

National Grid New York System Data Portal: User Guide

October 2022

The screenshot displays the National Grid New York System Data Portal interface. At the top, the title "National Grid New York System Data Portal" is visible, along with social media icons and the Esri logo. Below the title is a navigation menu with tabs for "Introduction", "Company Reports", "Distribution Assets Overview", "Hosting Capacity", "EV Load-Serving Capacity", "NWA", "LSRV/VDER", "REST API", and "DG Cost Sharing". The "Hosting Capacity" tab is currently selected.

The main content area features a map of New York State and surrounding regions, including parts of Ontario, Canada, and the Northeastern United States. The map is overlaid with numerous data points, primarily concentrated in the western and central parts of New York State, colored in shades of blue, yellow, and red. The map includes various geographical features such as Lake Ontario, Lake Erie, and Lake St. Clair, as well as major cities and towns. A search bar at the top left of the map area contains the text "Esri World Geocoder".

At the bottom of the map, there is a scale bar indicating 0 to 100 miles and a coordinate display showing "-75.401 45.258 Degrees". The bottom right corner of the map area includes the text "HERE, Garmin, FAO, NOAA, USGS, EPA, NPS | IMAP Admin | National Grid GIS, Joshua Carver-Brown, ..." and the Esri logo.



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[Click Here to Access the National Grid New York System Data Portal](#)

National Grid has created a collection of maps to help customers, contractors and developers identify potential project sites.

Each map provides the location and specific information for selected electric distribution lines and associated substations within the National Grid NY electric service area.

National Grid's electric system is dynamic. System configurations can change for a variety of reasons both planned and unplanned. National Grid will update the contents on a periodic basis so please be aware that the same location may show different information over time.

Please note that the portal and maps are not a guarantee that generators can interconnect at any particular time and place. A number of factors drive the ability and cost of interconnecting distributed generation to the electric system and actual interconnection requirements and costs will be determined following detailed studies. These studies will consider your specific project location, operating characteristics and timing. Additionally, environmental and other required permits are independent of our interconnection process and may limit the suitability of a particular site.

Detailed information on this process can be found at: [\(nCAP\) Customer Application Portal](#).

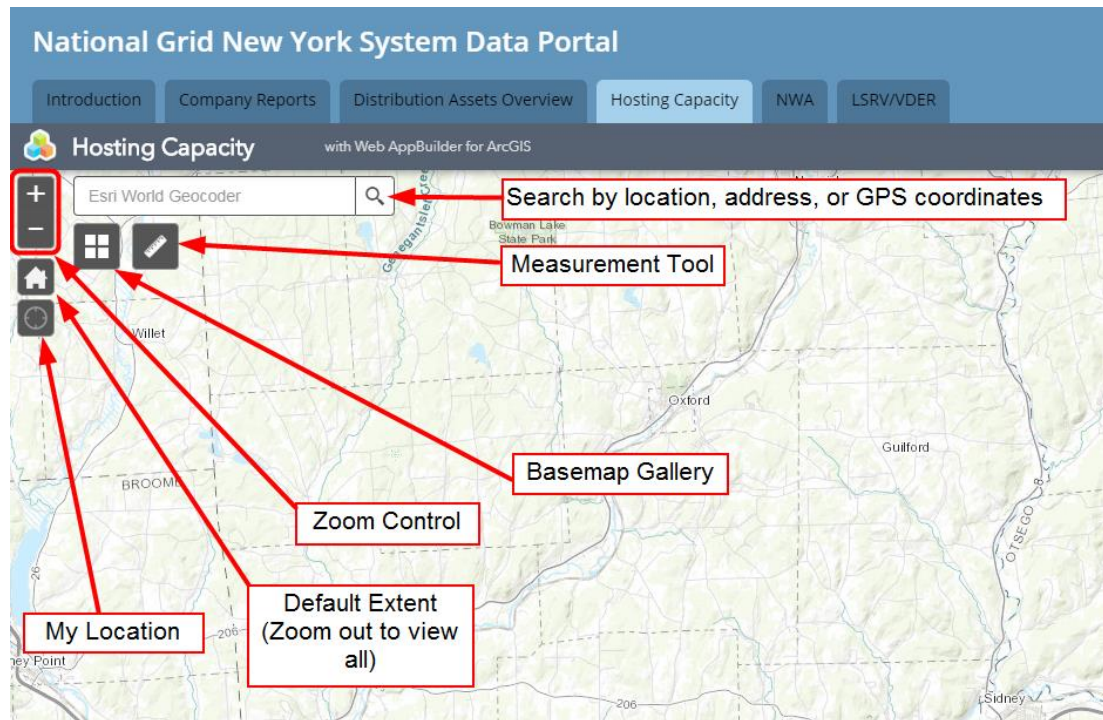
Navigation - Tabs

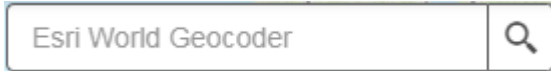
- The National Grid New York System Data Portal is organized into defined tabs with each tab containing specific information tailored to a certain aspect of the National Grid New York electric power system.

The screenshot displays the National Grid New York System Data Portal interface. At the top, the title "National Grid New York System Data Portal" is visible on the left, and "A story map" with social media icons and the Esri logo are on the right. Below the title, a horizontal navigation bar contains several tabs: "Introduction", "Company Reports", "Distribution Assets Overview", "Hosting Capacity", "NWA", and "LSRV/VDER". A red box highlights these tabs, and a red arrow points from a callout box to the "Introduction" tab. The callout box contains the text: "Select the tabs to navigate between different parts of the portal". Below the navigation bar, the page content includes a heading "National Grid New York System Information Portal", a paragraph of introductory text, a note about the portal's limitations, a link to the "nCAP Customer Application Portal", a "FAQs" section, a question about map availability, a note about the dynamic nature of the system, a question about instructions for using the portal, a link to "System Information Portal Help", a "Helpful Links" section, a link to "Joint Utilities of New York Home Page", and a "Contact Us" section. At the bottom, there is a footer with contact information: "For Inquiries related to this Portal, please contact: IMAP@nationalgrid.com with the subject line - NY System Data Portal".

Navigation – Portal Map

- The Distribution Assets Overview, Hosting Capacity, and LSRV/VDER tabs have displays built on an ESRI based mapping system.
- These tabs have similar functionalities with regard to navigation and display features.
- Several navigation icons are shown on the upper left-hand corner of the map.





- Search Bar: Type in an address, location, place, or set of GPS coordinates to automatically bring the desired location into view



- Zoom In/Out: Press “+” to incrementally zoom in and “-” to incrementally zoom out from the current view extent

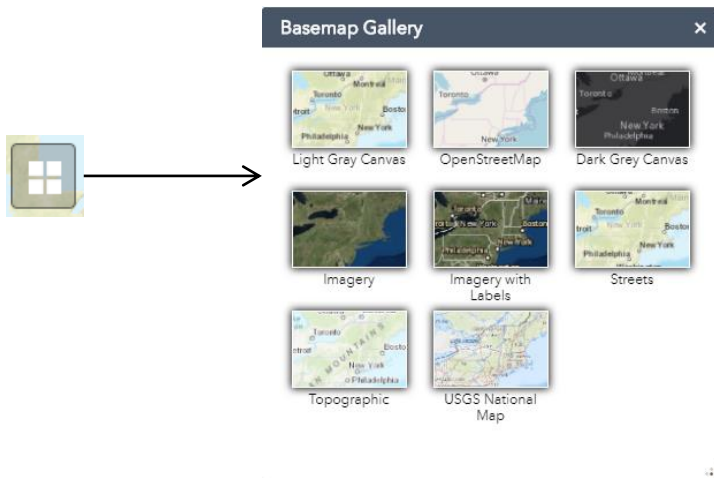


- Default Extent: Press this button to automatically zoom back to the default view extent (the entire map of the National Grid New York Service Territory)

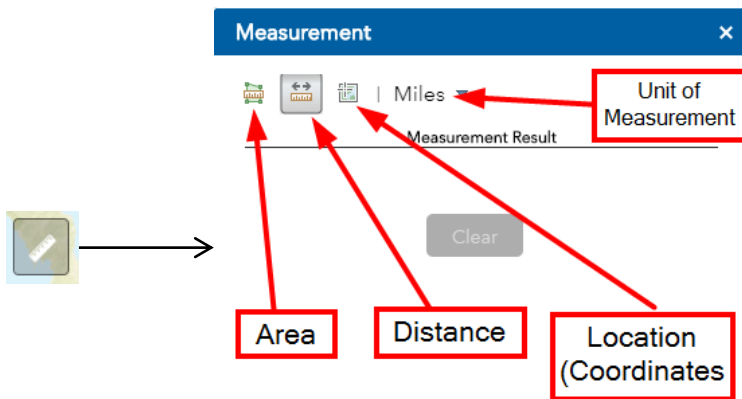


- My Location: Automatically zoom to the user’s current location (if the user’s browser is set up to detect the user’s current location)





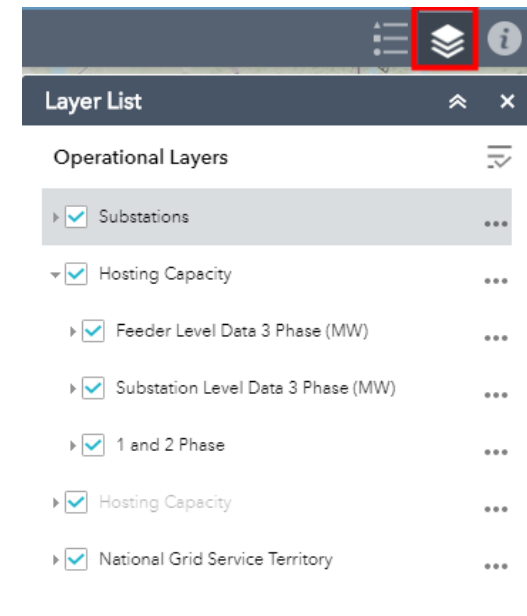
- Basemap Gallery: Choose from a list of basemaps to display as the background on the ESRI map



- Measurement Tool: Use this tool to make various measurements
 - Area: use mouse to click perimeter of area to measure (double click to close the shape)
 - Distance: use mouse to place markers and measure straight line distance (double click to terminate the trail)
 - Location: Hover mouse or click to drop a marker and display the latitude and longitude of the point

Navigation – Portal Map

- The upper right-hand corner of the map displays two icons that detail the map display:
 - First is the Legend icon which details the meanings of the colors shown in the map. Each map has a thin blue line that outlines National Grid's New York service territory. Below is the legend that is seen on the Hosting Capacity tab:
 - The second icon in the upper right-hand corner is the Layer List. The Layer List defines the various info that is stored in the layers on the ESRI map. Information can be hidden or brought to the front of the view by selecting/un-selecting these layers.



Navigation – Attribute Table

- Another important feature of the ESRI based map tabs is the attribute table which stores all pop-up information on the map in tabular form.
 - Double-clicking on a line item in the attribute table will automatically zoom the map to that object.
 - Columns can be added or removed from the table.
 - The “Filter by Map Extent” option can also be selected so that the contents of the attribute table automatically update based on the objects contained in the current map view. For example if the map was zoomed in on the city of Albany, only objects geographically located in Albany would show up in the attribute table.

National Grid New York System Data Portal

Hosting Capacity

Additional options including Export to CSV and Filter

Filter by map extent option

Click this button to display or hide the attribute table

Add or remove columns from the attribute table

Substation	Feeder	Feeder Nominal Voltage (kV)	Max 3-Ph HC (MW)	Min 3-Ph HC (MW)	Anti-Islanding Hosting Capacity Limit (MW)	Feeder DG Connected (MW)	Feeder DG in Queue (MW)	Feeder DG Connected Since Last HCA Refresh (MW)	Load Zone	DG Connected/In Queue Refresh Date	HCA Refresh Date
121 CLINTON ST	36_01_12161	4.80	1.90	0.30	0.18	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12462	4.16	2.40	0.50	0.33	0.04	0.01	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12463	4.16	2.55	0.50	0.13	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12464	4.16	2.38	1.00	0.3	0.00	0.66	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12465	4.16	1.92	0.20	0.13	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
174 ALMIDA AVE	36_01_1746A	4.16	1.51	0.50	0.24	0.02	0.00	0.00	A-1	August 31, 2019	September 12, 2019

1916 features 0 selected

Navigation – Attribute Table

- The contents of the attribute table can be exported to CSV format by selecting “Export All to CSV” under the “Options” menu.
- The contents of the table can also be filtered through the “Options” menu.
 - The attribute table can be filtered by any of the line items contained in the pop-ups on that particular tab and multiple filters can be applied simultaneously.
 - Once the filter is set, the contents of the attribute table will update accordingly as will the objects viewable on the map. In other words, only the objects that meet the criteria of the filter will be displayed on the map (by selecting the appropriate layers).
 - The below example shows a filter applied to the Hosting Capacity tab to only display feeders with a minimum hosting capacity of at least 2.5MW and less than .5MW of DG Connected.

Substation	Feeder	Feeder Nominal Voltage (kV)	Max 3-Ph HC (MW)	Min 3-Ph HC (MW)	Amalgamating Hosting Capacity (MW)	Feeder DG Connected (MW)	Feeder DG in Queue (MW)	Feeder DG Connected Since Last HCA Refresh	Load Zone	DG Connected In Queue Refresh Date	HCA Refresh Date
124 ALMIDA AVE	38_01_12443	4.16	2.55	2.55	0.13	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
140 MAPLE RD	38_01_14051	13.20	9.63	4.42	0.44	0.03	0.01	0.00	A-1	August 31, 2019	September 12, 2019
140 MAPLE RD	38_01_14052	13.20	9.12	3.20	0.71	0.12	0.04	0.00	A-1	August 31, 2019	September 12, 2019
203 ERIE DRIVE	38_01_20352	13.20	4.09	4.00	0.23	0.16	0.00	0.00	A-1	August 31, 2019	September 12, 2019
203 ERIE DRIVE	38_01_20353	13.20	4.09	4.10	0.19	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
211 AYER RD	38_01_21150	13.20	7.32	0.20	0.24	0.00	0.01	0.00	A-1	August 31, 2019	September 12, 2019



- The Introduction Tab provides an overview of the System Data Portal, with FAQs and a link to this User's Guide. Additionally, a link to National Grid's Interconnection Online Application Portal, nCAP, is provided.

The screenshot shows the 'National Grid New York System Data Portal' interface. At the top, there is a navigation bar with several tabs: 'Introduction' (highlighted with a red box), 'Company Reports', 'Distribution Assets Overview', 'Hosting Capacity', 'NWA', and 'LSRV/VDER'. To the right of the navigation bar, there is a social media share icon and the Esri logo. Below the navigation bar, the page title is 'National Grid New York System Information Portal'. The main content area contains several sections: a paragraph about the collection of maps, a note about the dynamic nature of the system, a section for FAQs with two questions, a 'Helpful Links' section with one link, and a 'Contact Us' section with contact information. The footer of the page contains the email address 'IMAP@nationalgrid.com'.

