Distributed Energy Resources Interconnection Seminar Standard / Expedited Process

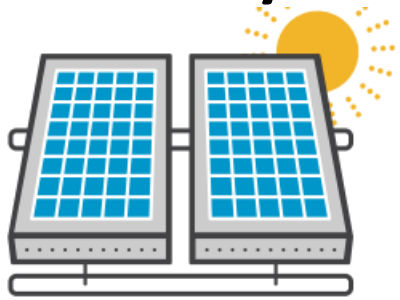
May 13, 2026

Thank you for joining us.

The presentation will begin at 2pm.

Please mute your phones to avoid any feedback.

Thank you.



EXPEDITED Interconnection Contacts
Eversource Energy – Eastern MA DG

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- Zach Tedford:
- Email: zachary.tedford@eversource.com

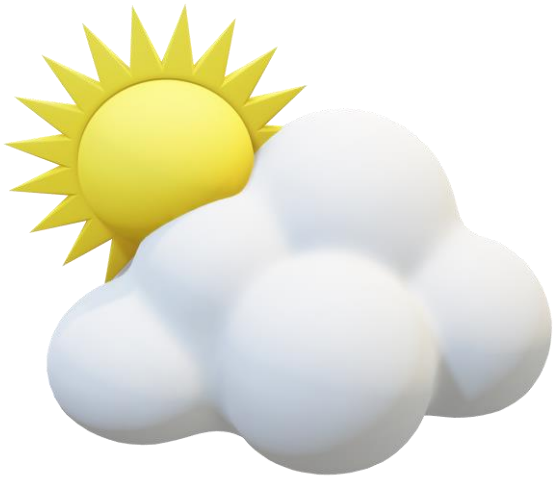
Summer Safety Tip

Use Proper PPE in Hot Weather

Wear lightweight, breathable, high-visibility clothing. Always use required PPE (gloves, helmets, eye protection). Apply sunscreen (SPF 50+) to prevent burn. A high percentage of ultraviolet (UV) light still penetrates through clouds, apply sunscreen everyday.

Introductions & Agenda

- Expedited/ Standard Interconnection Process
- DG Interconnection Documentation Requirements
- Engineering Design to Pre-Construction
- Eversource Disconnect Policy
- SMART SOLAR
- Hosting Capacity Map
- Distribution Group Studies
- Transmission Group ASO Studies
- Helpful Website Links
- Questions



Friendly Reminder

Application and Pre Application Fees may be paid by E-Check (requires validation) or Credit Card in Power Clerk at the time you submit your application. Please submit the correct application type for your project. Projects with a total system size (existing + proposed) of 25 kW AC or less qualify for a Simplified Application.

POWER CLERK EXPEDITED APPLICATIONS

- Systems greater than 25kW AC qualify as Expedited Applications

- System configuration does not correspond with the service configuration (such as using single phase inverters on a three-phase service)

- System includes non-inverter-based generator, co-generator, wind, hydro or other facility

- System is on a radial distribution circuit

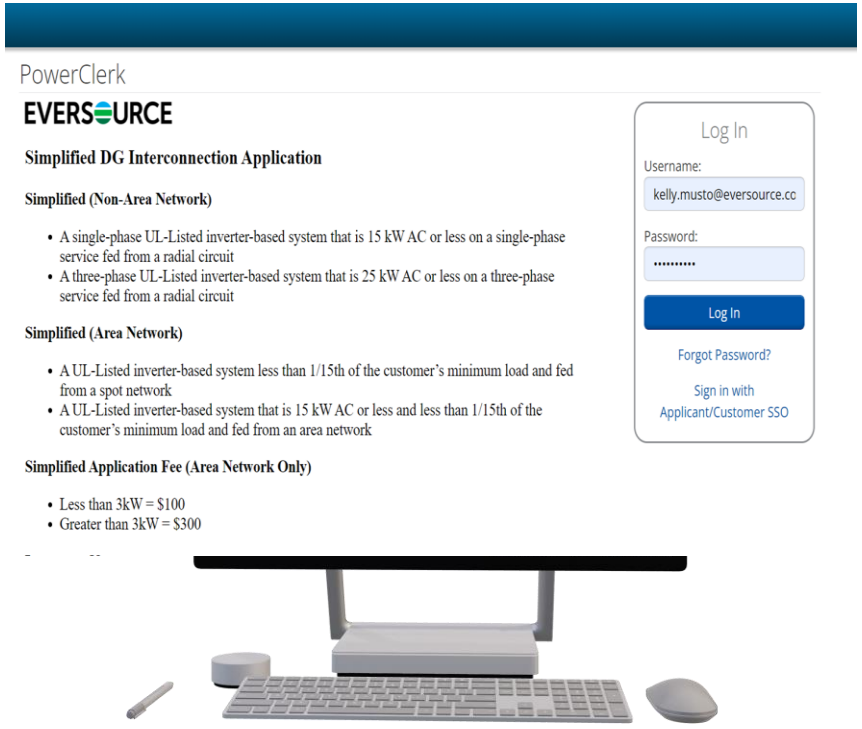
Proposed generation equipment must meet IEEE 1547.1 standards.
Inverters meet 1741 SB Compliance Standards.

Expedited/Standard application fee = $4.50 per kW (minimum fee of $300; maximum of $7,500)

You will be prompted to submit a pre-app if you are installing a generation facility of 250 kW AC or greater. Pre-App fees are $250 for projects up to 500 kW and $750 for projects over 500kW.

Contractors/Installers
Please login to Eversource.com and register for the access

Customers
Request read/write access from your installer



[Eversource | PowerClerk Log In]

Expedited Standard Process

INITIATION PHASE

- 250kW and greater Pre-app takes place before submitting application.
- Site plans
- One-line diagram
- Cut sheets
- Energy Storage Narrative
- Application fee
- Application reviewed for completion

ENGINEERING REVIEW

- Depending on project type and size various levels of engineering groups are involved
- System Planning Engineering determines if Impact Study is required or not

IMPACT STUDY

- Impact Study Agreement or supplemental agreement or both and Payment
- Impact Study Completed with a +/-25% Interconnection Cost Estimate
- ISA Executed
- Group Study (if applicable. See link below)

NO IMPACT STUDY

- A determination is made if any local upgrades are needed to the existing service or system.
- ISA Executed

DETAILED ENGINEERING

- Scheduled to begin after Customer pays 100% payment after ISA
- Final Sketch complete, Final Costs compiled, Easements by Property Owner Paperwork compiled, Town Hearings Scheduled, etc…

CONSTRUCTION PHASE

- ES construction
- Install meter and meter communication
- Relay settings confirmed
- Close out documents
- Schedule witness test

FINAL PHASE

- Test Energization
- Witness Test
- PTO
- Verify set up bill

One Line Diagram (SLD)

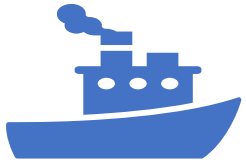
- **Requires MA Certified PE Stamp**
- Shows Existing Metering and proposed meter/interconnection
- Point of Common Coupling with Interconnecting Device, please note existing pole, transformer, meter number
- Size of main breaker
- External disconnect switch needs to be lockable in the open position and accessible to the utility 24/7
- Generator connection point, breaker and size
- kW rating needs to match application (name plate)
- Interconnecting Customer transformer configuration (if applicable) and impedance must match application.
- Cold Sequence Metering Required (Customer Equipment – Disconnect Switch – Meter)
- Recloser Required for 500 kW AC (Recloser – RTAC--Primary Meter – Customer Equipment)
- **Title block with Customer name, address, date, drawing number and revision number**
- Inverter settings in table form
- Definitive relay settings in table form, relay(s), PT's and CT's
- When limiting export, the SLD must show limited kW and the method of limiting, a manufacturer curtailment letter is required

Site Plan

- Must show property/lot lines, street names
- Interconnecting Pole Numbers
- Must show revenue meter location, location of inverter(s) and/or generators and disconnect
- Must show production meter if Net Metered
- Does not need to be PE Stamped
- Must be a plan form view i.e. vertical
- NOT “bird’s eye”, isometric, 3/4 view, google maps
- Solar Meters must be installed outside
- **Title block with Customer name, address, date, drawing number and revision number**

https://www.eversource.com/content/docs/default-source/builders-contractors/default-ieee1547-2018-settings-requirements-issued.pdf?sfvrsn=160fb831_2

Field Layout and Pre-Construction



Engineering and Design & Field Layout starts when…

Payment is Received (100% Payment per the ISA is Received)

Customer Confirms Previously Provided SLD/Site Plan and all other provided documentation remains the same or Updated Interconnection Documents are provided which will be Re-Screened thru Change Order Process

Town Permits have been approved for Proposed Design

Site Visit for all parties to confirm Utility Equipment Locations

Eversource Construction starts when….

