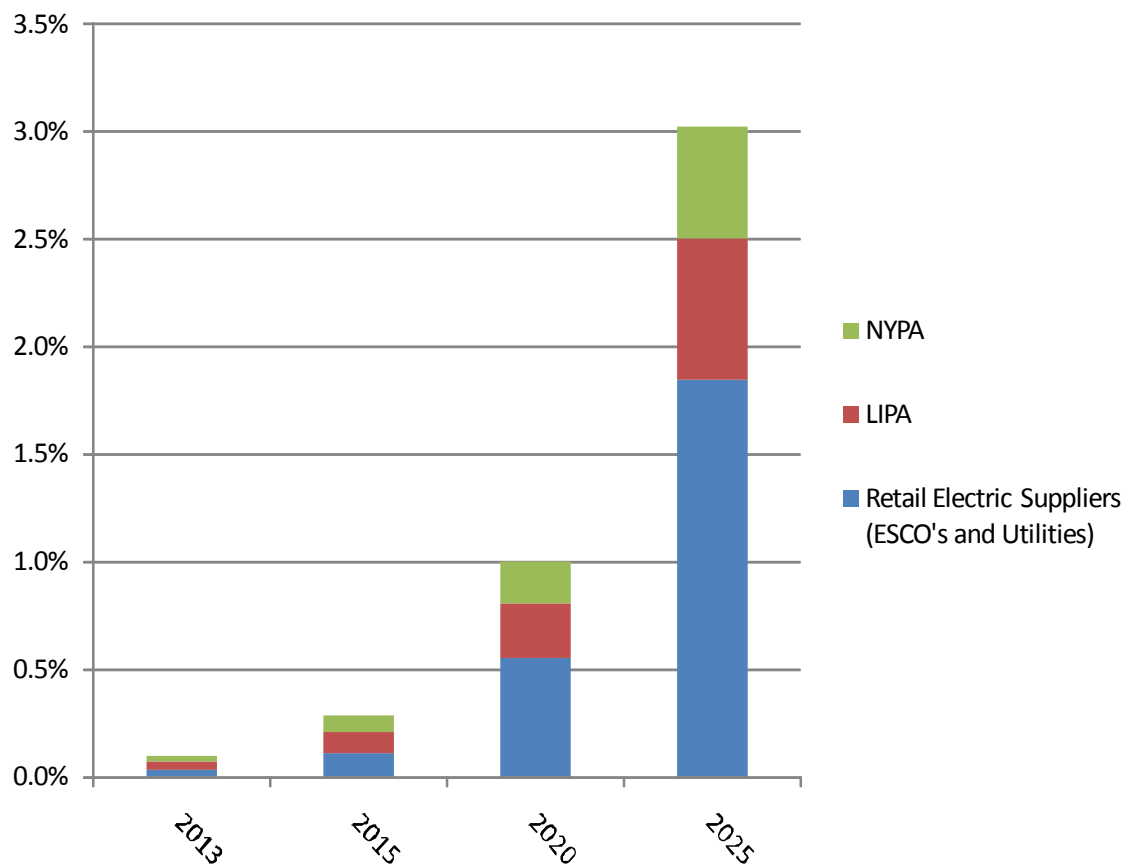


Sources: Kammen, David M et al, 2004, Report of the Renewable and Appropriate Energy Lab, Putting Renewables to Work: How Many Jobs Can the Clean Energy Industry Create?, Energy Resources Group, Goldman School of Public Policy, University of California, Berkeley. Wei, Max et al, 2010, Putting Renewables to Work: How Many Jobs Can the Clean Energy Industry Create?, Energy Resources Group, Goldman School of Public Policy and the Haas School of Business, University of California, Berkeley, in Energy Policy, vol 38, issue 2, February 2010

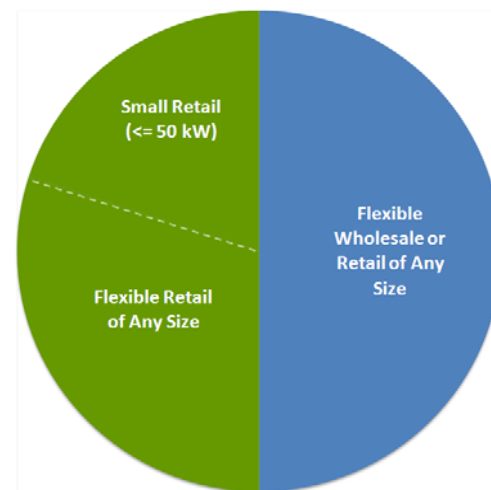
How does the NY Solar Jobs Act work?

