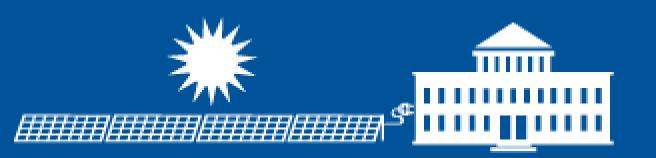
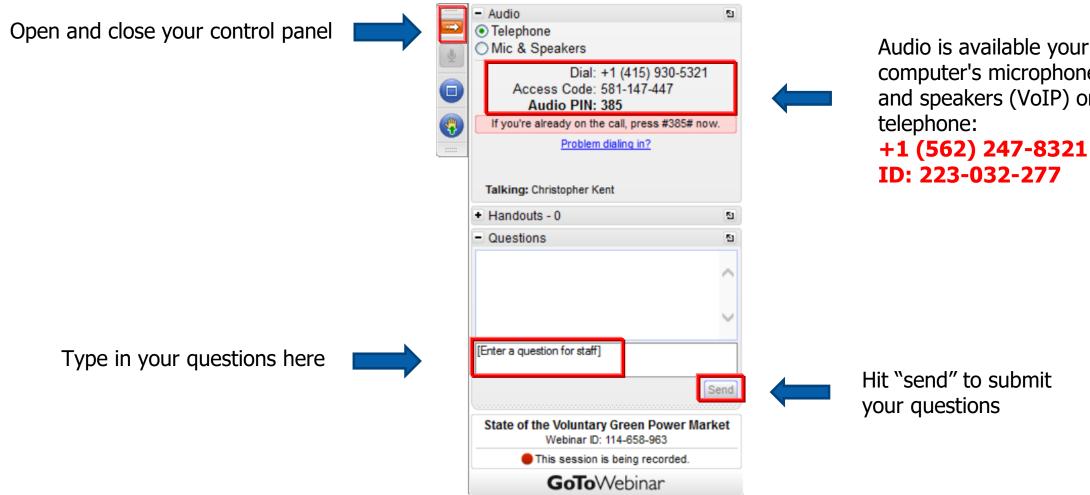
Guidance for Setting a Renewable Energy Goal

June 27, 2018



Webinar Logistics



Audio is available your computer's microphone and speakers (VoIP) or

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

Speakers and Agenda

- Speakers
 - Christopher Kent & Verena Radulovic, U.S. EPA
 - Adam Hanks, City of Ashland, OR
 - Christopher Castro, City of Orlando, FL
- Agenda
 - Solar Project Portal
 - Renewable Energy Goal Setting Overview
 - Guidance Document
 - Case Studies
 - City of Ashland, OR
 - City of Orlando, FL

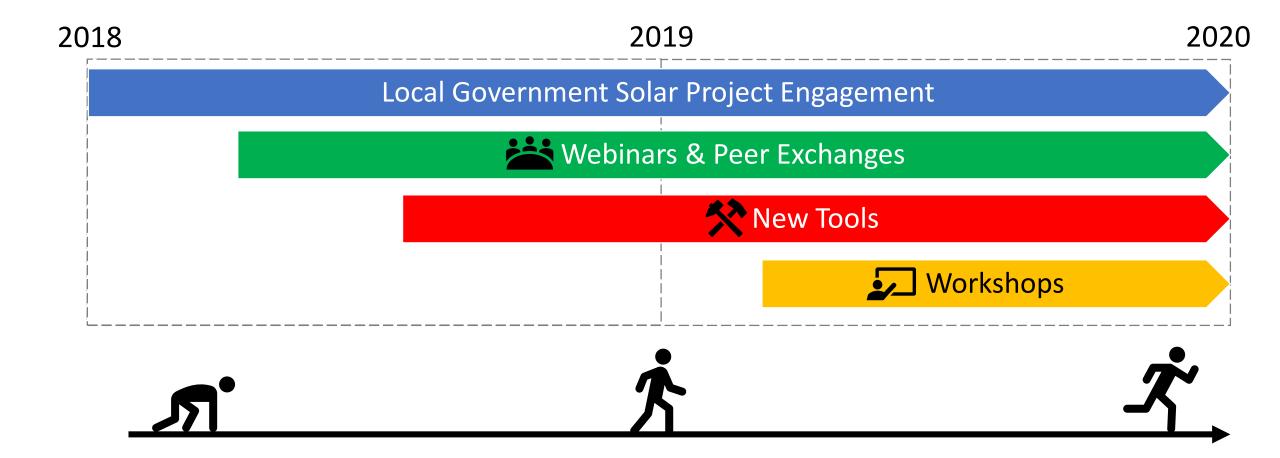


Solar Project Portal Background

- EPA is collaborating with DOE and NREL to advance solar utilization among local governments
- **Objective:** To support municipalities in meeting their environmental, energy and economic goals through solar project development that 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



General Timeline





Currently Listed Local Governments

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

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



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

Local Government Solar Project Portal

EPA invites local governments across the country to meet their environmental, energy, economic and domestic job creation goals through greater utilization of solar energy from on and off site solar projects that serve municipal operations.

