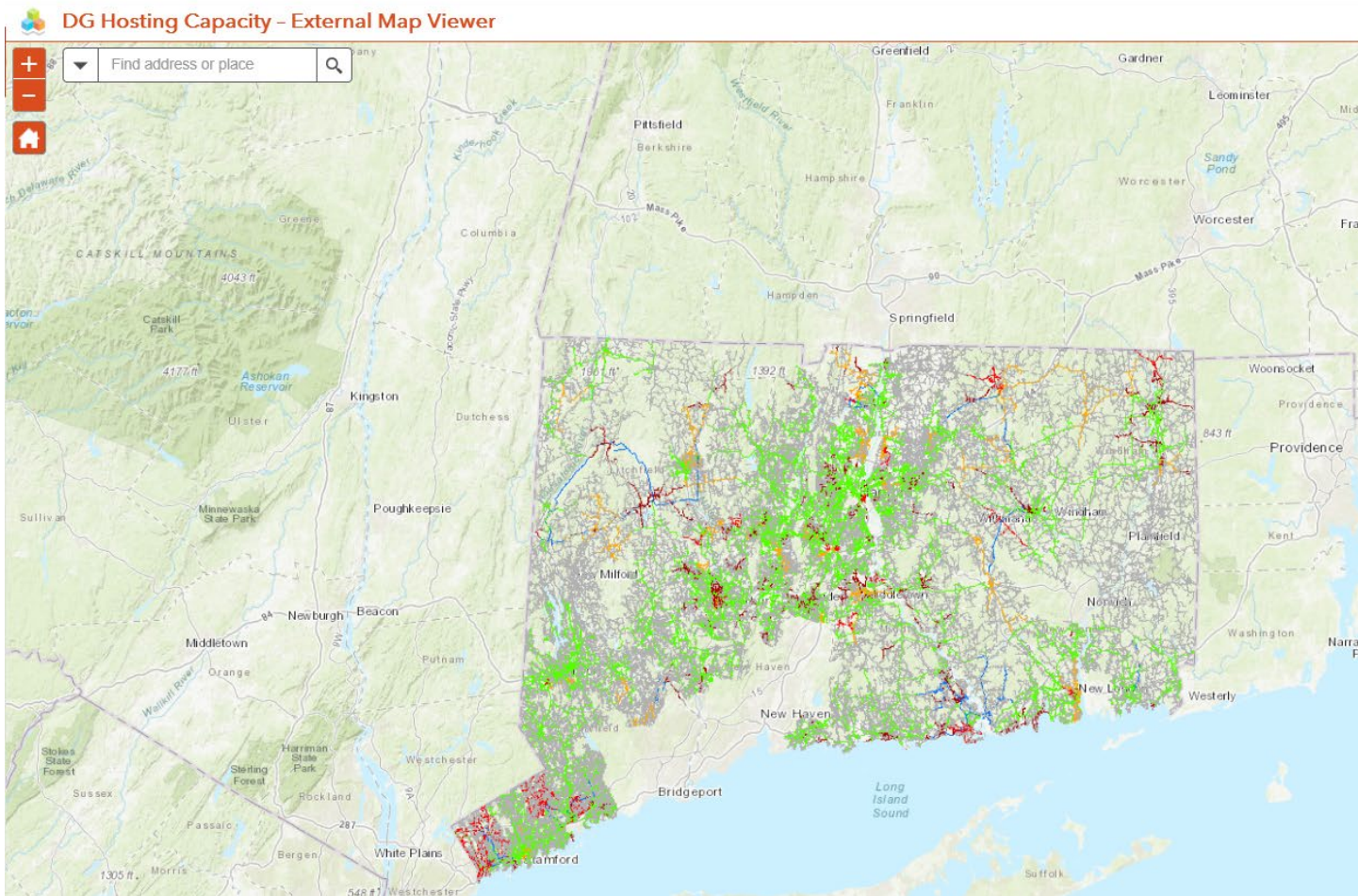


# **EVERSOURCE CT HOSTING CAPACITY MAPS**

**DEVON MARCAURELE – DER PLANNING  
ENGINEER**

# Connecticut Hosting Capacity Map – Phase 1



About ⌵ ✕

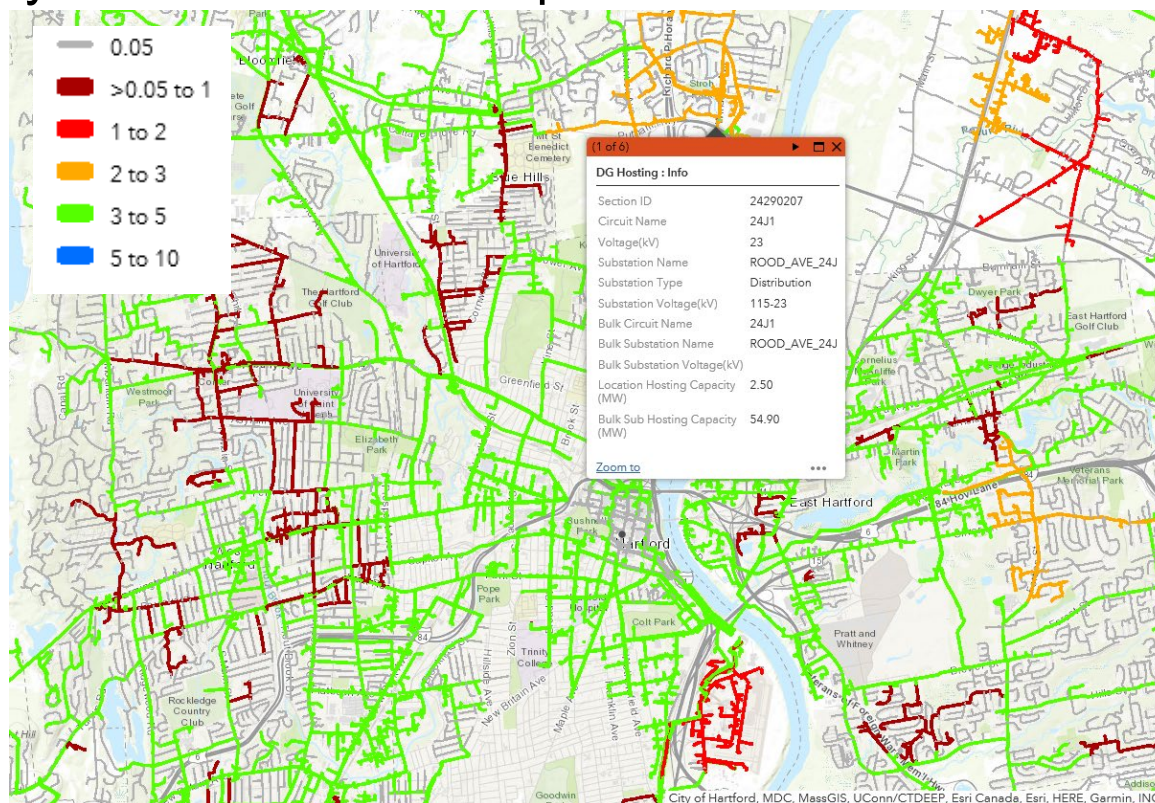
### Disclaimer :

"Hosting Capacity" refers to an estimated maximum amount of distributed generation that can be accommodated on the distribution system at a given location under existing grid conditions and operations, without adversely impacting safety, power quality, reliability or other operational criteria, and without requiring significant infrastructure upgrades. This map provides some guidance on an approximate value of Hosting Capacity measured in MegaWatts (MW) that may be accommodated onto a particular point on the distribution system. The map will be updated regularly, however; the information provided is non-binding and may not include all the projects in the queue. Proposed projects may need further analysis and detailed engineering studies to determine whether such distributed generation can be accommodated on the system.

This map is being provided for informational purposes and is not intended as a substitute for filing an application with Eversource and adhering to the Guidelines for Interconnection approved by the Public Utility Regulatory Authority (PURA). Applications to interconnect are available from our website at: [www.eversource.com](http://www.eversource.com).