100% payment received Post Design Completion

All Easements are Completed – Private and Public

Customer has delineated property extents and access road location

Entrance is cleared

Changes made after Design has been finalized will only increase timeline

Avoid…

- Relocating site entrance
- Changing interconnection location/orientation
- Modifying site conditions

https://www.eversource.com/content/residential/about/doing-business-with-us/interconnections/massachusetts/distributed-energy-resources-project-costs

Eversource Disconnect Switch Policy

Brandon Carr
Distribution Engineering Manager

EVERSOURCE

EMA Disconnect Switch Requirements

- Eversource's requirement is to have a single Utility Accessible Disconnect Switch (UADS) that can isolate all DG systems.

- The requirements for a UADS are:
  - Be Gang Operated
  - Have a visible open break
  - Be rated to interrupt the maximum generator facility output
  - Be capable of being locked open
  - Be easily accessible to company personnel at all times.

Solar MA Renewable Target Program (SMART)

PROGRAM UPDATE

Katelyn Pidala
Associate Analyst, Customer Solar Programs

EVERSOURCE

Outline

- SMART 3.0
- SMART Program Update (Eastern MA)
- Snapshot of SMART applications and claims
- Information on Renewable Credits Portal

SMART 3.0

- Projects that are eligible to participate in SMART 3.0 are currently able to submit SMART program applications to the statewide Solar Program Administrator.
- Approved projects will be eligible to receive incentive payments and Alternative On-Bill Credits once Eversource receives necessary approvals from the Massachusetts Department of Public Utilities; projects may still operate as Net Metering Facilities or Qualified Facilities until this time.
- Projects that intend to apply to SMART 3.0 should note anticipated SMART participation in their interconnection applications to ensure necessary metering is installed and eventual SMART enrollment is not delayed.
- The SMART 3.0 Portal is now live https://masmartsolar30eversource.powerclerk.com/MvcAccount/Login
- For more information, visit the Mass.gov DOER webpage: https://www.mass.gov/info-details/smart-30-program-details

SMART Program Update (EMA)

- 2026 SMART application fees:
  - Smaller than 25 KW: $142
  - Between 25 and 250 KW: $200
  - Between 250 and 500 KW: $971
  - Between 500 and 1,000 KW: $1,811
  - Larger than 1,000 KW: $3,518

SMART Program Update

2026 SMART 3.0 Capacity

Last Update: 5/1/2026 8:45 AM

SMART 3.0 Eversource Capacity Chart		
Total Allowable Capacity (MWs)	*Total Allocated Capacity (MWs)	**Total Pending Capacity (MWs)
294.06	**6.036**	**15.279**
Eversource Set-Asides (*Allocated)		
SA >25 and ≤250 kW; and >250 and ≤500 kW 29.41 MW Minimum	Low Income Property 29.41 MW Minimum	Community Shared Solar 44.11 MW Minimum
2.071	**0.000**	**1.216**

2025 SMART 3.0 Capacity

Last Update: 5/1/2026 8:45 AM

SMART 3.0 Eversource Capacity Chart		
Total Allowable Capacity (MWs)	*Total Allocated Capacity (MWs)	**Total Pending Capacity (MWs)
441.12	**96.163**	**26.569**
Eversource Set-Asides (*Allocated)		
SA >25 and ≤250 kW; and >250 and ≤500 kW 44.1 MW Minimum	Low Income Property 44.1 MW Minimum	Community Shared Solar 66.16 MW Minimum
17.655	**0.611**	**32.674**

SMART 2.0

SMART Solar Block Status Update---Original 1600 MW Capacity

Last Update: 4/3/2026 8:45 AM

LARGE PROJECTS (>25 kW AC) Electric Distribution Company (EDC)	Accepting Applications for Block[1]:	Current Block/Size (MW)[2]	Total Allocated Capacity (MW)[3]	Total Pending Capacity (MW)[4]	Total Remaining Capacity (MW)[5]
Eversource MA East	8 of 8	112.238	428.585	9.870	111.812

SMART Solar Block Status Update---Expanded Capacity

Last Update: 4/3/2026 8:45 AM

LARGE PROJECTS (>25 kW AC) Electric Distribution Company (EDC)	Accepting Applications for Block[1]:	Current Block/Size (MW)[2]	Total Allocated Capacity (MW)[3]	Total Pending Capacity (MW)[4]	Total Remaining Capacity (MW)[5]
Eversource MA East+West	9 of 16	92.393	71.276	0.111	618.491

*Allocated Capacity is capacity for which a Preliminary Statement of Qualification has been issued inclusive of Set-Asides.

**Pending Capacity is capacity for which an application has been submitted.

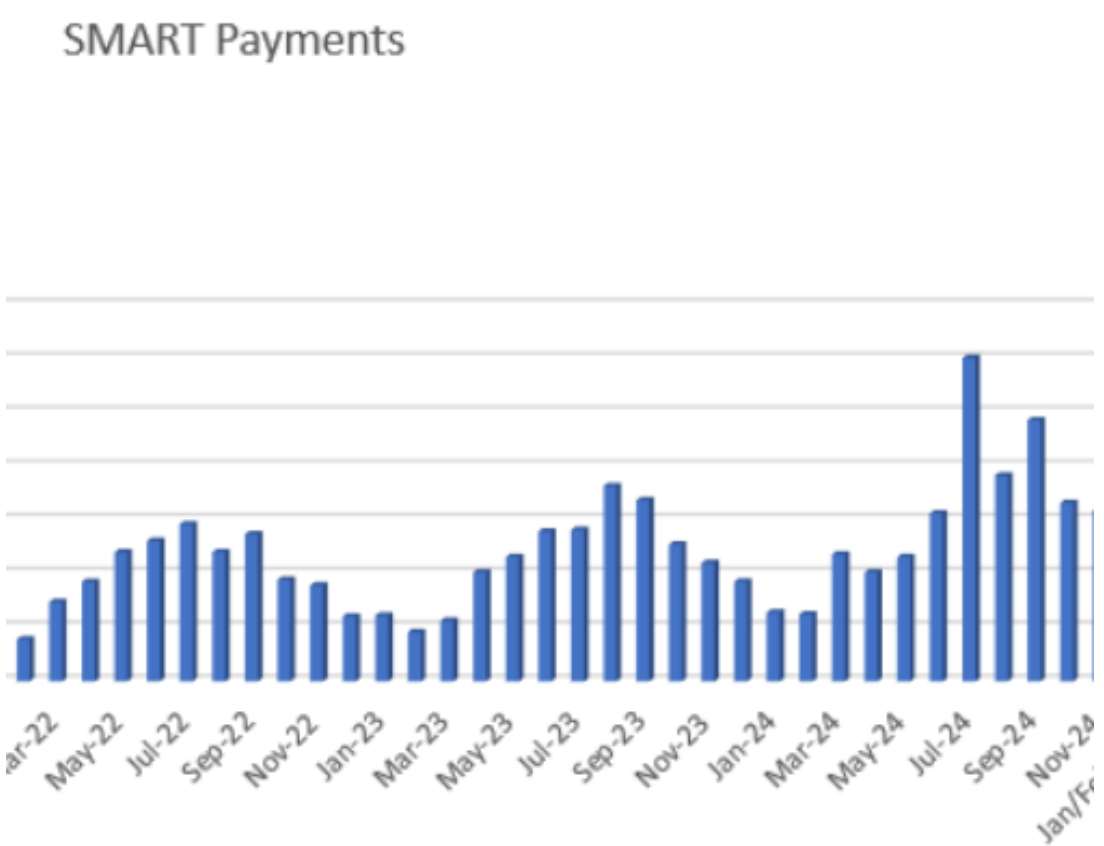
SMART Program Snapshot (EMA)