National Grid New York System Data Portal

A story map

Introduction Company Reports Distribution Assets Overview Hosting Capacity NWA LSRV/VDER

National Grid New York System Information Portal

National Grid has created a collection of maps to help customers, contractors and developers identify potential project sites. Each map provides the location and specific information for selected electric distribution lines and associated substations within the National Grid NY electric service area. National Grid's electric system is dynamic. System configurations can change for a variety of reasons both planned and unplanned. National Grid will update the contents on a periodic basis so be aware that the same location may show different information over time.

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Detailed information on this process can be found at: [nCAP Customer Application Portal](#)

FAQs

Will the maps be made available directly in a downloadable format?
At this time, National Grid does not anticipate making the maps available in any other downloadable format due to the dynamic nature of National Grid's electric system and the prospect of different users having files with different system configurations. To ensure that National Grid is providing authoritative content the company must be able to maintain its content in an authoritative format.

Are instructions for using the portal available?
To help enable the use of the portal National Grid has provided a guide in pdf format. This can be accessed here: [System Information Portal Help](#)

Helpful Links

[Joint Utilities of New York Home Page](#)




Contact Us

For Inquiries related to this Portal, please contact: IMAP@nationalgrid.com with the subject line - NY System Data Portal

Tab - Company Reports

- The Company Reports Tab includes various regulatory filings and company reports including:
 - The 5 Year Transmission and Distribution Capital Investment Plan
 - The 15 year Electric Transmission and Distribution Planning Report
 - The 15 Year Electric Peak Load Forecast Report
 - The Reliability, Summer Preparedness, Condition Assessment, and Power Quality Reports
 - The 2017 Hourly MLoad report showing the aggregated system load for National Grid's NY service territory
 - National Grid's 2018 Distributed System Implementation Plan

National Grid New York System Data Portal

A story map    

Introduction **Company Reports** Distribution Assets Overview Hosting Capacity NWA LSRV/VDER

National Grid New York

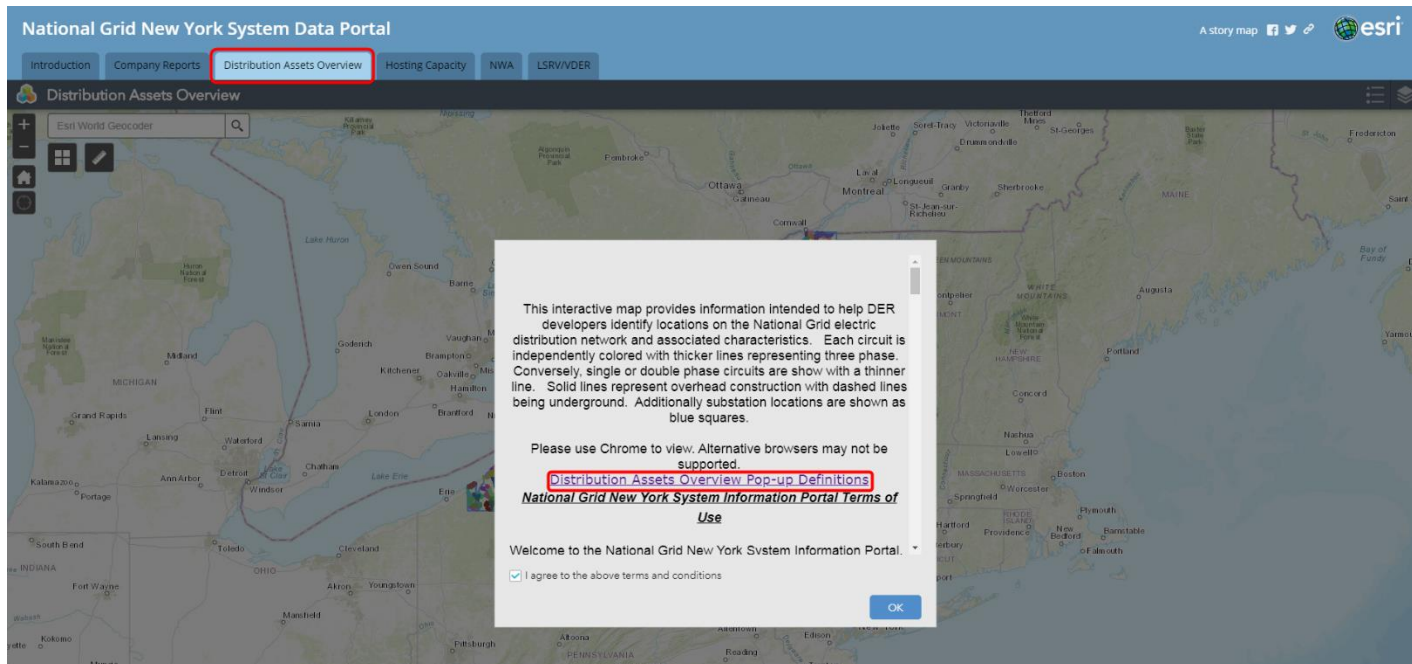
Filed Company Reports

[National Grid UNY \(Niagara Mohawk\) - 5 Year T&D Capital Investment Plan](#)
[National Grid UNY \(Niagara Mohawk\) - 15 Year Electric T&D Planning Report](#)
[National Grid UNY \(Niagara Mohawk\) - Condition Assessment Report](#)
[National Grid UNY \(Niagara Mohawk\) - Peak Load Forecast](#)
[National Grid UNY \(Niagara Mohawk\) - Reliability Report](#)
[National Grid UNY \(Niagara Mohawk\) - Summer Preparedness](#)
[National Grid UNY \(Niagara Mohawk\) - Power Quality](#)
[National Grid UNY \(Niagara Mohawk\) - 2017 Hourly MLoad](#)
[National Grid UNY \(Niagara Mohawk\) - 2018 Distributed System Implementation Plan](#)
[National Grid UNY \(Niagara Mohawk\) - 2018 DSIP Stakeholder Session Slides](#)
[National Grid BCA Handbook](#)



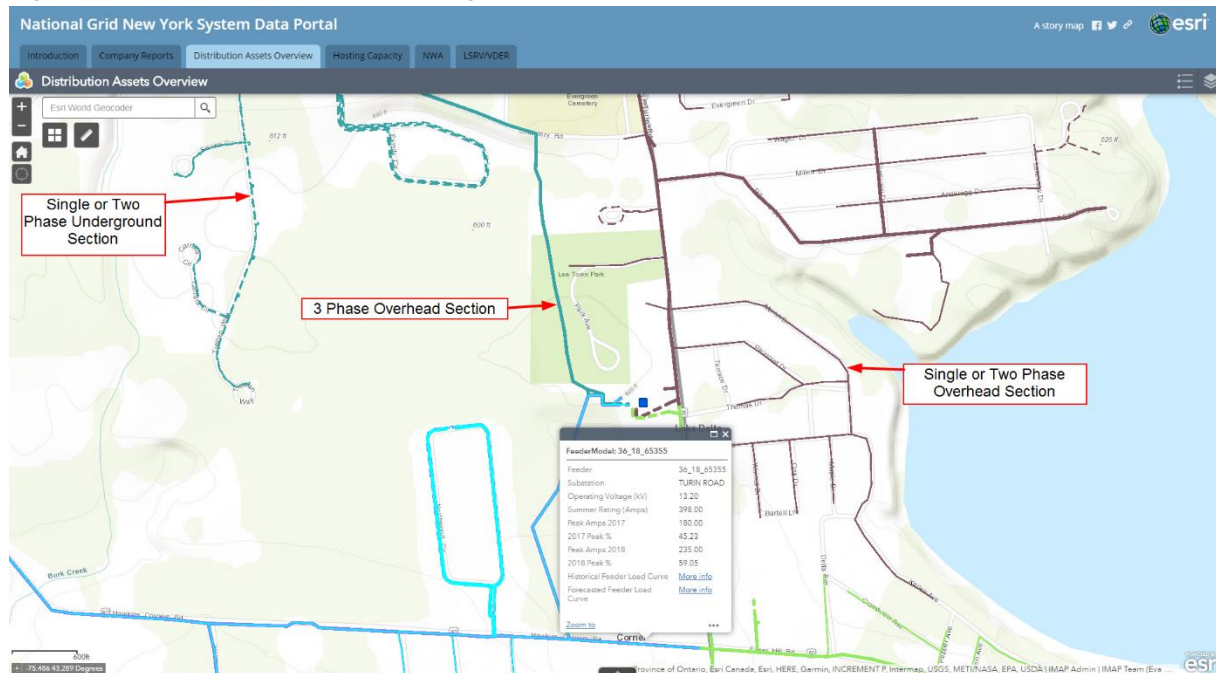
Tab - Distribution Assets Overview

- The Distribution Assets Overview Tab provides planning information for feeders including historical and forecasted loading information. The data on this tab can be used to understand potential system constraints that may impact future interconnections.
- The pop-up that appears when the tab is initially selected contains disclaimer information as well as a link to a PDF with descriptions of each data point found in the pop-ups on the map.



Tab - Distribution Assets Overview

- The feeder objects themselves are colored randomly based on the feeder name.
- Bold lines represent three phase while thin lines represent single and two phase.
- Overhead sections are represented by solid lines while underground sections are represented by dashed lines.
- When a feeder is selected, a pop-up window will display information for the selected feeder.
 - Line items include peak loading on the feeder from the two previous years.
 - General feeder characteristics are also displayed such as the Substation Name, Operating Voltage, and the Summer Rating of the feeder.

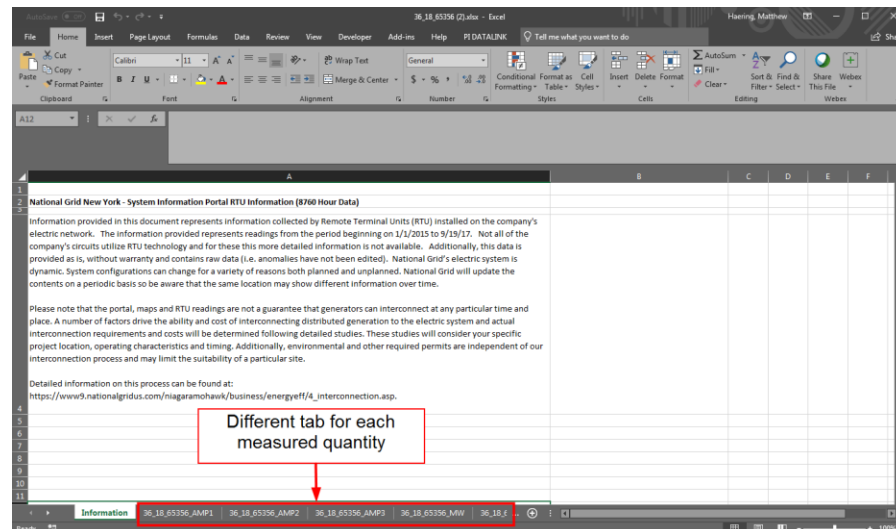


Tab - Distribution Assets Overview

- The final two line items in the pop-up contain links to historical and forecasted feeder loading data.
- Historical Feeder Load Curve - If National Grid has communications with this feeder, this line item will be populated with a link to a downloadable excel file containing raw historical measurements on the feeder.
 - If there are no communications with the selected feeder and therefore no data to present, the entry in this line item will read “No additional 8760 information available”.
 - If there is data for this feeder, the entry in this line item will be a link titled “More Info”. Selecting this link will begin the download of an excel file containing the raw historical feeder level data.
 - This file will have a tab with a disclaimer followed by a separate tab for each measured value (i.e. Amps on Phase A or MW).

FeederModel: 36_18_65356	
Feeder	36_18_65356
Substation	TURIN ROAD
Operating Voltage (kV)	13.20
Summer Rating (Amps)	398.00
Peak Amps 2017	83.00
2017 Peak %	20.85
Peak Amps 2018	134.00
2018 Peak %	33.67
Historical Feeder Load Curve	More info
Forecasted Feeder Load Curve	More info

[Zoom to](#) ...



Tab - Distribution Assets Overview

- Forecasted Feeder Load Curve - This line item will be populated with a link to a downloadable CSV file containing 5 years of forecasted hourly feeder loading.

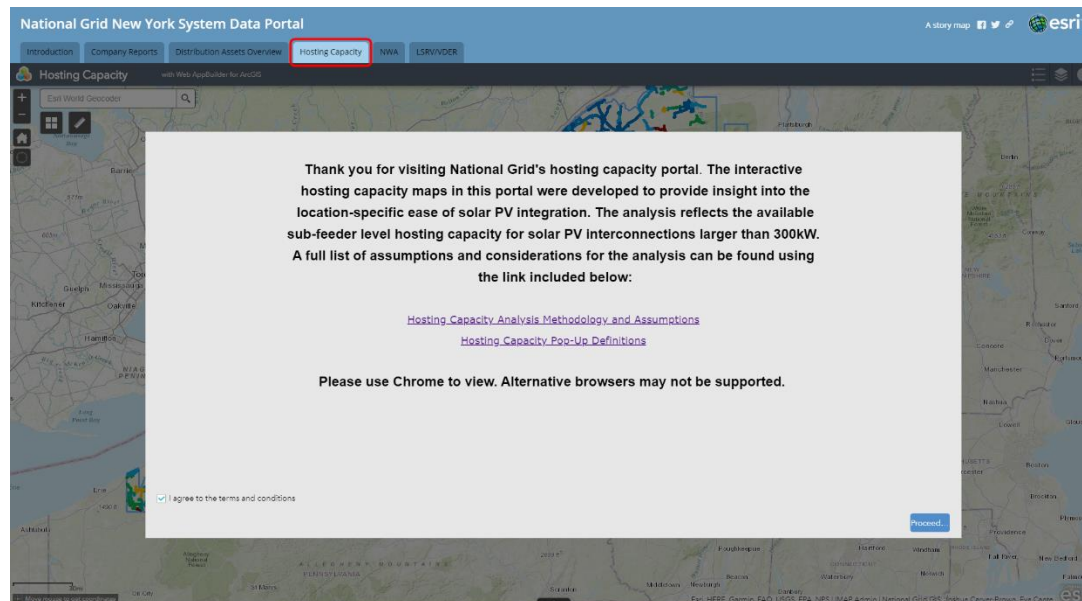
FeederModel: 36_18_65356

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Forecasted Feeder Load Curve	More info

[Zoom to](#) ...