Guidance for Submitting Solar Project
 Progress Spreadsheet (XLSX) (1 pg, 19 K)
 Solar Brainet Dandermort Pandermort

Local governments will find project development resources and opportunities to learn from industry_experts and their peers. To <u>Share Your Progress</u> and learn more about available resources and technical support, see below.



Click on the Map to View Individual Local Government Progres

Project Development Pathway & Resources Share Your Solar

Frequently Asked

Webinars

Local Government Solar Project List

Local Government	Pathway Progress	Step 1: RE Public Commitment	Step 2: RE Development Plan	Step 3: Collection of Utility Data & Site Assessment	Step 4: Issued RFP	Step 5: Proposal Evaluations	Step 6: Signed Contract	Step 7: New Installed Capacity
City of Durango, CO	•	Environmental Action Plan (PDF) (42 pp, 1.1MB)						
Town of Fraser,	•	Municipal Webpage						
Town of Fairfield, CT	•	Environmental Action Plan (PDF) (11 pp, 885K)						
City of Orlando, FL		Municipal Webpage	Environmental Action Plan (PDF) (35 pp, 1.7MB)					
City of Sarasota, FL	•	Municipal Webpase						
City of Chicago, IL	•	Environmental Action Plan (PDF) (40 pp, 12MB)						
City of Urbana,		Council Resolution (PDF) (5 pp, 67K)	Climate Action Plan (PDF) (26 pp, 1.9MB)	4	RFP at Municipal Landfill	*		
City of Grand Rapids, MI	•	Municipal Webpage						
City of Creve Coeur, MO		Municipal Webpase	Climate Action Plan					
New York City, NY		Municipal Webpage	Solar Strategy (PDF) (154 pp, 13MB)	4	Bundled Rooftop Solar RFP (PDF) (428 pp, 18MB)	4	4	
City of Ashland, OR	•	Municipal Webpage	Climate Action Plan (PDF) (128 pp, 50MB)					



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.



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>)



Guidance for Setting a Renewable Energy Goal

Why might I want to set a RE goal?

- Environmental & health benefits
- Local economic benefits & job creation
- Energy cost savings & budgetary risk reduction
- Energy system or infrastructure resiliency
- Community pride due to environmental leadership



Why is it important to set a RE goal publicly?

- Influence your community's broader energy decisions
- Lead by example
- Enables you to measure progress over time
- Gets internal stakeholders on the same page
- Increases your chance of success— of accomplishing your objectives



Quick Attendee Poll

Poll Question #1

What is the main objective prompting your municipality to consider setting a RE Goal?

[select one]

- a) Environmental & health benefits / Env. leadership
- b) Local economic benefits & job creation
- c) Energy cost savings / long-term budgetary risk reduction
- d) Energy system or infrastructure resiliency
- e) Other (please specify)



How might a municipality express its RE goals?

A municipality can announce a commitment publicly by:

- Posting on a municipal webpage
- Publishing an environmental action plan
- Passing a legally binding municipal resolution, which formally commits to achieving a certain goal by a certain year
- Issuing a press release as they join a third-party initiative



How might a municipality express its RE goals?

Press Release



SERVICES ▼ PROGRAMS & INITIATIVES NEWS & EVENTS PUBLICATIONS & FORMS

Solar In Philadelphia – Part 1: Where We Are



June 15, 2016 | Amanda Warwood | Office of Sustainability

In light of all the solar activity and discussions recently in Philadelphia, this post will highlight what the Office of Sustainability and our City partners have done to promote solar, streamline City permitting processes and lower the cost to install solar in Philadelphia. We'll also provide an overview of current market conditions for solar power in Pennsylvania.

The City's Solar Progress

The City of Philadelphia has taken steps to provide a solid foundation for solar development. In 2008, Philadelphia was named a Solar America City, a U.S. Department of Energy project that works with municipalities across the country to remove regulatory barriers and reduce soft costs of solar development. With funding from this project, the Office of Sustainability worked with industry stakeholders to develop a guidebook outlining a streamlined permitting process

In 2012, our office worked with City Council to pass legislation that significantly reduced the cost of solar permitting by excluding the costs of solar panels and inverters in calculating fees. The City continues to work with solar developers and PECO to ensure that existing policies and processes are up-to-date, and is currently pursuing a SolSmart [7] (formerly SPARC) designation through the Department of Energy, a national recognition and a no-cost technical assistance program for local governments designed to drive greater solar deployment.