- Annual requirements for utilities to meet a % of their demand with solar; must purchase SRECs to demonstrate compliance
- Targets gradually increase to 5000 MW by 2025 (\approx 3% of statewide electricity demand, or enough to power 500,000 homes)
- Prevailing wage/labor standards for projects above a certain size
- Consumer protections: cap on cost of the program

Solar Target: 5000 MW x 2025

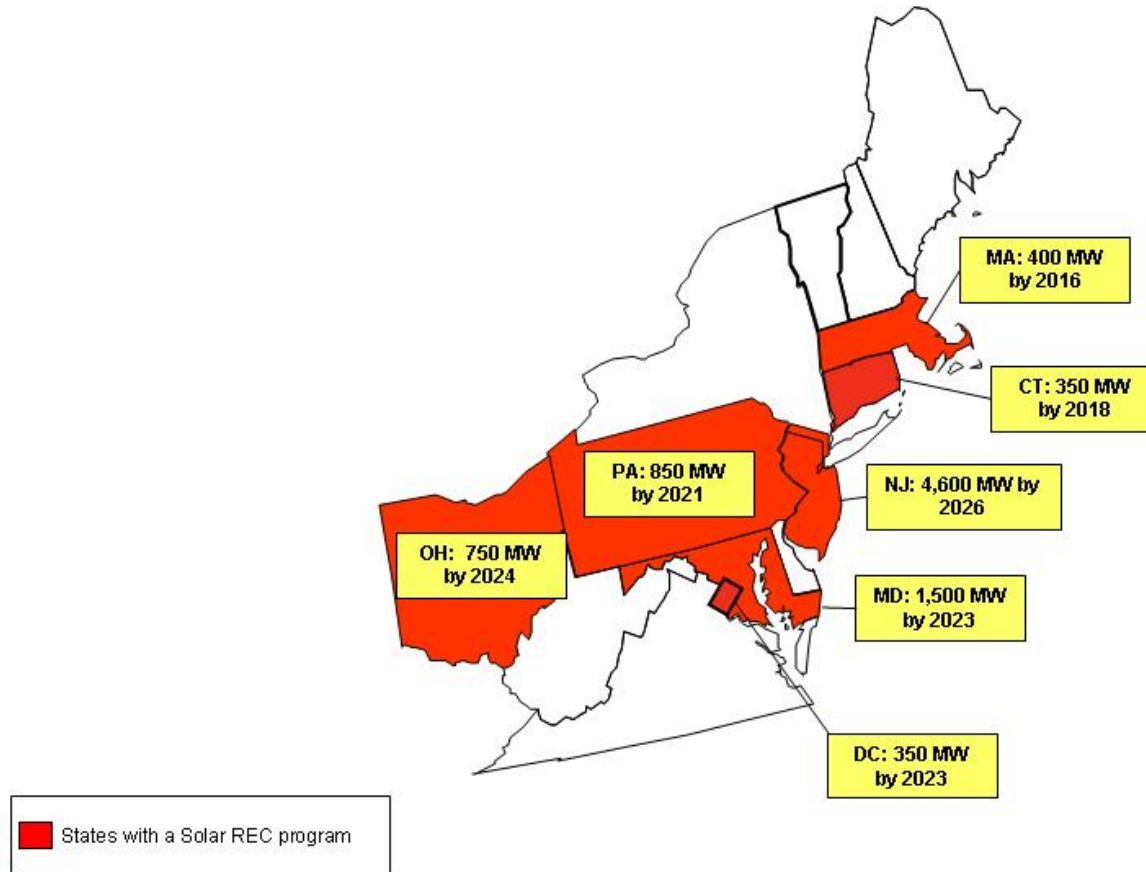


Project Diversity



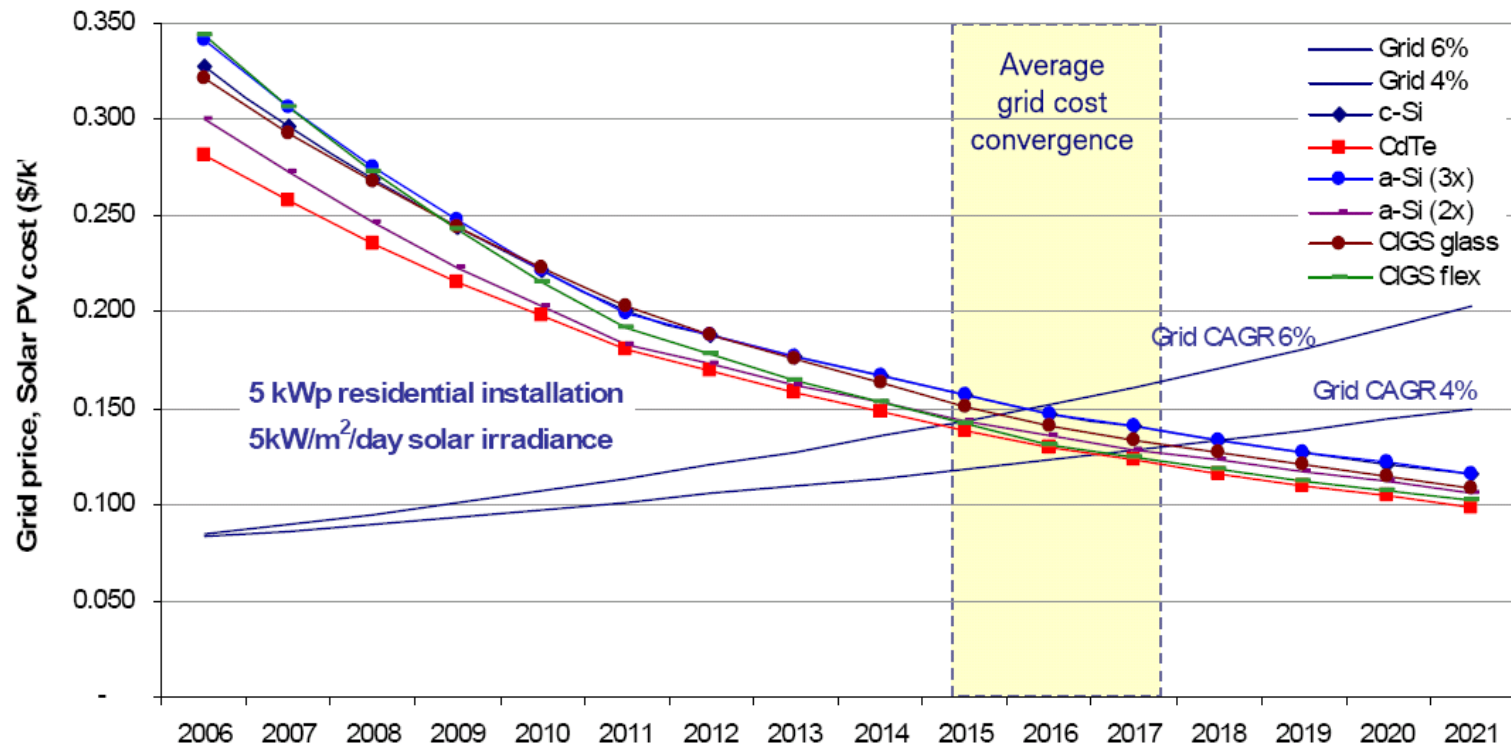
NY Falling Behind on Solar

