

 **Georgia** 

Capacity added in 2010 (MW): 5.0

Estimated capacity to be added in 2011 (MW): 10.0

☀️ The DOE awarded the Georgia Tech Research Institute \$2.8 million to design PV systems with reduced balance-of-system costs. Cell and module maker Suniva and the installer Radiance Solar are part of the project team.

☀️ As noted above, the TVA reduced the system cap for its Generation Partners incentive program from 200 kW to 50 kW. See the update on Tennessee in this section for more details.

 **Hawaii** 

Capacity added in 2010 (MW): 20.0

Estimated capacity to be added in 2011 (MW): 38.0

☀️ The Naval Facilities Engineering Command Pacific (NFECP) has selected Photon Finance LLC, Island Pacific Energy LLC and Pacific Energy Solutions LLC for a \$500 million contract to develop PV systems at 11 naval facilities in Hawaii by 2016. While the NFECP did not provide an installed capacity estimate, the contract could translate into 125 MW, assuming an installed cost of \$4 per W.

☀️ The DOE awarded the University of Hawaii \$6.1 million to develop PV inverters with advanced grid-communication features.

☀️ Altair Nanotechnologies Inc. has signed a contract with the Hawaii Natural Energy Institute to supply a 1 MW energy storage system as part of a study on solar grid integration. The utility Hawaii Electric Co. will install the system at a substation in Oahu, where PV is at a high-penetration level, and the partners will evaluate its impacts on grid performance and reliability.

 **Idaho** 

Capacity added in 2010 (MW): 0.3

Estimated capacity to be added in 2011 (MW): 1.0

☀️ The DOE awarded the Boise State University-based Energy Policy Institute a \$2.8 million grant to lead a group developing an open-source program that will help utility-scale solar developers pick facility sites. The program will assess natural and physical constraints, as well as the potential for public opposition to development.

 **Illinois** 

Capacity added in 2010 (MW): 13.5

Estimated capacity to be added in 2011 (MW): 18.0

☀️ In mid-August, the Illinois Power Agency (IPA) released its draft procurement plan for obtaining renewable energy credits (RECs). In its proposal, the IPA suggested including solar in its procurement auction to be held in the spring of 2012. Some solar advocates were disappointed that the plan failed to include a special procurement for small- and medium-sized systems, arguing that it was needed because these smaller projects will not be able to compete on price in an auction with larger solar plants. Public comments and a revision to the draft plan will occur this fall and the Illinois Commerce Commission must approve or modify it by Dec. 27.

☀️ In late August, Siemens Industry Inc. announced the completion of a \$10 million upgrade to its West Chicago manufacturing facility, which makes Sinvert solar inverters.

 **Indiana** 

Capacity added in 2010 (MW): 0.6

Estimated capacity to be added in 2011 (MW): 2.6

Our research found no significant updates this month.

 **Iowa** 

Capacity added in 2010 (MW): 0.5

Estimated capacity to be added in 2011 (MW): 1.0

Our research found no significant updates this month.

 **Kansas** 

Capacity added in 2010 (MW): 0.5

Estimated capacity to be added in 2011 (MW): 1.0

Our research found no significant updates this month.

 **Kentucky** 



Capacity added in 2010 (MW): 0.1

Estimated capacity to be added in 2011 (MW): 3.0

☀️ Solar Energy Solutions of Lexington commissioned a 176 kW PV system for the Fayette County Public Schools using SunPower modules and Satcon inverters.

☀️ CMTA Consulting Engineers of Louisville is constructing a 138 kW solar parking structure at Richardsville Elementary School, a public school in Bowling Green that produces all the energy it consumes. The parking structure, to be completed in October, will use Sanyo Heterojunction with Intrinsic Thin-Layer (HIT) Double modules. The school building itself already has 208 kW of Uni-Solar laminates.

☀️ As noted above, the TVA reduced the system cap for its Generation Partners incentive program from 200 kW to 50 kW. See the update on Tennessee in this section for more details.

 **Louisiana** 

Capacity added in 2010 (MW): 2.0

Estimated capacity to be added in 2011 (MW): 3.5

☀️ The Louisiana Public Service Commission changed the state's net-metering rules so it could issue credits at retail rates for commercial PV systems above the 300 kW cap, if the project is »in the public interest.« The commission did not carve out an exception to the limit of 25 kW on residential systems.