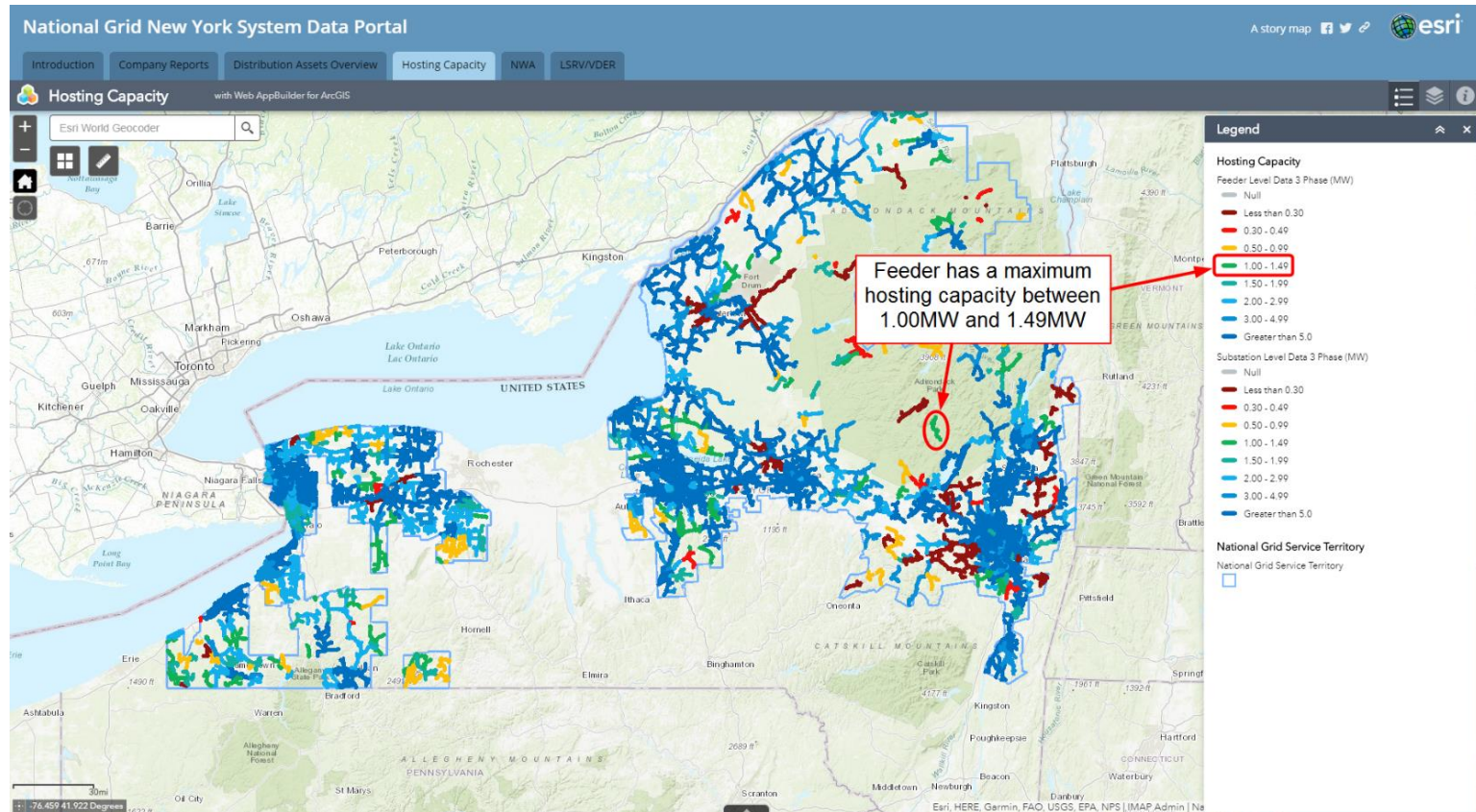
Timestamp	Load (kW)
2/23/2020 6:00	1241
2/23/2020 7:00	1203
2/23/2020 8:00	1172
2/23/2020 9:00	1143
2/23/2020 10:00	1167
2/23/2020 11:00	1229
2/23/2020 12:00	1342
2/23/2020 13:00	1524
2/23/2020 14:00	1536
2/23/2020 15:00	1602
2/23/2020 16:00	1593
2/23/2020 17:00	1584
2/23/2020 18:00	1542
2/23/2020 19:00	1534
2/23/2020 20:00	1628
2/23/2020 21:00	1706
2/23/2020 22:00	1885
2/23/2020 23:00	1975
2/24/2020 0:00	1909
2/24/2020 1:00	1821
2/24/2020 2:00	1738
2/24/2020 3:00	1572
2/24/2020 4:00	1438
2/24/2020 5:00	1270
2/24/2020 6:00	1188
2/24/2020 7:00	1186
2/24/2020 8:00	1165
2/24/2020 9:00	1191
2/24/2020 10:00	1275
2/24/2020 11:00	1378
2/24/2020 12:00	1425
2/24/2020 13:00	1354
2/24/2020 14:00	1317
2/24/2020 15:00	1323
2/24/2020 16:00	1344
2/24/2020 17:00	1268
2/24/2020 18:00	1283
2/24/2020 19:00	1356
2/24/2020 20:00	1416
2/24/2020 21:00	1559

- The PV Hosting Capacity Tab shows an estimate of the amount of solar PV that may be accommodated by a feeder without adversely impacting power quality or reliability under current configurations and without infrastructure upgrades.
- When the Hosting Capacity Tab is selected a screen appears showing links to two PDFs that should be read carefully before going further:
 - Hosting Capacity Analysis Methodology and Assumptions: This document explains the assumptions and methods used in calculating the hosting capacity values and sheds light on how the results should be interpreted
 - Hosting Capacity Pop-Up Definitions: This document provides detailed explanations of each line item in the pop-ups displayed on this tab



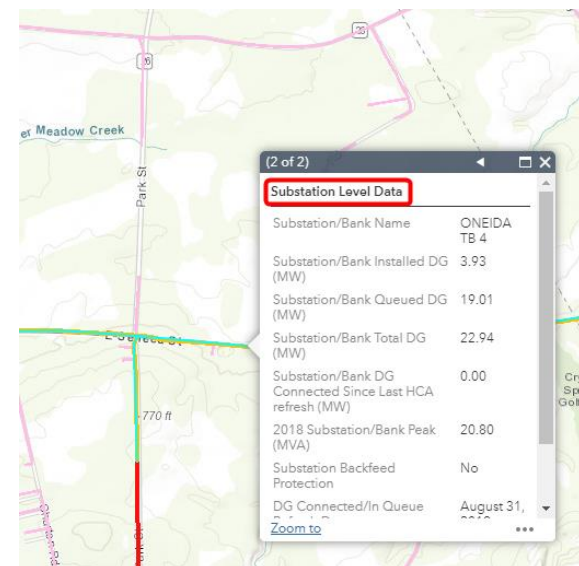
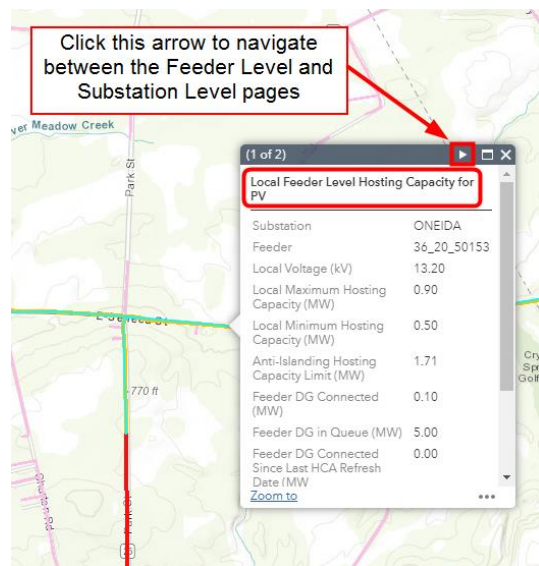
Tab – PV Hosting Capacity

- At the default extent level, feeders on the hosting capacity tab are colored according to their maximum hosting capacity value. The range of values which each color symbolizes is shown in the legend.



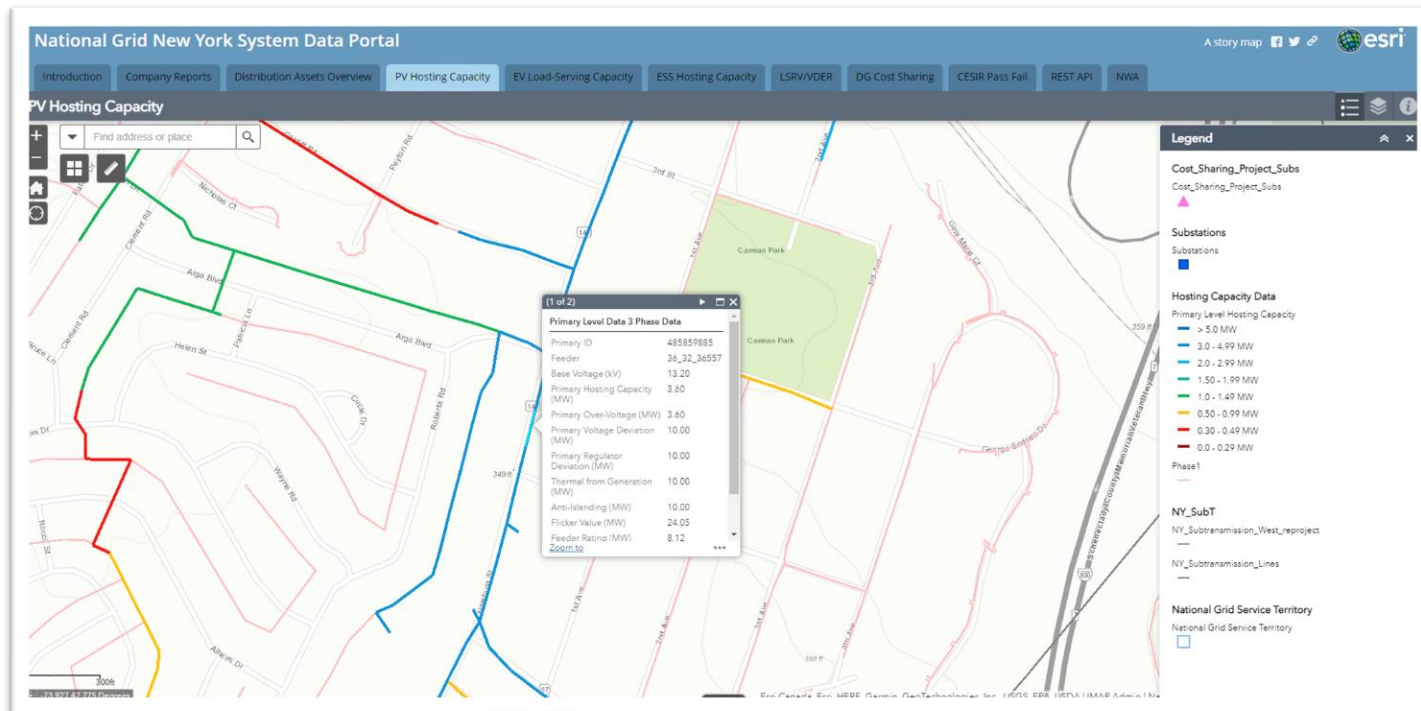
Tab – PV Hosting Capacity

- Like the distribution assets overview tab, when a feeder is selected an informative pop-up appears.
- The pop-up on the Hosting Capacity tab includes two pages: a Feeder Level page and a Substation Level page
 - The Feeder Level page includes information such as the local minimum and maximum hosting capacity of the selected grouping, the DG connected and in queue on the feeder, the dates the information were last refreshed, and some general feeder characteristics
 - The Substation Level page includes information such as DG connected and in queue at the substation bank level, the previous year's peak at the substation bank, and the status of DG backfeed protection at the station.



Tab – PV Hosting Capacity

- Once zoomed in, the sub-feeder level analysis appears and various color groupings are observed across each feeder.
 - Each grouping is still colored according its maximum hosting capacity, however the sub-feeder level analyses display how hosting capacity changes over the length of a feeder and provide the feeder violation data.
- Three phase sections are shown with a bold line while single and two phase sections are shown with a thin pink colored line.



Tab – PV Hosting Capacity

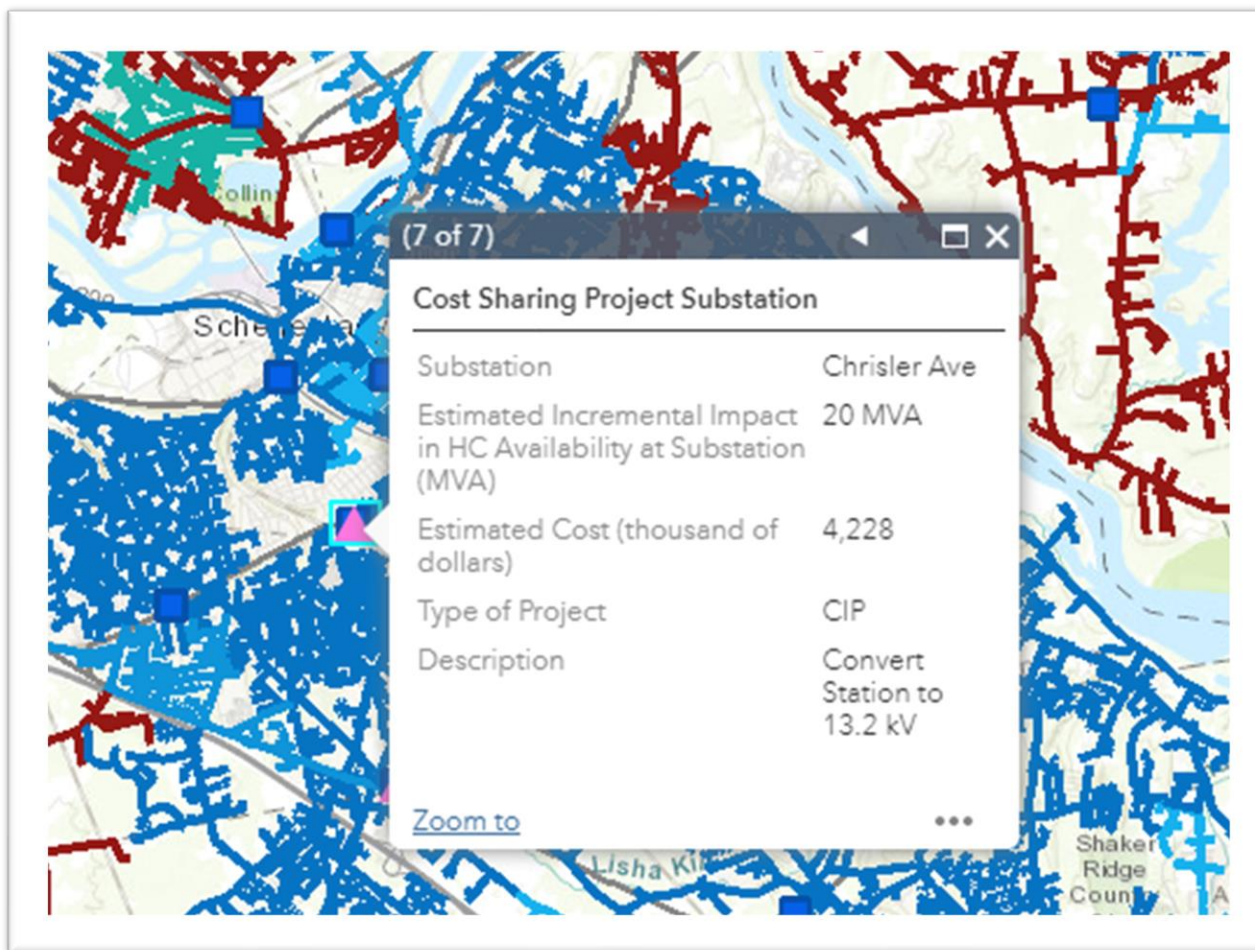
- The attribute table on the hosting capacity page has one tab for the feeder level data and one tab for the substation level data.
 - Note that sub-feeder level data is not captured in the attribute table
- As shown previously, the Hosting Capacity tab is a good place to apply filters in order to identify the feeders that meet a specified set of criteria (Attribute Table: Options → Filter).