Number of large SMART applications and incentive claims by status and type with (MW) (as of 05/01/2026):

SMART Application or Claim Status	Total No. of Large Projects (> 25 kW-AC)	Behind the Meter (BTM)			Stand Alone (SA)		
		Net metering (NM)	Qualifying Facility (QF)	AOBC	NM	QF	AOBC
1. Applications submitted	0	0	0	0	0	0	0
2. Applications approved (PSOQ)	248 (163.38)	54 (10.27)	8 (0.88)	71 (10.65)	14 (12.1)	63 (51.66)	48 (77.83)
3. Claims submitted and under review	40 (25.35)	5 (0.61)	2 (0.25)	15 (1.54)	3 (5.19)	10 (10.01)	5 (7.72)
4. Claims pending Eversource approval	20 (8.67)	11 (1.43)	0	3 (0.49)	0	5 (6.5)	1 (0.25)
5. Claims approved (FSOQ)	906 (320)	331 (46.2)	52 (6.7)	80 (11.6)	46 (17)	269 (67.1)	128 (162.5)

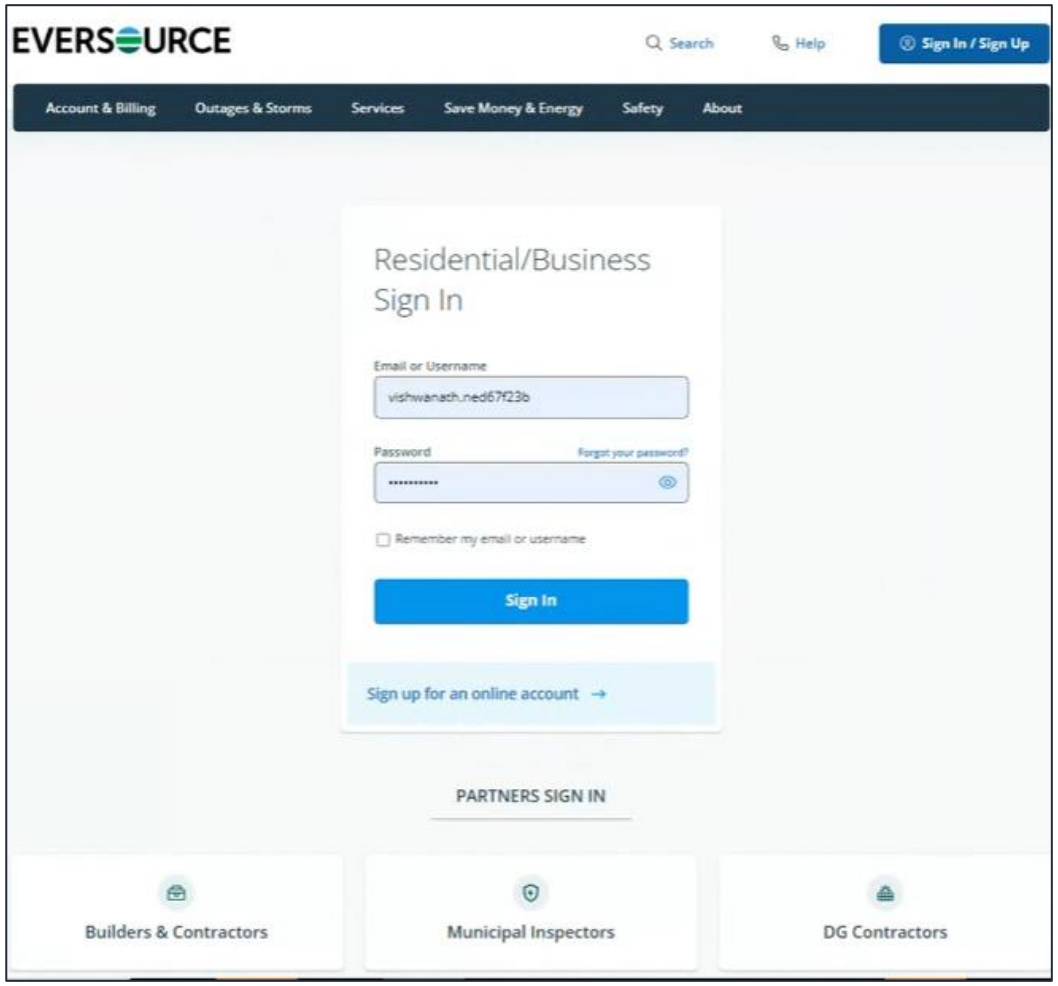
Overall Numbers

- Claim Approved Accounts EMA (>25 kW AC): 906 **(320 MW)**
- Total EMA Payments Last 12 Months (all sizes): **$69.5M (629,787 MWH)**
- Total Program Payments (since inception): **$318M**



Renewable Credits Portal Update

- Nearly 1200 users have signed up and submitted ~1500 AOBC forms and ~500 Schedule Z forms
- Portal is available at eversource-ext.gridx.com/
- Log in using your eversource.com log in information. First time users must sign up for an online account.
- Access the User Guide on eversource.com for step-by-step instructions
- For help, contact smart@eversource.com



- Renewable Credit Portal user guide: https://eversource.com/content/docs/default-source/save-money-energy/renewable-credits-portal-user-guide.pdf

Ask Questions and Get Clarification

CLEAResult (SMART Program Administrator):

- MA.SMART@CLEAResult.com, 888-989-7752

Eversource SMART Team:

- SMART@eversource.com, 844-726-7573

Interconnection Automation

John Kreso III

New Hosting Capacity Map Demonstration

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Updated Hosting Capacity and Headroom Maps

- View multiple hosting capacity values by season and time of day, supporting flexible and curtailed interconnection planning.
- Access available load (headroom) information to help EV and energy storage developers identify optimal siting locations.
- Use an interactive, self-service map with advanced search capabilities to identify properties that meet project needs.
- Benefit from ongoing automation of interconnection processes, designed to reduce review and approval timelines.

Demo Summary Points

- Search locations by address and parcel.
- Filter parcels based on available capacity and parcel size.
- Identify protected and environmentally sensitive areas, as well as areas with applicable CIP fees.
- View hosting capacity and headroom information by parcel, closest feeder, and substation.
- Analyze seasonal and time-series hosting capacity data.
- Identify alternate feeder options where available, especially if low capacity displayed.
- Submit automated pre-application requests directly from the map.

Pre-Application Automation

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Eversource Distributed Generation Pre-Application Report

Data	Input
Date	12/9/2025
Address or geo-coordinates	517 GREAT NECK RD, SOUTH Mashpee (41.593088, -70.477655)
Proposed feeder	4-452-452
Proposed size	3,000.00 kW

Nbr.	Question	Answer
1	Circuit voltage at the substation	115/22.8 kV
2	Circuit name	4-452-452
3	Circuit voltage at proposed facility	22.86 kV
4	Substation name	SANTUIT_941 (DIST)
5	Substation transformer rating	65.00 MVA
6	Whether single or three phase is available near site	Three Phase
7	If single phase – distance from three phase service	N/A
8	Aggregate connected Facilities (kW) by technology type on circuit and submitted complete applications of Facilities (kW) by technology type on circuit that have not yet been interconnected	Online Battery 5.00 kW Online PV 821.42 kW Online PV & Battery 73.29 kW **Online Total** 899.71 kW In-Queue PV 52.14 kW **In-Queue Total** 52.14 kW
9	Aggregate connected Facilities (kW) by technology on the substation transformer and submitted complete applications of Facilities (kW) by technology type that have not yet been interconnected	Online Battery 5.00 kW Online PV 837.92 kW Online PV & Battery 572.29 kW **Online Total** 1,415.21 kW In-Queue PV 52.14 kW **In-Queue Total** 52.14 kW

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10	Whether 3V0 is deployed or scheduled for deployment on the circuit or substation	No
11	Whether the Interconnecting Customer is served by an area network, a spot network, or radial system	Served by radial system
12	Identification of feeders within 0.25 mi of the proposed interconnection site through a snap- shot of GIS map or other means	- 4-452-452
13	For the nearest available feeder, the circuit rating and approximate circuit length from the proposed Facility to the substation	4-452-452 Circuit Rating: 340.00 A Approximate Circuit Length: 2.75 mi
14	Whether the proposed facility is likely to be on the standard track	Due to the DER size, this project is likely to be on the standard track
15	Whether an Affected System Operator has informed the Distribution Company that an ASO Study is required, or the Distribution Company is aware of an ongoing ASO Study for the proposed Facility interconnection location	Due to the DER size, ASO study is likely required
16	Other potential system constraints or critical items that may impact the proposed Facility.	Additional constraints may exist for this project's interconnection. Applicants may request Pre-application report prepared by DER Planning Engineers through PowerClerk to learn more about those constraints. Alternatively, those constraints will be provided after the submitted application is reviewed by Eversource.