Explanation of change:



🔄 We revised the 2010 PV capacity added figure and the 2011 estimate based on utility data and information about upcoming projects supplied by Gulf States Renewable Energy Industries Association.

 **Maine** 

Capacity added in 2010 (MW): 0.7

Estimated capacity to be added in 2011 (MW): 1.0

☀️ Kennebec Valley Community College in Fairfield held the grand opening of its new solar training facility. Funded in part by federal stimulus money, the Kennebec Valley facility is one of nine regional solar training facilities in the nation and will provide education for students across New England.

 **Maryland** 

Capacity added in 2010 (MW): 6.3


Estimated capacity to be added in 2011 (MW): 34.0

☀️ Constellation Energy is launching a residential solar lease program in Maryland and five other states in the Northeast and Midwest. A Constellation subsidiary, BGE Home, will manage sales and leasing. The utility is teaming up with Astrum Solar for installation and service support.

☀️ Governor Martin O'Malley and University of Maryland President Wallace Loh attended the opening of a 630 kW rooftop PV system at the College Park campus' Severn Building. Standard Solar installed the system for the owner Washington Gas Energy Services. The project received a \$1 per W incentive from the Maryland Energy Administration.

Explanation of change:

🔄 *The Constellation Energy solar lease may add 1 MW of new capacity this year.*

 **Massachusetts** ➡️

Capacity added in 2010 (MW): 10.0
Estimated capacity to be added in 2011 (MW): 38.0

☀️ On Aug. 31, the Massachusetts Clean Energy Center announced that 18 residents and businesses in the town of Harvard had contracted to install 100 kW of solar through the Solarize Mass pilot program, which allows communities to buy solar in bulk to lower costs.

☀️ Solar integrator Nexamp and Cathartes Private Investments announced in late August that they would partner to build the state's largest privately owned solar power plant. Construction will begin this fall on a 4.5 MW PV system, located on approximately 90,000 m² of industrial land in Westford.

 **Michigan** ➡️

Capacity added in 2010 (MW): 1.0
Estimated capacity to be added in 2011 (MW): 6.0

☀️ A Dow Corning facility in Thomas Township began production of monosilane gas in August. The gas is an ingredient of amorphous silicon solar cells and is used as a feedstock for solar silicon.

 **Minnesota** ⬇️

Capacity added in 2010 (MW): 1.8
Estimated capacity to be added in 2011 (MW): 1.7

☀️ Funds for Xcel Energy's Solar Rewards rebate in Minnesota were fully reserved for 2011, effectively shutting down the program for the rest of the year. Xcel continues to accept rebate applications, but only for projects planned for connection to the grid in 2012. The program budget next year will remain at \$4.6 million and Xcel anticipates that these funds »will be allocated quickly.«

Explanation of change:

🔄 *We have downgraded our 2011 estimate because of the Xcel rebate program shutdown.*

 **Mississippi** ➡️

Capacity added in 2010 (MW): 0.2
Estimated capacity to be added in 2011 (MW): 1.0

☀️ Calisolar, a California-based producer of polysilicon, wafers and cells, announced plans to build a 16,000 metric ton silicon production plant in Columbus. The \$600 million project includes \$75 million approved on Sept. 2 by a special session of the Mississippi State Legislature, plus other local incentives.

☀️ On Sept. 1, Mississippi Power Co. issued a tender for renewable energy projects with over 500 kW capacity that can deliver at least 100 MWh per year. The utility set a Sept. 30 deadline for developers to submit a notice of intent to bid and a final deadline for bids of Nov. 1. Projects within the utility service territory will be preferred, but projects outside the territory will be considered.

☀️ As noted above, the TVA reduced the system cap for its Generation Partners incentive program from 200 kW to 50 kW. See the update on Tennessee in this section for more details.

 **Missouri** ➡️

Capacity added in 2010 (MW): 0.5
Estimated capacity to be added in 2011 (MW): 14.0

☀️ Missouri-based Confluence Solar Inc., a developer of a solar ingot technology, was acquired by the New Hampshire-based firm GT Advanced Technologies Inc. for \$80 million.