The screenshot shows the National Grid New York System Data Portal. The top navigation bar includes 'Introduction', 'Company Reports', 'Distribution Assets Overview', 'Hosting Capacity', 'NWA', and 'LSRV/VDER'. The 'Hosting Capacity' tab is active. Below the navigation is a search bar and a map of the New York region. The map displays various colored points representing PV hosting capacity data. Below the map is an attribute table with two tabs: 'Feeder Level Data 3 Phase (MW)' and 'Substation Level Data 3 Phase (MW)'. The 'Feeder Level Data 3 Phase (MW)' tab is selected, showing a table with 12 columns and 6 rows of data.

Substation	Feeder	Feeder Nominal Voltage (kV)*	Max 3-Ph HC (MW)	Min 3-Ph HC (MW)	Anti-Islanding Hosting Capacity Limit (MW)	Feeder DG Connected (MW)	Feeder DG in Queue (MW)	Feeder DG Connected Since Last HCA Refresh (MW)	Load Zone	DG Connected/In Queue Refresh Date	HCA Refresh Date
121 CLINTON ST	36_01_12161	4.80	1.90	0.30	0.18	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
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124 ALMEDA AVE	36_01_12463	4.16	2.55	2.55	0.13	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12464	4.16	2.38	1.00	0.3	0.00	0.66	0.00	A-1	August 31, 2019	September 12, 2019
124 ALMEDA AVE	36_01_12465	4.16	1.92	0.20	0.13	0.00	0.00	0.00	A-1	August 31, 2019	September 12, 2019
174 Al MFDA AVE	36_01_17466	4.16	1.51	0.50	0.24	0.02	0.00	0.00	A-1	August 31, 2019	September 12, 2019

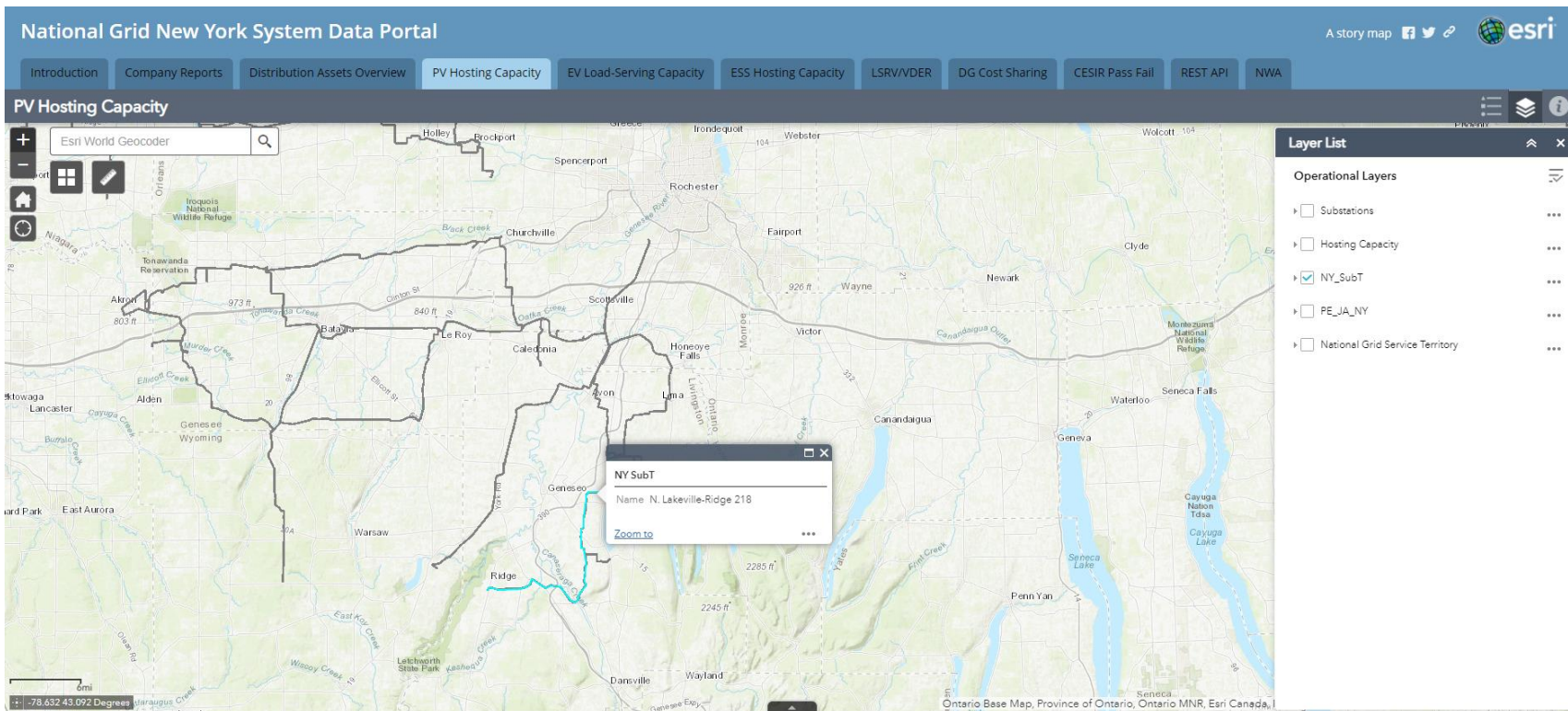
Tab – PV Hosting Capacity

- The location of DG cost sharing projects at substations is provided on the map. It shows the location of the project and provides details on the project.



Tab – PV Hosting Capacity

- The location and name of our Sub-transmissions lines has been added to our PV Hosting Capacity map. It can be viewed as a layer by itself or with all the other PV HCA data by selecting the desired layers.



Tab – EV Load-Serving Capacity

- The EV Load-Serving Capacity Tab shows an estimate of the amount of load for that may be accommodated by a feeder without adversely impacting power quality or reliability under current configurations and without infrastructure upgrades.
- When the EV Load-Serving Capacity Tab is selected a screen appears showing links to two PDFs that should be read carefully before going further:
 - National Grid New York System Information Portal Terms of Use: This document explains the terms of use you agree upon to use the EV Load-Serving Capacity Tab.
 - EV Load-Serving Capacity Pop-Up Definitions: This document provides detailed explanations of each line item in the pop-ups displayed on this tab.

The analysis results presented in these displays provide the remaining available load capacity for the distribution circuits evaluated. The maps included herein are an estimate of the remaining circuit and substation load capacity to help guide electric vehicle charging developers to areas where direct current fast charging (DCFC) electric vehicle supply equipment (EVSE) can likely interconnect with minimal needs for system reinforcement. Please note that this analysis was conducted under current configurations and prior to any planned infrastructure upgrades such as reconductoring.

The maps represent the remaining feeder and substation capacity only and do not account for all factors, such as other loads in queue, that could impact EVSE interconnection costs. The maps account for the most limited rating at the feeder head and does not account for any smaller rated equipment downstream of the feeder head (i.e., step-down ratios or smaller conductors). This data is being provided for informational purposes only and is not intended to be a substitute for the established customer application process.

[National Grid New York System Data Portal Terms of Use](#)

[EV Load-Serving Capacity Pop-Up Definitions](#)

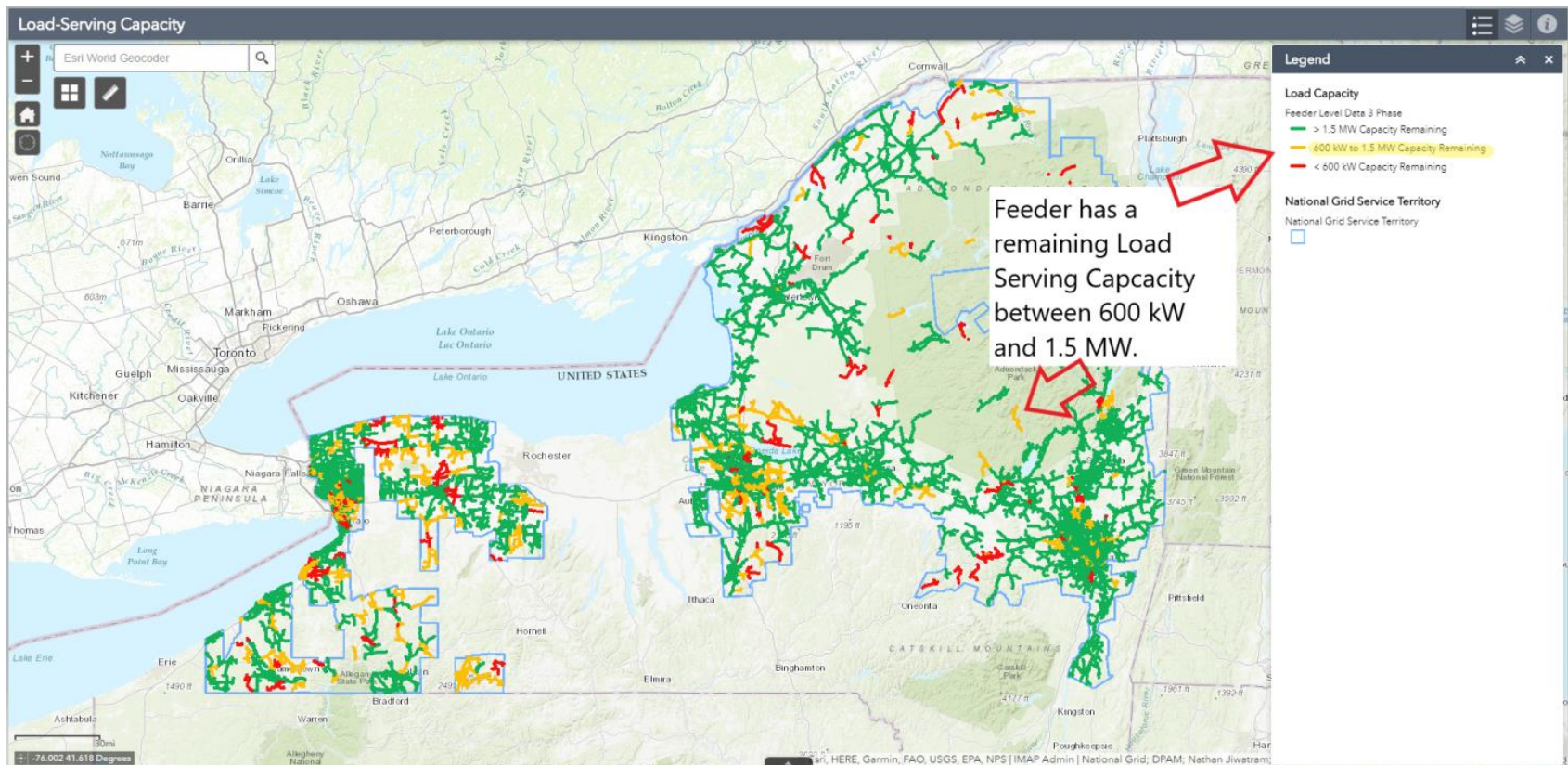
Please use Chrome to view. Alternative browsers may not be supported.

I agree to the terms and conditions

Substation	Feeder	Circuit Voltage (kV)	Feeder Rating MW	EV Feeder Load Capacity Headroom MW
124 ALMEDA AVE	36_01_12462	4.16	2.40	0.66
124 ALMEDA AVE	36_01_12463	4.16	2.55	1.87
124 ALMEDA AVE	36_01_12464	4.16	2.38	0.72
124 ALMEDA AVE	36_01_12465	4.16	1.92	1.33
124 ALMEDA AVE	36_01_12466	4.16	1.51	0.45
124 ALMEDA AVE	36_01_12467	4.16	2.40	0.79
124 ALMEDA AVE	36_01_12468	4.16	2.31	1.06

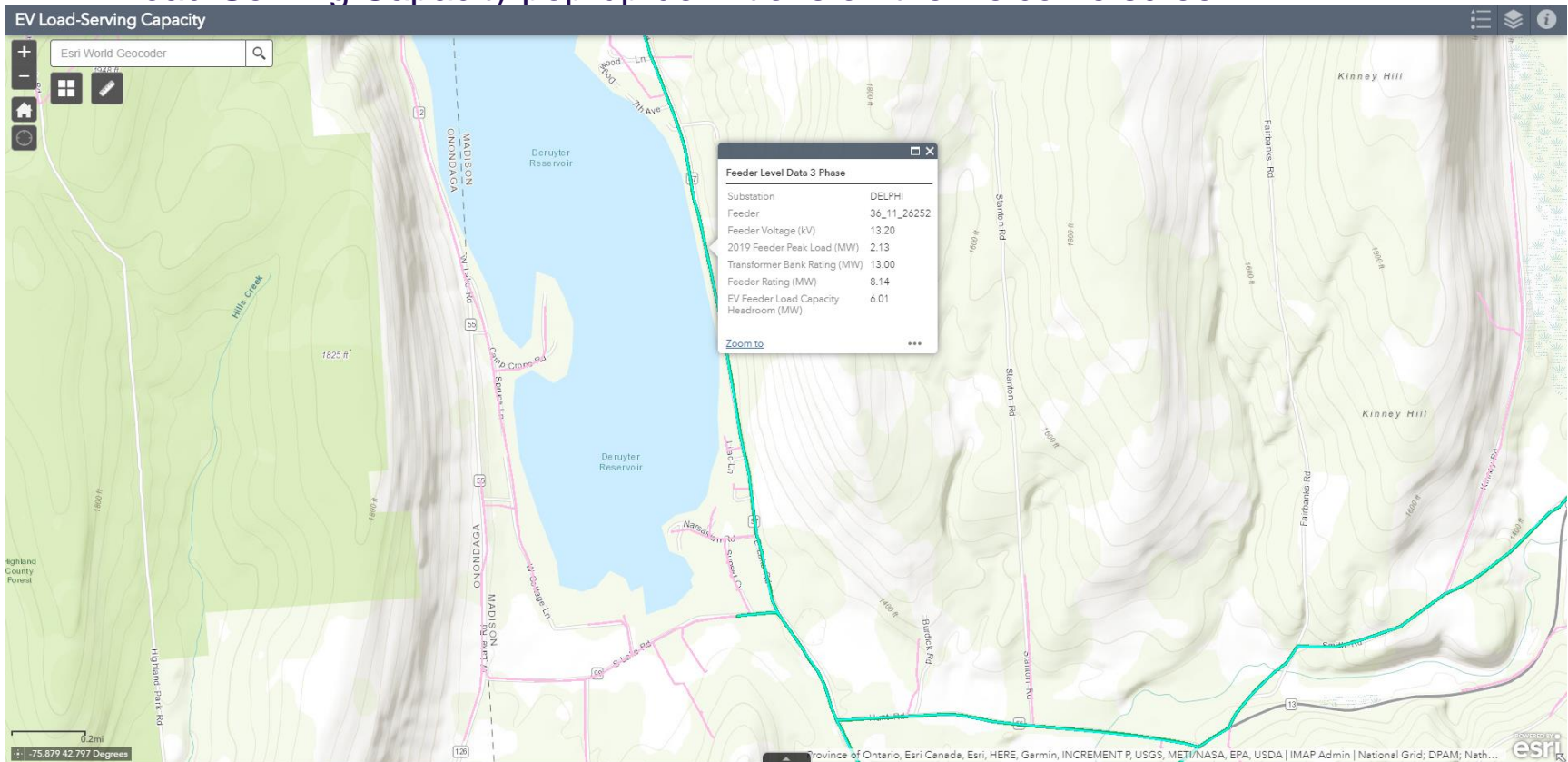
Tab – EV Load-Serving Capacity

- The EV Load-Serving Capacity tab are colored according to their remaining load-serving capacity value. The range of values which each color symbolizes is shown in the legend.



