

Sustainable CUNY and Con Edison welcome you to the

**2024**  
**NYC Solar + Storage**  
**Installer Workshop**

**March 20, 2024**



Office of Facilities Planning,  
Construction and Management  
Sustainability & Energy Conservation



## Workshop Logistics

- All attendees will be muted and off-camera
- Please submit your questions in the Q & A box
- Questions answered live, time permitting
- Unanswered questions will be forwarded to speakers for responses and posted on [nysolarmap.com](https://nysolarmap.com). Links will be sent to registrants and posted on the Installer Roundtables.
- This workshop is being recorded and will be posted along with the slide decks on [nysolarmap.com](https://nysolarmap.com). Links will be sent to registrants and posted on the Installer Roundtables.

- 9:00 am**     **Welcome and Workshop Overview**  
*Tria Case, Executive Director of Sustainability & Energy Conservation, CUNY*  
**Sustainable CUNY's Smart DG Hub: Accessing TA & Permitting Resources**  
*Daniella Leifer, DG Ombudsman & Emily Sweeney, Solar Ombudsman*
- 9:15 am**     **Con Edison Incentives, Interconnection Requirements, and Processes**  
*Opening Remarks – Raghu Sudhakara, Vice President of Distributed Resource Integration*  
*Demand Response Program Overview – Joana Abreu, Clean Energy Operations Manager*  
*Non-Wires Solutions Overview – Marissa Castoro, Sr. Specialist, Non-Wires Solutions Team*  
*Con Edison Cleaning NYC's Air through Electric Vehicle Adoption – Andre Douglas, Clean Energy Specialist, EV Team*  
*Low-Income DER Make Ready Program – Karice Redhead, Clean Energy Mgr.*  
*Con Edison Energy Storage Programs Overview – Brian Schaitkin, Senior Planning Analyst, Bulk Solicitation*  
*Enabling FERC 2222 – Will Taylor, Project Manager and Wassim Salloum, Project Specialist*  
*Best Practices – Interconnecting Energy Storage – Libin Mao, Sr. Engineer*  
*Electrification Capacity Map – Kathryn Osenni, Project Specialist*
- 10:45 am**    **City of Yes: Updating NYC's Zoning Regulations to Promote Sustainability**  
*Nilus Klingel, NYC Department of City Planning*
- 11:00 am**    **Updates to FDNY Application Processes for Solar and Storage**  
*Yash Patel, Assistant Chemical Engineer, Sustainability Unit, FDNY*  
*John Ingenito, Supervisor – Rooftop Access Unit, FDNY*

**12:30 pm     LUNCH BREAK**

**1:00 pm     Updates to DOB Construction/Electrical Permits & Material Acceptance Application Processes**

*Diana Laverpool, Senior Clerical Associate, NYC DOB*

*Sheetal Shah, Assistant Chief Plan Examiner, NYC DOB*

*Alan Price, P.E., Director, Office of Technical Certification & Research, NYC DOB*

*Steven Hong, R.A., Deputy Director, Office of Alternative Energy, NYC DOB*

**2:30 pm     VDER Compensation for Solar and Storage Systems: Calculating the Value Stack**

*Luke Forster, Senior Business Analyst, NYSERDA*

**3:00 pm     Federal, State, and City Support for the Solar and Storage Industries**

*Noah Ginsburg, Executive Director, NYSEIA*

*Denise Sheehan, Senior Policy Advisor, NY-BEST*

*Luke Forster, Senior Business Analyst, NYSERDA*

*Facilitated by Emily Sweeney and Daniella Leifer*

**3:30 pm     Wrap-up and Next Steps**

*Ron Reisman, NYC Solar Partnership Program Manager, Sustainable CUNY*



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# SUPPORTING SOLAR & STORAGE IN NYC