Pre-Application Production Version

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Please note that other applicants who may be responding to an RFP may receive different pre-application report results.

Eversource is receiving a high volume of large applications. There may be other applications in the queue which have not yet been deemed complete or assigned a circuit. Applications are processed in the order in which they are received. Studies and construction for applications ahead of yours must be completed first. This may delay the start of your studies and construction.

DISCLAIMER: Be aware that this pre-application report is simply a snapshot in time and is non-binding. Systems conditions can and do change frequently.

All expedited and standard projects in CIP areas are subjected to per kW CIP fee for interconnections along with any local interconnection costs based on the Engineering Studies.

The automatic pre-application report is based on the selected feeder by the applicant. If the applicant requires pre-application report prepared by DER Planning Engineers, a pre application request should be submitted through PowerClerk.

DPU Net Metering Requirements: The Department of Public Utilities has a website dedicated to net metering which contains important information relative to net metering eligibility, including a Fact Sheet: Rules on Net Metering, and Frequently Asked Questions. Please visit: http://www.mass.gov/dpu/netmetering or call 617-305-3500. The System of Assurance is (www.MassACA.org) responsible for determining net metering eligibility and granting cap allocations. The MassACA can be reached at administrator@massaca.org or 877-357-9030.

Please see Eversource's website for a copy of the DG Interconnection and Net Metering Tarif at: https://www.eversource.com/content/ema-c/residential/my-account/billingpayments/about-your-bill/rates-tarifs/electric-tarifs-rules

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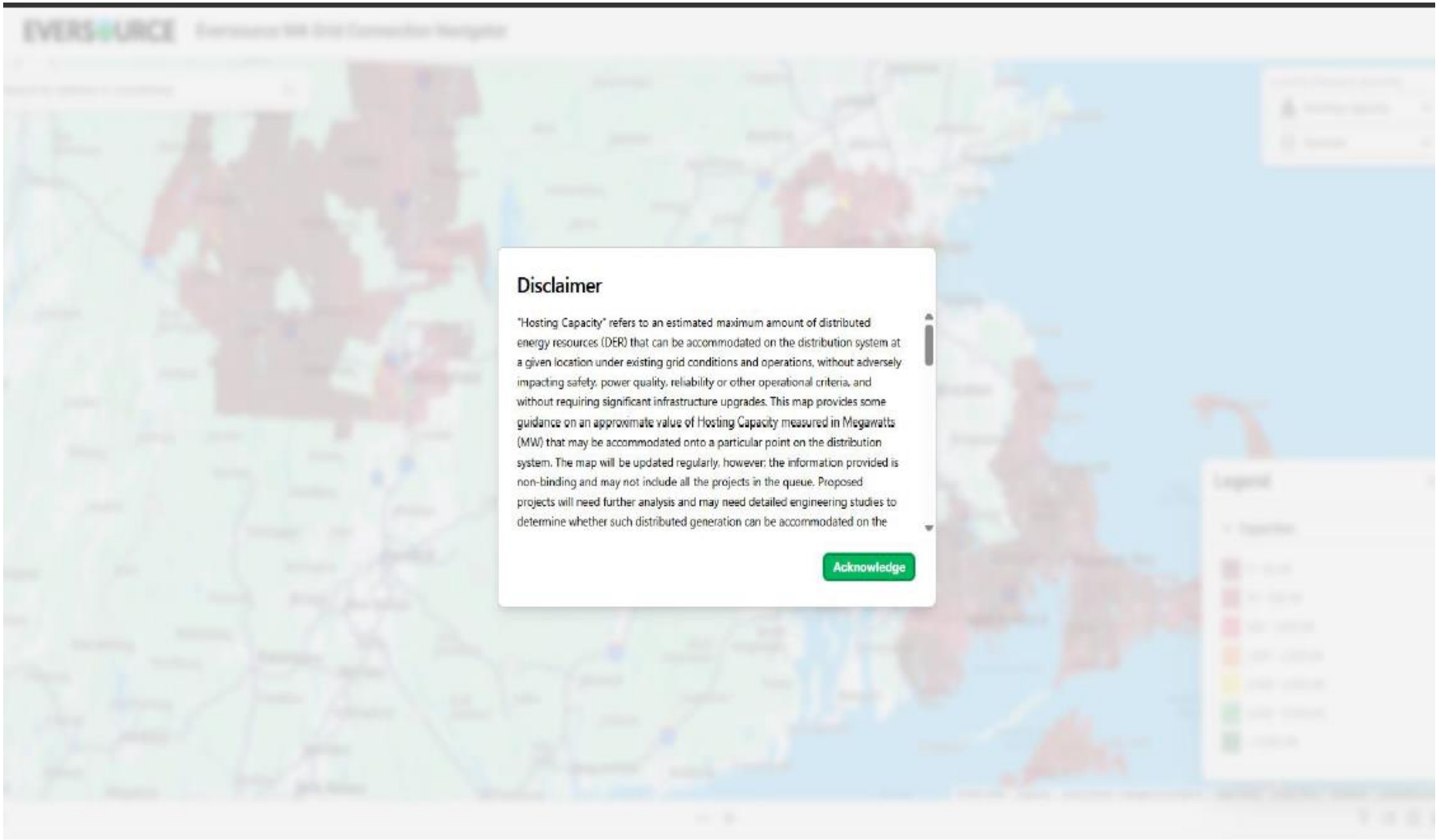
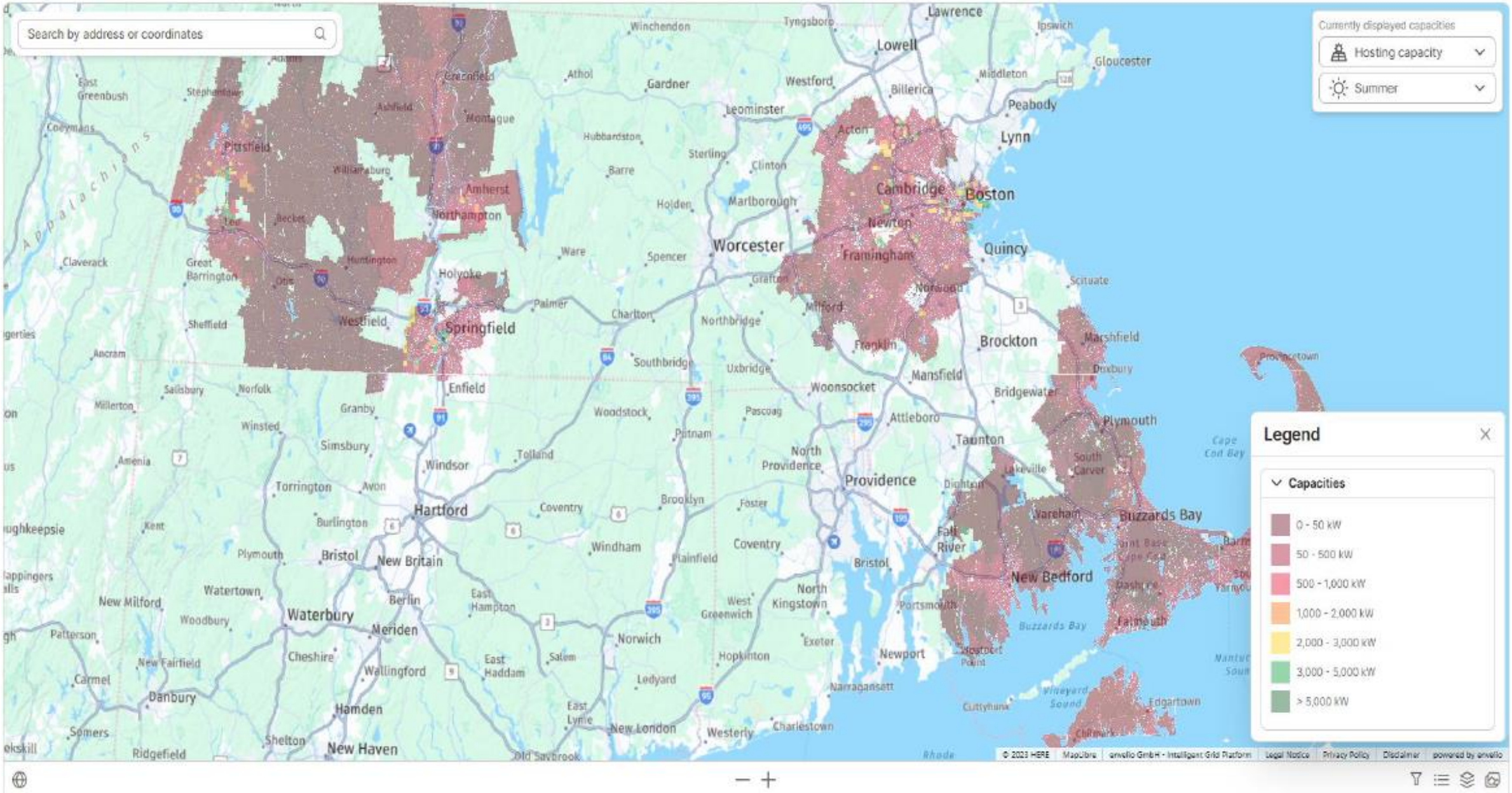
Please note that if your resource will participate in any of the ISO-NE markets, you must notify Eversource. It is the customer's responsibility to provide prior notification to Eversource, because, pursuant to the ISO-NE Market Rules and Open Access Transmission Tarif, such participation imposes obligations on the Market Participant as well as the Transmission/Distribution Owner. For example, if local transmission lines (i.e., non-PTF lines owned by Eversource) are used to deliver your product to the market, you must execute a Schedule 21 Local Service Agreement with Eversource and pay the ongoing transmission wheeling charges. Moreover, participating in the ISO-NE markets constitutes wholesale transactions, which could change the regulatory jurisdiction of your interconnection facilities from state to federal.


