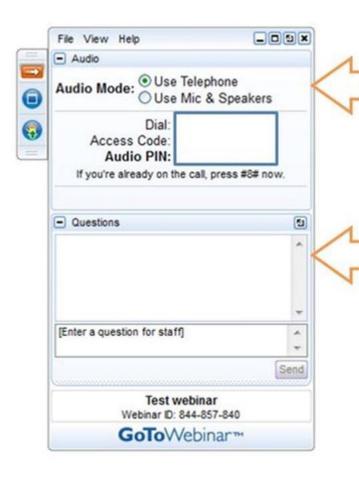
# NREL's STAT Network: Explaining the Opportunity and Process for Requesting Solar Technical Assistance

Hosted by Nate Hausman, Project Manager, CESA

March 3, 2016



# Housekeeping



All participants are in "Listen-Only" mode. Select "Use Mic & Speakers" to avoid toll charges and use your computer's VOIP capabilities. Or select "Use Telephone" and enter your PIN onto your phone key pad.

Submit your questions at any time by typing in the Question Box and hitting Send.

This webinar is being recorded.

You will find a recording of this webinar, as well as all previous CESA webcasts, archived on the CESA website at

www.cesa.org/webinars



Clean Energy States Alliance (CESA) is a national nonprofit coalition of public agencies and organizations working together to advance clean energy.















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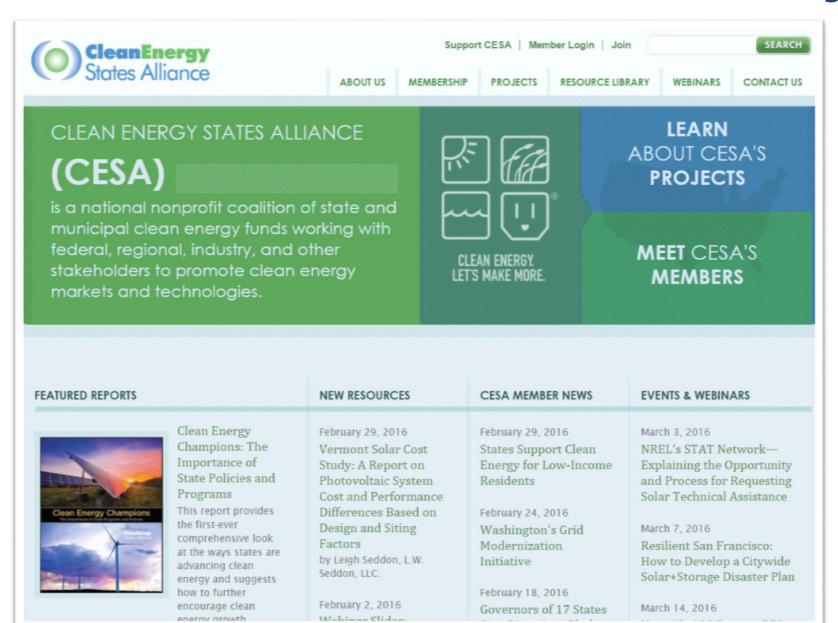








### Find more resources on our website: www.cesa.org



# Today's Guest Speakers

- Erin Nobler, Project Leader, National Renewable Energy Laboratory (NREL)
- Alexandra Aznar, Project Leader, National Renewable Energy Laboratory (NREL)







# Solar Technical Assistance Overview and Applications



Erin Nobler & Alexandra Aznar March 3, 2016

#### **Overview**

- Types of TA Available
- Examples of Past TA Requests
- Program Metrics
- What makes a successful TA request?
- How To Apply
- Q&A



Art Institute of Chicago - 130.6 kW PV System

#### WHAT IS STAT?

 U.S. Department of Energy (DOE) Solar Technologies Office, in coordination with the National Renewable Energy Laboratory (NREL)

#### Objective

- Provide current, credible information on solar policy, program, and regulatory choices to entities positioned to impact the policy environment through:
  - Basic solar education for new officials and staff
  - Partnerships to address specific challenges
  - Topical learning opportunities

