

Featured Resources

Snapshot: Each of these resources are relevant to the deployment of energy storage systems for local governments.

Disclaimer: Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the Governor's Office of Planning and Research (OPR). In addition, the views and opinions of authors expressed and presented herein do not necessarily state or reflect those of OPR, its state partners, or the State of California.

- **Energy Storage System Permitting, Monitoring, and Planning Resources**
 - [SEAC Recommended Checklist](#): The Sustainable Energy Action Committee prepared the Inspection Checklist that contains the recommended minimum submittal requirements for electrical plan review of new interactive battery storage systems for one- and two-family dwellings with a solar photovoltaic system.
 - [SEAC Recommended Correction List](#): The Sustainable Energy Action Committee prepared the Correction List, which contains typical corrections to be used in the electrical plan review of new interactive battery storage systems for one- and two-family dwellings with a solar photovoltaic system.
 - [SEAC Recommended Inspection Guideline](#): This Inspection Guideline contains the recommended inspection procedures of a new interactive battery storage systems for one- and two-family dwellings with a solar photovoltaic system.
 - [A Framework for Utility Procurement of Energy Storage](#): The Global Energy Storage Alliance published this white paper on how electric utilities can procure energy storage resources to perform as electric resources used to balance supply and demand on the electric grid.
 - [Economics and Finance of Solar+Storage](#): The NYSolar Smart plan is a strategic effort led by Sustainable CUNY of the City University of New York (CUNY) that supports federal, state and local initiatives to implement solutions to lower the soft costs of installing solar. This document is designed to provide solar installers and the general public with an understanding of the economics of solar photovoltaic projects that include battery storage systems.
 - [Energy Storage System Guide for Compliance with Safety Codes and Standards](#): Prepared for the Department of Energy by the Pacific Northwest National Laboratory, this compliance guide (CG) is intended to help address the acceptability of the design and construction of stationary ESSs, their component parts and the siting, installation, commissioning,

operations, maintenance, and repair/renovation of ESS within the built environment.

- [Energy Storage System Permitting and Interconnection Process Guide for New York City Lithium-Ion Outdoor Systems](#): is designed to provide building owners and project developers with an understanding of the permitting and interconnection requirements and approval processes for outdoor Lithium-Ion based ESS. Although this document is primarily for New York City, there lies in a lot of relevant information to easing the permitting process and developing robust safety inspections.
- [Energy Storage Systems – Fire Safety Concepts in the 2018 International Fire and Residential Codes](#): This presentation by UL at the ICC in 2017 highlights fire safety concepts relative to varying sizes of energy storage systems.
- [Final Report on Policy Recommendations and Guidelines for Permitting Energy Storage](#): Prepared for the California Energy Commission, this document by the Peninsula Advanced Energy Community (PAEC) highlights permitting experiences in California and recommendations for providing guidance.
- [Guidance No. 2 for Interconnection of Energy Storage Systems Operated in Front of a Production Meter and Paired with Onsite Renewable Generation Connected Under a Net Metering Tariff](#): Published by Xcel Energy, this document provides guidance for the interconnection of electric storage to operate in parallel with the utility and a customer's renewable generation.
- [Guide to Energy Storage Charging Issues for Rule 21 Generator Interconnection](#): Published by PG&E, this document was created to provide clarity and set expectations for how PG&E implements the applicable Electric Rules governing utility service to its retail customers deploying energy storage devices.
- [Guide to Installing a Household Battery Storage System](#): Released by the Clean Energy Council in Australia, this guide features basics on batteries, recommendations on identifying various energy storage systems, and safety and standards considerations relative to installation of energy storage.
- [On-Site Commercial Solar PV Decision Guide](#): Developed by the Department of Energy, this guide includes building applications of energy storage as well as relevant policies and resources.
- [Orange County Guideline for Stationary Storage Battery Systems](#): Authored by the Orange County Fire Authority, this guideline aims to outline the requirements and regulations in plan review for stationary storage battery systems, including batteries for cellular sites and indoor storage of electric carts or cars.

- [Resilient PV Retrofit and Storage Ready Guidelines](#): The NYSolar Smart plan is a strategic effort led by Sustainable CUNY of the City University of New York (CUNY) that supports federal, state and local initiatives to implement solutions to lower the soft costs of installing solar. This DG Hub fact sheet provides information to installers, utilities, policy makers, and consumers on how to add an energy storage system (ESS) to existing solar PV systems to create resilient PV or make new PV systems “storage ready”.
- [Santa Clara Field Inspection Guidelines](#): The City of Santa Clara created an Inspection Guideline Checklist for interconnected residential battery storage systems. They also created a required signage document for interconnected battery storage systems.
- [Self-Generation Program Incentive Handbook](#): Published in 2017 the SGIP Handbook establishes the policies and procedures of the SGIP for potential program participants and other interested parties. The SGIP has been approved by the California Public Utilities Commission (CPUC) and is subject to change in whole or in part at any time without prior notice. Any changes made to the SGIP will be published in revisions to this Handbook and/or posted at each Program Administrator’s (PA’s) website.
- [Town of Woodside | Battery Backup Systems](#): The Town of Woodside developed a handout for a battery backup systems that includes a checklist and specific instructions for installation of a backup battery system.