



Solar In Illinois Equals Jobs and Economic Development

If Illinois meets the targets set by the Solar and Distributed Generation carve-outs in the Renewable Portfolio Standard¹ by building roughly 710 megawatts of solar energy projects (roughly 592 megawatts of utility scale solar projects and 118 megawatts of distributed generation, or ‘rooftop’ solar) within Illinois’ borders, the following economic benefits can be realized by the state:

- Illinois will create over **27,000 job opportunities** over the 5 -year build out. The majority of these jobs will be installation jobs; employing electricians, roofers and other manual laborers. There will also be roughly 350 long-term O&M related jobs created.
- Illinois will bring in over **\$3.4 billion in economic development dollars** into the state over the 5-year build out period. The economic activity is comprised of three categories: 1) On-site labor and professional services results; 2) local revenues and supply chain results; and 3) induced results, which are driven by reinvestment and spending of earnings by direct and indirect beneficiaries.²

Summary of Economic Impacts Derived from Full Implementation of the Solar and Distributed Generation Carve-Outs within the Illinois RPS			
	Jobs	Earnings	Output
During construction and installation period		\$000 (2010)	\$000 (2010)
Project Development and Onsite Labor Impacts	9,661	\$560,976	\$950,474
Module and Supply Chain Impacts	10,355	\$505,099	\$1,421,175
Induced Impacts	7,692	\$325,700	\$1,069,675
Total Impacts	27,708	\$1,391,775	\$3,441,324
	Annual Jobs	Annual Earnings	Annual Output
During operating years		\$000 (2010)	\$000 (2010)
Onsite Labor Impacts			
PV Project Labor Only	214	\$12,873	\$12,873
Local Revenue and Supply Chain Impacts	72	\$4,432	\$13,720
Induced Impacts	69	\$2,917	\$9,582
Total Impacts	355	\$20,222	\$36,174

¹ IL’s solar goals include: 6% of annual requirement in compliance year 2015-2016 and thereafter (1.5% of total sales in compliance year 2025-2026) from solar energy. 1% of annual requirement in compliance year 2015-2016 and thereafter (0.25% of sales in compliance year 2025-2026) from distributed generation resources, including small-scale solar.

² For a full listing of benefits evaluated see NREL’s JEDI Model Outputs explanation website at <http://www.nrel.gov/analysis/jedi/results.html>.

Inputs to the JEDI Model ³					
	2012	2013	2014	2015	2016
Allocation (% of Prog. Target Installed/Yr)	5.1%	12.1%	21.9%	47.8%	13.1%
Total MW Installed / Yr.					
Total MW Installed Cum	36	121.8	276.8	615.8	708.8
Residential - Retro kW Target - ≤ 10 kW	0.00	19,734.00	14,089.50	16,780.50	7,691.10
Avg Sys Size (kW _{DC})	6.0	6.0	6.0	6.0	6.0
% Change in System Size	0.0%	0.0%	0.0%	0.0%	0.0%
Number of Systems Installed	0.00	3,289.00	2,348.25	2,796.75	1,281.85
Allocation (% of Total kW _{DC} Installed)	0.00%	23.00%	9.09%	4.95%	8.27%
Avg Installed Cost (\$/kW _{DC})	\$5,000.00	\$4,700.00	\$4,418.00	\$4,152.92	\$3,903.74
% Change in Installed Cost	6%	6%	6%	6%	6%
Annual Direct O&M Costs (\$/kW _{DC})	\$26.00	\$27.00	\$28.00	\$29.00	\$30.00
% Change in Direct O&M Cost	2%	2%	2%	2%	2%
Commercial kW Target - 100 kW to 1 MW	0	19,734	14,090	16,781	7,691
Avg Sys Size (kW _{DC})	500.0	500.0	500.0	500.0	500.0
% Change in System Size	0.0%	0.0%	0.0%	0.0%	0.0%
Number of Systems Installed	0.00	39.47	28.18	33.56	15.38
Allocation (% of Total kW _{DC} Installed)	0.00%	23.00%	9.09%	4.95%	8.27%
Avg Installed Cost (\$/kW _{DC})	\$4,650.00	\$4,371.00	\$4,108.74	\$3,862.22	\$3,630.48
% Change in Installed Cost	6%	6%	6%	6%	6%
Annual Direct O&M Costs (\$/kW _{DC})	\$17.00	\$18.00	\$19.00	\$20.00	\$21.00
% Change in Direct O&M Cost	2%	2%	2%	2%	2%
Utility kW Target - 1 MW and larger	36,000	46,332	126,821	305,439	77,618
Avg Sys Size (kW _{DC})	10,000.0	10,000.0	10,000.0	10,000.0	10,000.0
% Change in System Size	0.0%	0.0%	0.0%	0.0%	0.0%
Number of Systems Installed	3.60	4.63	12.68	30.54	7.76
Allocation (% of Total kW _{DC} Installed)	100.0%	54.0%	81.8%	90.1%	83.5%
Avg Installed Cost (\$/kW _{DC})	\$3,200.00	\$3,008.00	\$2,827.52	\$2,657.87	\$2,498.40
% Change in Installed Cost	6%	6%	6%	6%	6%
Annual Direct O&M Costs (\$/kW _{DC})	\$17.00	\$18.00	\$19.00	\$20.00	\$21.00
% Change in Direct O&M Cost	2%	2%	2%	2%	2%

³ **Modeling information:** The Vote Solar Initiative used the Department of Energy, National Renewable Energy Lab's "Jobs and Economic Development Impacts (JEDI) Models" to calculate three economic development indicators: 1) Project Development and Onsite Labor Impacts; 2) Local Revenue and Supply Chain Impacts; and, 3) Induced Impacts. Based on user-entered project-specific data or default inputs (derived from industry norms), JEDI estimates the number of jobs and economic impacts to a local area that can reasonably be supported by a power plant, fuel production facility, or other project. JEDI model defaults are based on interviews with industry experts and project developers. Economic multipliers contained within the model are derived from Minnesota IMPLAN Group's IMPLAN accounting software and state data files.³ Notes that JEDI results are not intended to be a precise forecast; they are an estimate of potential activity resulting from a specific set of projects and scenarios. In addition, JEDI results presuppose that projects are financially viable and can be justified independent of their economic development value.³