# National Grid

## Cobleskill - Ag Solutions Fair 2024

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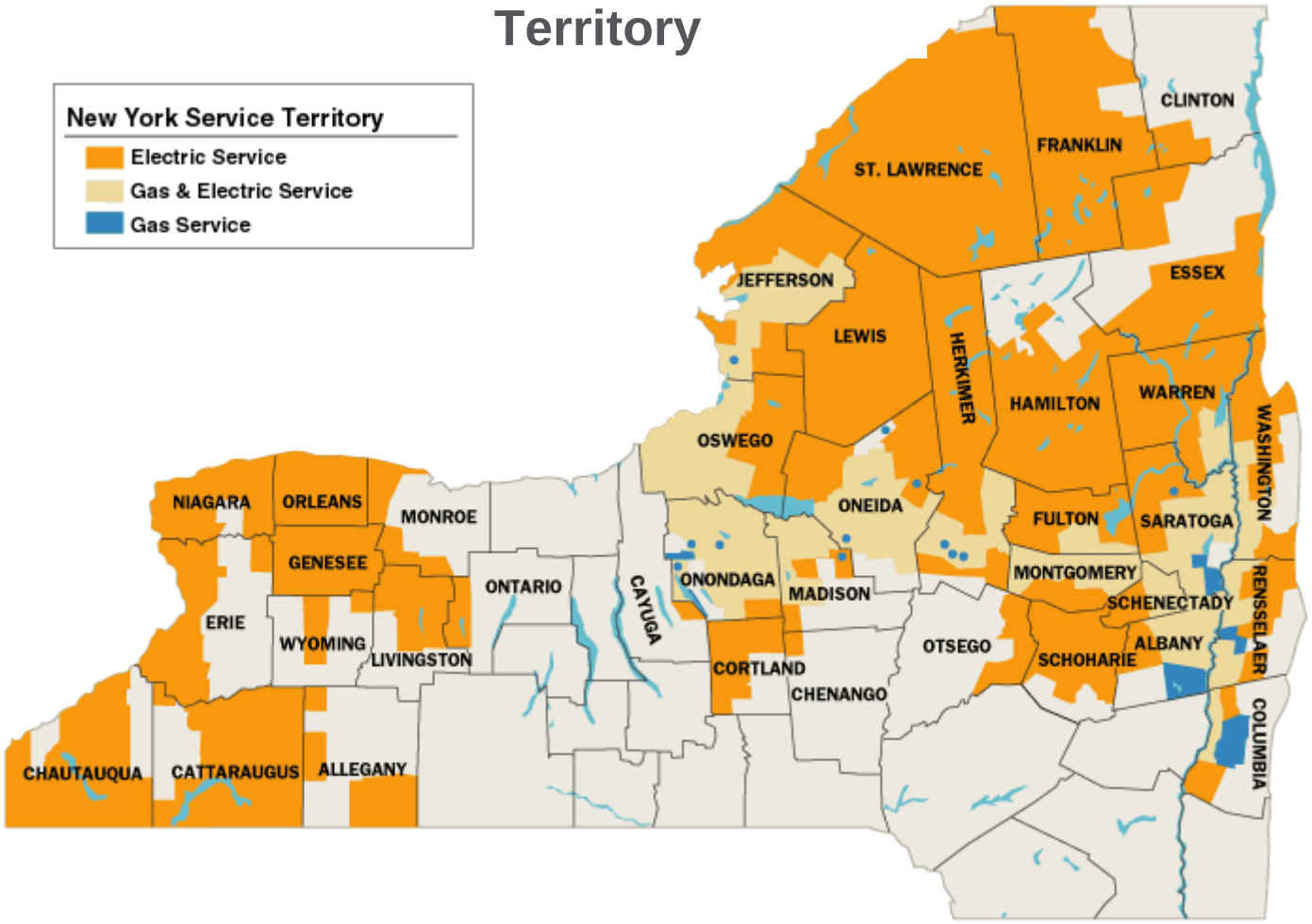
nationalgrid

# About National Grid

National Grid (NYSE: NGG)

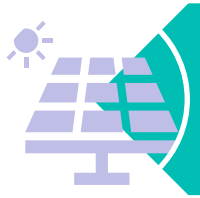
- electricity, natural gas, and clean energy delivery
- serving more than 20 million people through our networks in New York and Massachusetts.