Tab – EV Load-Serving Capacity

- The pop-up on the EV Load-Serving Capacity tab includes information on the selected feeder in a pop-up including name and substation. It also contains technical data of the Voltage (kV), Peak (MW), Feeder Head Ratings (MW), and EV Feeder Load Capacity Headroom (MW). More explanation is provided on the EV Load-Serving Capacity pop-up definitions on the welcome screen.



Tab – EV Load-Serving Capacity

- The feeder popup data is able to be exported in an attribute table on the EV Load-Serving Capacity tab.
- As shown previously, the EV Load Serving Capacity tab is a good place to apply filters in order to identify the feeders that meet a specified set of criteria (Attribute Table: Options → Filter).

The screenshot shows the 'EV Load-Serving Capacity' application interface. A map displays a geographical area with a red box highlighting the 'Options' menu in the table header. A 'Filter' dialog box is open, showing options to 'Add a filter expression' and 'Add an expression set'. Below the map, a table displays feeder data with columns for Substation, Feeder, Circuit, and Feeder Rating MW.

Substation	Feeder	Circuit	Feeder Rating MW	EV Feeder Load Capacity Headroom MW
POMPEY	36_11_12081	4.16	1.80	2.16
CARDIFF	36_11_1324	4.16	0.94	1.84
BALLINA	36_11_22151	13.20	5.95	6.86
SOUTHWOOD	36_11_24453	13.20	7.08	8.23
DELPHI	36_11_26251	13.20	1.52	8.14
DELPHI	36_11_26252	13.20	2.13	8.14
DELPHI	36_11_26253	13.20	4.35	9.03

- The Energy Storage Hosting Capacity Tab shows an estimate of the amount of Energy Storage System that may be accommodated by a feeder without adversely impacting power quality or reliability under current configurations and without infrastructure upgrades.
- When the Hosting Capacity Tab is selected a screen appears showing the legal disclaimer to one PDFs that should be read carefully before going further: The ESS Hosting Capacity Analysis Methodology and Assumptions: This document explains the assumptions and methods used in calculating the hosting capacity values and sheds light on how the results should be interpreted

Thank you for visiting National Grid's Battery Energy Storage Hosting Capacity Portal. The maps represent the feeder level energy storage hosting capacity only and do not account for all factors, such as other loads in queue, that could impact energy storage interconnection costs.

The maps are color-coded by the feeder maximum hosting capacity value. As a rule of thumb, the maximum hosting capacity value is indicative of the available hosting capacity at a specific location across the feeder segment, most often located at the beginning of a feeder's three-phase mainline. The minimum hosting capacity value is indicative of the available hosting capacity across the length of the feeder and most often defined by the hosting capacity value located at the end of the three-phase mainline.

To calculate the hosting capacity, the output change for voltage deviation was input as 200%.

This data is being provided for informational purposes only and is not intended to be a substitute for the established customer application process. A full list of assumptions and considerations for the analysis can be found using the link below:

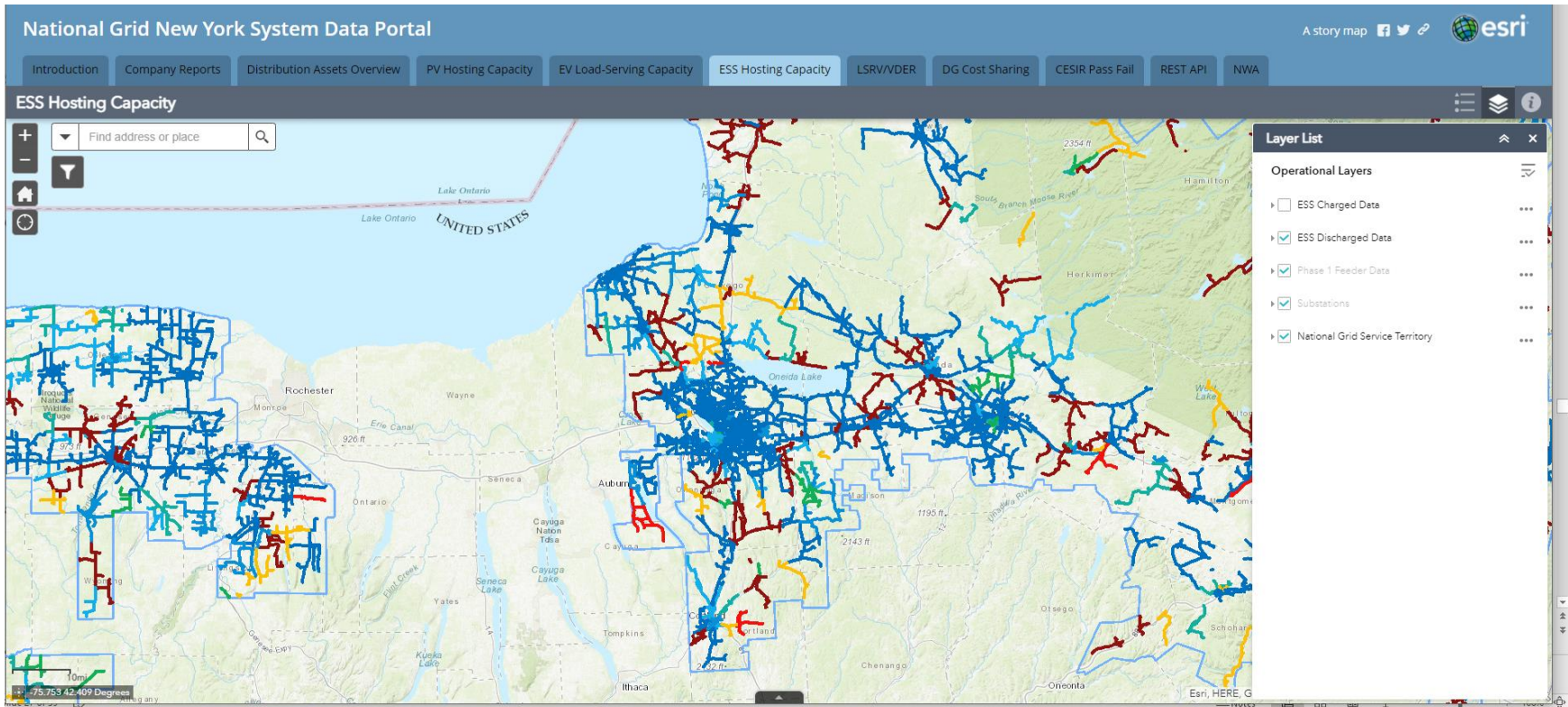
[Battery Energy Storage Hosting Capacity Methodology and Definitions](#)

I agree to the above terms and conditions.

OK

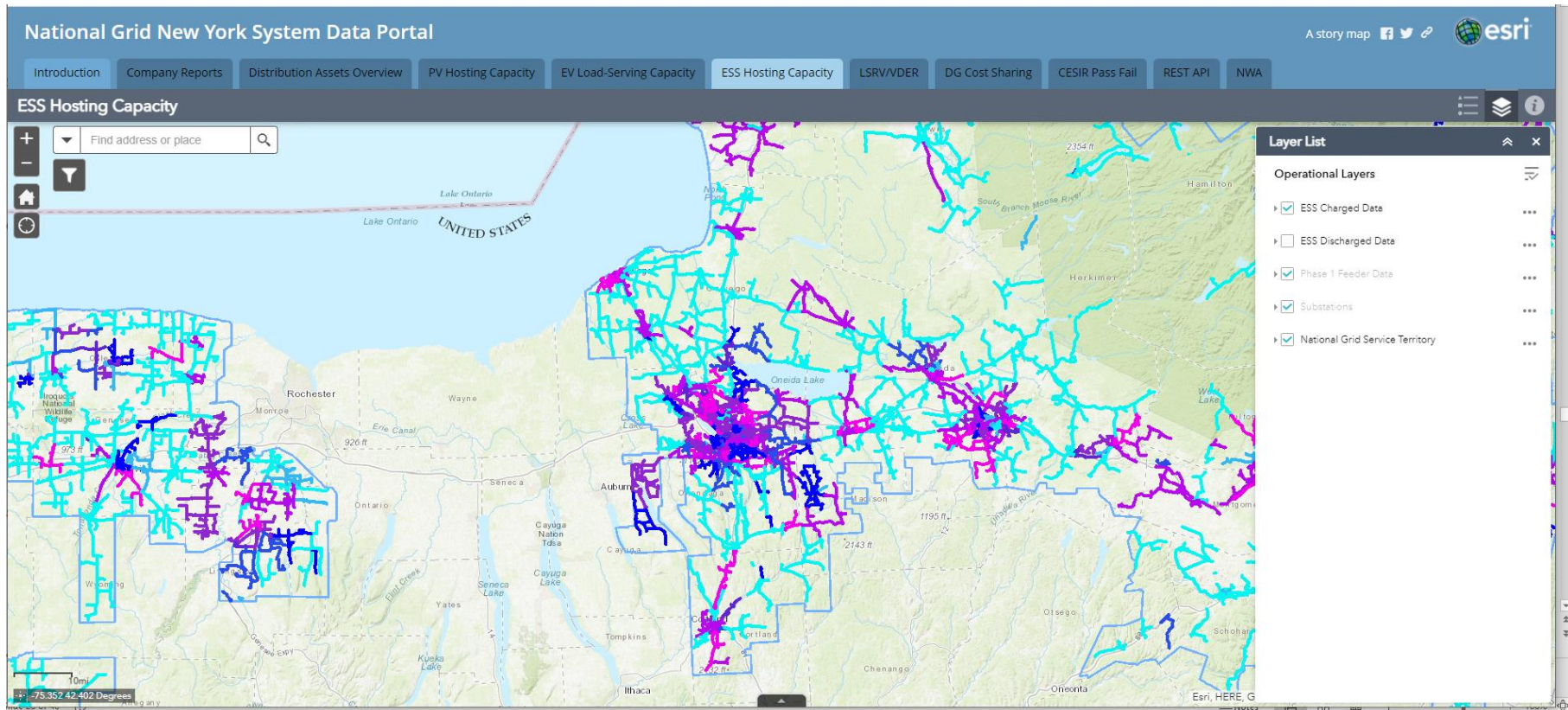
Tab – ESS Hosting Capacity

- The ESS Hosting Capacity has two layers. One for discharging of the Energy Storage System or exporting power onto the grid. The data is mapped for the feeder ESS HCA max. The min is provided in the popup.



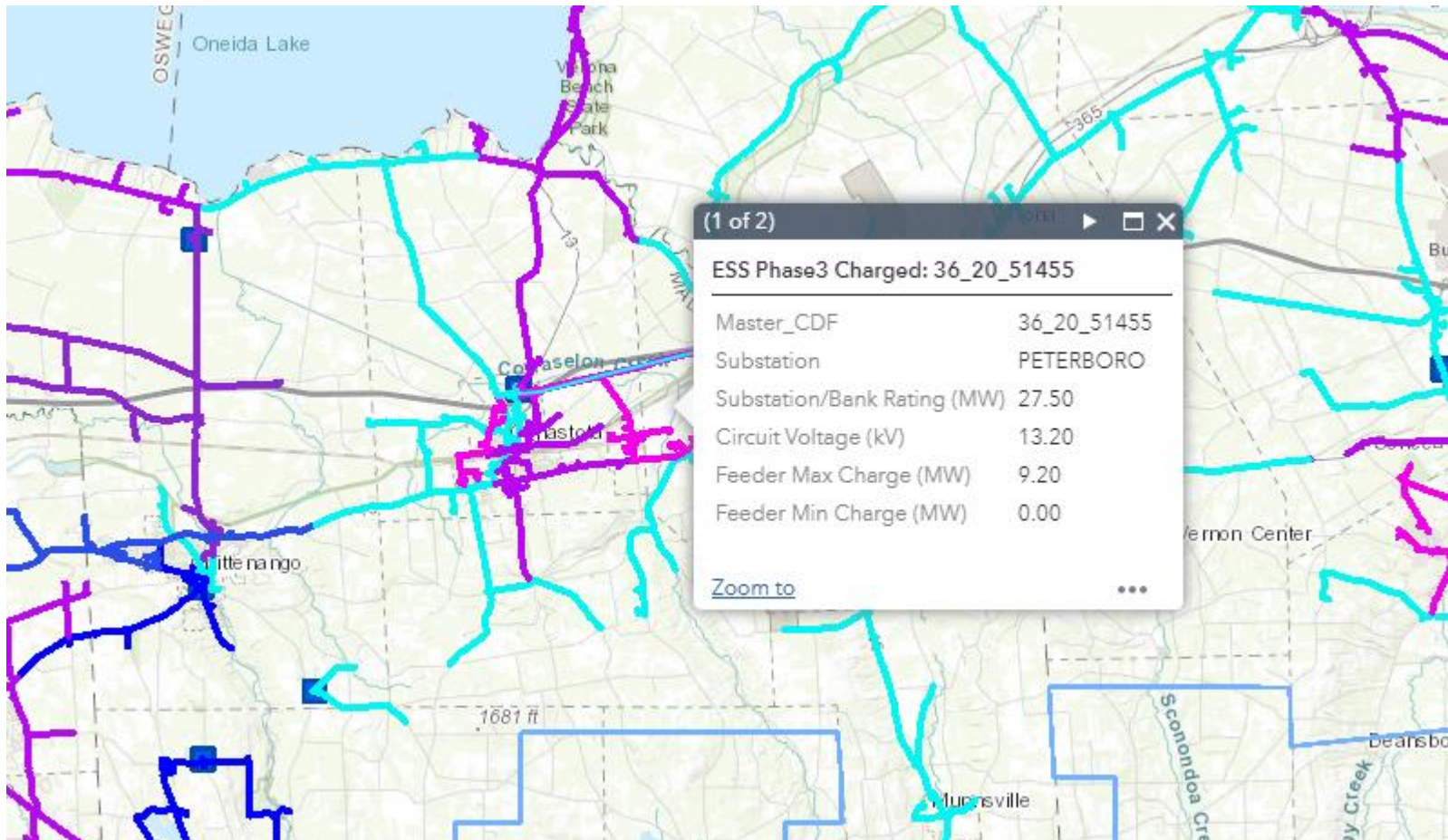
Tab – ESS Hosting Capacity

- The other layers is for charging of the Energy Storage. This is using the Grid to charge an Energy Storage System. The data is mapped for the feeder ESS HCA max. The min is provided in the popup.