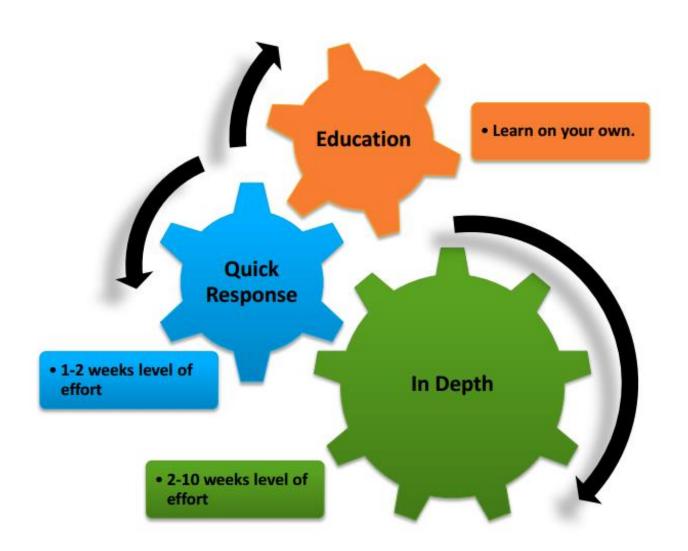




**2016-2018 STAT partners:** 



### **STAT FY13-15**



#### **STAT FY16-18**

- <u>Utility solar technical assistance</u>—NREL provides technical assistance to utilities on matters that require solar market expertise related to topics like programmatic conceptualization, existing program design/redesign, and long-term utility strategic planning.
- State solar technical assistance
   — NREL provides direct technical assistance to state and local governments on matters that require solar market expertise to either answer a time-sensitive question or to provide expert testimony on policy best practices.
- <u>Do-it-yourself online education</u>—The STAT program provides information on solar technologies, resources, and the role that state and local governments play in supporting the development of those resources to achieve their economic, environmental, and/or energy security goals. For reference, review the <u>past STAT Webinar topics</u>.