## Sustainable CUNY's Smart DG Hub: Accessing TA & Permitting Resources

Daniella Leifer, DG Ombudsman, Sustainable CUNY Smart DG Hub

Emily Sweeney, Solar Ombudsman, Sustainable CUNY Smart DG Hub

*March 20, 2024*



**SMART DG HUB**



**Office of Facilities Planning,  
Construction and Management**  
Sustainability & Energy Conservation

## Pathways to Progress

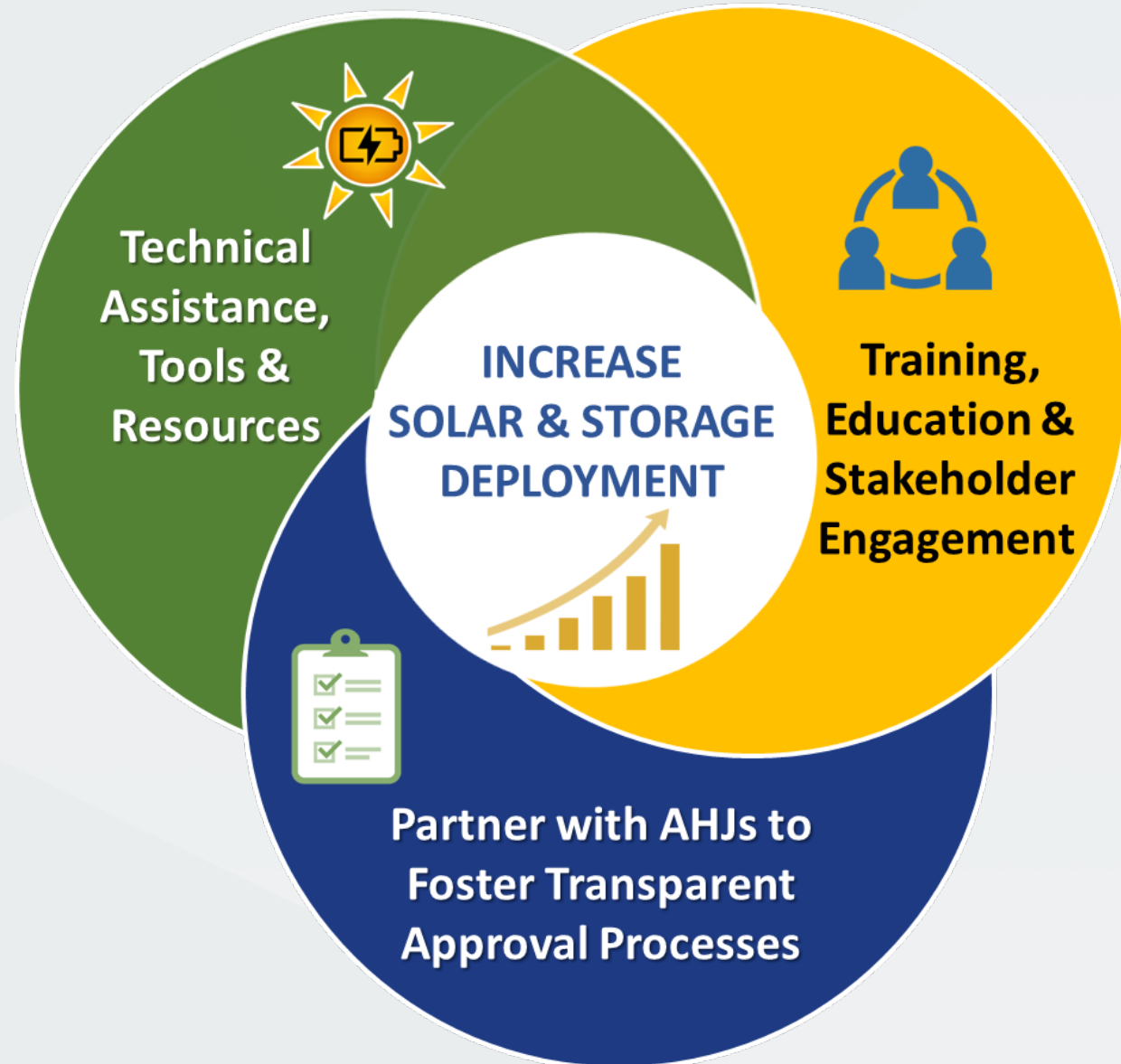
- NY Solar Map & Portal
- Solar & Storage Ombudsmen
- Solar & Storage Permitting Guides
- Industry & Agency Trainings
- Property Tax Abatement Analysis
- Streamline Permit Review Processes
- Summits and Workshops





