eRoadMAP™

Layer References |
Source, Update Frequency, Granularity

EPRI | EVs2Scale2030™

eRoadMAP™ Layers Overview

- **Demographic Layers**
  - Air Quality
  - Transportation Access
  - Demographic Census Tracts
- **Fueling Layers**
  - EV Charging Stations
  - Truck Stops
- **Utility Service Territory Outlines**
  - Utility outlines

- **Load Capacity Layer** includes data from*
  - Ameren (IL)
  - Avangrid
  - Central Hudson Gas & Electric
  - Con Edison (NY and NJ)
  - Eversource
  - Exelon
  - Los Angeles Department of Water and Power
  - National Grid (MA and NY)
  - Pacific Gas & Electric
  - Rhode Island Energy
  - Southern California Edison

* Note: The utilities shown in the eRoadMAP hosting capacity layers may be referred to by their local subsidiary names instead of the names listed here.

*eRoadMAP layer will not be updated unless original source releases a new study

Demographic Layers

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eRoadMAP™ Air Quality Layer

- **Data provider:** US Department of Transportation
  - Air quality is measured through levels of particulate matter of at most 2.5 micrometers in diameter (PM2.5)
- **Metadata URL:** link
  - Verified on September 5th, 2024
- **Data download URL:** link
  - Last downloaded on September 5th, 2024
- **Source update frequency:** Static data from 2022*.
- **Data Granularity:** Available by Census Tract measured in µg/m^3 units
  - All areas shown have levels of least PM2.5 > 9 µg/m^3
  - EPA defines environments where levels of PM2.5 > 9 µg/m^3 to be above the primary (health-based) standard
  - Exposure to elevated levels of PM are linked with adverse health effects to your heart and lungs

*eRoadMAP layer will not be updated unless original source releases a new study

eRoadMAP™ Transportation Access Layer

- **Data provider:** US Department of Transportation
- **Metadata URL:** link
  - Verified on September 5th, 2024
- **Data download URL:** link
  - Last downloaded on September 5th, 2024
- **Source update frequency:** Static data from 2022*.
- **Data Granularity:** Available by Census Tract
  - Highlighted Census tracts are within the lowest 10th percentile of transportation access in the United States
  - The transportation access measure is a composite indicator that the USDOT compiles from multiple other sources

*eRoadMAP layer will not be updated unless original source releases a new study

Demographic Census Tracts Layer

- **Data provider:** US Department of Transportation
- **Metadata URL:** link
  - Verified on September 5th, 2024
- **Data download URL:** link
  - Last downloaded on September 5th, 2024
- **Source update frequency:** Static data from 2022*.
- **Data Granularity:** Available by Census Tract

*eRoadMAP layer will not be updated unless original source releases a new study

Fueling Layers

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EV Charging Stations Layer

- **Data provider:** US Department of Energy
- **Metadata URL:** https://afdc.energy.gov/stations/#/find/nearest
- **Data download URL:** https://services9.arcgis.com/RHVPKKiFTONKtxq3/ArcGIS/rest/services/Alternate_Fuel/FeatureServer/0
- **Source update frequency:** Daily
- **eRoadMAP update frequency:** Daily automated updates from the source
- **Data Granularity:** Number of chargers at the site level (address)
  - DC Fast Port and Level 2 Ports chargers are identified as well as the connector type(s)
  - Applied the following filters: public, in the US, has at least one Level 2 or DC fast charging port

Truck Stops Layer

- **Data provider:** US Department of Transportation
- **Data download URL:** https://ops.fhwa.dot.gov/Freight/infrastructure/truck_parking/jasons_law/jlaw_data_shapefile_2019.zip
- **Source update frequency:** Static data from 2019*
- **eRoadMAP update frequency:** Will not be updated unless original source releases a new study
- **Data Granularity:** Existing truck stop sites are listed by name and direction
  - Number of parking sports at each site are listed
  - Road is identified

*eRoadMAP layer will not be updated unless original source releases new data

Utility Service Territory Outlines

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Utility Service Territory Outlines

- Outlines represent the region of a utility's service area
- The utility service territories are created and maintained by Hitachi Energy, the Velocity Suite. Please reach out to CustomerCare.ES@HitachiEnergy.com for any questions.

If you are a utility who would like to replace the outline provided here with your own, please reach out to eRoadMAP@epri.com.

Load Capacity Layer

Data aggregated from multiple utility sources. More detailed information is included in the following slides.