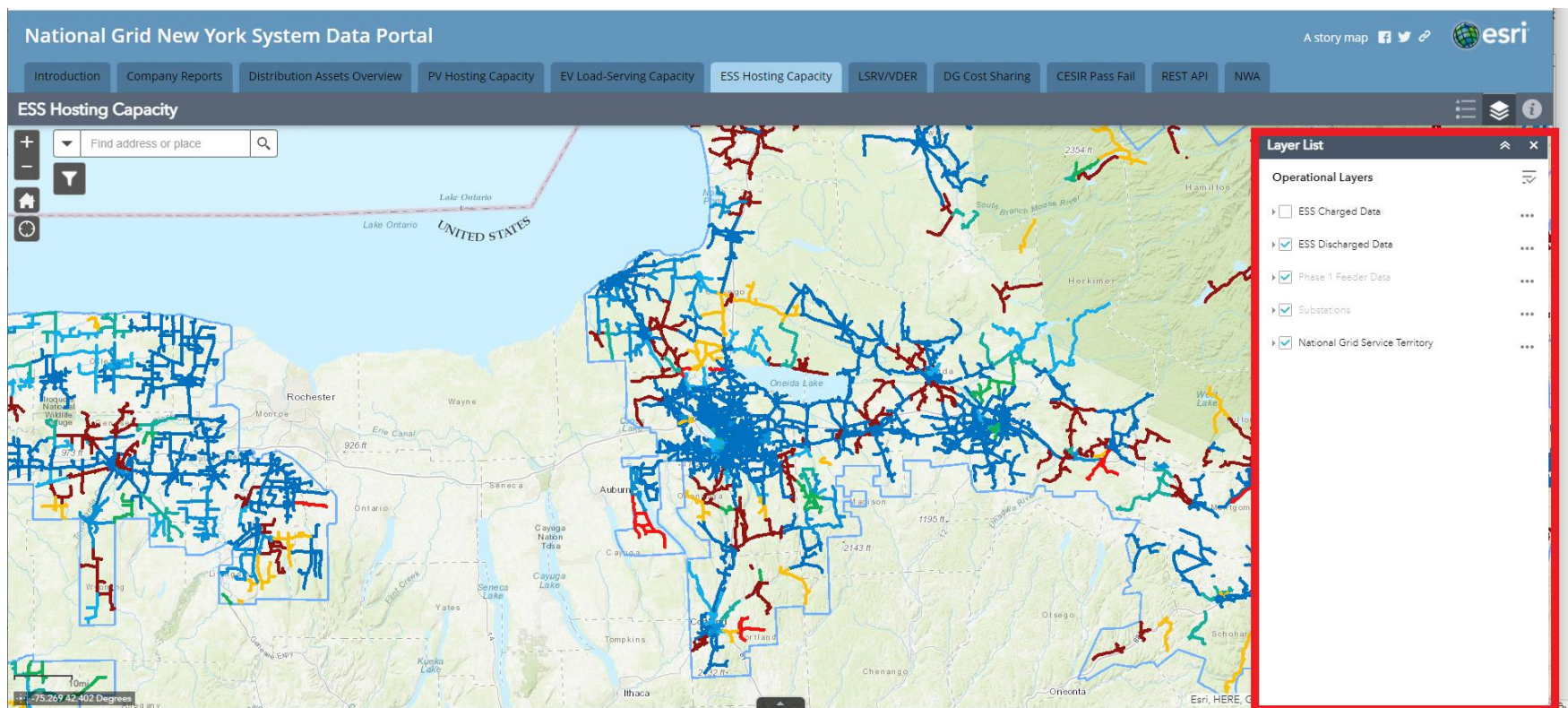
Tab – ESS Hosting Capacity

- Popup data is provided for feeder for more information.



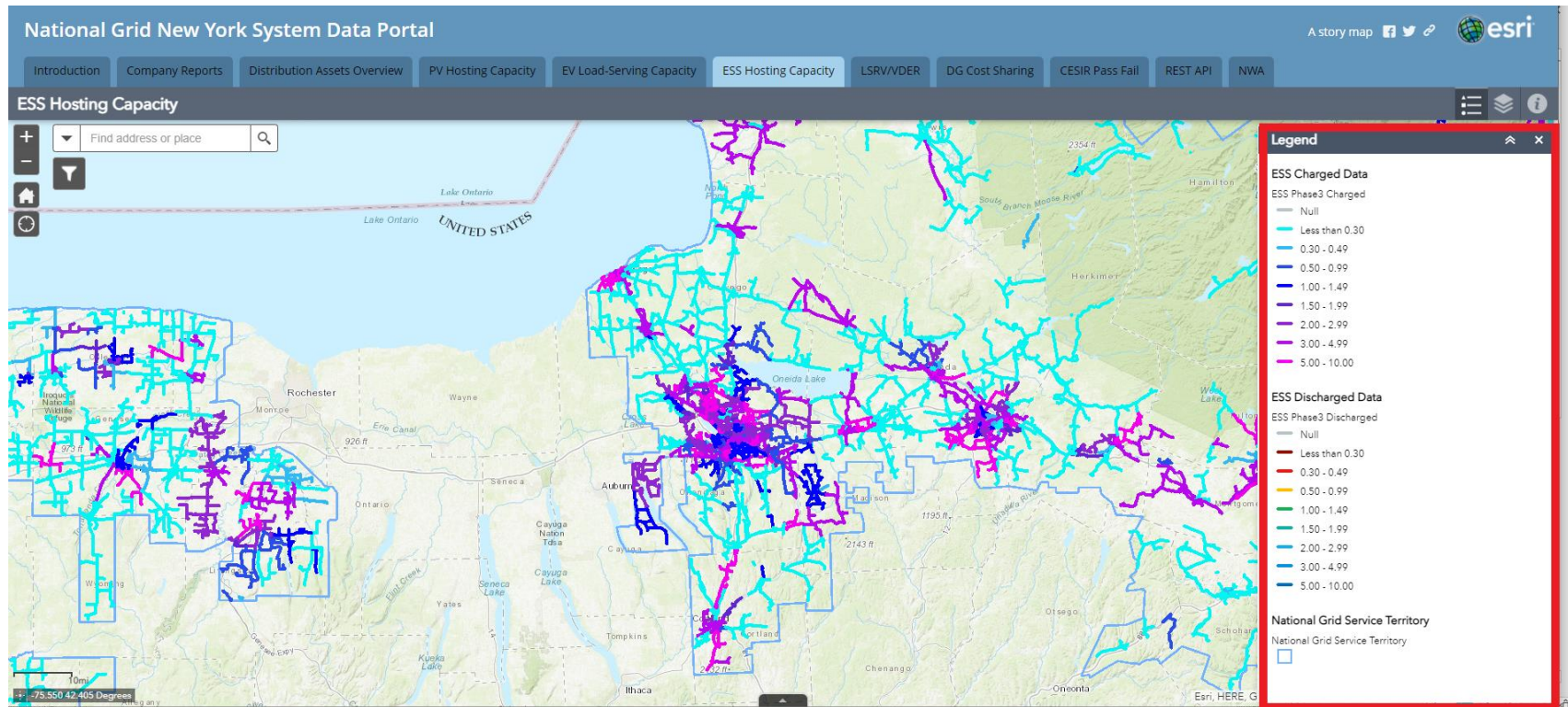
Tab – ESS Hosting Capacity

- To toggle between the Charge and Discharge layers go to the layer list and select which mode you wish to view charge or discharge.



Tab – ESS Hosting Capacity

- Different color schemes were selected to differentiate between the modes of operation.



Tab – ESS Hosting Capacity

- The data can be downloaded as a CSV from the attribute table and filtered

National Grid New York System Data Portal

Introduction Company Reports Distribution Assets Overview PV Hosting Capacity EV Load-Serving Capacity **ESS Hosting Capacity** LSRV/VDER DG Cost Sharing CESIR Pass Fail REST API NWA

ESS Hosting Capacity

Find address or place

Operational Layers

- ESS Charged Data
- ESS Discharged Data
- Phase 1 Feeder Data
- Substations
- National Grid Service Territory

Select the arrow to bring up the attribute table which can be filtered and downloaded

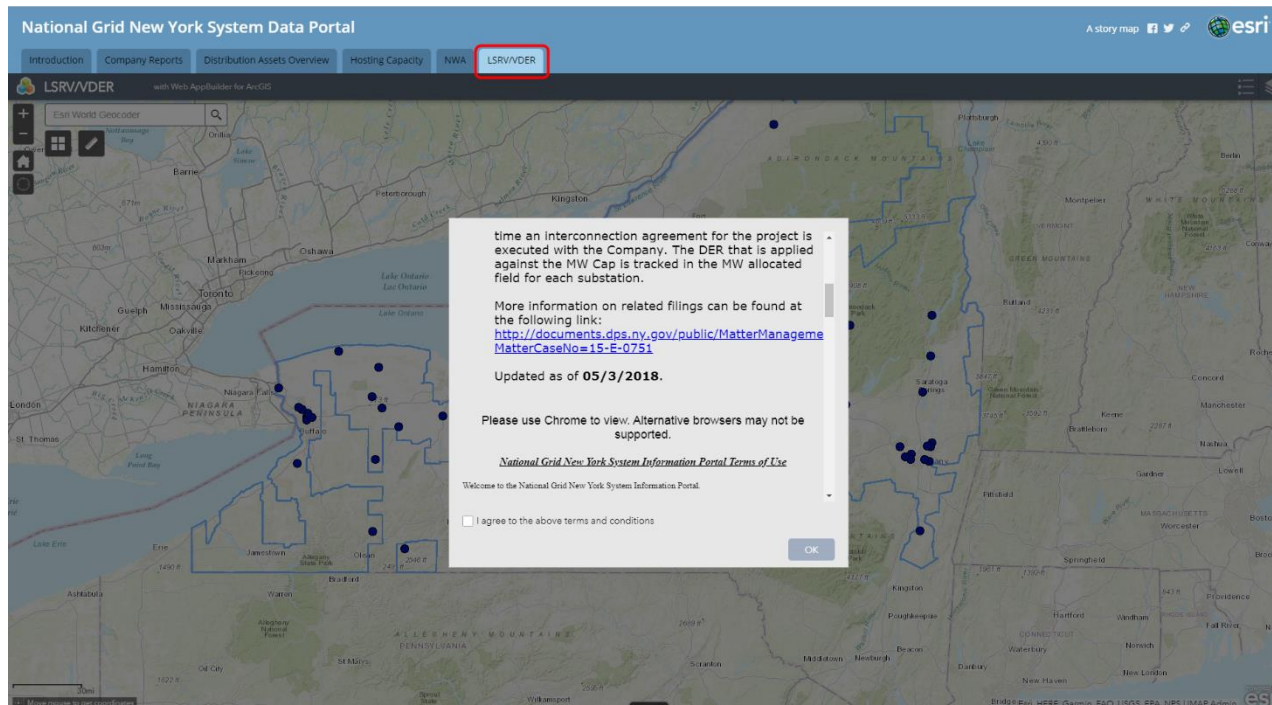
ESS Phase3 Charged ESS Phase3 Discharged Phase1 Feeders Substations

Options Filter by Map Extent Zoom to Clear Selection Refresh

Master_CDF	Substation	Substation/Bank Rating (MW)	Circuit Voltage (kV)	Feeder Max Charge (MW)	Feeder Min Charge (MW)
36_01_2766	27 JEWETT AVE	5.90	4.16	1.21	0.07
36_01_2768	27 JEWETT AVE	5.90	4.16	1.47	0.07
36_01_2769	27 JEWETT AVE	5.90	4.16	0.00	0.00
36_01_2861	28 STATION 28	5.02	4.16	0.75	0.03
36_11_0763	BREWERTON	4.90	4.80	0.83	0.00