Disclaimer
"Hosting Capacity" refers to an estimated maximum amount of distributed energy resources (DER) 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 will need further analysis and may need detailed engineering studies to determine whether such distributed generation can be accommodated on the
Acknowledge

EVERSOURCE Eversource MA Grid Connection Navigator



Welcome to the Eversource MA Grid Connection Navigator

Quickly explore grid capacity, identify optimal land parcels, estimate interconnection costs and submit applications—all in one platform designed to support your Distributed Energy Resource project planning.

How to Get Started:

- **Search by Address:** enter a location in the search bar.
- **Explore the Map:** scroll and zoom to find your parcel.
- **View Hosting Capacity and Headroom:** click on a parcel to see its grid seasonal and time-series hosting capacity and headroom.
  - Hosting Capacity is the amount of new distributed energy resources (like solar PV) that can be added to a specific part of the electric grid without adversely impacting reliability or requiring significant infrastructure upgrades.
  - Headroom for load refers to the available unused capacity in the electrical infrastructure that can accommodate additional demand without exceeding thermal, voltage, or operational limits.

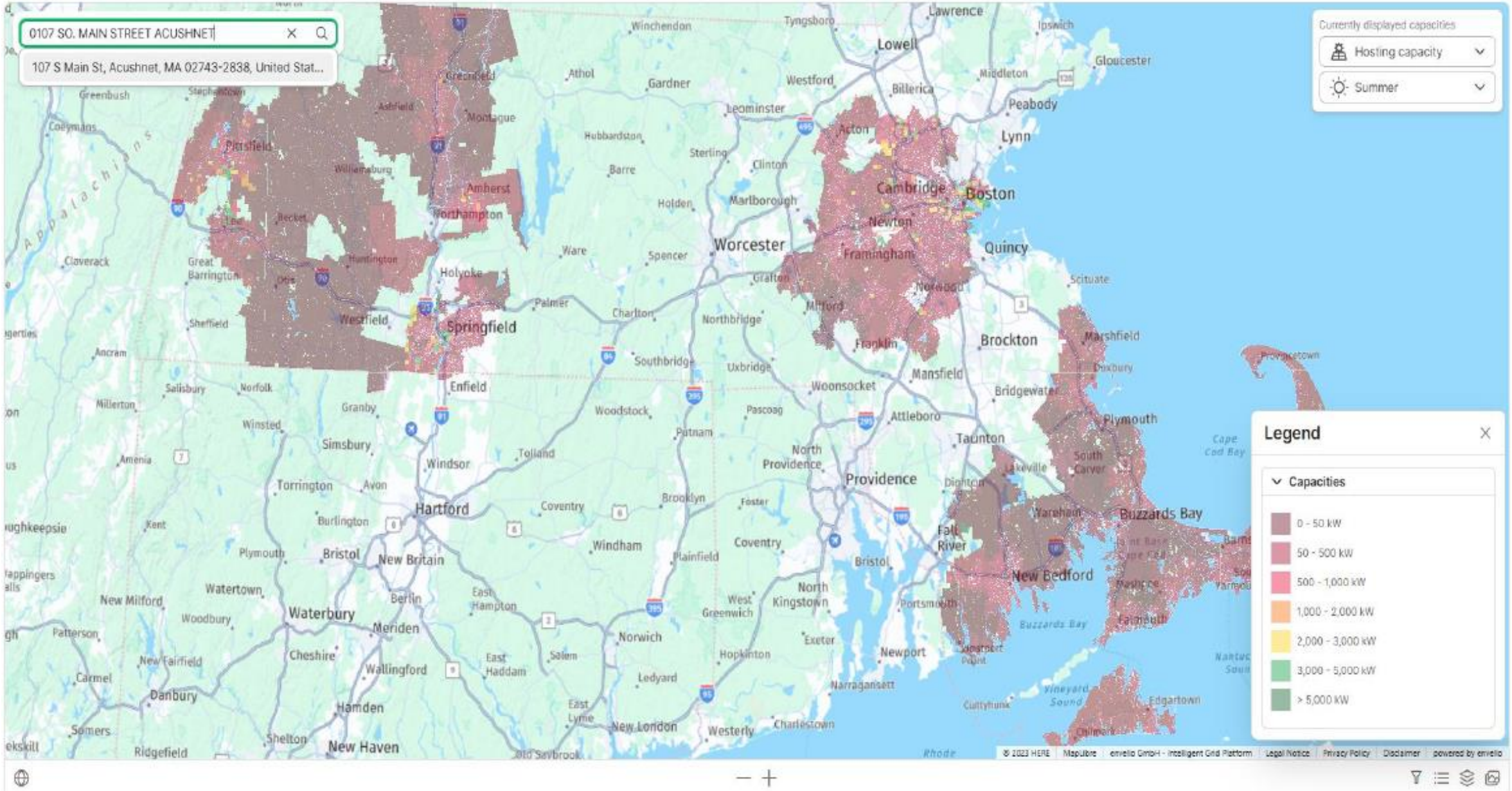
Go to Eversource MA Grid Connection Navigator