# ABOUT: Smart DG Hub Ombudsman Program

- Technical Assistance
- Streamline Processes
- Develop Resources






# RESOURCES: NYSolarMap.com

Solar Potential

Solar Statistics

Solar Data Visualization

Resources


**Smart DG Hub**  
 NY Solar Map | NY Storage Map

[Solar](#)
[Energy Storage & EVs](#)
[Sustainable CUNY](#)
[Archives](#)


Welcome to the CUNY Office of Sustainability Smart DG Hub and NY Solar Map

**FIND YOUR SOLAR POTENTIAL:**


[CHECK YOUR ADDRESS](#)

**NO ROOF? NO PROBLEM!**


[COMMUNITY SOLAR](#)




**SOLAR**



**ENERGY STORAGE + EV**



**SUSTAINABLE CUNY**



**ARCHIVES**

### A CLEANER, GREENER CITY

As this nation's largest urban public university, the City University of New York's Office of Facilities Planning, Construction and Management Sustainability and Energy Conservation (Sustainable CUNY) plays a significant role in NYC's transition to a greener, more sustainable city. [Sustainable CUNY](#) has long partnered with City leaders and stakeholders to utilize the breadth and depth of the university's intellectual resources to provide sustainable and resilient energy solutions to the diverse community in which we learn, work and live.

**DID YOU KNOW?**


NYC already has the smallest per-capita carbon footprint of any major US city!

**#1**

**5.38** **7.12** **7.15**

Sustainable CUNY supports the adoption of clean and renewable energy alternatives by providing public resources that includes interactive maps and collaboratively works with NYC agencies to develop guidance documents, permitting tools, webinars and

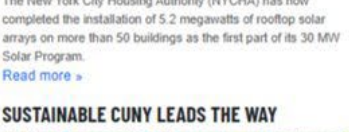
### AMERICA'S LARGEST SOLAR PROGRAM ON PUBLIC HOUSING



The New York City Housing Authority (NYCHA) has now completed the installation of 5.2 megawatts of rooftop solar arrays on more than 50 buildings as the first part of its 30 MW Solar Program.

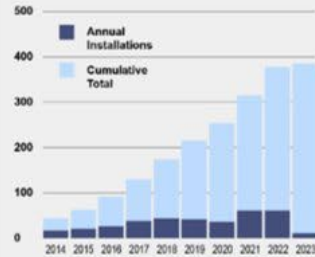
[Read more >](#)

### SUSTAINABLE CUNY LEADS THE WAY



### DATA + VISUALIZATIONS

#### NYC SOLAR GROWTH 2014 - 2023



March 1st, 2023

[See more](#)

# Solar Installer Resources

- NYC Permitting Guides
- Interconnection Guides
- Installer Workshop presentations, Q&A

## NYC Solar Permitting Guide and Resources

Community Solar

NYCHA Program

Incentives

Financing Structures

Webinars & Presentations



The reports, guides and analytics developed by Sustainable CUNY in collaboration with multiple partners, are helping to remove barriers to deploying solar in NYC. The resources below are specific to New York City.

Current information for New York State solar permitting outside of New York City can be found in [NYSERDA's Unified Solar Toolkit](#). The initial NYS guides and resources that Sustainable CUNY aided in developing can be found in [archives](#).

