Solar Ready II Zoning for Solar PV







Delaware Valley Regional Planning Commission



- MPO for Greater Philadelphia Region
- Region is bi-state, nine counties surrounding and including Philadelphia
- Planning areas
 - Transportation Planning, Air Quality, Smart Growth Planning, Environmental Planning, Housing and Economic Development, Population and Employment forecasts, Long Range Planning
 - Office of Energy and Climate Change:
 - Regional greenhouse gas inventory
 - Climate Change Adaptation Planning
 - Preparing the region for alternative energy
 - Electric Vehicle Readiness Plan
 - Municipal energy management assistance
 - Pennsylvania Partnership to Promote
 Natural Gas Vehicles

U.S Department Of Energy SunShot Initiative Rooftop Solar Challenge



U.S Department of Energy SunShot Initiative

The U.S. Department of Energy SunShot Initiative is a collaborative national effort that aggressively drives innovation to make solar energy fully cost-competitive with traditional energy sources before the end of the decade. Through SunShot, DOE supports efforts by private companies, academia, and national laboratories to drive down the cost of solar electricity to \$0.06 per kilowatt-hour.

U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge

The U.S. Department of Energy SunShot Initiative Rooftop Solar Challenge incentivizes regional awardee teams to make it easier and more affordable for Americans to go solar. By streamlining permit processes, updating planning and zoning codes, improving standards for connecting solar power to the electric grid, and increasing access to financing, teams will clear a path for rapid expansion of solar energy and serve as models for other communities across the nation.

What is SunShot targeting?





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Up to 50% over 64% of the cost of a solar installation



Solar Ready II

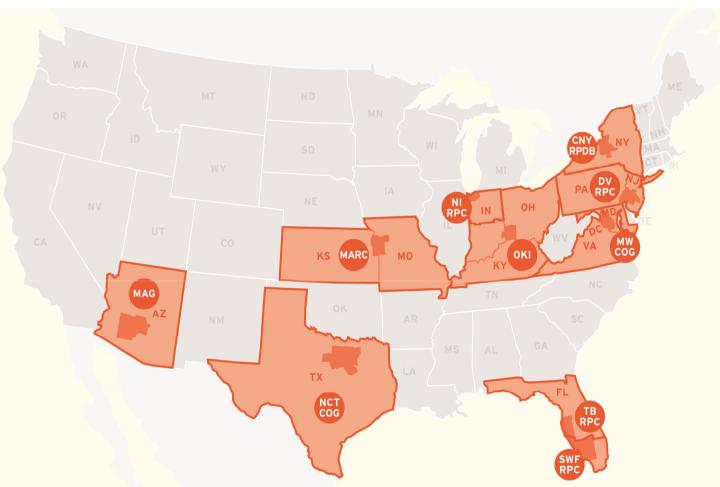
- Partnering with Mid-America Regional Council (MARC), National Association of Regional Councils (NARC), Meister Consultants Group (MCG), and Council of State Governments (CSG).
- Goals are to implement solar best management practices, training materials and methods, and other proven implementation strategies previously established by MARC's 2012 Solar Ready KC Initiative.
- Ultimately will result in more streamlined and standardized solar practices, and will achieve measurable improvements in solar market conditions and access for ten million people across the US.

SOLAR READY II REGIONAL PARTNERS





- Maricopa Association of Governments
- MW Metropolitan Washington Council of Governments
- MARC Mid-America Regional Council
- NCT North Central Texas
 Coc Council of Governments
- NI Northwestern Indiana Regional Planning Commission
- Ohio-Kentucky-Indiana Regional Council of Governments
- SWF RPC Regional Planning Council
- TB Tampa Bay Regional Planning Council









SRII Grant Details – DVRPC

Major Goals

Identify existing conditions and barriers in PA and NJ

Develop/Implement Plan Reduce Soft Costs to Solar PV Adoption

- Light technical assistance to 10-30 municipalities
- Training on BMPS

Funding Amount

\$90,000 (\$75,000 plus \$15,000 if goals are met)

Timeframe

18 to 30 months (depending on accomplishments met)

Major Deliverables and Milestones

Subtask	Target Date
Engage stakeholders	Dec. 2013 and ongoing
Evaluate existing processes/policies and update with Best Management Practices (BMPs)	February 2014 and ongoing
Jurisdiction Questionnaires and Data Gathering	March 2014 and ongoing
Engage 10-30 local governments as committed participants	March 2014 and ongoing
Conduct trainings on determined best practices	May 2014 and ongoing

Solar Activity in the Region

- DVRPC's Alternative Energy Ordinance Working Group
- County-level planning activities and municipal assistance
- Sustainable Jersey "Solar Friendly" actions
- PennFuture SunshineTEAM
- Conservationtools.org

What we've heard...

- Permitting and inspection process
- Utility interconnection
- Financing
- First responder safety
- Customer acquisition

Best Management Practices

Improve Prequalify Utility Permitting Process Installers Coordination Process Improve Solar **Planning** Access Distribute **Enact Solarize** Engage Local Financing & Cost Survey Lenders Adoption Program to Installers

Solar Permitting Best Practices

Make information available

- Post information on-line.
- Provide Checklists.

Streamline permit application submission

- Adopt standard permit submission package.
- Allow on-line submissions.

Calculate most appropriate fee

Allow on-line payment.

Streamline review and inspection requirements

Train staff on review process.

Consider streamlining reviews

• Philly – electric only for systems that meet certain requirements. Solar ABCs too.