 **Montana** ➡️

Capacity added in 2010 (MW): 0.0
Estimated capacity to be added in 2011 (MW): 0.0
 Our research found no significant updates this month.

 **Nebraska** ➡️


Capacity added in 2010 (MW): 0.2
Estimated capacity to be added in 2011 (MW): 1.0
 Our research found no significant updates this month.

 **Nevada** ➡️

Capacity added in 2010 (MW): 70.0
Estimated capacity to be added in 2011 (MW): 62.3
 Our research found no significant updates this month.

 **New Hampshire** ➡️

Capacity added in 2010 (MW): 0.5
Estimated capacity to be added in 2011 (MW): 2.0
 Our research found no significant updates this month.

 **New Jersey** ➡️

Capacity added in 2010 (MW): 140.0
Estimated capacity to be added in 2011 (MW): 241.0

☀️ Developer Quanta Renewable Energy Services selected Satcon Technology Corp. and Yingli Green Energy Holding Co. Ltd. to provide inverters and modules, respectively, for the 10 MW New Jersey Oak Solar PV plant in Fairfield Township.

☀️ Constellation Energy completed a 5.4 MW rooftop PV system on the distribution center of Toys R Us in Flanders.


☀️ Developer KDC Solar LLC awarded SPI Solar a contract to provide engineering, procurement and construction services for a 9.7 MW PV plant at an unnamed pharmaceutical company.

☀️ A study by Lux Research Inc. found that in the second quarter of 2011, New Jersey was in the top five global markets for return on solar project investments.


 **New Mexico** 

Capacity added in 2010 (MW): 108.3

Estimated capacity to be added in 2011 (MW): 133.2

 In late August, NRG Solar announced that its 20 MW (AC) Roadrunner Solar Generating Facility near Santa Teresa began generating electricity. The system, which uses First Solar modules on single-axis trackers, is the state's second-largest. The project will sell electricity to El Paso Electric under a 20-year power purchase agreement (PPA).

Explanation of change:

 *The timely completion of the Roadrunner facility adds another 25 MW (DC) to our estimate for 2011.*

 **New York** 

Capacity added in 2010 (MW): 22.6


Estimated capacity to be added in 2011 (MW): 90.0


 Cell maker SpectraWatt Inc. filed for Chapter 11 bankruptcy in US Bankruptcy Court in August.


 **North Carolina** 

Capacity added in 2010 (MW): 30.7


Estimated capacity to be added in 2011 (MW): 22.0

 SunEnergy1 is building a 5 MW rooftop installation at the Concord office of Shoe Show, a footwear retailer. The system uses BP Solar modules, Schneider Electric inverters and Panel Claw's ballasted mounting system. The project is scheduled for completion this year. Duke Energy has agreed to buy all the electricity.

 The town of Cary selected the Ashville-based developer FLS Energy to construct a 2.3 MW solar farm at a local water treatment plant and at Town Hall. FLS will finance and own the project, leasing town property and selling electricity to Progress Energy. The system will be completed next year, and after 6 years running, the town has an option to buy the system at a reduced price.

 As noted above, the TVA reduced the system cap for its Generation Partners incentive program from 200 kW to 50 kW. See the update on Tennessee in this section for more details.

Explanation of change:


 *The Shoe Show PV system adds 5 MW to this year's estimate.*

 **North Dakota** 

Capacity added in 2010 (MW): 0.0


Estimated capacity to be added in 2011 (MW): 0.0


Our research found no significant updates this month.

 **Ohio** 

Capacity added in 2010 (MW): 15.5

Estimated capacity to be added in 2011 (MW): 17.0

 State Senator Kris Jordan introduced SB 216 in September, a piece of legislation that would repeal Ohio's Renewable Portfolio Standard (RPS), which requires that the state's utilities obtain 25 percent of their retail energy supply from renewable sources by 2025.

 The Public Utilities Commission of Ohio issued a stipulation in September that will likely separate the pending 50 MW Turning Point Solar Project from the commission's pending consideration of the rate case of American Electric Power. The utility had hoped to receive cost recovery for the project as part of its rate case. Observers now expect the Turner Point Solar Project to be considered as its own case, and it is unclear whether that will hurt or help its prospects.