# Information Provided

- One static value for three phase backbone
- Single phase side sections are defaulted to 50 kW to illustrate capacity for residential rooftop solar



Hosting capacity map for the Hartford region (MW)

# Description of Each Field

- **Section ID:** Modeling nomenclature to associate with Synergi model
- **Circuit Name:** Eversource feeder nomenclature
- **Voltage:** Primary voltage of the feeder at the proposed section ID
- **Substation Name:** Eversource substation nomenclature
- **Substation Type:** Bulk versus distribution. Bulk stations are fed from transmission sources, distribution stations are fed from distribution sources

## DG Hosting Info:

Section ID	126879162
Circuit Name	24J1
Voltage(kV)	23
Substation Name	ROOD_AVE_24J
Substation Type	Distribution
Substation Voltage(kV)	115-23
Bulk Circuit Name	24J1
Bulk Substation Name	ROOD_AVE_24J
Bulk Substation Voltage(kV)	
Location Hosting Capacity (MW)	2.50
Bulk Sub Hosting Capacity (MW)	54.90

# Description of Each Field

- **Location Hosting Capacity:** Hosting capacity of the feeder. In the future, each section ID will have its own unique MW value
- **Bulk Sub Hosting Capacity:** Hosting capacity of the substation under a N-1 contingency

## DG Hosting Info:

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Section ID	126879162
Circuit Name	24J1
Voltage(kV)	23
Substation Name	ROOD_AVE_24J
Substation Type	Distribution
Substation Voltage(kV)	115-23
Bulk Circuit Name	24J1
Bulk Substation Name	ROOD_AVE_24J
Bulk Substation Voltage(kV)	
Location Hosting Capacity (MW)	2.50
Bulk Sub Hosting Capacity (MW)	54.90

# Technical Process Substation Hosting Capacity – Version 1

- Substation Hosting Capacity Process Flow

Aggregate Station  
Transformer  
Capacity

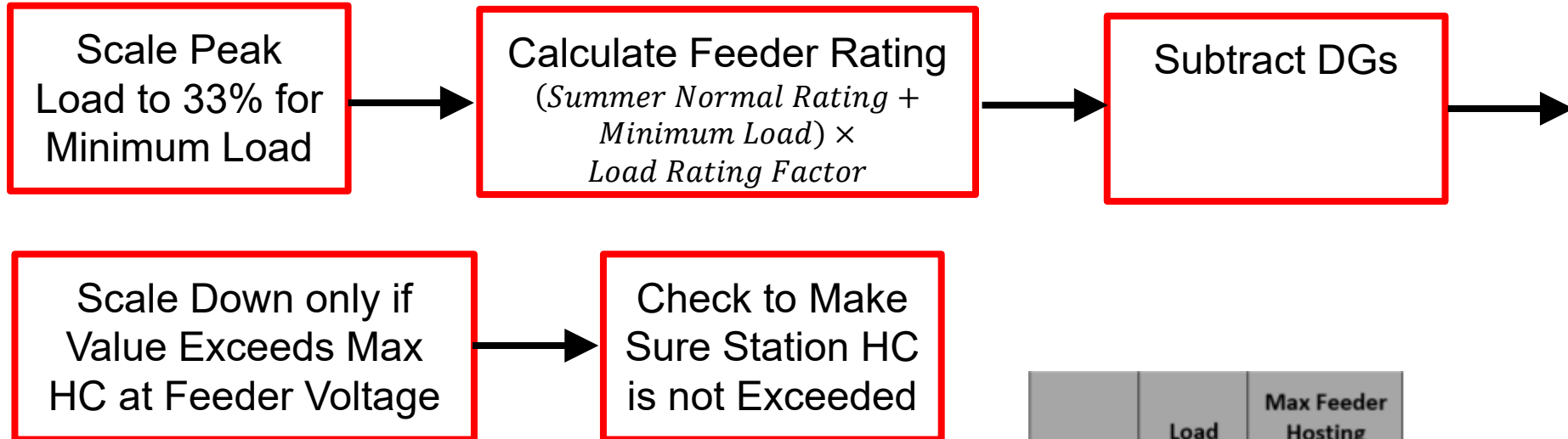
N-1  
Contingency

Scale to 95%  
per Eversource  
Standards

Subtract DGs  
Online/In  
Queue

# Technical Process Feeder Hosting Capacity– Version 1

- Feeder Hosting Capacity Process Flow



kV Value	Load Rating Factor	Max Feeder Hosting Capacity (kW)
34.5	0.475	7500
27.6	0.475	7500
23	0.45	5000
13.8	0.35	4000
13.2	0.35	4000
8.32	0.3	1000
4.8	0.3	1000
4.16	0.3	1000

Maximum Hosting Capacity Values/Load Rating Factors