Access Powerful Tools for Solar Project Planning

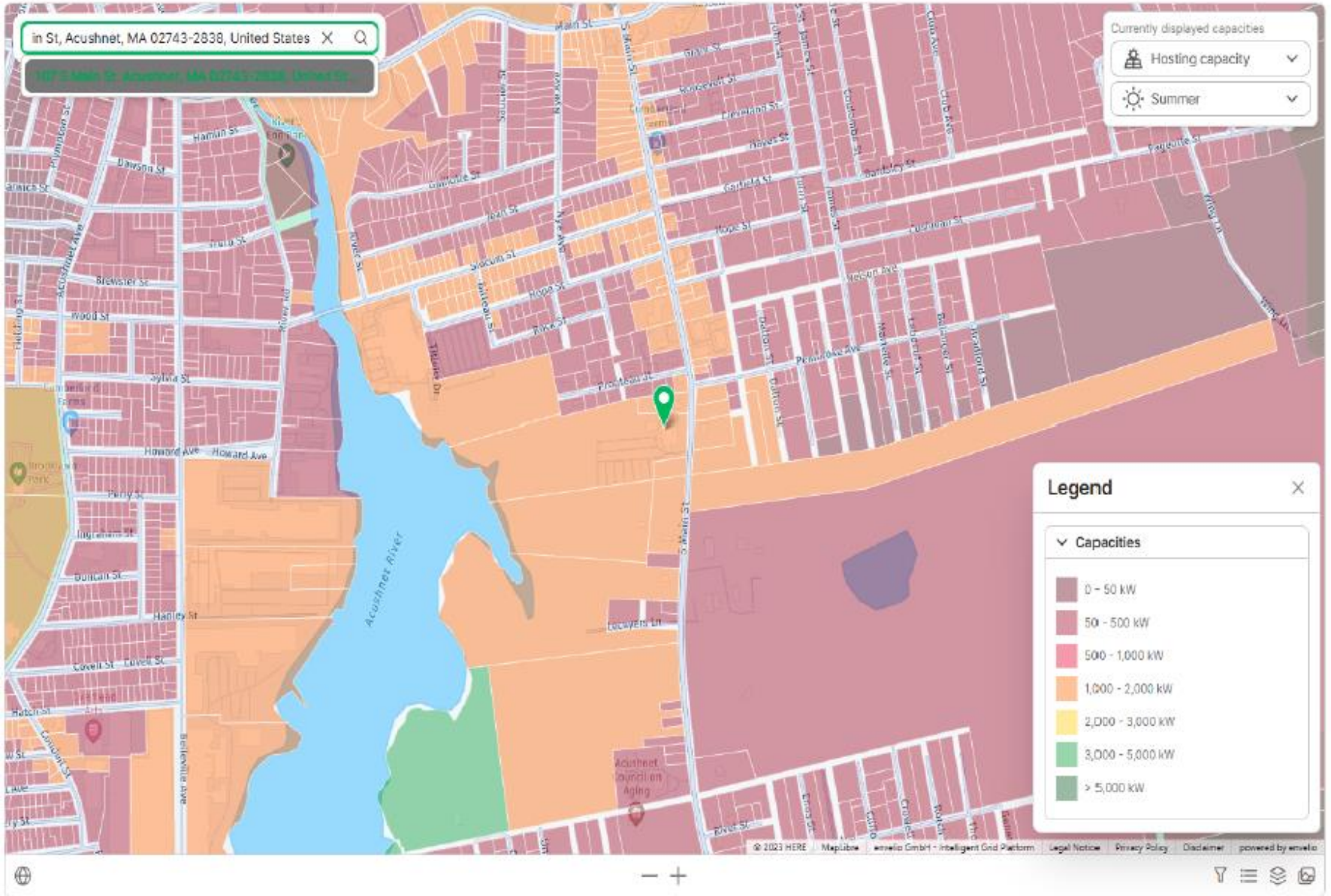
The Interconnection Analysis Portal offers powerful tools for large-scale solar developers. Use interactive maps, identify optimal land parcels, estimate interconnection costs and more.

Go to Eversource Interconnection Analysis Portal

EVERSOURCE Eversource MA Grid Connection Navigator



EVERSOURCE Eversource MA Grid Connection Navigator



Parcel details

General | Feeders

Location details

Latitude & longitude
41.67651, -70.90896

Parcel address
0107 SO. MAIN STREET ACUSHNET

Location ID
M_249039_825271

Lot size
12.67 acres

Closest feeder

Time Series

Capacity	Phase
1.25 MW	3 ph
Distance	**Operating voltage**
0.00 mi	13.20 kV

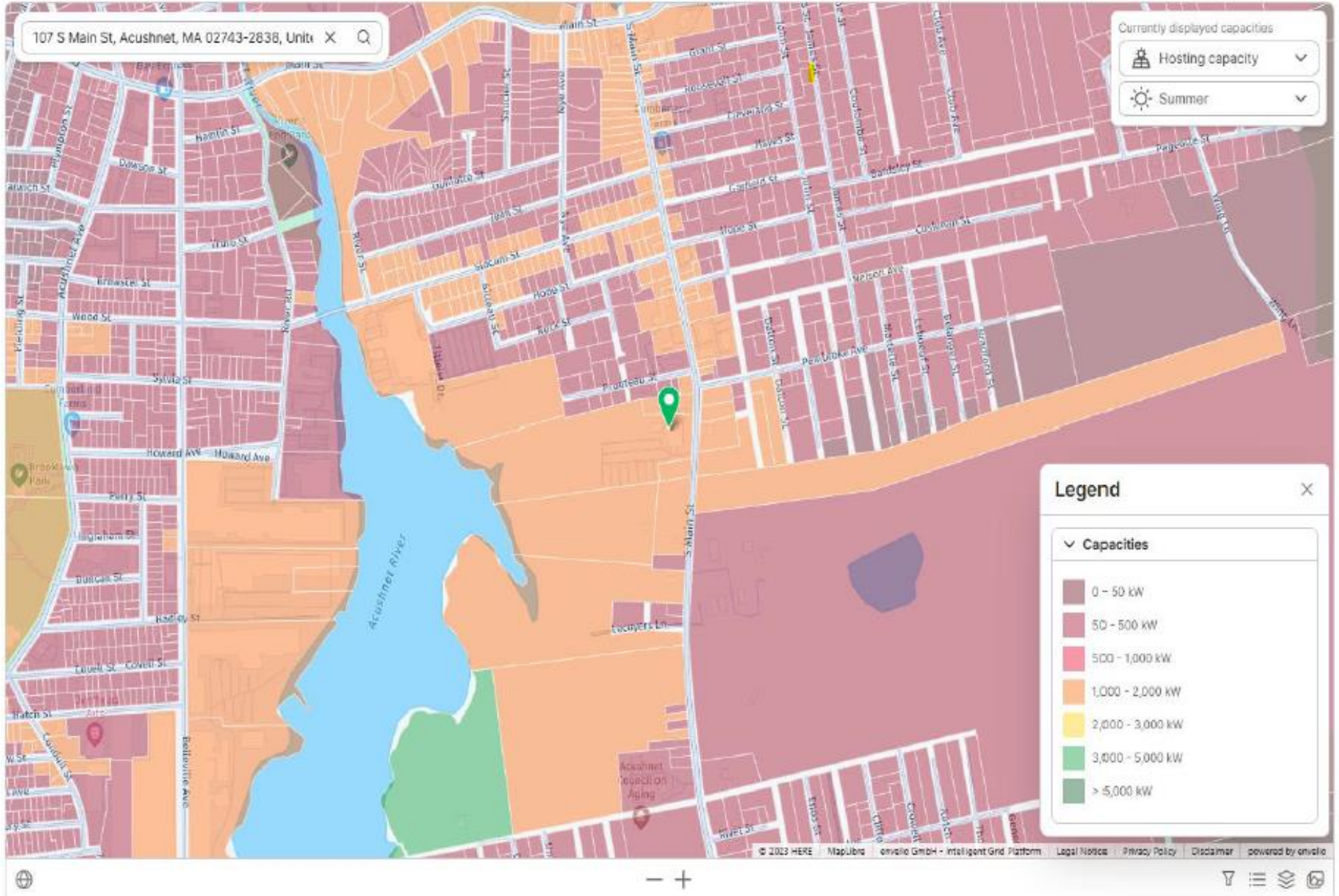
Section ID
600000004421190_OH

Circuit name	DER online
2-231-231	1.26 MW
DER in queue	**Circuit rating**
50.50 kW	351.00 A

