

DOCKETED

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Project Title:	Modeling Tool to Maximize Solar + Storage Benefits
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IN THE MATTER OF:)	Docket No. 19-MISC-04
)	
Modeling Tool to Maximize Solar + Storage)	RE: Staff Workshop to Discuss the Solar + Storage Modeling Tool
_____)	

NOTICE OF STAFF WORKSHOP

California Energy Commission staff, in consultation with Energy and Environmental Economics, Inc. (E3), will introduce the Solar + Storage Modeling Tool developed by E3 under Electric Program Investment Charge (EPIC) agreement EPC-17-004, "*Enhanced Modeling Tools to Maximize Solar + Storage Benefits.*" The tool interfaces with an enhanced Local Net Benefits Analysis (LNBA) tool developed for the California Public Utility Commission's (CPUC) Distribution Resource Planning (DRP) proceeding to provide a comprehensive quantification of distribution upgrade deferral values. The Solar + Storage Modeling Tool evaluates the benefit of solar, storage, and other distributed energy resources (DERs), and estimates the value proposition of the integrated systems based on their expected optimal operations, location on the grid, market prices, and other characteristics. This is the first of three workshops on the Solar + Storage Modeling Tool.

June 13, 2019
10:00 a.m. – 12:00pm

Warren-Alquist State Energy Building
1516 Ninth Street
1st Floor, Charles R. Imbrecht Hearing Room
Sacramento, California 95814
(Wheelchair Accessible)

Remote access is available by computer or phone via WebEx.™
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Agenda

The workshop will provide an introduction to the final release of the Solar + Storage Modeling Tool; review the user guide and functionalities; discuss how the tool can simulate the operations of DERs under tariff and program designs, and determine which design will maximize the benefits of DERs to ratepayers. There will be further discussion on use cases; how the tool can be used in the CPUC's DRP proceeding; and the development of a storage roadmap, including presentation of case study results.

Staff is seeking input on:

1. What use cases are you most interested in? (e.g. behind the meter/front of the meter solar and storage asset evaluation, non-wires alternative evaluation, rate design, DER program design)
2. Who do you think would be interested in using this tool? (e.g. utilities, developers, aggregators)
3. What specific discussion topics would you be interested in for the two upcoming workshops?

The primary audience for this workshop includes representatives from utilities, CPUC (particularly staff working on the DRP proceeding), vendors/bidders for the CPUC's Distribution Investment Deferral Framework Competitive Solicitations, project developers, and storage vendors.

Background

California leads the nation in installed solar rooftop systems and is home to advanced technology companies designing and manufacturing battery storage, communicating controls, and electric vehicles that comprise the emerging smart grid. Solar is a great resource, but is already hitting high penetration limits on distribution systems. The California Independent System Operator is projecting that further increases will make integration challenging. As the penetration of solar increases and technology costs decrease, opportunities will arise to increase the benefits of solar by shaping its output with battery storage, advanced controls on electrical consumption, and other DERs. To capture the value from these technologies and to provide a stable long-term value proposition to accelerate their development and deployment, grid planners and operators need to integrate the capabilities these technologies provide into the planning and operations of the electricity grid.

The functionalities of the Solar+ Storage Modeling Tool will result in of lower electricity costs to ratepayers. Investor-owned utilities (IOUs) will be able to incentivize customer use of DER through tariffs and programs, and align this use with the needs of the electricity grid. By incentivizing the provision of grid services from DERs, IOUs can avoid buying those services from other providers, reduce fuel burn, avoid investments in new generation capacity, and defer investments in new transmission and distribution infrastructure.

Public Comment

Oral comments: Staff will accept oral comments during the workshop. Comments may be limited to three minutes per speaker and one speaker per organization. Any comments may become part of the public record for this proceeding.

Written comments: Written comments must be submitted to the Docket Unit by **5:00 p.m. on June 27, 2019**. Written comments will also be accepted at the workshop; however, the Energy Commission may not have time to review them before the conclusion of the meeting.

Written and oral comments, attachments, and associated contact information (e.g. address, phone number, email address) become part of the viewable public record. This information may also become available via any Internet search engine.

The Energy Commission encourages use of its electronic commenting system. Visit <https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=19-MISC-04>, which links to the comment page for this docket. Enter your contact information and a comment title describing the subject of your comment(s). Comments may be included in the "Comment Text" box or attached in a downloadable, searchable Microsoft® Word (.doc, .docx) or Adobe® Acrobat® (.pdf) file. Maximum file size is 10 MB.

Written comments may also be submitted by email. Include docket number 19-MISC-04 and Modeling Tool to Maximize Solar + Storage in the subject line and send to docket@energy.ca.gov.

If preferred, a paper copy may be submitted to:

California Energy Commission
Docket Unit, MS-4
Re: Docket No. 19-MISC-04
1516 Ninth Street
Sacramento, CA 95814-5512

Public Adviser and Other Commission Contacts

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Please direct requests for reasonable accommodation to Yolanda Rushin at Yolanda.Rushin@energy.ca.gov, or (916) 654-4310 at least five days in advance.

Media inquiries should be directed to the Media and Public Communications Office at MediaOffice@energy.ca.gov, or (916) 654-4989.

Questions on the subject matter of this meeting should be directed to Liet Le at Liet.Le@energy.ca.gov or (916) 327-1450.

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Availability of Documents

Documents and presentations for this meeting will be available at <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=19-MISC-04>

Dated: _____ at Sacramento, California

Laurie ten Hope
Deputy Director
Energy Research and Development Division

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