SREC Programs are Proliferating



Drive to Solar/Grid Price Cross-Over

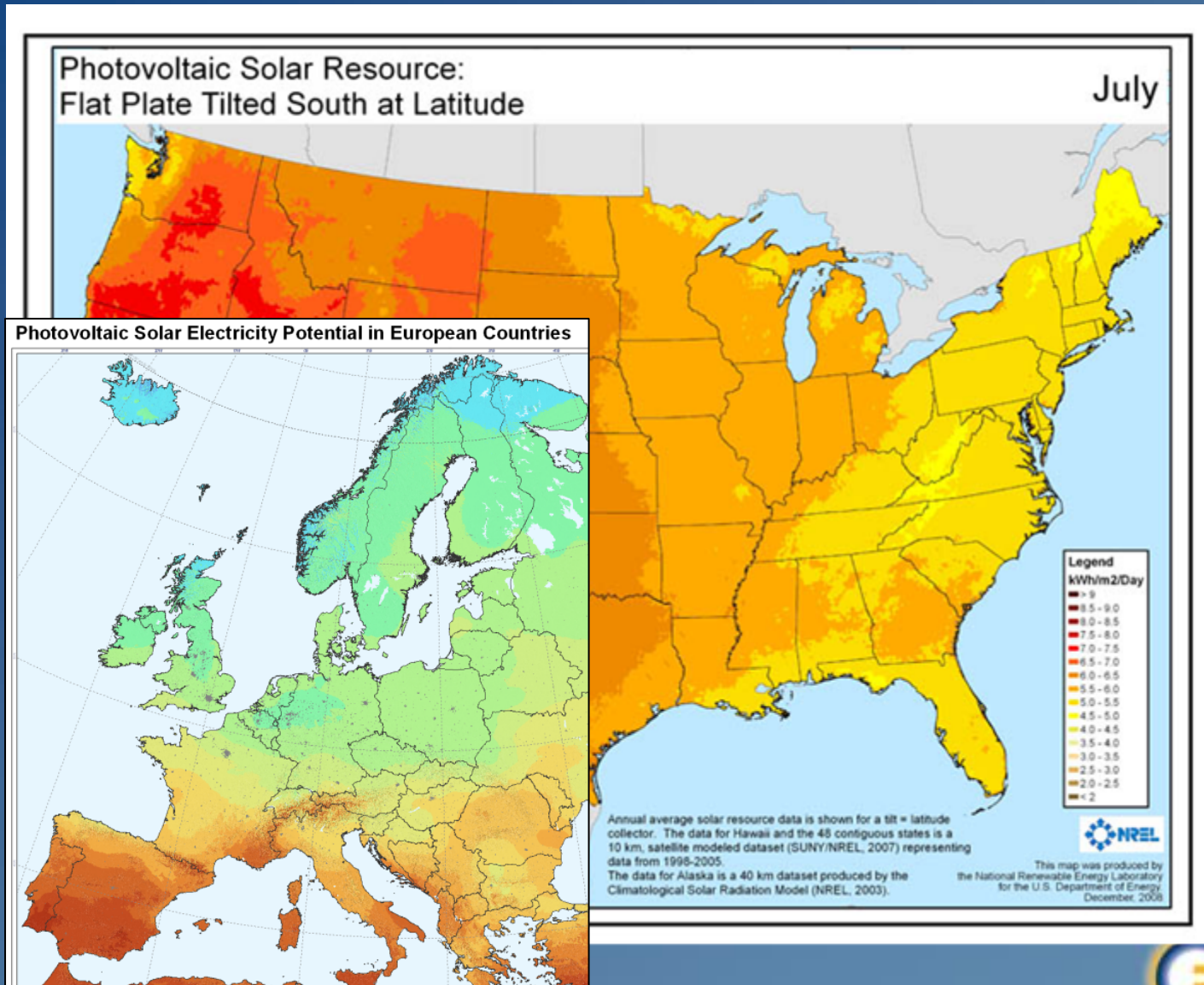
Figure 53: Ave. grid price electricity versus solar PV output costs (excluding incentives) – 5kW residential system



Source: Deutsche Bank

Q: But isn't NY too cloudy?