 **Oklahoma** 

Capacity added in 2010 (MW): 0.0


Estimated capacity to be added in 2011 (MW): 1.0

Our research found no significant updates this month.

 **Oregon** 

Capacity added in 2010 (MW): 9.8

Estimated capacity to be added in 2011 (MW): 21




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☀ The DOE finalized a \$197 million loan guarantee to Solopower Inc. to develop 400 MW of thin-film module manufacturing. Two of the three facilities now planned will be in Portland.

☀ Governor John Kitzhaber joined a groundbreaking ceremony at the Oregon Institute of Technology to begin construction on Solar by Degrees, a project that will total 5 MW on seven university campuses in the state. Utah-based Renewable Energy Development Corp., the project developer, will sell power to the universities under 25-year PPAs.

☀ Organizers held a groundbreaking ceremony for the 1.3MW Baldock Solar Highway project, a 1.3MW project at a rest stop south of Wilsonville. It is the second project in the Oregon Department of Transportation's efforts to reduce its carbon footprint.

☀ Advanced Energy of Bend and SolarWorld Industries America of Hillsboro were awarded \$3.1 million and \$4.6 million, respectively, as part of the DOE's September award of \$145 million for solar R&D projects.

☀ US Senator Ron Wyden sent a letter to President Barack Obama in September urging him to take action to protect the US solar industry from Chinese imports. The letter notes recent bankruptcies in the sector and repeatedly mentions «unfair» trade practices on China's part in its plea to save US jobs through trade action.

Estimated capacity to be added in 2011 (MW): 1.0

☀ In late August, the Rhode Island Economic Development Corp. announced a request for proposals (RFP) to support non-utility-scale renewable projects, including solar. Using \$2.5 million in federal stimulus funds, the RFP will help projects already in the development phase move to construction. Supported projects must be completed by March 2012 and applications are due Sept. 22.



South Carolina

Capacity added in 2010 (MW): 0.5

Estimated capacity to be added in 2011 (MW): 3.0

☀ Ulbrich, a specialty metal manufacturer, set up a PV technology business based in Westminster to supply copper wire for solar cell tabbing, stringing and bus wires.



South Dakota

Capacity added in 2010 (MW): 0.0

Estimated capacity to be added in 2011 (MW): 0.0

Our research found no significant updates this month.



Pennsylvania

Capacity added in 2010 (MW): 58.0

Estimated capacity to be added in 2011 (MW): 91.0

☀ On Sept. 13, real estate investment firm APF Properties held a dedication ceremony for a 1 MW rooftop PV system on one of its office buildings in Fort Washington.



Rhode Island

Capacity added in 2010 (MW): 0.7



Tennessee

Capacity added in 2010 (MW): 3.5

Estimated capacity to be added in 2011 (MW): 17.0

☀ As noted above, the TVA said on Sept. 6 that it would reduce the system cap on projects funded by its Generation Partners incentive program from 200 kW to 50 kW. The change took effect throughout TVA's seven-state territory starting Sept. 16. The system cap does not alter the incentive level of 12¢ per kWh, which is guaranteed for 10 years, plus \$1,000 up front.

☀ At the Tennessee Valley Solar Solutions Conference in early August,

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the Tennessee Solar Institute (TSI) announced \$1.2 million in additional funds for its installation grant program. The money was made available on a first-come, first-served basis for projects up to 60 kW. By Aug. 17, TSI had received requests for about five times the available funds and stopped accepting new applications.

☀ Sustainable Future is designing a 198 kW PV system for BlueCross BlueShield of Tennessee's Gateway Building in downtown Chattanooga. TSI provided \$243,240 for the project. Sharp Manufacturing Co. of America will supply solar modules for the installation from its production facility in Memphis.

Explanation of change:

🔄 *The increased estimate reflects the additional TSI grant funds.*

 **Texas** 

Capacity added in 2010 (MW): 17.5

Estimated capacity to be added in 2011 (MW): 58.0

☀ As of Sept. 9, El Paso Electric Co. had about \$520,000 of unclaimed solar rebate funds still available this year. Southwestern Electric Power Company (SWEPCO) had \$193,000 unclaimed. The incentives cover \$1.75 to \$2.00 per W on residential and commercial installations. If developers don't claim these funds and complete their projects by early December, the leftover money is forfeited and can't be used on future PV systems.