## Upstate NY Service Territory



# Electric Generation - Interconnection Processes

New York Interconnection Framework



Standardized Interconnection Requirements (SIR) Process

Cost Sharing 2.0

Best Practices & Interconnection Resources

# New York Electric Interconnection Framework

## Standardized Interconnection Requirements

Ideally for Distribution Interconnection Up to 5 MW for VDER Compensation

## Utility Process

Ideally for Distribution Interconnection not seeking VDER Compensation and not under SIR or NYISO jurisdiction

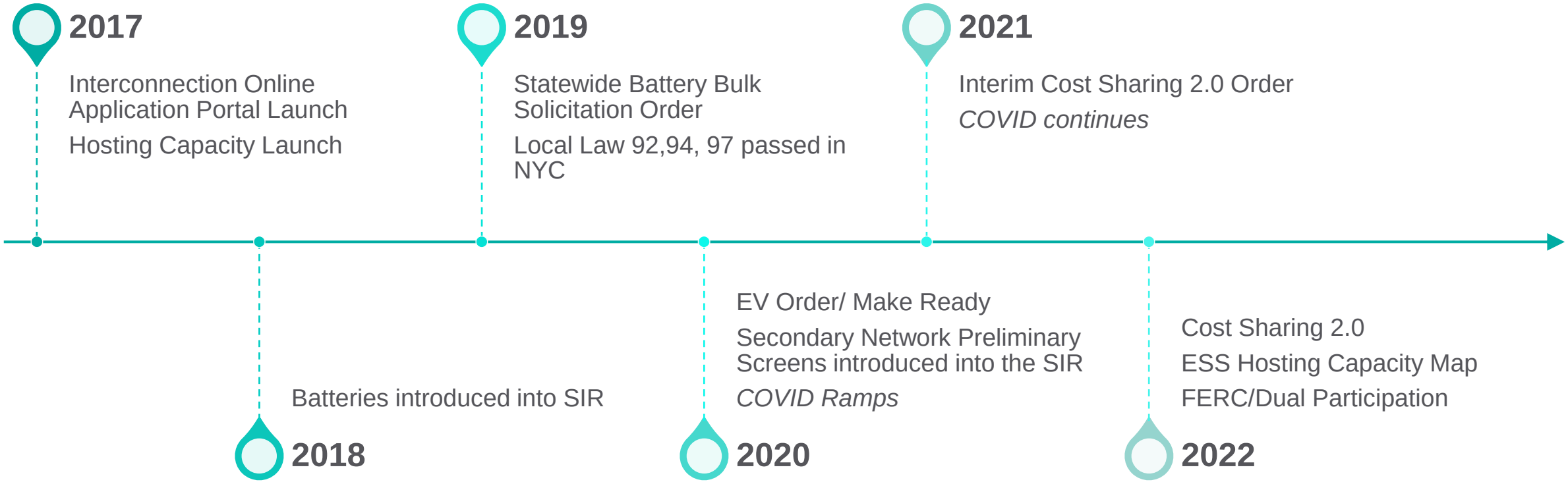
Consult with interconnecting utility.

## NYISO Process

Ideally for Distribution Interconnection  from 2MW not seeking VDER Compensation or those on the Bulk system

Review the Transmission Interconnection Guide and the following training modules for interconnection:

# New York Electric Interconnection Framework



# New York Electric Interconnection Framework

**Statewide working groups are chaired by Public Service Commission and NYSERDA**

Interconnection Policy Working Group

Interconnection Technical Working Group

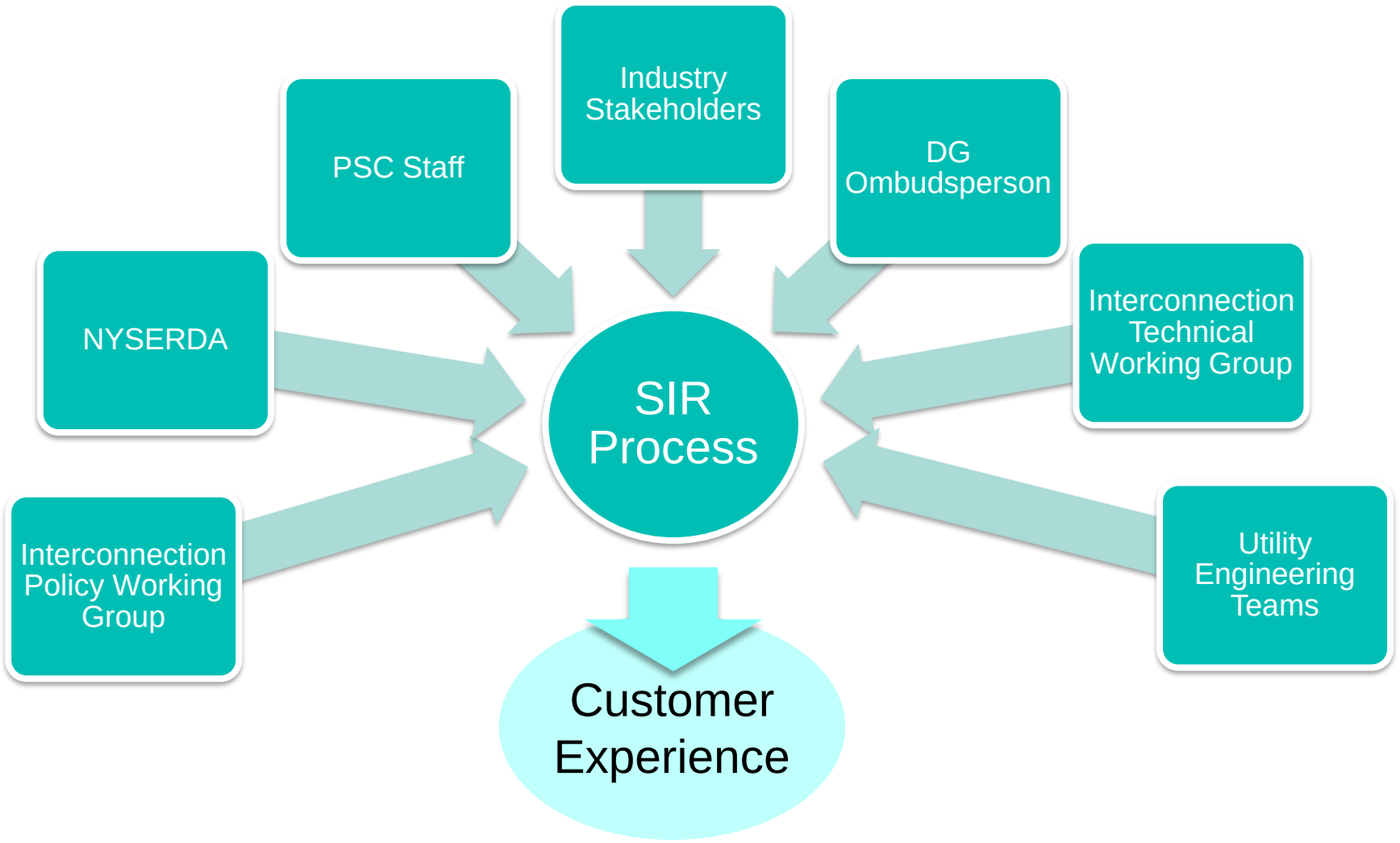
**Interconnection process is governed by the Standardized Interconnection Requirements (SIR)**

**Each utility also has a Distributed Generation Ombudsman as of 2016**

Interconnection Ombudsman Effort (ny.gov)

# SIR Process Overview

# Interconnection Process
# SIR Process Overview



# Interconnection Process
# SIR Process Overview

## Projects ≤ 50kW

No fee to apply

Mostly smaller residential applications

Could incorporate small commercial installations in the city

Timeline for installation is usually driven by developer's schedule

## Projects > 50kW up to 5MW

Application fee of $750 (non-refundable)

Projects undergo a screen

Series of standardized questions

If all Pass, project is approved

If Fail, additional study is required

Secondary Network Screens added in 2020

# Electric Interconnection Processes

## Best Practices & Interconnection Resources

- Review and **understand** the SIR Requirements and milestones
- Submit an understandable Appendix K
- Engage the local fire department and/or Authority Having Jurisdiction (AHJ)
- **Understand utility operating requirements and construction standards**
- Identify the Operational Parameters of the ESS System (hardware & software)
- Develop a reasonable construction timeline

# Electric Interconnection Processes

## Common Negative Impacts/Concerns

- Project fails to meet SIR milestones
- Appendix J (site control form) incorrect
- Stacking projects >5MW on one parcel/property
- Operational Parameters of the ESS System are too vague
- Modification submittals that are Material in nature