A: No



How many Jobs?*

- Utilizing The U.S. Department of Energy Jobs & Economic Development Impacts (“JEDI”) Model generates the the following estimates:

Table 1: New jobs from the proposed 5,000 MW solar program for New York State

Sector	Direct, Induced Jobs	O&M Jobs	Total Jobs
Residential	5,106	276	5,382
Small Commercial	4,716	276	4,992
Large Commercial	12,372	884	13,256
Utility-scale	16,543	1,531	18,074
Total Jobs	38,737	2,967	41,705

*Projecting the number of jobs created from policies is an imprecise science. However, this estimate was arrived at in a transparent manner using a well-vetted, publicly available model developed by national energy experts, with all assumptions and inputs clearly laid out. JEDI model available at <http://www.nrel.gov/analysis/jedi/download.html> ; and the run that produced these numbers available at http://votesolar.org/wp-content/uploads/2011/10/NYSJA_NREL_JEDI.pdf

*National Solar Jobs Census 2011**

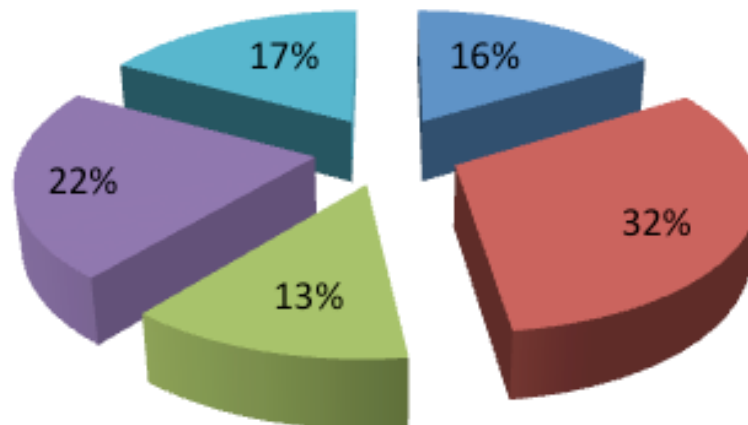
- “100,237 jobs as of August 2011
- 6.8% growth from August 2010 to August 2011 - growing nearly ten times faster than the overall economy
- 6,735 new solar jobs created between August 2010 and August 2011
- Employers expect to increase their workforce by 24% next year, creating 24,000 net new solar jobs”

* Available at: <http://thesolarfoundation.org/research/national-solar-jobs-census-2011>

*Census Continued. . .

Value Chain Breakdown for New York

■ Manufacturing ■ Installation ■ Research & Development ■ Sales ■ Other



- DOE Solar Career Map:
<file:///C:/Users/jmorris/Desktop/SunShot%20Initiative%20%20Solar%20Career%20Map.htm>

* Available at: <http://thesolarfoundation.org/research/national-solar-jobs-census-2011>

NY Solar Jobs Coalition

- A historic alliance between the labor, business, and environmental communities
- November 29 unveiled joint statement of principles, signatories:
 - 1) **National Electrical Contractors Association**
 - 2) **United Association**
 - 3) **Sierra Club Atlantic Chapter**
 - 4) **The Solar Alliance**
 - 5) **NYS Apollo Alliance**
 - 6) **New York Solar Energy Industries Association (NYSEIA)**
 - 7) **New York State AFL-CIO**
 - 8) **NYS Building & Construction Trades Council**
 - 9) **Environmental Advocates of New York**
 - 10) **Pace Energy & Climate Center**
 - 11) **Alliance for Clean Energy New York**
 - 12) **Natural Resources Defense Council**
 - 13) **Workforce Development Institute**
 - 14) **And counting. . .**

What's Next for 2012?

- Continue to broaden the NY Solar Jobs Coalition
- NYSERDA Solar Study Release: January 31, 2012
- Get involved: let your elected officials know you support Solar Jobs Now!

Thank You



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