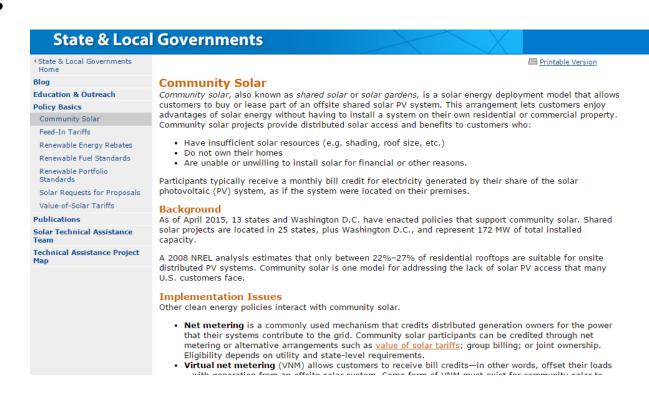
## **Do-it-yourself Education**

#### Webinar Series

- Solar 101
- Solar Hot Topics
- Tools You Can Use

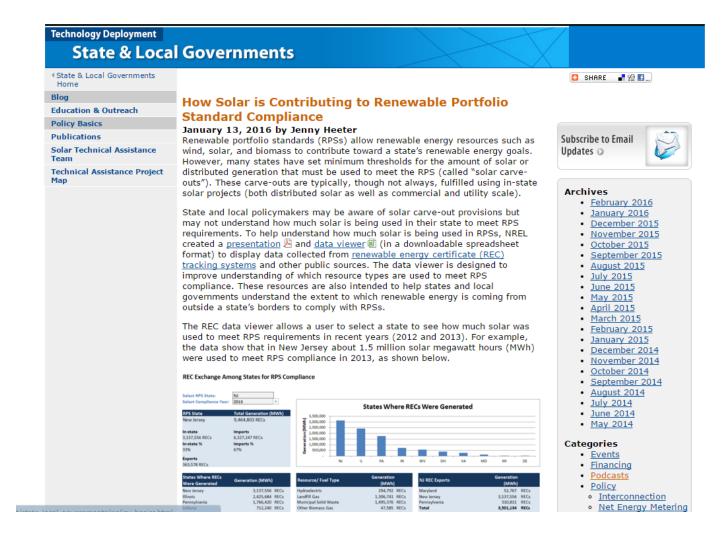
#### Fact Sheets/Memos

- Policy basics
- Publications



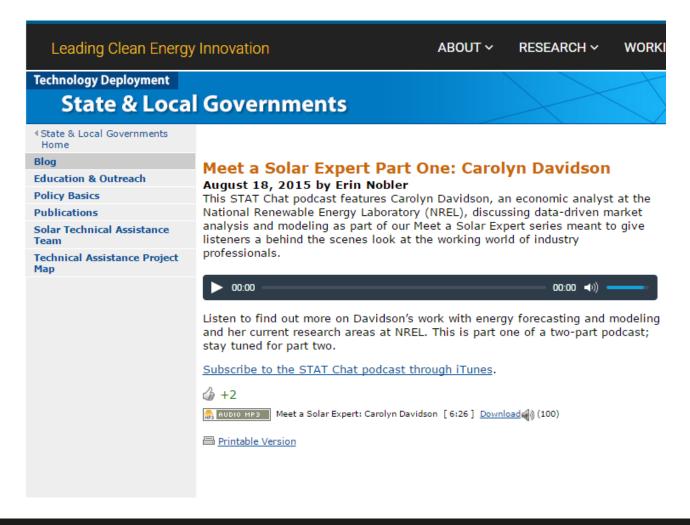
## **Do-it-yourself Education**

#### Blogs:



## **Do-it-yourself Education**

#### Podcasts:



### **State TA: Critical Question**



#### 2016 Solar Technical Assistance for States

#### Call for Letters of Interest

#### **Critical Question**

What strategies can your state use to stimulate economic development through the deployment of solar photovoltaic (PV) technologies?

#### **Potential Sub-Questions**

Sub-questions are encouraged, but they should be directly relevant to an active program and policy design.

- What suite of solar PV policies and finance or incentive programs could be implemented in your state to maximize economic development opportunities?
- 2. If your state agency implements a solar policy or program or set of policies and programs, what economic development impacts can be expected?
- 3. What tools can be used for program evaluation?
- 4. How can your state prepare for future energy needs while maximizing economic development through the deployment of PV technologies?
- What economic development impacts would a vibrant and robust solar market provide in your state?
- 6. What are best practices for solar development have been implemented in other states that could apply to your state?

#### **Letters of Interest**

As part of this research project, the Solar Technical Assistance Team (STAT) Network will invite a state or

#### **State TA: Direct, Quick Response**

Applicants	Topic
City & County of Denver, Office of Economic Development	Solar contribution to NZE community, strategies
City of Camden, New Jersey	Solar on contaminated lands
City and County of Denver, Mayor's Office	Solar Benefits technical support
Montana Senate District 33	Solar Ready Design presentation
Delaware Public Service Commission	Technology – Inverter accuracy
County of Kauai, Hawaii	RFP Assistance
City of Chicago	Airport project technical support
Louisiana PSC	Net metering caps presentation
City of Tucson	Financing Options for PV
Ranson, WV	Policy Options
Austin Electric Utility Commission	Value of solar methodology

#### **Program Structure**

- Rolling application throughout the year
- Short online application
- Quick turnaround time on request approval
- Up to 40 hours per request

## What makes a good TA request?



# To meet the basic eligibility criteria, applicants must qualify as:

- State elected official or staff
- State agency staff

In addition, applicants must perform work that is directly related to PV markets/costs.





#### Successful applicants will:

- Provide staff time to assist
- Articulate existing state barriers
- Articulate specifically how the requested assistance would remove or reduce the barrier
- Articulate how DOE assistance would help facilitate movement toward a robust solar market
- Be well positioned to make change

## What makes a good TA request?

Need help preparing your request?



**Contact Nate!** 

# What makes a good TA Request?

#### Public sector requests are evaluated on:



## Recent TA: TA Project Map (From FY13-15)

#### Technology Deployment State & Local Governments

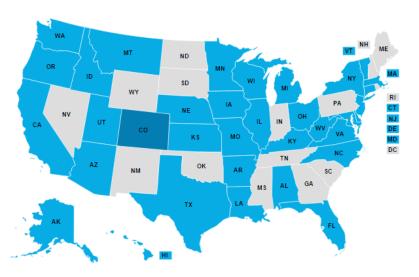
#### **Technical Assistance Project Map**

Through the <u>Solar Technical Assistance Team (STAT)</u>, NREL provides research to help stakeholders understand challenges and barriers to the development of solar markets at the state and local levels. The STAT project map highlights these technical assistance projects that have helped communities across the United States. Select a topic category or state to view technical assistance projects. The table below the map shows all the results in the selected category.