☀ Green Mountain Energy Co. commissioned a 47.5 kW rooftop PV system on the administration building at the Fort Worth Zoo. The utility donated \$140,000 for the installation from its Sun Club program, funded by \$5 monthly contributions from customers who support solar energy. The program has paid for 30 solar installations since it was started in 2002.

☀ El Paso Electric added 25 MW of solar generating capacity this summer from two utility-scale projects. But both installations, the 20 MW Roadrunner Solar Generating Facility and the 5 MW Hatch Solar Energy Center, are sited out of state in New Mexico.

Explanation of change:



🔄 *Applications have been trickling in so slowly for the El Paso Electric and SWEPCO solar rebates that there's a good chance funding for as much as 1 MW of capacity will be left on the table at year's end.*

 **Utah** 

Capacity added in 2010 (MW): 1.6

Estimated capacity to be added in 2011 (MW): 1


Our research found no significant updates this month.

 **Vermont** 

Capacity added in 2010 (MW): 12.5

Estimated capacity to be added in 2011 (MW): 24.0

☀ In late August, a group of protesters descended on the state Capitol in Montpelier to urge Governor Peter Shumlin and the utility Green Mountain Power to do more solar projects and fewer utility-scale wind plants.

 **Virginia** 

Capacity added in 2010 (MW): 1.5

Estimated capacity to be added in 2011 (MW): 2.5

☀ Dominion Virginia Power asked the State Corporation Commission to approve standby charges for homeowners who have PV systems with between 10 and 20 kW of generating capacity. The utility wants to collect these charges as compensation for infrastructure costs.

☀ As noted above, the TVA reduced the system cap for its Generation Partners incentive program from 200 kW to 50 kW. See the update on Tennessee in this section for more details.

 **Washington** 

Capacity added in 2010 (MW): 2.0

Estimated capacity to be added in 2011 (MW): 3.3

☀ As part of the DOE's SunShot Initiative, the University of Washington in Seattle was awarded \$492,865 to develop nanocrystal-based inks.

 **West Virginia** 

Capacity added in 2010 (MW): 0.1

Estimated capacity to be added in 2011 (MW): 1.0



Our research found no significant updates this month.

 **Wisconsin** 

Capacity added in 2010 (MW): 3.0

Estimated capacity to be added in 2011 (MW): 2.5

☀ According to the Daily Jefferson County Union newspaper, the Jefferson Common Council in mid-August approved floating \$80 million in bonds to finance the construction of a 20 MW PV plant. The OK allows the developer, Green States Energy Inc., to move forward with financing activities for Jefferson Sun One, which will be located on a 400,000 m² plot of land in the city of Jefferson.

 **Wyoming** 

Capacity added in 2010 (MW): 0.1

Estimated capacity to be added in 2011 (MW): 1.0

Our research found no significant updates this month.

 **Ontario** 

Capacity added in 2010 (MW): 150.0

Estimated capacity to be added in 2011 (MW): 382.4

☀ In order to ease development of micro-feed-in-tariff (microFIT) projects held back by interconnection constraints, the Canadian Ministry of Energy issued a directive to the Ontario Power Authority (OPA) to allow microFIT contract holders who were approved before Dec. 8, 2010, to combine or relocate projects with written notice to the OPA.

☀ The Export-Import Bank of the United States authorized two loan guarantees totaling \$456 million to finance First Solar projects that will sell electricity under 20-year Renewable Energy Standard Offer Program (RESOP) contracts. The financings are the bank's largest yet to support solar exports. The two guarantees support borrowers for a 50 MW project split among the Ontario townships of Amherstburg, Belmont and Walpole (\$236.7 million) and a 40 MW project in St. Clair (\$219 million).

Explanation of change:

🔄 *There are several factors at play in our downward revision to the 2011 estimate for Ontario. Feed-in-tariff (FIT) projects continue to develop very slowly, with only 3 MW added between Aug. 5 and Sept. 2. The easing of rules for microFIT projects facing interconnection restraints could compensate partly, however, for slow movement on the FIT side. It's also possible the market could open up at the end of the year, once uncertainty around the October elections and the 2-year review begins to settle.*