Develop criteria for an expedited permit process

Simplify the Inspection Process

- Conduct a single, comprehensive inspection instead of requiring multiple appointments.
- Schedule narrower windows of time or specific appointment times for inspections.

Shorten permit approval times

For More Information

Liz Compitello
Research Analyst
Energy and Climate Change Initiatives
Delaware Valley Regional Planning
Commission
ecompitello@dvrpc.org
215.238.2897

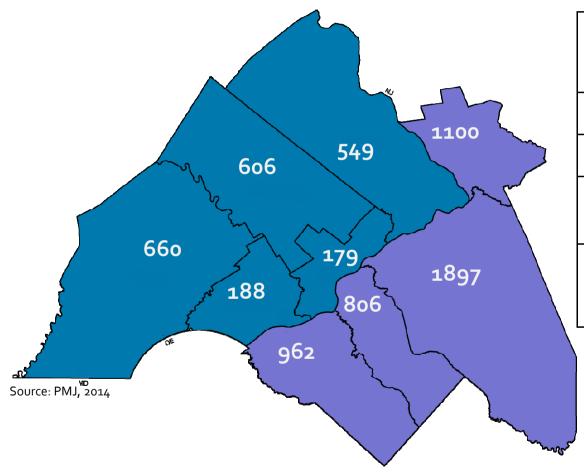
Justin Dula
Manager
County & Regional Planning
Delaware County Planning
Department
dulaj@co.delaware.pa.us
610-891-5219

www.dvrpc.org/EnergyClimate/aeowg.htm

www.narc.org/solarready

PV Installations in DVRPC Region

Count of solar PV systems installed by county

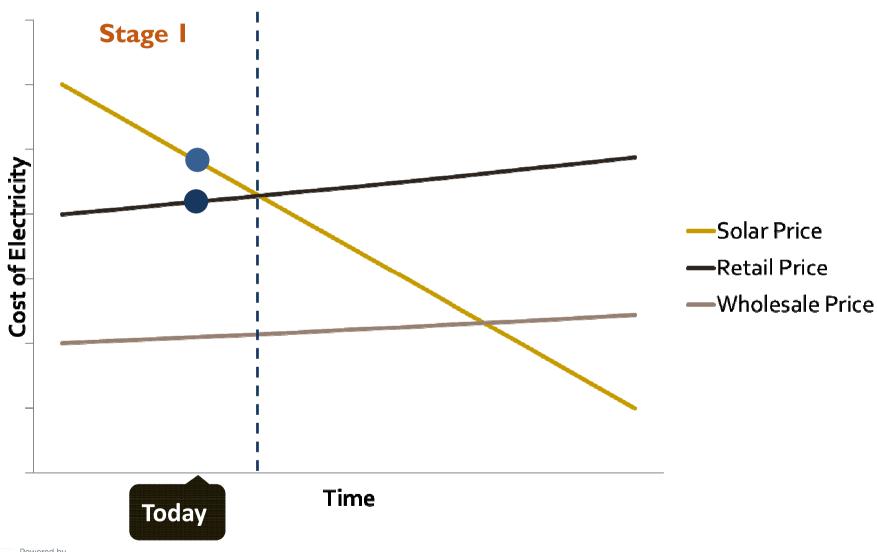


	PA	NJ
National Rank	10 th	2 nd
Av. System Size	2.8 kW	5.4 kW
SREC Price	\$40.00	\$160
\$/W installed (residential)	\$3.84	\$2.68
\$/W installed (commercial)	\$4.61	\$3.96

Source: NREL, 2014; PMJ, 2014; srectrade.com

Solar installations spiked in 2010, but demand still present

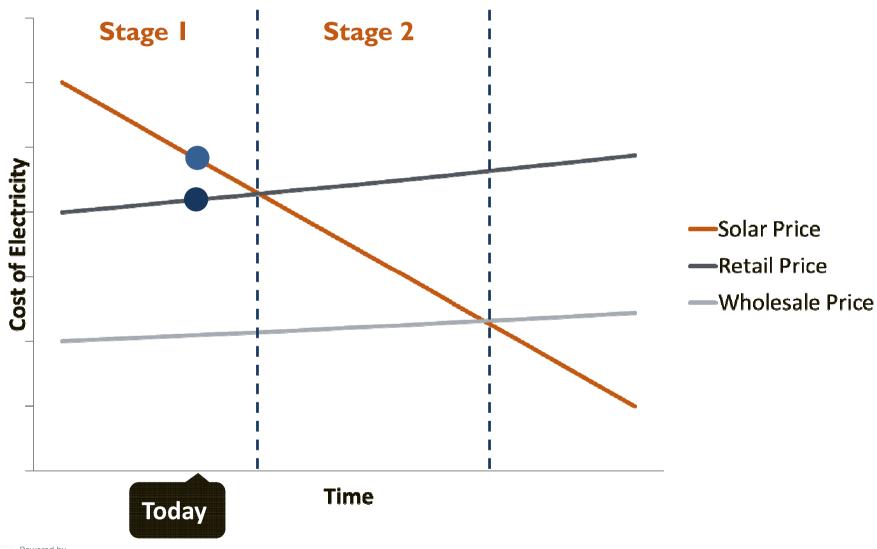
The Cost of Solar in the US





Source: Solar Electric Power Association

The Cost of Solar in the US





Source: Solar Electric Power Association

The Cost of Solar in the US

Comparison of US and German Solar Costs