# Electric Interconnection Processes

## Storage “Stay Alert” Items

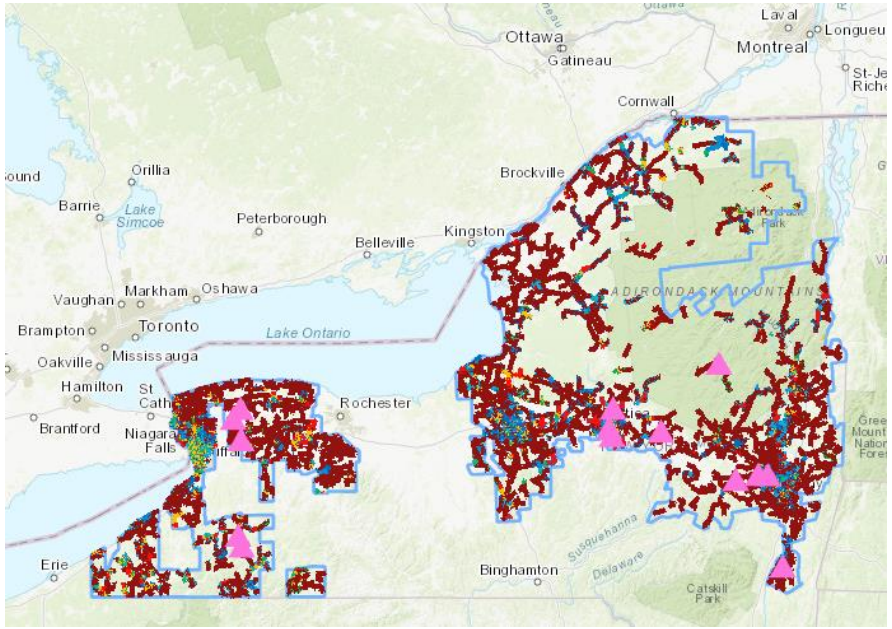
- IEEE 1547 Compliant Submittals
- UL 1741 SB Certification & Set Points
- Cost Sharing 2.0 Impacts
- Modification submittals that are Material in nature
- FERC 2222/Dual Participation Rules

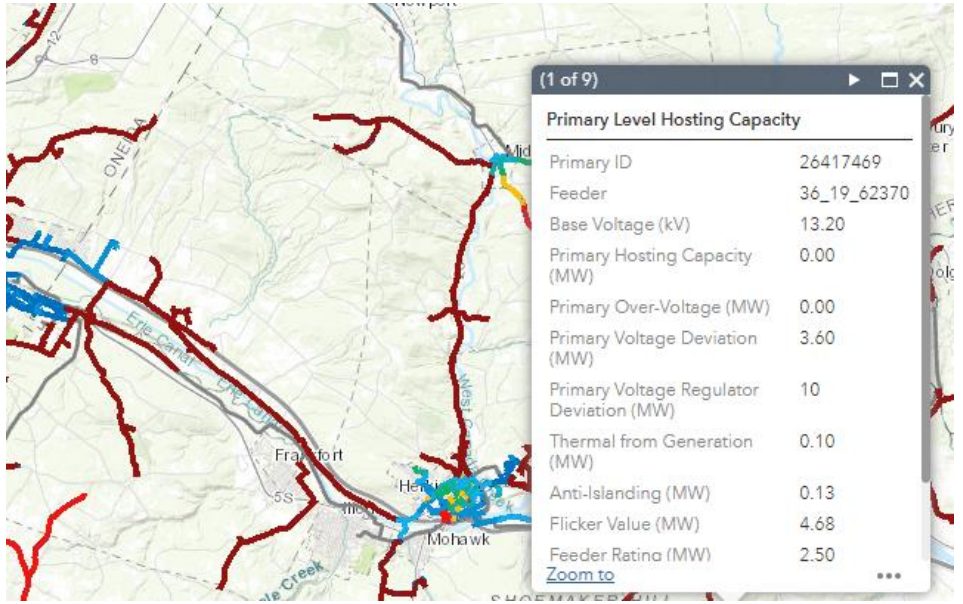
# System Data Portals

National Grid New York System Data Portal

Introduction | Company Reports | Distribution Assets Overview | PV Hosting Capacity | Electrification Capacity | ESS Hosting Capacity | LSRV/VDER | DG Cost Sharing | CESIR Pass Fail | REST API | NWA

National Grid New York




https://systemdataportal.nationalgrid.com/NY/

# Renewable Natural Gas



## What is RNG?

RNG is derived from a variety of organic waste materials used in daily life. For example: food waste, biodegradable plant material, animal waste, paper, cardboard, and wood. This abundance of renewable energy sources is important since wind and solar energy are intermittent and often rely on supplemental supply of power when the wind isn't blowing, or the sun isn't shining.

Renewable natural gas can play a significant role in the future of energy. While the biggest driver of the focus on renewable energy is greenhouse gas reduction, what makes renewable gas more compelling is that it also provides the following:

- Enhances diversity of supply
- Stimulates local economy and creates green jobs
- Provides a real and innovative solution for using local waste resources to produce renewable energy
- Reduces waste buildup
- Creates a more efficient use for the fuel
- Leverages the existing gas network to deliver a renewable fuel

# National Grid Clean Energy Vision - Fossil Free

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