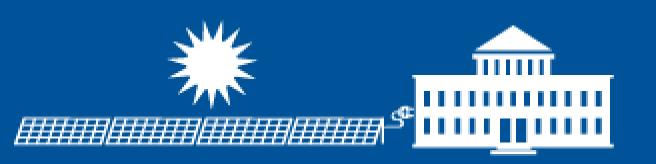
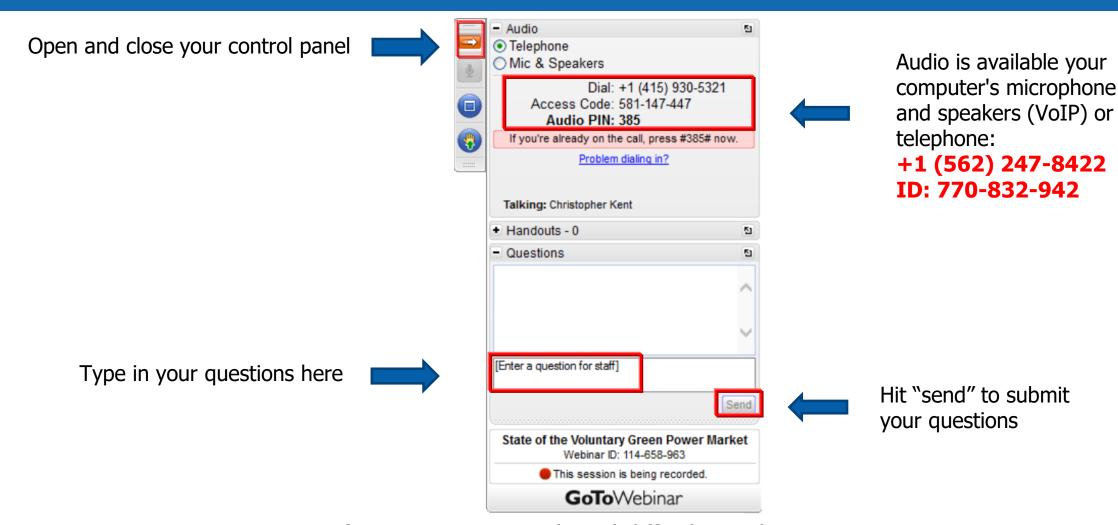
Introduction to the Local Government Solar Project Portal

April 25, 2018



Webinar Logistics



If you experience technical difficulties, please contact Grant Strauss at: Grant.Strauss@erg.com

Speakers and Agenda

- Speakers
 - James Critchfield, U.S. EPA
 - Jenny Heeter, National Renewable Energy Laboratory
- Agenda
 - Background
 - Survey Questions
 - Local Government Solar Project Portal Overview
 - Share Your Solar Project Experience
 - Project Development Pathway & Resources
 - Frequently Asked Questions
 - How to Participate
 - NREL training assistance
 - Questions



Background

- The U.S. EPA is collaborating with the U.S. Department of Energy (DOE) and the National Renewable Energy Laboratory (NREL) to advance solar utilization among local governments
- Objective: To support municipalities in meeting their environmental, energy and economic goals through solar project development which serves municipal operations
- **Timing:** Over the next 2-years, EPA will be engaging with local governments across the country that are considering developing solar projects
- Value: Recognition for developing solar projects, access to valuable tools and resources, peer exchange opportunities, webinars on key solar development issues and access to in-person regional/state workshops



Quick Attendee Poll

What is your municipality's total current installed solar PV capacity serving government operations (roof and ground systems)?

[Select One]

- a) None
- b) <100 kW
- c) 100 kW to 1 MW
- d) >1 MW
- e) Unknown



How much <u>new</u> solar capacity is your municipality wanting to install over the next 2-years to serve government operations?

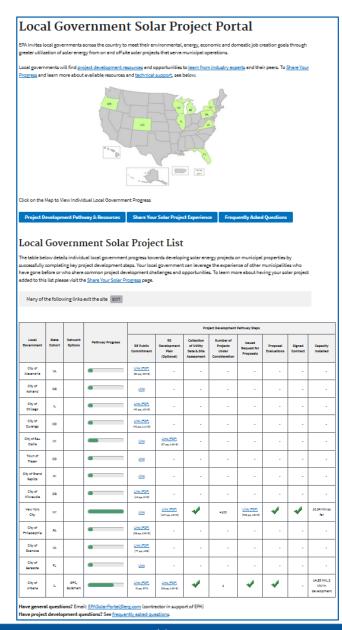
[Select One]

- a) No immediate plans to install solar
- b) <100 kW
- c) 100 kW to 1 MW
- d) >1 MW
- e) Unknown