#### Apply Today

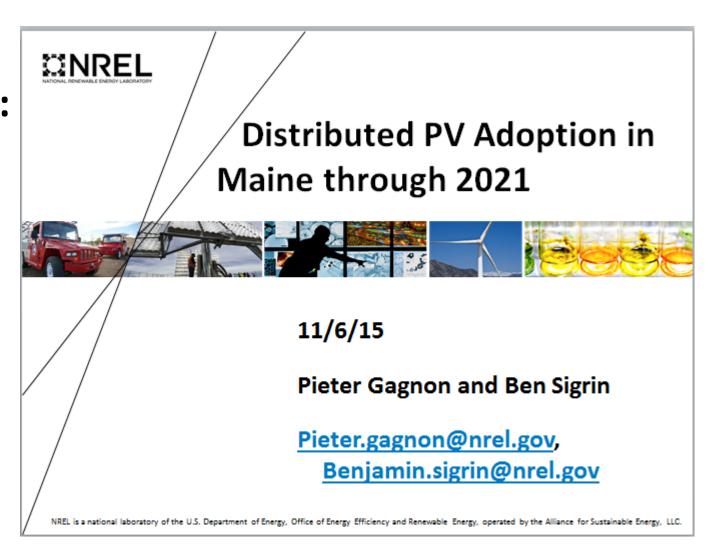
NREL offers various types of <u>technical</u> <u>assistance</u> to state and local governments.



#### Colorado **Technology and Resources** Municipal/City Technical Assistance Requested: The Denver Housing Authority are in the planning phases of redeveloping a neighborhood and wanted to explore the potential of net zero development and solar. Results: In Process Policy and Program State Technical Assistance Requested: Assistance in understanding utility/regulatory practice of net energy metering particularly as it pertains to photovoltaic systems installed by and use sustamore of alcotele

# **STAT TA: Example of direct TA**

Direct
Assistance:



## **Maine Public Utilities Commission Request**

Maine PUC requested assistance from STAT. Based on scoping calls the assistance provided is as follows:

NREL will produce an analysis through the dSolar model that addresses 3 potential distributed solar scenarios projecting low, medium, and high estimates of the total installed DG Solar PV through 2021 assuming no changes in policy concerning retail rate structures, net energy billing, or other solar incentives. NREL will consult with Maine PUC to develop a set of assumptions for each scenario, which could include: solar capital cost reductions, ITC step down scenarios, load and retail rate growth forecasts, and consumer demand for solar.

## **STAT TA: Policy impact**

MARKETS & POLICY

# Maine Proposes to Replace Net Metering With a Market-Based Alternative



Source: GTM Media, 2016

The proposal could add 248 megawatts to Maine's nascent solar market over five years.

by Julia Pyper February 26, 2016

2/23/2016

#### Overview of Distributed Generation Legislation

As a result of the stakeholder process directed by Resolves. Ch. 37, 127th Legislature, Maine's consumer advocates, utilities, solar installers and environmental advocates have reached agreement on a program to support distributed generation resources for the benefit of all electricity customers. This document provides a summary of the legislation.

#### **Program Size**

Under the proposed program, Maine utilities would enter into long term contracts for 248 MW of solar over the next five years (through 2022), divided between four market segments, as follows.

Segment	% of Market	Total MWs
Residential & Small Business	47%	118
Community	19%	45
Large Commercial & Industrial	10%	25
Grid Scale (up to 5 MW)	24%	60
Total		248

Source: Maine.gov, 2016

## **How to Apply**



Solar Program Quick Response Technical Assistance Request Form

Name:	Click here to enter text.
Phone:	Click here to enter text.
Email:	Click here to enter text.
Office Making Request:	Click here to enter text.
Deadline for Request:	Click here to enter text.
Request:	Click here to enter text.
Estimate of Hours Required to Complete Request:	Click here to enter text.
How will the resolution of this request affect solar technology costs in your area?	Click here to enter text.
How will the resolution of this request affect grid integrations costs in your area?	Click here to enter text.
How will the resolution of this request accelerate solar deployment in your area?	Click here to enter text.

Travel Requested? (Yes/No): Click here to enter text.
Invitation Letter from Public Official Attached? (Yes/No): Click here to enter text.

# At <u>any time</u> during the year, send completed Quick Response Request Form to <u>stat@nrel.gov</u>

#### **Apply Online:**

http://www.nrel.gov/tech\_deployment/state \_local\_governments/stat.html

## **STAT TA: Summary**

 Government official asks a question



- STAT answers the question and shares knowledge at the local and state level through presentations, webinars, and whitepapers
- 3 Knowledge sharing results in development of solar market in communities across the United States

Source: NREL, 2016





Thank you! Questions?

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# Thank you for attending our webinar

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