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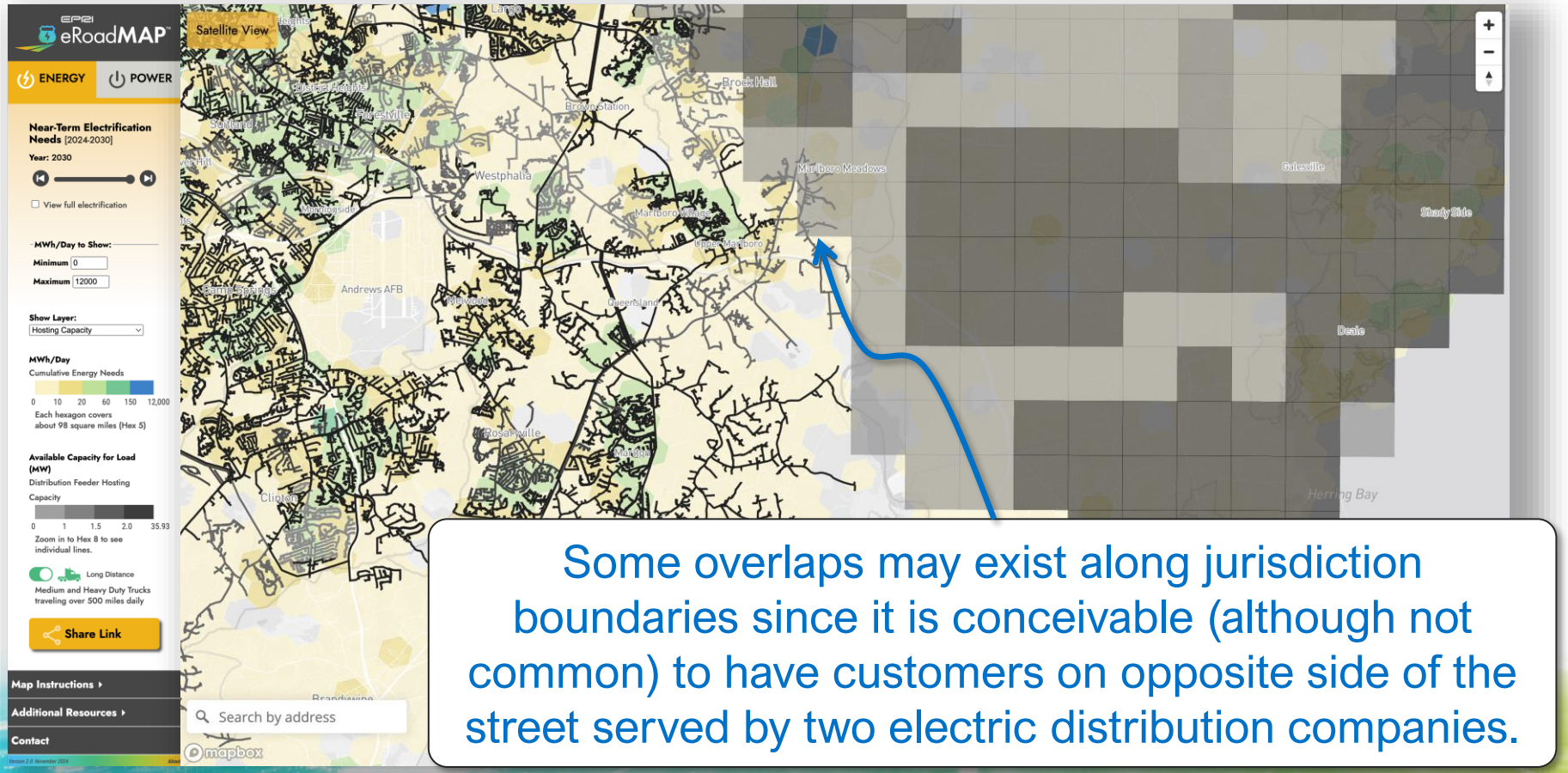
Disclaimer

Note that the load capacity data uses a **standardized legend** across all service territories, which may result in slight visual differences compared to the original data sources.



eRoadMAP™ | Ameren Illinois Company

- **Data provider:** Ameren (IL)
- **Metadata URL:** Ameren IL Distribution Load Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Yearly
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Grid capacity heatmap (multi-layered)

Note from the utility website:
The Ameren Illinois Company (AIC) hosting capacity map display is a high-level visualization of the available hosting capacity for interconnecting DER to an AIC electrical distribution system less than 15kV. Hosting capacity is defined as the approximate amount of generation or load that can be accommodated at a given point in time on the distribution system without impacting reliability, requiring specialized inverter settings, or without requiring system modifications. The capacity values are meant to provide the user with a general idea of capacity at a location, however it is not guaranteed and/or may change at any time. All applications for interconnection will still require a full engineering review subject to IL admin code guidelines and may require additional system modification that could increase interconnection costs.