### PERMITTING

Sustainable CUNY's ombudsmen worked with the NYC Department of Buildings (DOB), which issues work permits for solar installations in all 5 boroughs, to provide this comprehensive guide that helps solar PV installers navigate the requirements and permitting process. [NYC Solar Permitting Process Guide\\*](#)

*\*NYC Ombudsmen are currently working with NYC Agencies to provide updates on the anticipated move to filing permit applications in DOB NOW.*

### SOLAR CONNECT

The NY Solar Map gives consumers the option to go beyond just viewing the solar potential of their property. They can choose to take action by connecting with solar installers. [Consumer information](#)

### NYC INSTALLER WORKSHOPS

Sustainable CUNY conducts detailed solar and storage workshops for NYC installers and developers including an annual workshop with Con Edison. [Use this link to access recent workshop presentations and webinar recordings](#) Notices of upcoming workshops are distributed through DG Hub and Solar Installer Roundtables. For more information contact [nysolar@cuny.edu](mailto:nysolar@cuny.edu)

### THE VALUE OF DISTRIBUTED ENERGY RESOURCES

The New York State Public Service Commission (PSC) established the Value of Distributed Energy Resources (VDER) or the Value Stack, a new mechanism to compensate energy created by distributed energy resources (DERs), like solar. In-depth information, the value stack calculator and additional resources can be found at [NYSERDA's Value Stack](#) webpage.

# Storage Programs & Information

## NY SOLAR MAP

[Going Solar](#)[Installing Solar](#)[Financing Solar](#)[Solar+Storage](#)[Resources](#)[Shared Solar NYC Gateway](#)[NYC Solar](#)[About](#)

### Solar+Storage

[Reducing Storage Soft Costs](#)[Storage 101](#)[Resilient Solar Project](#)[Critical Facility Solar+ Evaluator](#)

The City University of New York formed the Smart Distributed Generation Hub (Smart DG Hub) to develop a strategic pathway to a more resilient distributed energy system, and is supported by Federal and State initiatives for the projects outlined below. The Smart DG Hub, working in collaboration with NYS municipalities and partners across the state, has developed an extensive portfolio of educational resources about storage, including guidance for permitting these systems in NYC. Please visit [STORAGE RESOURCES](#) and [WEBINARS](#) to see our full list of supportive material.

NYC  
Regulatory  
Updates



REDUCING STORAGE SOFT COSTS



RESOURCES, PERMITTING AND GUIDES



RESILIENT SOLAR PROJECT





# Storage Tools & Resources

Resources

Storage Resources

FAQ's

Reports and Guides

Webinars and Podcasts

News

## STORAGE RESOURCES



STORAGE PERMITTING



ROADMAP | SURVEYS



CASE STUDIES | FACT SHEETS | GUIDANCE



STORAGE MAPPING TOOLS



STORAGE WEBINARS

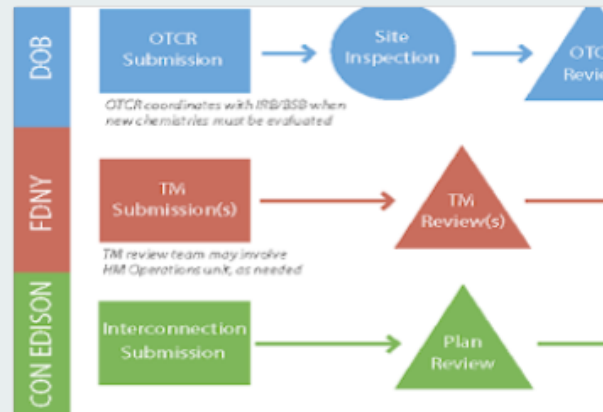


ADDITIONAL RESOURCES

# Storage Permitting Guides

NY Solar Map Portal Pages > [Resources](#) > [Reports and Guides](#) > [Solar+Storage](#) > [Storage Permitting](#)

*The extensive process guide and the below documents were developed by Sustainable CUNY's Smart DG Hub in collaboration with NYC agencies, Con Edison and other stakeholders.*



## Energy Storage Permitting and Interconnection Process Guide for New York City

**This document provides project developers, building owners, and other ESS project stakeholders with a comprehensive overview and detailed breakdown of the approval processes and requirements for outdoor lithium-ion based ESS in NYC.**

### [Quick Guide: FDNY Certificate of Approval for Energy Storage Systems Products](#)

This guide is aimed at helping energy storage industry stakeholders, particularly within the manufacturing, product supplier or integrator ecosystems, understand and navigate the steps for submitting an FDNY Certificate of Approval application for ESS products.