Submit DER interconnection application

Start DER pre-application process

EVERSOURCE Eversource MA Grid Connection Navigator



Parcel details

Non-bulk station

Time Series

Name	Capacity	Voltage	Rating
HATHWAY_ST_617 (DIST)	-	0/0 kV	0.00 VA

Bulk substation

Time Series

Name	Capacity	Voltage	Rating
ACUSHNET_612 (BULK)	70.92 MW	115/13.2 kV	75.00 MVA

Technical and administrative details

Current ASO studies

ASO_LVL_0.1_QTY=0,ASO_LVL_3_IN_STUDY_QTY=0,ASO_LVL_3_IN_QUEUE_QTY=0

3V0 status	CIP Fee
Yes	-

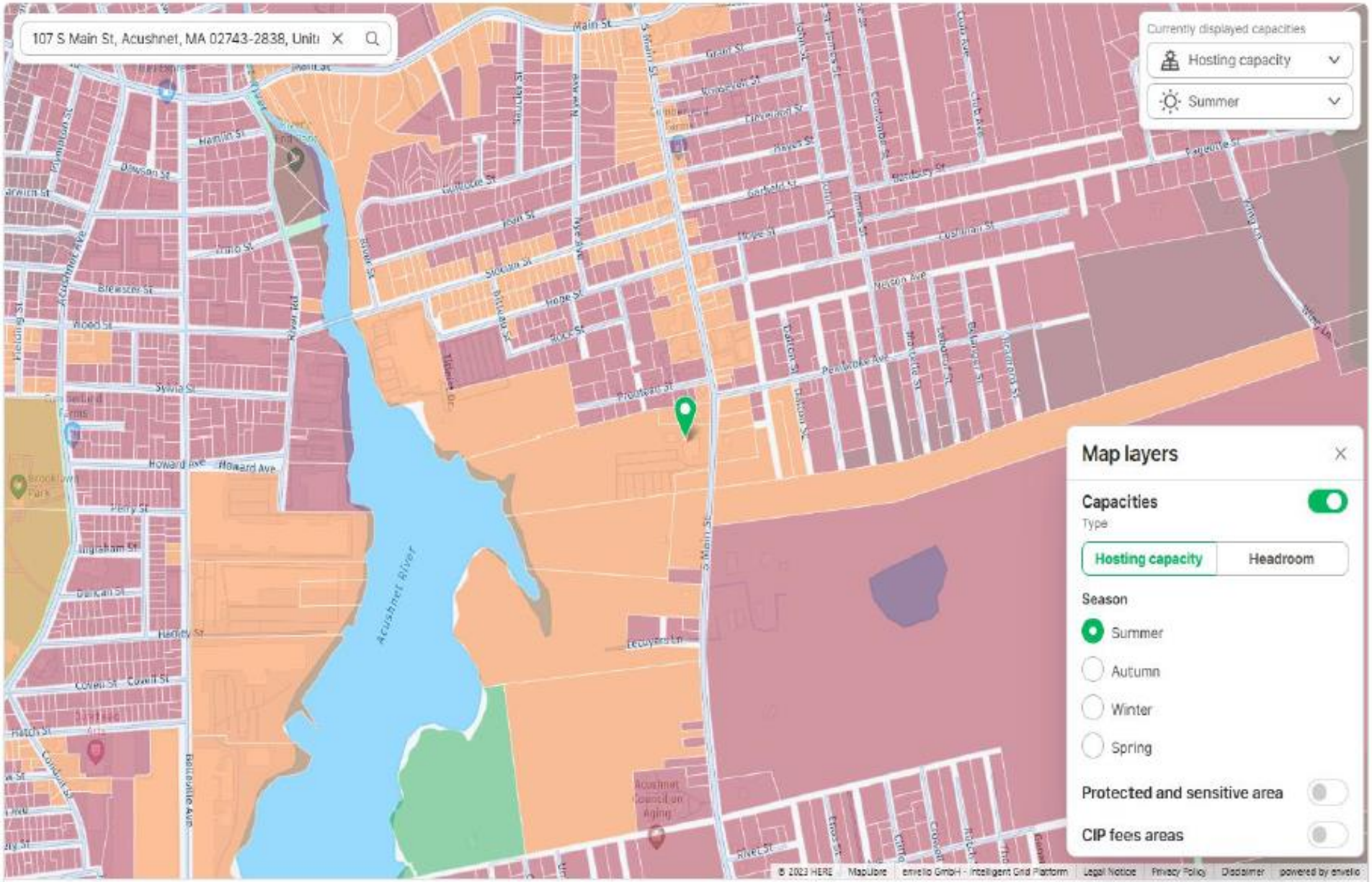
Last Updated

4/2/2026, 8:00:00 PM

Submit DER interconnection application

Start DER pre-application process

Eversource MA Grid Connection Navigator



Parcel details

Non-bulk station

Time Series

Capacity	Name
-	HATHWAY_ST_617 (DIST)
Voltage	**Rating**
0/0 kV	0.00 VA

Bulk substation

Time Series

Capacity	Name
70.92 MW	ACUSHNET_612 (BULK)
Voltage	**Rating**
115/13.2 kV	75.00 MVA

Technical and administrative details

Current ASO studies

ASO_LVL_0.1_QTY=0,ASO_LVL_3_IN_STUDY_QTY=0,ASO_LVL_3_IN_QUEUE_QTY=0

3V0 status	CIP Fee
Yes	-

Last Updated

4/2/2026, 8:00:00 PM

Submit DER interconnection application

Start DER pre-application process

Capital Investment Project (CIP)
Distribution Group Studies
Melanie Khederian, Distributed Generation
Senior Account Executive

ASO Studies
Neal Stacom
Lead Engineer, Transmission Planning

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Capital Investment Project (CIP)- Distribution Group Studies

https://www.eversource.com/content/residential/about/doing-business-with-us/interconnections/massachusetts/distribution-group-studies

- Eversource is performing distribution group studies in Massachusetts to efficiently process and analyze distributed generation (DG) applications that allow complimentary group solutions to be shared by DG customers. The group study looks at the collective impact on the system to understand what system modifications would be required to support these DG projects when interconnected.

- Customer's that are connecting to stations associated with the group will be required to pay a cost per kW AC to interconnect.

Capital Investment Project (CIP) Fee Approved Group Study Areas - Eastern Massachusetts

Group	Final SIS Date +/- 25% Cost Estimate	Customer Notification *10 business days after completion*	CIP Proposal Deadline *40 business days after completion*	CIP Fee (Dollars/kW)
Marion-Fairhaven 001	Completed on 3/29/2022	Completed on 3/28/2022	Approved 12/31/2022	$370/kW
Marion-Fairhaven 002	Completed on 4/2/2025	Completed on 4/2/2025	Approved 12/31/2022	$370/kW
Plymouth 001	Completed on 4/19/2022	Completed on 4/19/2022	Approved 6/4/2024	$224/kW
Cape 001	Completed on 4/25/2022	Completed on 4/25/2022	Approved 6/4/2024	$357/kW
Cape 002	Completed on 10/8/2025	Completed on 10/8/2025	Approved 6/4/2024	$357/kW
Dartmouth Westport 001	Completed on 4/8/2022	Completed on 4/8/2022	Approved 6/4/2024	$387/kW

Capital Investment Project (CIP) Fee Approved Group Study Areas - Western Massachusetts

Group	Final SIS Date +/- 25% Cost Estimate	Customer Notification *10 business days after completion*	CIP Proposal Deadline *40 business days after completion*	CIP Fee (Dollars/kW)
Blandford 001	Completed on 4/4/2022	Completed on 4/4/2022	Approved 6/4/2024	$498/kW
Blandford 002	Completed on 11/18/2025	Completed on 11/18/2025	Approved 6/4/2024	$498/kW

In Process Group Study Areas - Eastern Massachusetts

Area	Date Group Opened	Total Projects Invited	Total Opt Ins	Opt in MW
New Bedford 001	Completed on 5/11/2022	14	8	25.2
Plymouth 002	Completed 1/24/2025	46	35	125.2

In Process Group Study Areas - Western Massachusetts

Area	Date Group Opened	Total Projects Invited	Total Opt Ins	Opt in MW
Southwick 001	Completed 5/9/2024	6	6	24
Gill-Montague 001 (Whately-Deerfield)	Completed 5/10/2024	11	9	34.9
Berkshire 001 (Dalton-Hinsdale)	Completed 5/10/2024	4	3	15

Capital Investment Project (CIP)- Distribution Group Studies- Continued

- To identify if a site is connecting to a station associated with the group study, please utilize our host capacity map. We have included the list of station for each group in the table to our right. This information is also posted on our website.