Ameren Illinois' general terms and conditions which govern use of its website and programs generally ("General terms and contions") available at:
https://www.ameren.com/privacy/terms-and-condition

eRoadMAP™ | Avangrid

- **Data provider:** New York State Electric and Gas and Rochester Gas and Electric
- **Metadata URL**: NYSEG/RGE Hosting Capacity Portal (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Unknown
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note from the utility website**: The analysis results presented in these displays provide the remaining available load capacity for the distribution circuits evaluated. The maps are an estimate of the remaining circuit load capacity to help guide both electric vehicle charging developers and Electric Clean Heat providers to areas where load capacity headroom exists. The analysis was conducted under current configurations prior to any planned infrastructure upgrades, such as reconductoring.*

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

eRoadMAP™ | Avangrid

- **Data provider:** United Illuminating
- **Metadata URL:** UI EV Hosting Capacity
  - Verified on August 29th, 2025
- **Source update frequency:** Every six months
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note: *The results presented in this hosting capacity map provide the available load capacity for the distribution circuits evaluated. The results included herein are an estimate of the remaining circuit section, feeder, and substation hosting capacity to help identify areas where Level 2 and Direct Current Fast Charging (DCFC) stations can likely interconnect with minimal needs for system reinforcement.*

Please note that this analysis was conducted under current configuration using most recent summer peak load data and prior to any planned infrastructure upgrades. The map may not account for all factors that could impact interconnection costs. The hosting capacity map is updated from time to time but may not reflect actual present conditions in a given area. The map is being provided for informational purposes only and is not intended to be a substitute for the established customer interconnection application process.

eRoadMAP™ | Avangrid

- **Data provider:** Central Maine Power
- **Metadata URL:** CMP Load Hosting Capacity Map
  - Verified on August 29th, 2025
- **Source update frequency:** Twice a year
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note: *The results presented in this hosting capacity map provide the estimated remaining load capacity on the distribution circuits and substation transformers at the time of the maps publication.*

The map is being provided for informational purposes only and is not intended to be a substitute for the established customer interconnection evaluation process. The map does not account for all factors that could impact interconnection costs. The map does not factor any transmission elements into this analysis. This map provides the available load capacity remaining at a location on the distribution system before a thermal overload is created on major distribution system equipment. The map cannot be relied upon as a replacement for the process for making final business, investment, or other decisions.

In summary, the results included herein are only an estimate of the remaining load hosting capacity to help identify areas where load may be able to connect with minimal needs for distribution system upgrades. Note that this analysis was conducted using the best assumption at the time of this map's publishing to account for known long-term future configuration changes to the distribution network. The configuration, equipment, and remaining hosting capacity levels included in this analysis are subject to change, which may alter the values presented in this map.

Central Hudson Gas & Electric

- **Data provider:** Central Hudson Gas & Electric
- **Metadata URL:** Energy Storage Hosting Capacity App (cenhud.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Annually in January of each year
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note**: Central Hudson created this map as a result of an Order from our Public Service Commission. The current Electrification Hosting Capacity Map was published in January 2023 and replaced the prior EV Hosting Capacity Map. The stakeholders for the Electrification HC Map include building electrification and EV developers in our service territory.*

Con Edison (NY and NJ)

- **Data provider:** Con Edison
- **Metadata URL:** Con Edison Hosting Capacity Web Application (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Twice a year, based on the previous winter and summer peaks
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note from the utility website**: 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 interconnection costs. The maps account for the most limited rating at the feeder head and do not account for any smaller 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 a substitute for the established customer application process.*

eRoadMAP™ | Eversource

- **Data provider:** Eversource Connecticut
- **Metadata URL:** EV Hosting Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Unknown
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note: *"Hosting Capacity" refers to an estimated maximum amount of power 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 EVSE projects 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 Applications to interconnect are available from our website at: www.eversource.com.

Each circuit on our system is displayed with a color matching its remaining capacity. Clicking on a circuit will also bring up an information box providing more detail about the circuit, its remaining capacity and related substation. Note that circuits colored in gray have limited capacity or the information on the circuit capacity is not available. This does not mean that EVSE cannot be located on those circuits – please request a verification of projects to be considered on those circuits.

eRoadMAP™ | Exelon

- **Data provider:** Atlantic City Electric Company, Delmarva Power and Light, and Potomac Electric Power Company (Pepco Holdings Inc.)
- **Metadata URL:** PHI Load Serving Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Annually
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note: *The technological, legal, and regulatory considerations that apply to interconnection of solar generation and other distributed energy resources are complex and constantly evolving. The map(s) linked above are for illustrative purposes only. Although Atlantic City Electric, Delmarva Power & Light Company, Potomac Electric Power Company, and their affiliates make good faith efforts to keep online maps current, they cannot guarantee the timeliness or accuracy of the information. Developers/customers must still apply for, and be granted, approval to install prior to beginning construction/installation of a proposed interconnection project. Moreover, a location showing available capacity does not guarantee approval. Furthermore, additional operating requirements or distribution system upgrades could be required, which would be at the developer's and/or customer's expense. You are encouraged to seek appropriate technical, operational, financial, and legal advice before proceeding.*

eRoadMAP™ | Exelon

- **Data provider:** Baltimore Gas & Electric
- **Metadata URL**: BGE EV Load Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Quarterly
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Grid capacity heatmap (multi-layered)