Municipal Resolution



Motions for the November 6, 2017 Special Town Meeting

Article 1: I move in terms of the Article

Article 2: I move in terms of the Article.

Article 3: I move that the Town accept M.G.L. c.64N, Section 3(a), as recently amended by Section 13 of Chapter 55 of the Acts of 2017, and impose a sales tax upon the sale or transfer of marijuana or marijuana products by a marijuana retailer operating within the Town to anyone other than a marijuana establishment, at the rate of 3 percent of the total sales price received by the marijuana retailer as a consideration for the sale of marijuana or marijuana or marijuana products.

Article 4: I move in terms of the Article.

Article 5: I move in terms of the Article.

Article 6: I move in terms of the article except to delete condition number 3.e.1) d) in its entirety and to limit the number of Recreational Marijuana Retailers to____ (number identified under Article 4. condition number 5.)

If Article 4 Fails, the Motion will be: I move in terms of the Article except to delete condition number 3.e.1) d) in its entirety.

Article 7: I move in terms of the Article.

Article 8: I move in terms of the Article

Article 9: I move in terms of the Article.

Article 10: I move in terms of the article with the addition of the prefix "pre" before "Kindergarten" in the last sentence, so that the end of the sentence reads, "a regional school district for students in grades pre-

Article 11: I move in terms of the article with the addition of the phrase "and our elected Governor Charlie

Article 12: I move in terms of the Article.

Article 13: I move in terms of the Article.

Article 14: I move to request \$50,000 from Free Cash in accordance with Massachusetts General Laws, Chapter 30B, Section 6, for an architect's design for improvements to the North Amherst Library.

Article 15: I move to amend the Town of Amherst General By-Laws by adding the new by-law as it appears on the motion sheet for the November 6, 2017 Special Town Meeting.

ZERO-ENERGY TOWN BUILDINGS.

1. Definitions: For purposes of this Bylaw:

a. 'Town of Amherst Buildings and Building Additions' shall mean all new buildings and new building additions built by and for the Town of Amherst and its subsidiary agencies. including but not limited to the Jones Library Inc. and the Amherst School Committee

Municipal Webpage

Home , Government , Sustainability , Fraser Sustainability Initiative

FRASER SUSTAINABILITY INITIATIVES



On February 4, 2016, the Fraser Board of Trustees adopted a resolution approving the communitywide sustainability plan on reducing our community's greenhouse gas emissions to 20% below 2014 levels by 2025. The plan consists of actions in following areas.

Commercial Retro-Commissioning

Commercial retro-commissioning is similar to getting your car serviced regularly. There are systems in the buildings (heating, air conditioning, lighting, etc.) that may be performing well when they are installed but over time things go wrong and may or may not be fixed.

According to the National Renewable Energy Laboratory, community solar is defined as "a solarelectric system that, through a voluntary program, provides power and/or financial benefit to, or is owned by, multiple community members

Expand Participation in Residential and Commercial

The Town of Fraser and surrounding Grand and Jackson counties are not utilizing many utility

Improve Public Transit

Riders will only be picked up and dropped off at designated signed stops. If you need help finding the nearest designated signed stop to your property, please contact the Transit Manager directly.

Residential Energy Awareness and Education

Weatherization, or "weatherproofing" your home involves making sure a significant amount of air isn't leaking in or out of your home.

Residential Weatherization

The Colorado Energy Office (CEO) Weatherization program has been doing just that for 40 years now. Visit the program's website or Fraser Town Hall for information on how to apply.

Quick Links

- 2016 Grand County Waste Diversion Report
- 2016 Grand County Waste Diversion Presentation

Env. Action Plan

Climate Action Plan

2015-2020



Executive Summary Climate Action Program History 2020 GHG Emissions Targets Resiliency and Preparedness Planning

City of Roanoke, Virginia



Quick Attendee Poll

Poll Question #2

What type of publicly available commitment does your municipality intend to use to announce a RE goal?

[select all that apply]

- a) Posting on a municipal webpage
- b) Publishing an environmental action plan
- c) Issuing a press release
- d) Passing a binding municipal resolution
- e) Other (please specify)



What are the different types of RE goals?