- https://www.eversource.com/content/ema-c/about/about-us/doing-business-with-us/builders-contractors/interconnections/massachusetts/hosting- capacity-ma

CIP Area - Group	Substation
Marion-Fairhaven	Arsene St 654
	Crystal Springs 646
	Rochester 745
	Wing Lane 624
Dartmouth-Westport	Cross Rd 651
	Fisher Rd 657
Cape	Falmouth 933
	Harwich 968
	Hatchville 936
	Hyannis Jnc 961
	Sandwich 916
	Oak St 920
	Mashpee 946
	Otis 915

CIP Area - Group	Substation
New Bedford	Industrial Park 636
Plymouth	Brook St 727
	Kingston 735
	Manomet 721
	Tremont 713
	Valley 715
	Wareham 714
	West Pond 737

CIP Area - Group	Substation
Blandford	Blandford 19J
Southwick-Granville	Southwick 29A
Gill-Montague	Montague 21C
	French King 21B
Dalton-Hinsdale	Berkshire 18C
Whatley	21B French King
	21C Montague

Transmission ASO Studies Overview

- Volume of DER applications seeking to interconnect has resulted in the need to ensure that DER projects do not cause adverse impacts* to the network.
- Eversource in coordination with ISO-NE will assess each DER application to determine the required level of study.
- Level 0 studies
  - At a minimum, generally consist of a transfer limit assessment to ensure no degradation of ISO-NE Interface limits. If adverse impacts found, a Level 3 ASO study will be required.
  - Submission and validation of PSCAD model is required
- Level 3 studies
  - Conduct thermal and voltage steady state, short circuit, stability analysis, EMT with PSCAD
  - Technical data including PSSE models (projects >=5MW) and PSCAD models (projects >1MW) will be requested from projects and is required to start studies
  - DER Projects determined as level 3 are grouped together based on regional area into an ASO to increase efficiency (rather than studying each individually)

- *See definition of Significant Adverse Impact in ISO-NE's *Transmission Planning Technical Guide* https://www.iso-ne.com/static-assets/documents/100028/tptg_rev8_4.pdf

ASO Study Level Determination

- Projects 5MW or greater are always considered level 3 and require ASO study.
- Projects 1-5MW current process:
  - First 20MW of DER at electrically close stations can proceed as Level 0
  - Projects submitted after 20MW threshold is reached will be Level 3
- Projects 1-5MW new windowed approach (starting Oct 2026):
  - Within 30-day determination window, if total DER submitted will be less than 20 MW at electrically close stations, then all will be level 0.
  - Once 20 MW threshold is reached, all projects will become level 3.

Coordination with ISO-NE TCS studies

- ISO-NE shared the final steady-state, stability, and short-circuit TCS library cases with the Transmission Owners February 2026.
- For the Level 3 2026 ASO projects within ISO-NE's TCS boundary, the ASO studies must incorporate and model all relevant TCS projects and associated transmission upgrades.
  - Additional cases without the TCS project transmission upgrades are studied to ensure DER projects are not contingent on said upgrades to interconnect
- ISO-NE indicated during the **TCS_TO_Presentation on July 31, 2025** for the State jurisdictional ASO studies that:
  "These studies, which will run in parallel, will have until 90 days after the start of the initial Cluster Study—expected to begin January 19, 2027—to achieve I.3.9 approval."
- Accordingly, all projects in the upcoming 2026 Level 3 ASO studies are expected to receive Section I.3.9 PPA approval from ISO-NE by **April 19, 2027**, to avoid being impacted by ISO-NE's initial Cluster Study, assuming no unforeseen delays beyond Eversource's control.

Additional Resources

Mass Distributed Generation, Interconnections & Net Metering
https://www.eversource.com/content/ema-c/about/about-us/doing-business-with-us/builders-contractors/interconnections/massachusetts

ASO Impact Screening Flow Diagram
https://www.eversource.com/content/docs/default-source/builders-contractors/aso-impact-screen-diagram.pdf?sfvrsn=551cdd62_2

Technical Data Request List for Level 3 ASO Transmission Studies
https://www.eversource.com/content/docs/default-source/builders-contractors/aso-technical-data-request.pdf?sfvrsn=2d53d562_0

DG Guidelines
https://www.eversource.com/content/docs/default-source/builders-contractors/distributed-generation-guidelines-interconnection.pdf?sfvrsn=5432d062_2

SMART Guidelines
https://www.eversource.com/ content/ema-c/about/about- us/doing-business-with- us/builders- contractors/interconnections/ massachusetts/smart-solar- program-installers

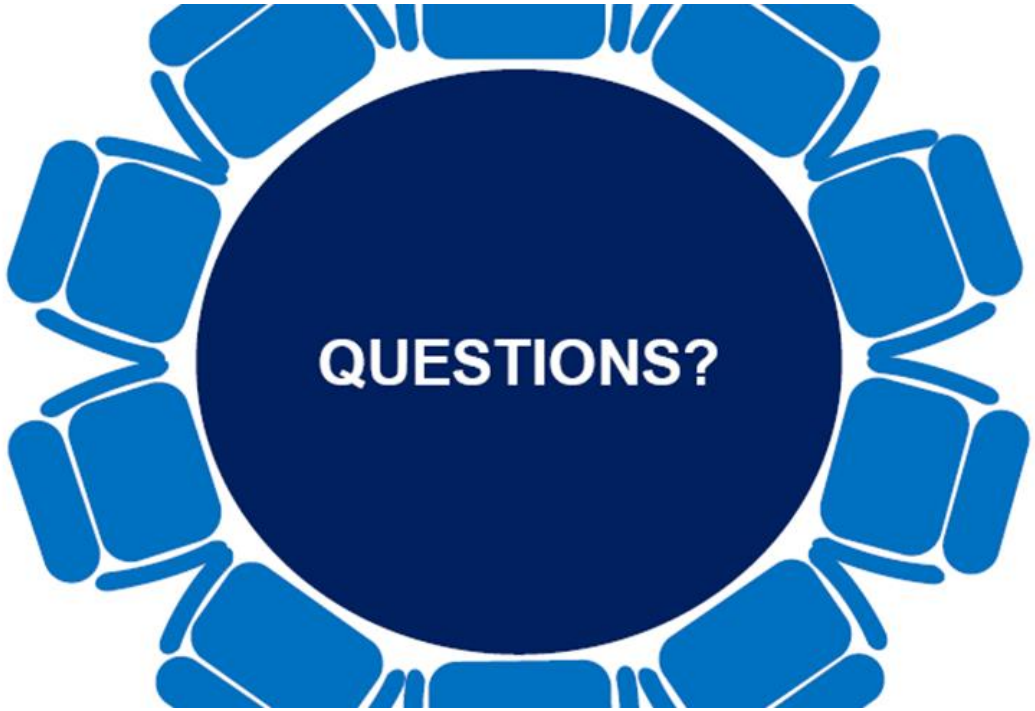
Distributed Energy Resource (DER) Projects Costs
www.eversource.com/content/residential/about/doing-business-with-us/interconnections/massachusetts/distributed-energy-resources-project-costs

TRSG Spreadsheet
https://www.eversource.com/content/residential/about/doing-business-with-us/interconnections/massachusetts/distribution-group-studies

Link to request equipment added to power clerk
https://www.energy.ca.gov/programs-and-topics/programs/solar-equipment-lists

Link to Hosting Capacity Map
https://navigator.eversource.envelio.com/?lang=en-us#8.02/42.025/-71.67

Link to Invertor Change Impact
https://www.eversource.com/content/docs/default-source/builders-contractors/inverter-design-changes-table.pdf?sfvrsn=496ad09f_2


QUESTIONS?