### [FDNY Installation Approval Site Plan for Large Systems](#)

This site plan checklist provides guidance on creating site plan materials, a key component of the permitting application package for Large ESS. Includes visual aids examples.

### [New York City Energy Storage Systems Zoning Guide](#)

This high-level navigational guide to understanding zoning provisions applicable to ESS provides a comprehensive overview of the recent ESS-related zoning changes in NYC and summarizes zoning requirements applicable to both Accessory & Non-Accessory ESS.

### [New York City Conceptual Design Meeting Prep Checklist](#)

The checklist is intended as an aide to help project

### [New York City Emergency Management Plan Guidance](#)

This document will assist developers by providing

### [UL 9540A Data Utilization Guide for NYC: Flow Charts](#)

This UL 9540A Data Utilization Guide for NYC:

# Webinars – Installer Workshop Recordings



**NY SOLAR MAP** [Going Solar](#) [Installing Solar](#) [Financing Solar](#) [Solar+Storage](#) [Resources](#) [Shared Solar NYC Gateway](#) [NYC Solar](#) [About](#)

**Resources** [Storage Resources](#) [Reports and Guides](#) [Webinars and Podcasts](#)  
[FAQ's](#) [News](#)

[NY Solar Map Portal Pages](#) > [Resources](#) > [Webinars and Podcasts](#)

## Installer Webinars



### 2022 NYC Solar and Storage Installer Workshop

**3/31/2022 | 5:24:00**

Sustainable CUNY - 0:10:01

Con Edison - 0:30:05

FDNY, Storage - 1:33:30

FDNY, Solar - 1:52:45

NYC DOB, Solar - 3:08:45

NYC DOB, Storage - 3:53:00

Panel - NYC Solar and Storage Policy Outlook - 4:12:56

[View individual Presentations](#)

### UL 9540A Data Utilization: NYC methodology

#### THERMAL RUNAWAY

- Thermal propagation
- Preventative measures and controls



#### FIRE SPREAD

- Unit spacing
- Fire and smoke detection
- Fire suppression

### NYC Energy Storage: UL 9540A Data – NYC Utilization Guide

**4/14/2020 | 58:29**



# Connecting with the Smart DG Hub

- **Industry Roundtables:** e-announcements about NYC market developments and peer-to-peer sharing.
- **Email Newsletter:** periodic updates about Sustainable CUNY's programs.
- Technical assistance requests

To join Roundtable or Newsletter lists, or for Technical Assistance requests, contact us at [Smartdghub@cuny.edu](mailto:Smartdghub@cuny.edu)

Access our resource library at [NYSolarMap.com](http://NYSolarMap.com)

→ Join DOB & CUNY live for a virtual Q&A session **Weds, April 10 at 2:00 pm** to address DOB NOW solar filing questions and walk through the new system. Reach out to [smartdghub@cuny.edu](mailto:smartdghub@cuny.edu) for registration.

# LUNCH BREAK

The 2024 NYC Solar + Storage  
Installer Workshop Resumes Promptly at 1:00 pm



Office of Facilities Planning,  
Construction and Management  
Sustainability & Energy Conservation





# Thank you for attending the 2024 NYC Solar +Storage Installer Workshop

For assistance, please contact a  
Solar or Storage Ombudsman at  
[smartdghub@cuny.edu](mailto:smartdghub@cuny.edu)