Goals are generally expressed in terms of either:

- a fixed capacity of installed solar (in kWs or MWs)
- a performance-based goal (in percentage of RE use)
- or in terms of percentage reduction of greenhouse gas (GHG) emissions



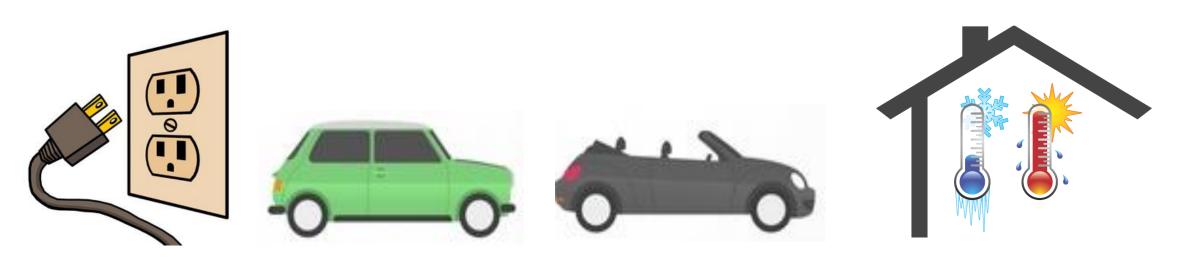






Terminology Matters!

- Performance-based goals that seem similar, such as "100% RE use" and "net-zero energy use," can actually differ in their concrete outcomes
- "Electricity" and "energy" might refer to different things in a goal





Other Considerations

Types of RE to include as eligible technologies

Your current level of RE use

Municipal resource availability

• Long-term end date, as well as short-term targets



How can we engage internal and external stakeholders?

- Conduct a stakeholder analysis
- Get all parties at the table
- Keep the necessary parties informed and up-to-date
- Solicit multiple rounds of feedback
- See the guidance document for practical tips



How does a state RPS affect my voluntary goal setting?

- 29 states have a Renewable Portfolio Standard (RPS)
 - Policies designed to increase RE generation by requiring utilities to sell a specific percentage of renewable electricity or to install a specific amount of RE capacity by a certain year.
- Level of your state's RPS might influence the level of goal that you set
 - Be sure to specify whether your goal includes the mandatory state RPS percentage or whether your goal is to voluntarily purchase additional RE, above and beyond the state RPS
- Many other state policies can also affect your RE project



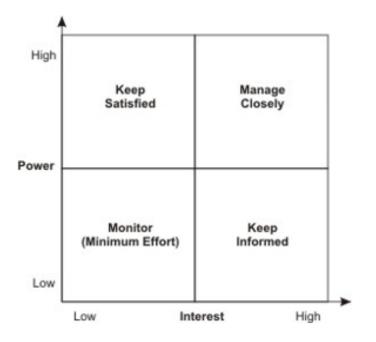
Worksheet for RE Goal Setting

RE Goal Setting Steps

- 1. Determine why your municipality wants to use RE
- 2. Explore what other towns and cities are doing (See Solar Portal)
- 3. Assess your organizational resources and policy constraints
- 4. Determine who will be a part of the RE implementation team.
- 5. Conduct a stakeholder analysis
- 6. Work with internal stakeholders to set a draft goal
- Garner support and feedback for your draft goal from external stakeholders
- 8. Publicize your finalized goal!



5. Conduct a stakeholder analysis. On the grid below, plot relevant internal and external stakeholder (e.g. specific municipal leaders, colleagues, project neighbors, etc.) in terms of their interest in the project and their ability to influence over its outcomes. See this <u>video</u> and the relevant considerations section above for an example of how to do so.



-Which stakeholders do I need to manage the most closely? _____

-What do I anticipate their primary concerns will be? _____

-What facts can I emphasize to alleviate their concerns? _____

Quick Attendee Poll

Poll Question #3

What is the biggest obstacle you face to setting a RE goal? [select one]

- a) Lack of resources (staff time & energy, funding, etc.)
- b) Lack of knowledge about renewable supply options
- c) Internal stakeholder engagement
- d) External stakeholder engagement
- e) Environmental goals are not a priority in my town



Next steps: Investigate what other towns have done

- Investigate what other municipalities of similar sizes or from similar regions have done
- Use EPA's Local Government Solar Project Portal to see what nearby and far-away towns have done
- On the Portal, you can sort participants by state to see what other cities in your state or nearby states have accomplished
- Get started with the RE Goal-Setting Guidance Document!



Q&A Session

Questions?

- Christopher Kent, U.S. EPA
- Verena Radulovic, U.S. EPA
- Adam Hanks, City of Ashland, OR
- Christopher Castro, City of Orlando, FL

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

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