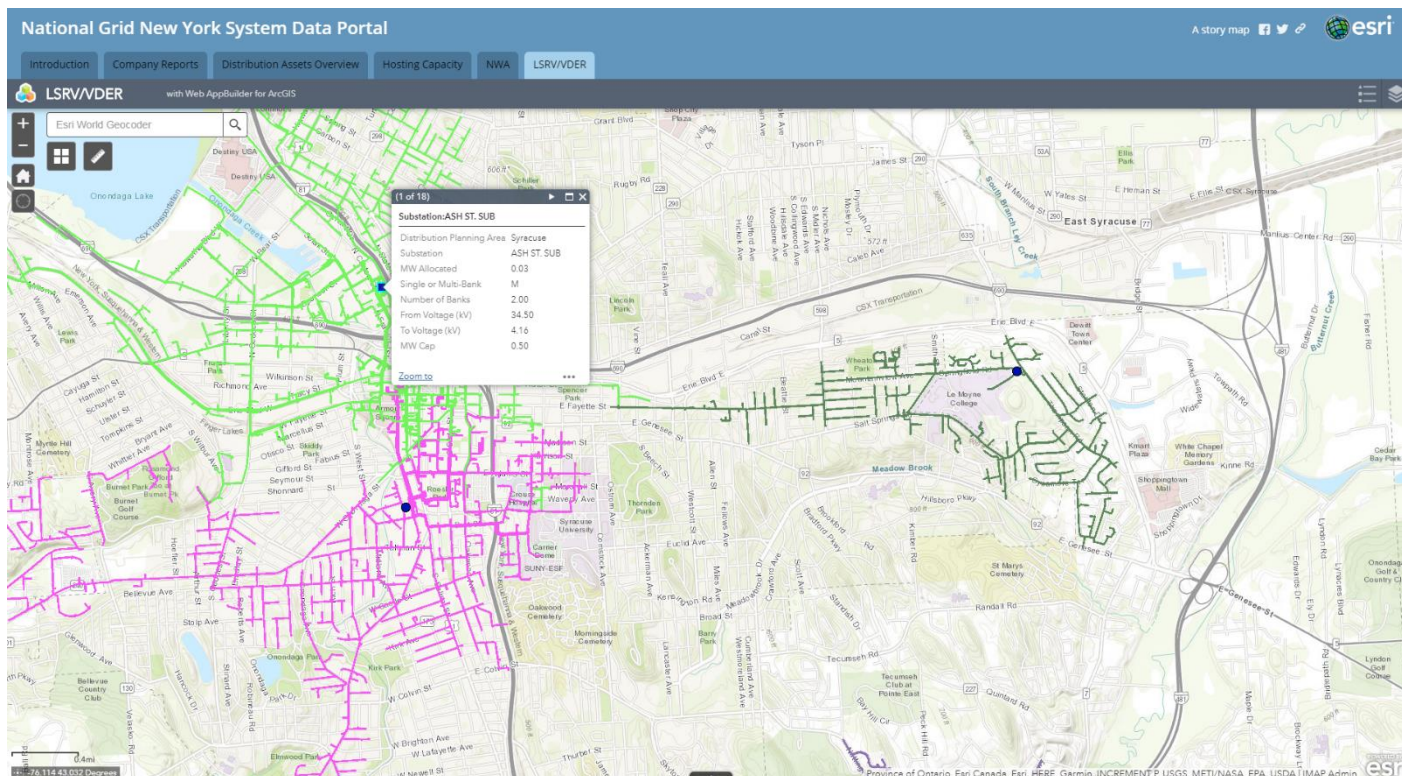
273 Features 0 selected

- The LSRV/VDER map indicates the substations on which Location System Relief Value (LSRV) compensation is available as part of the VDER Value Stack compensation.
- Upon clicking on the tab, a disclaimer page first appears. It includes important information such as methodology used in the analysis, the last update date, and a link to related regulatory filings.



Tab – LSRV/VDER

- Substations and all associated feeders are highlighted for a given LSRV area and details can be accessed by clicking on the blue substation symbols.
- The LSRV pop-up contains the substation name, the distribution planning area of the station, the MW allocated, and the MW cap.



Tab – DG Cost Sharing

- The information provided on this tab identifies “Qualifying Upgrades” per the DG cost sharing order (Case 20-E-0543).
- These upgrades have been identified in a completed CESIR, but may not have advanced to construction.

National Grid New York System Data Portal A story

Introduction Company Reports Distribution Assets Overview Hosting Capacity EV Load-Serving Capacity NWA LSRV/VDER REST API **DG Cost Sharing**

1 of 2 - + ↺ ↻ Page view | A Read aloud | ▾ Draw ▾ Highlight ▾ Era

This list has been compiled by National Grid based on completed Coordinated Electric System Interconnection Reviews (CESIRs) for projects that have not yet advanced to construction. As such, the facilities listed herein are subject to change without prior notice. Further, any resulting cost estimates that may be subsequently provided for the purposes of cost sharing of qualifying upgrades are approximate and not guaranteed as work scope and/or costs may change once the projects advance to detailed design and material procurement. These estimated costs are based upon the results of this study and are subject to change.

Qualifying Transformer Upgrades						
Stations Upgraded			Planning Grade Cost Estimate			
Station Name Upgraded	Station Name Upgraded #2	Station Name Upgraded #3	Material	Labor	Overheads	Customer Cost Total
Andover			\$ 5,623,132.00	\$ 4,319,750.00	\$ 5,640,404.00	\$ 17,660,305.00
BATAVIA			\$ 4,016,523.00	\$ 3,085,536.00	\$ 4,028,860.00	\$ 12,614,504.00
BROCKPORT			\$ 4,016,523.00	\$ 3,085,536.00	\$ 4,028,860.00	\$ 12,618,733.00
KNIGHTS CREEK 6			\$ 5,623,132.00	\$ 4,319,750.00	\$ 5,640,404.00	\$ 17,660,305.00
LABRADOR			\$ 2,239,000.00	\$ 1,814,000.00	\$ 4,031,000.00	\$ 9,178,004.00
SHEPPARD RD			\$ 4,016,523.00	\$ 3,085,536.00	\$ 4,028,860.00	\$ 12,634,504.00
ST JOHNVILLE			\$ 1,271,604.00	\$ 237,998.00	\$ 1,048,130.00	\$ 2,805,923.00
Nicholville			\$ 2,008,262.00	\$ 1,542,768.00	\$ 2,014,430.00	\$ 6,307,252.00
West Ashville	Hartfield		\$ 11,411,526.00	\$ 8,940,989.00	\$ 11,481,826.00	\$ 35,320,610.00
York			\$ 1,271,604.00	\$ 237,998.00	\$ 1,048,130.00	\$ 2,862,113.00

Qualifying 3V0 or DTT Station Upgrades						
Stations Upgraded			Planning Grade Cost Estimate			
Station Name Upgraded	Station Name Upgraded #2	Station Name Upgraded #3	Material	Labor	Overheads	Customer Cost Total
ATTICA 12			\$ 221,110.00	\$ 103,490.00	\$ 183,400.00	\$ 567,400.00
BALLSTON 12			\$ 221,110.00	\$ 103,490.00	\$ 183,400.00	\$ 567,400.00

Tab – DG Cost Sharing

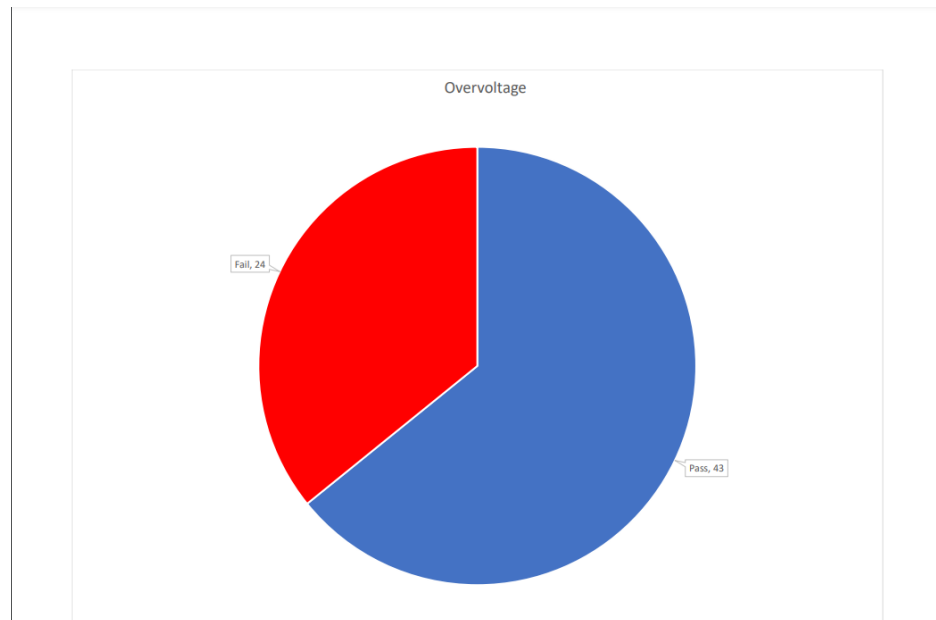
- Each upgrade has an estimated cost associated with them.
- Each cost is broken down into Material, Labor, Overhead, and Customer Cost Total for the total cost of the cost sharing project.

Other Qualifying Station Upgrades						
Stations Upgraded			Planning Grade Cost Estimate			
Station Name Upgraded	Station Name Upgraded #2	Station Name Upgraded #3/#4	Material	Labor	Overheads	Customer Cost Total
Golah	North Lakeville	Batavia	\$ 184,893.00	\$ 437,732.00	\$ 301,527.00	\$ 924,152.00
Machias	Nile	Homer Hill/North Angola	\$ 369,789.00	\$ 865,461.00	\$ 603,054.00	\$ 2,058,564.00
Machias	Homer Hill	Nile	\$ 308,157.00	\$ 731,218.00	\$ 502,545.00	\$ 1,725,992.00
Homer Hill	Machias	North Angola	\$ 369,789.00	\$ 865,461.00	\$ 603,054.00	\$ 2,058,564.00
Golah	North Lakeville		\$ 123,262.00	\$ 288,488.00	\$ 201,018.00	\$ 687,808.00
Andover			\$ 61,631.00	\$ 144,244.00	\$ 100,509.00	\$ 343,198.00
Bristolhill	Woodard		\$ 575,233.00	\$ 1,361,025.00	\$ 517,902.00	\$ 2,774,363.00
Brockport	Telegraph		\$ 184,894.00	\$ 432,731.00	\$ 301,527.00	\$ 1,034,776.00
Hartfield	Dunkirk		\$ 123,262.00	\$ 288,488.00	\$ 201,018.00	\$ 686,188.00
Nicholville			\$ 79,259.00	\$ 138,782.00	\$ 175,608.00	\$ 446,977.00
Rathbun	Labrador		\$ 244,000.00	\$ 264,000.00	\$ 430,000.00	\$ 1,063,796.00
Boonville			\$ 155,090.00	\$ 72,590.00	\$ 128,640.00	\$ 399,952.00
Machias			\$ 123,263.00	\$ 288,487.00	\$ 201,018.00	\$ 686,397.00
Malone			\$ 79,259.00	\$ 138,782.00	\$ 175,608.00	\$ 446,826.00



Tab – CESIR Pass Fail

- A tab was provided with the 17 CESIR Criteria on if the pass fail rate in graphical format.



Case Number	Total Generator kWAC +	Feeder 1	Distribution/Group Study: Study ID	Distribution/Group Study: Overvoltage - Result	Distribution/Group Study: Undervoltage - Result	Distribution/Group Study: Substation LTC for Reverse Power	Distribution/Group Study: Feeder Regulation For Reverse Power	Distribution/Group Study: Fluctuation Feeder < 3% - Result	Distribution/Group Study: Fluctuation Station Bus < 5% - Result	Distribution/Group Study: Flicker - Result	Distribution/Group Study: Thermal - Results	Distribution/Group Study: Withstand (fault current) - Results	Distribution/Group Study: Unintentional Islanding	Distribution/Group Study: Protective Device Coordination	Distribution/Group Study: Fault Sensitivity	Distribution/Group Study: Ground Fault Detection	Distribution/Group Study: Overvoltage - Transmission System Fault	Distribution/Group Study: Overvoltage - Dist. System Fault	Distribution/Group Study: Effective Grounding	Distribution/Group Study: SCADA
00399390	5,000,000	38_04_0459	S-29577	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Fail	Pass	Pass	Pass	Fail
00399519	5,000,000	ATTICA: WETHERSFIELD S03	S-28497	Fail	Pass	Pass	Fail	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00388026	5,000,000	NLEROV: ATTICA #03	S-28532	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00387730	5,000,000	NLEROV: ATTICA #03	S-28501	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00383883	5,000,000	NLEROV: ATTICA #03	S-28531	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00350732	5,000,000	PHILLIPS RD: WEDONIA #01	S-28637	Fail	Pass	Pass	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00374371	5,000,000	DANCEFIELD: CALICOONIA S01	S-28398	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00380387	5,000,000	LOWVILLE: BOONVILLE #02	S-28534	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Fail
00374204	5,000,000	38_06_7452	S-28507	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Fail
00362138	5,000,000	38_07_18283	S-28313	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Fail

Tab – CESIR Pass Fail

Case Number	Total Generator kWAC ±	Feeder 1	Distribution/Group Study: Study ID	Distribution/Group Study: Overvoltage - Result	Distribution/Group Study: Undervoltage - Result	Distribution/Group Study: Substation LTC for Reverse Power	Distribution/Group Study: Feeder Regulation For Reverse Power	Distribution/Group Study: Fluctuation Feeder < 5% - Result	Distribution/Group Study: Fluctuation Station Bus < 5% - Result	Distribution/Group Study: Flicker - Result	Distribution/Group Study: Thermal - Results	Distribution/Group Study: Withstand (fault current) - Results	Distribution/Group Study: Unintentional Islanding	Distribution/Group Study: Protective Device Coordination	Distribution/Group Study: Fault Sensitivity	Distribution/Group Study: Ground Fault Detection	Distribution/Group Study: Overvoltage - Transmission System Fault	Distribution/Group Study: Overvoltage - Dist. System Fault Result	Distribution/Group Study: Effective Grounding	Distribution/Group Study: SCADA	
00389380	5,000,000	38_04_0456	S-28077	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Fail
00389819	5,000,000	ATTICA: WETHERSFIELD #02	S-28497	Fail	Pass	Pass	Fail	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
00388008	5,000,000	NLEROV: ATTICA #208	S-28532	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
00387730	5,000,000	NLEROV: ATTICA #208	S-28501	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
00383883	5,000,000	NLEROV: ATTICA #208	S-28531	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
003850732	5,000,000	PHILLIPS RD: MERINA #301	S-28537	Fail	Pass	Pass	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
00374371	5,000,000	DAKFIELD: CALLECONA #01	S-28398	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Fail
00380387	5,000,000	LOWVILLE: SCOVILLE #02	S-28534	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Fail
00374264	5,000,000	38_09_7458	S-28587	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Fail
00382133	5,000,000	38_07_18263	S-28313	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Fail



5.0 SYSTEM IMPACT ANALYSIS

Category	Criteria	Limit	Result
Voltage	Overvoltage	< 105% (ANSI C84.1)	Pass
With the addition of the subject generator the maximum voltage as modeled on the Feeder is 104.42% of nominal.			
Voltage	Undervoltage	> 95% (ANSI C84.1)	Pass
With the addition of the subject generator the minimum voltage as modeled on the Feeder is 96.62% of nominal.			
Voltage	Substation Regulation for Reverse Power	<100% minimum load criteria	Fail
The total generation on Feeders 0455, 0456 and 0457 is 10.497 MW. The total minimum load on these Feeders is 6.027 MW. Therefore, the generation to load ratio is 174%.			
Therefore, N Leroy substation transformer TR#2 LTC controls must be replaced with bi-directional controls.			
Voltage	Feeder Regulation for Reverse Power	<100% Minimum load to generation ratio	Pass
There are no in-line voltage regulators between N Leroy substation and POI.			
Voltage	Fluctuation	<3% steady state from proposed generation on feeder, <5% steady state from aggregate DER on substation bus, Regulator tap movement exceeds 1 position. ²	Pass
The greatest voltage fluctuation on the feeder occurs at the POI. The resulting fluctuation at the feeder location is 0.74% due to the proposed generation.			
Voltage	Flicker	Screen H Flicker	Pass
The Pst for the location with the greatest voltage fluctuation is 0.306 and the emissions limit is 0.35 and therefore passes this test.			
Equipment Ratings	Thermal (continuous current)	<100% thermal limits	Pass
The subject generator's full output current is 219 A. The total full output current of all DER downstream of 500 CU is 452 A. 500 CU cable thermal capabilities are 402 A and considering the minimum load on the feeder, 500 CU will see 300 A and therefore is not a concern.			