Solar Project Portal Overview

- Solar Project Portal Home Page
 - Recognizes municipalities seeking to develop solar projects
 - The project list serves as a peer exchange platform where you can identify examples of milestones achieved by other municipal governments
- Project Development Pathway & Resources
 - Identifies in detail the 7 steps of project development
 - Offers key resources and tools to assist you in achieving each step
- Share Your Solar Project Experience
 - Describes how to have your municipality listed on the Portal Home Page
 - Here you will find information on how to update EPA on your progress
 - Find information regarding upcoming Peer Exchange and Workshop events
- Frequently Asked Questions (FAQ)
 - Details expert answers to common project development questions
 - Have a question? Submit it on this page and receive an answer





Project Development Pathway

ESTABLISH A SOLAR PROJECT DEVELOPMENT AND/OR RENEWABLE ENERGY USAGE GOAL

Establishing a publicly available solar project development and/or renewable energy usage goal helps bring clarity and focus to the process of developing solar projects. It gives your local government direction and affirms your intent to both you and your stakeholders This is the minimum requirement to be listed on the Portal.

DEVELOP A PROJECT DEVELOPMENT PLAN

One of the best indicators of project development success includes use of a solar project development plan. The plan will detail your local government's specific set of circumstances and chart a pathway. A plan is optional to be listed on the Portal.

ASSESS YOUR SOLAR SITE OPPORTUNITIES, CATALOG SITE INFORMATION, AND COLLECT YOUR UTILITY DATA

It is important to understand your solar site opportunities, which starts with collecting site information and utility data. This information becomes critical when seeking project proposals from developers and is the basis for conducting site assessments to identify the most suitable sites.

BUILD AND COMMISSION YOUR PROJECT

Once your project is built and generating solar power, EPA would be excited to share your success. Send us an email and provide us a photo of your new project. Email EPASolarPortal@erg.com to provide us with an update and photo of your new project.

SELECT A PROJECT PROPOSAL AND SIGN A CONTRACT

You are in the home stretch!
After you identify the best
project opportunity, it is time
to sign a contract. Once you
select a project and sign a
contract, be sure to let EPA
know so we can share your
success with your peers.

REVIEW AND EVALUATE YOUR PROJECT PROPOSALS

An RFP will generally result in one or more project proposals from developers. Evaluating these project proposals objectively can be challenging, yet is critical for selecting the best project that meets your goals.

DEVELOP AND ISSUE A SOLAR REQUEST FOR PROPOSALS (RFP)

An RFP is a solicitation for products and services that outlines the general terms and conditions of request from market suppliers. For solar, this can involve a wide array of requirements. If you are interested in making claims about using renewable energy, be sure to retain the Renewable Energy Certificates (RECs) from your project.



Solar Project List

Local Government Solar Project List

The table below details individual local government progress towards developing solar energy projects on municipal properties by successfully completing key project development steps. Your local government can leverage the experience of other municipalities who have gone before or who share common project development challenges and opportunities. To learn more about having your solar project added to this list please visit the Share Your Solar Progress page.

Many of the following links exit the site EXIT

		Network Options	Pathway Progress	Project Development Pathway Steps							
Local Government	State Cohort			RE Public Commitment	RE Development Plan (Optional)	Collection of Utility Data & Site Assessment	Number of Projects Under Consideration	Issued Request for Proposals	Proposal Evaluations	Signed Contract	Capacity Installed
New York City	NY			Link	<u>Link (PDF)</u> (154 pp, 13MB)	4	>100	<u>Link (PDF)</u> (426 pp, 16MB)	4	*	10.34 MW so far
City of Philadelphia	PA		•	<u>Link (PDF)</u> (28 pp, 2.8MB)	-	-	-	-	-	-	-
City of Roanoke	VA		•	<u>Link (PDF)</u> (77 pp, 1GB)	-	-	-	-	-	-	-
City of Sarasota	FL		•	Link	-	-	-	-	-	-	-
City of Urbana	IL	GPC, SolSmart		<u>Link (PDF)</u> (3 pp, 67K)	<u>Link (PDF)</u> (26 pp, 1.9MB)	4	1	4	4	-	14.88 MW, 2 MW in development



