#### Solar Action Webinar Series: Innovation and Success in Planning and Zoning July 24, 2013





### Why we're here: The Big Picture



#### **Panel Prices Plummeted**





Source: Mints, P. (2011). Photovoltaic Manufacturer Shipments, Capacity, & Competitive Analysis 20010/2011. Report # NPS-Supply6. Palo Alto, CA: Navigant Consulting Photovoltaic Service Program.



"Even if you paid nothing for the hardware, you'd still pay thousands of dollars to install a residential solar power system."

- Former Secretary Chu





# What is SunShot targeting?



# Up to **50%** of the cost of a solar installation



#### The Planning and Zoning Puzzle





## **Rooftop Solar Challenge Successes**

## Permitting

- 40% Faster
- 12% Cheaper



#### **Overall Time Saved:** One Week







## **Today's Presenters**

- Amy Heart, Solar Program Manager
  - City of Milwaukee
- Jeffrey Naftal, Borough Manager
  - Borough of Dormont in Pennsylvania

- Mayana Rice, Planning and Zoning Administrator
  - Greater Bermidji Area Joint Planning Board



## Creating a Foundation for Solar

SunShot Initiative Solar Action Series: Innovation and Success in Planning and Zoning July 24, 2013





U.S. Dept. of Energy Support Solar America Cities & SunShot Initiative

#### GOALS

- Increase installations
- Increase installers
- Reduce cost of solar
- Support solar supply chain
- Partnership: public-private







#### SunShot Initiative Rooftop Solar Challenge I Reducing Soft Costs

- Planning and Zoning
- Permitting
- Policies: net metering, 3<sup>rd</sup> party
- Financing Solutions
  - Low-interest loan program
  - Neighborhood Group Buys
  - Milwaukee Power Pack







## Milwaukee Solar Zoning

#### Wis. Stat. § 66.0401: Solar Access Rights

No political subdivision may place any restriction on install of solar energy system unless satisfies one of following:

- I. Serves to protect public health or safety. ("welfare" excluded)
- 2. Does not significantly increase cost of system or decrease efficiency.
- 3. Allows for alternative system of comparable cost and efficiency.





## Milwaukee Solar Zoning

#### Local Solar Zoning Ordinance: General Requirements

- Solar installation = accessory
- Rooftop: no restrictions
- Ground mount: front and side set backs requested (no more than 2')
- Points back to state statute language

#### Historic Preservation Requirements

- Provides for a review process, most likely staff approval (not committee level)
- Reviews may require installer to provide multiple options, costs, and site plans.







## Milwaukee Solar Zoning

#### **Local Solar Zoning Ordinance:**

#### Solar Farm Requirements

Solar Farm = Primary use

ZONING DISTRICT	USE
Residential	Permitted
Commercial	Special
Commercial Services	Permitted
Downtown	Special
Industrial	Permitted
Special (Schools)	Permitted
Lakefront Overlay	Special





## **Milwaukee Permitting**

#### First Things First

- What does <u>current</u> structure look like?
- Everyone in same room
- Focus on ease for staff and solar community







## **Milwaukee Permitting**

#### First Things First

- What does <u>current</u> structure look like?
- Everyone in same room
- Focus on ease for staff and solar community

#### Provide Resources / Examples

- Step by step instructions
- Samples of completed forms (expectations)
- Checklist for submission
- Contact name and number





## **Milwaukee Permitting**

#### **Process and Policy Improvements**

- Consistent cost (I fee, under \$100)
- Expedited permit process
  - <u>www.solarabcs.org/permitting</u>
- Reduce days to approve
- Improve inspection: require training
- Online submission
- Contact name and number







Milwaukee Shines www.MilwaukeeShines.com www.wisolar.org

Amy Heart Solar Program Manager City of Milwaukee aheart@milwaukee.gov 414-286-5593











## Borough of Dormont, PA

# NREL Planning and Zoning Webinar

July 24, 2013 Jeffrey Naftal, Borough Manager

## What We Did



- The Congress of Neighboring Communities (CONNECT), in partnership with PennFuture, was awarded a SunShot Rooftop Challenge Grant to develop a model Photovoltaic Zoning Ordinance for the City of Pittsburgh and surrounding communities.
- The Borough of Dormont, as a CONNECT community, was invited to participate in this effort and agreed to do so.
- After the model ordinance was promulgated, we implemented the model ordinance for the Borough following Planning Commission and Allegheny County approval.





#### KEY #I – THE JOINT PROCESS INVOLVING ALL MUNICIPALITIES

- The development of the model ordinance would never have been accomplished without the participation of so many varied municipalities.
- Each municipality has its own unique situation, its own unique needs and wants, and its own unique physical characteristics. Blending those makes the model work.





#### KEY #2 – INVOLVING ALL AREAS OF THE MUNICIPALITY

- Just as the varied municipalities helped achieve an ordinance that could be used by everyone, the participation of municipal attorneys, engineers, building officials, elected officials, and administration was critical to this process.
- By involving all of these various groups, potential problems were addressed during development of the model ordinance, not after attempting to implement the ordinance.





#### KEY #3 – PROJECTS LIKE THIS NEED A CHAMPION

- Those municipalities without a champion for this did not participate in the process and are not moving forward with implementing the model ordinance.
- The champion has to encourage all levels of the municipality to participate in the process and convince the elected officials and public that this is important.
- While the champion does not have to be a top administrator they must have the support of the top administration officials.



## **Links of Interest**



- The Ordinance can be found on our website at <u>www.boro.dormont.pa.us</u> under the "Departments" tab and then on the "Environmental Information" page.
- Click on <u>www.connect.pitt.edu</u> for more information on CONNECT, this project and their other projects.





## Bemidji Minnesota solar...because of our citizens

Mayana Rice, AICP Planning and Zoning Administrator Greater Bemidji Area Joint Planning Board

> www.jpbgba.org www.ci.bemidji.mn.us www.bemidjitownship.com www.northerntownship.com









## **Greater Bemidji Area**

Participate in a ''joint planning'' process Planning area 72 SQ Miles First City on the Mississippi

Population:

City – 13,500 Area – 20,000 Within 150 Miles – 100,000







Lumberjack Chic http://www.nicholasjackson.net/





## **The Back Story**

Event Center 2010 – South Shore PUD Sustainability Committee City of Bemidji Green Steps Cities Minnesota Solar Challenge Comprehensive Plan Updated Zoning Code









### **Our Future**

#### Planned Unit Developments Comprehensive Plan Solar Mapping BSU – NWTC Renewable Energy & Sustainable Technologies



## **Questions**?