Tab – CESIR Pass Fail

National Grid		Interconnect Review		Page 7 of 12
		Distributed Energy Resources - NYSSIR		Version 1.0 – 03/25/22
Equipment Ratings	Withstand (fault current)	<90% withstand limits		Pass
The additional fault current contribution from the generation does not contribute to interrupting ratings in excess of existing EPS equipment.				
Protection	Unintentional Islanding	Unintentional Islanding Document & Company Guidelines		Fail
The subject generator is a 5,000 kW PV generation system. The subject generation exceeds the Company's criteria for islanding a distributed resource under light load conditions and will require: <ul style="list-style-type: none"> • National Grid protection and control package • Reclose blocking required for R30555 				
Protection	Protective device coordination	Company Guidelines		Fail
<p>The customer's currently proposed system protection relay for this project is a SEL-651R Recloser. The Interconnection Customer shall revise the site's over current protection to provide adequate coordination with the Company's upstream protective device listed below in accordance with IEEE 242 Table 15-3.</p> <p>-Recloser R30555 – G&W Viper with SEL-651R -OC phase relay settings: PU = 440A, Curve = U4, TD = 1.3, Instantaneous Pickup = 2,200A -OC ground relay settings: PU = 330A, Curve = U4, TD = 2.0, Instantaneous Pickup = 2,200A</p> <p>The 50, 51, 50G, and 51G functions must be enabled as highlighted by ESB 756B to provide appropriate coordination with the interconnected distribution. The Customer must use the instantaneous overcurrent elements in their recloser to provide appropriate coordination with the company upstream recloser.</p>				
Protection	Fault Sensitivity	Rated capabilities of EPS equipment		Pass
Fault studies show that contribution from the subject generator for faults on the N. Leroy feeder 0456 will not have a significant increase in fault current seen by utility equipment. Aggregate source fault contribution from the addition of the proposed system is within the rated capabilities of EPS equipment.				
Protection	Ground Fault Detection	Reduction of reach > 0%		Fail
The Interconnection Customer has proposed two (2) 2,500 kVA grounded wye – grounded wye interconnection transformers each with an impedance of 5.75% and X/R ratio of 7. Additionally, one (1) 160 kVA zig-zag grounding transformer with NGR is proposed on the high side of interconnection transformers with an impedance of 98 ohms (Ground transformer + NGR). The Customer to remove the NGR from the design and keep only the grounding transformer. To be within Company guidelines, the grounding transformer shall have an impedance of 43.56 ohms. With this grounding transformer in service, the Interconnection Customer will contribute approximately 66A of 310 current to remote bolted line to ground faults and 228A to faults at the PCC.				

Tab – CESIR Pass Fail

Distributed Energy Resources - NYSSIR		Version 1.0 – 03/25/22	
Protection	Overvoltage - Transmission System Fault	Company 3V0 criteria	Fail
<p>The generation to load ratio on the serving distribution system has failed the Company's planning threshold in which transmission ground fault overvoltage become an electrical hazard due to the distribution source contribution. An evaluation of the existing EPS has been performed and it has been determined that ground fault overvoltage protection, commonly known as a 3V0 protection scheme, is required at N. Leroy Station transformer TR#2. However, a 3V0 protection is already required due to previous DGs ahead in queue and cost sharing may apply, see section 6.0 for details.</p>			
Protection	Overvoltage - Distribution System Fault	< 125 % voltage rise	Pass
<p>With subject generator interconnected the modeled voltage rise on the unfaulted phases of the system is 115.7% and therefore passes this screen.</p>			
Protection	Effective Grounding	$R0/X1 < 1, X0/X1 < 3$	Pass
<p>With subject generator interconnected the modeled $R0/X1$ is 0.8255 PU and the $X0/X1$ is 2.2926 PU. Both the $R0/X1$ and $X0/X1$ ratios pass the Company screen.</p>			
SCADA	Required EMS Visibility for Generation Sources	Monitoring & Control Requirements	Fail
<p>The 5,000 kW subject generator triggers the requirement for SCADA reporting to the Utility. This requirement is covered by the National Grid Protection and Control package (e.g. the PCC Recloser).</p>			
Other			
<p>If the facilities are proposed on an existing site with preexisting environmental conditions and/or environmental regulatory obligations, the Customer should be made aware of the following:</p> <ul style="list-style-type: none"> • The Customer is responsible, at its sole cost and expense, for providing an uncontaminated corridor for National Grid's facilities such that intrusive work performed during installation and long-term maintenance would not result in potential contact with any site contamination and would not interfere with institutional or engineering controls, if applicable. The aerial extent, depth, and location of the uncontaminated corridor required for National Grid's facilities will be determined with the Customer. • The Customer is responsible for providing any, and all information regarding site conditions, the nature and extent of any site contamination, and design information for any engineering controls (including plans and drawings), if applicable, immediately upon acceptance of this proposal. • The Customer is responsible for all obligations imposed by governmental authorities, including but not limited to notifications regarding modifications to institutional or engineering controls (if applicable), any required monitoring and/or reporting obligations, disposal of any wastes generated at the site, and the resolution of any violations caused by the work. 			

- Third parties can now overlay JU hosting capacity data within their own GIS systems and mapping tools.
- REST URL access provides a live version of the current hosting capacity maps enabling access to the most up to date information.

The screenshot shows the 'National Grid New York System Data Portal' with a navigation bar containing tabs for 'Introduction', 'Company Reports', 'Distribution Assets Overview', 'Hosting Capacity', 'EV Load-Serving Capacity', 'NWA', 'LSRV/VDER', 'REST API', and 'DG Cost Sharing'. The 'REST API' tab is selected. The main content area features a white box with the following text:

For users with a understanding of the ArcGIS platform we support usage of our hosting capacity map services in your own maps. Please fill out the below for further information on utilizing the map service rest url.

Disclaimer:

The maps and Hosting Capacity information provided by National Grid and contained herein are for general informational purposes only and are subject to change without notice. Nothing herein shall be construed as conferring any intellectual property or other proprietary rights to you in any content contained herein or otherwise. The content contained herein is provided on an "as is" and "as available" basis without warranty, representation, endorsement or guarantee. By using the National Grid NY Hosting Capacity REST service url you assume all risk regarding availability, quality, condition, completeness, accuracy, reliability and use related to the maps, information and any data derived therefrom.



- Fill out the RES API Form confirming your information.
- This also indicates that you will place the disclaimer language.
- This also confirms that you will track who uses your map and provide a list of users if requested by National Grid.

[A summary of the analysis methodology and assumptions can be found here.](#)

[Hosting Capacity definitions can be found here](#)

First Name*

Last Name*

Email*

Company or Organization*

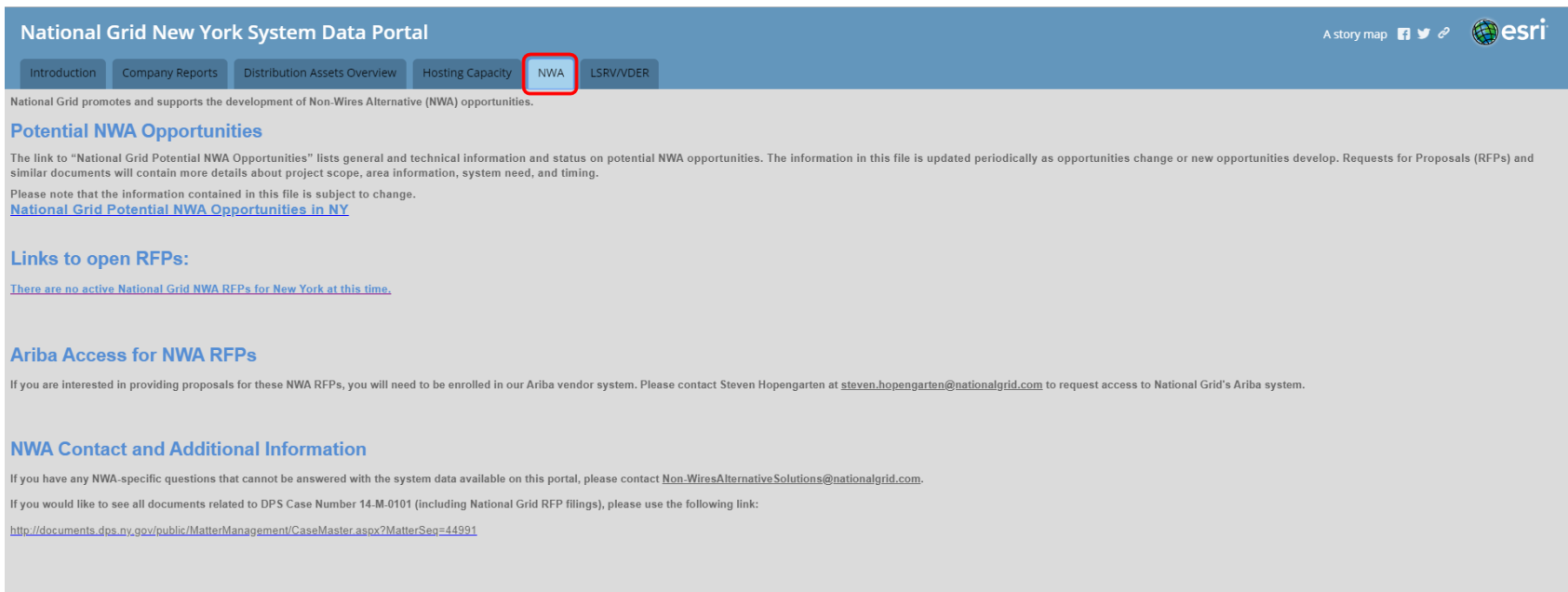
By submitting this information you understand and agree to the above. Additionally you agree to include the above disclaimer text on any map displaying the hosting capacity layers; And agree to track and provide a list of names and email addresses for users of said map if requested by National Grid.

Terms and Conditions*

I understand and agree to the above terms and conditions

Submit

- The NWA Tab presents a NWA opportunities document which includes basic project metrics, and scope and timing of potential future NWA opportunities. Requests for Proposal or the like will contain more details about project scope, area information, and timing.

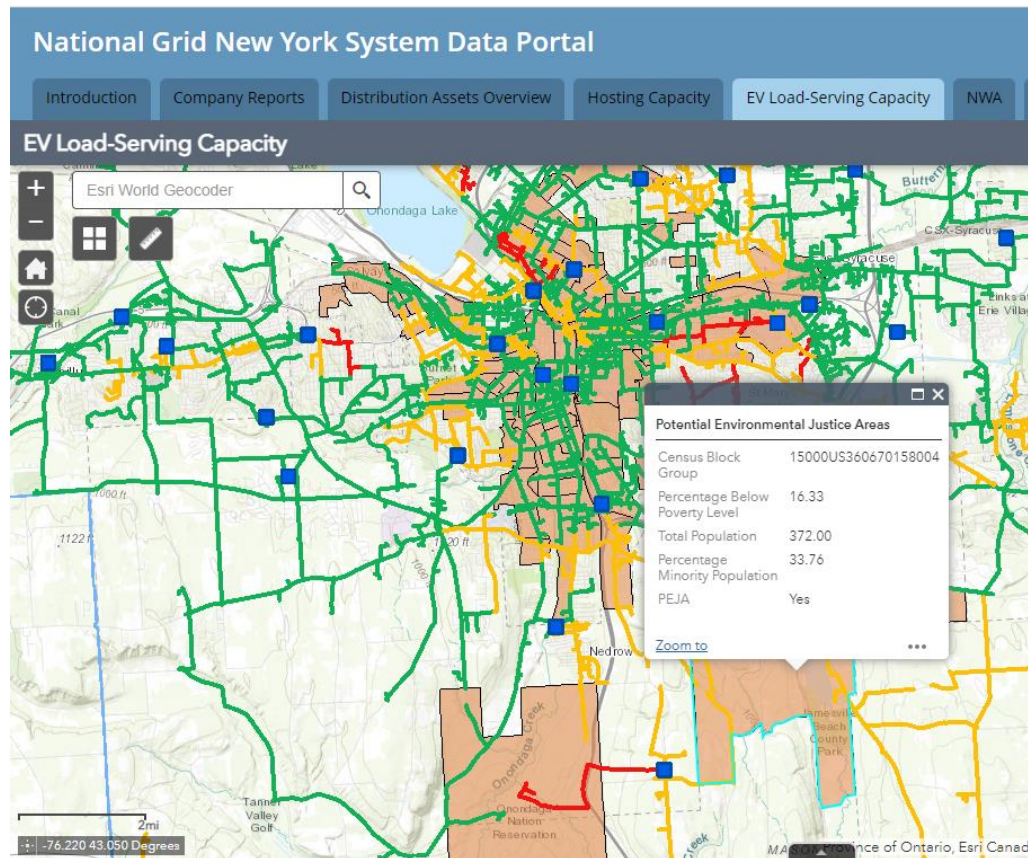


The screenshot shows the 'National Grid New York System Data Portal' interface. At the top, there is a navigation bar with several tabs: 'Introduction', 'Company Reports', 'Distribution Assets Overview', 'Hosting Capacity', 'NWA', and 'LSRV/VDER'. The 'NWA' tab is highlighted with a red square. Below the navigation bar, the main content area displays information about 'Potential NWA Opportunities', including a link to 'National Grid Potential NWA Opportunities in NY' and a section for 'Links to open RFPs' which states there are no active RFPs at the time. Other sections include 'Ariba Access for NWA RFPs' and 'NWA Contact and Additional Information'.

- National Grid has added the layer for Environmental Justice Locations.
- An Environmental Justice Location is defined as:
 1. At least 52.42% of the population in an urban area reported themselves to be members of minority groups; or
 2. At least 26.28% of the population in a rural area reported themselves to be members of minority groups; or
 3. At least 22.82% of the population in an urban or rural area had household incomes below the federal poverty level.
- <https://www.dec.ny.gov/public/911.html>

Layer – Environmental Justice Locations

- The Environmental Justice Locations are defaulted on for the EV Load – Serving Capacity Maps.



Layer – Environmental Justice Locations

- In order to turn the layer on other maps go to the Layers List and select the PE_JA_NY Layer.