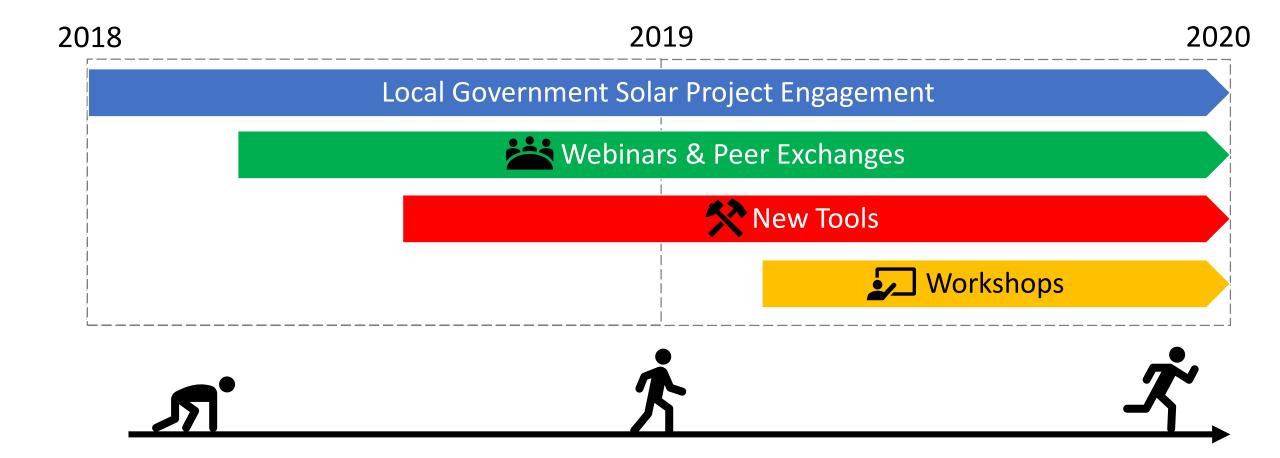
Currently Listed Local Governments

- City of Alexandria, VA
- City of Ashland, OR
- City of Chicago, IL
- City of Durango, CO
- City of Eau Claire, WI
- Town of Fraser, CO
- City of Grand Rapids, MI

- City of Milwaukie, OR
- New York City, NY
- City of Orlando, FL
- City of Philadelphia, PA
- City of Roanoke, VA
- City of Sarasota, FL
- City of Urbana, IL



General Timeline





Quick Attendee Poll

For new solar projects targeted for development by 2020, where are you in terms of your progress to date?

[select one]

- a) We have not started the process of developing projects
- b) We have established goal for RE use/project development
- c) We have collected utility and site assessment data
- d) We have issued an RFP or are evaluating project proposals
- e) We have signed a contract or the project is being built



What solar project development barriers have you experienced to date?

[select all that apply]

- a) Institutional buy-in, approval or resource constraints
- b) Site opportunity assessments
- c) Understanding project financing options
- d) RFP development and issuance
- e) Project proposal evaluation and selection



How to Plug-in to the Portal?

How to Get Plugged-in and Recognized

- Email EPA your publicly available goal/commitment EPASolarPortal@erg.com
- Be sure to include in your email:
 - Local government point of contact information (e.g., name, phone, email, mailing address)
 - Provide a link or document that details your publicly available commitment or goal
- Your goal/commitment can be evidenced by:
 - Public webpage or sustainability report; government resolution, ordinance, or bylaw; participation in third-party commitment programs (i.e., <u>ICLEI's 100% RE</u> <u>Cities</u>)



Update EPA On Your Progress Over Time

- Share your progress by emailing EPA a progress update spreadsheet at EPASolarPortal@erg.com (spreadsheet available online)
- Substantiate your solar development progress by providing publicly available examples of your step-by-step achievements
 - Step 4 Example: Provide EPA a link to your solar RFP when it is issued
- EPA will post and track your examples on the Portal's home page
 - Other municipalities will be able to review, learn from and leverage progress examples from other listed municipalities
- EPA will check in with you quarterly to ask about your progress



Solar Project Development Progress Spreadsheet

A	A	В	Cuida	D	E	F	G 	Н	ı
ł			Guidar	nce for Submitting Ma					
ŀ	Portal web address:								

Quick Attendee Poll

Would your municipality like to be added to the Portal? [Select One]

- a) Yes, I am already listed
- b) Yes, Please contact me about being listed
- c) No, I am not interested at this time
- d) Undecided, I need more information





Program Overview



Available Incentives

23

Posted Content

https://www.nrel.gov/technicalassistance/local-governments.html

Module 2: Screening and Identifying PV Projects

Introduction



Text version

Training



Text version

Case Study



Text version

- Goal Setting and Clarification
 - Screening and Identifying PV Projects
 - IncludingREopt Litedemo
 - Detailed Site
 Evaluation, Project
 Validation, and
 Permitting

REopt Demo



Text version

Download Module 2 Presentation 日

Upcoming Content

- PV & Resilience
- System Advisor Model 101 Training
- Policies and Incentives
- PV Finance and Procurement
- Municipal Solar RFP Template

 Check the website or contact me (<u>jenny.heeter@nrel.gov</u>) if you'd like to be notified when new resources are posted.

Q&A Session

Questions?

- James Critchfield, U.S. EPA (<u>Critchfield.James@epa.gov</u>)
- Jenny Heeter, NREL (<u>Jenny.Heeter@nrel.gov</u>)

Portal Website: https://www.epa.gov/repowertoolbox/local-government-solar-project-portal

Submit your municipal goal to get listed: EPASolarPortal@erg.com