***Note from the utility website**:*
Thank you for visiting BGE's ELectric Vehicle (EV) load capacity map. This interactive map was developed to provide you with insights to assess the available load capacity in a given general location for installing EV chargers (at 13kV and below). The map reflects grid conditions at the cicuit level and offers an estimate of the EV charging thresdholds that may be readily accommodated, potentially without requiring BGE to make subsequent grid enhancements. The map is intended solely for commercial customer use and does not provide information for residential customers. BGE will update the map quarterly, the last refresh date is displayed on the map.

Terms of Use:
By viewing the map below, you agree and acknowledge that:
- *The information in this tool is for guidance purposes only and its accuracy is not guaranteed.*
- *You shall not reproduce, use in any other medium, distribute, or otherwise utilize the tool or its information for any purpose other than the identification of potential sites for EV charger load.*
- *The analysis reflects the estimated available load capacity; however, this capacity is not guaranteed and may change at any moment and iwthout notice. All load connection requests require a full engineering review and may necessitate additional system modifications or capacity additions that could affect the timing of connecting EV chargers.*
- *You will not rely solely upon the map to ascertain an appropriate location to install a commercial charging station.*
- *The only way to know whether, and the extent to, which a given location will accommodate a commercial EV charging station is by submitting an application for the same to BGE.*

eRoadMAP™ | Exelon

- **Data provider:** PECO Energy Co
- **Metadata URL:** PECO Available Distribution Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Annually
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Grid capacity heatmap (multi-layered)

Note from the utility website: *Thank you for visiting PECO's load capacity map. This interactive map was developed to provide you with insights to assess the available load capacity in each general location (at 34kV and below). The map reflects grid conditions at the circuit level and offers an estimate of the capacity thresholds that may be readily accommodated, potentially without requiring PECO to make subsequent grid enhancements. The map is intended solely for commercial customer use and does not provide information for residential customers. PECO will update the map annually and the last refresh date is displayed on the map.*

Terms of Use

By viewing the map below, you agree and acknowledge that:

1. *The information in this tool is for guidance purposes only and its accuracy is not guaranteed.*
2. *You shall not reproduce, use in any other medium, distribute, or otherwise utilize the tool or its information for any purpose other than the identification of potential sites for additional load.*
3. *The analysis reflects the estimated available load capacity; however, this capacity is not guaranteed and may change at any moment and without notice. All load connection requests require a full engineering review and may necessitate additional system modifications or capacity additions that could affect the timing of interconnections.*
4. *You will not rely solely upon the map to ascertain an appropriate location to install any additional commercial load.*
5. *The only way to know whether and the extend to which a given location will accommodate additional load is to submit an application for the same to PECO.*

eRoadMAP™ Los Angeles Department of Water and Power

- **Data provider:** Los Angeles Department of Water and Power
- **Metadata URL**: Los Angeles Department of Water and Power: Power Capacity (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Unknown
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note from the utility website: *While LADWP makes efforts to ensure the accuracy of the Capacity Maps, the data provided is for informational purposes only and is not intended to be an up-to-date detailed depiction of the current state of LADWP's electrical distribution network. LADWP does not guarantee the accuracy of the maps, the availability of the maps or that the maps will be error-free, and makes no warranties of any kind, either express or implied, including without limitation, warranties of title, or implied warranties of merchantability or fitness for a particular purpose, with regard to the maps. The Capacity Map values do not imply or guarantee that no distribution upgrades will be required or contemplated. LADWP shall not be liable for any loss or damage of any kind, including but not limited to special, indirect incidental, or consequential loss or damages, or any loss or damage whatsoever arising from or in connection with the use of the Capacity Maps or the information contained on, in or upon the Capacity Maps. The Capacity Maps are provided 'AS IS' without any warranty as to performance, availability, accuracy or freedom from error or as to any consequences generated by or through their use. Users of the Capacity Maps are solely responsible for verifying any information contained therein and should not rely solely on the information provided therein. Users are solely responsible for all costs associated with such verification. LADWP makes no guarantee expressed or implied for the outcome of a request for electric service from LADWP or interconnection with LADWP's electric system Information contained on Capacity Maps is subject to change without notice and LADWP makes no commitment to update Capacity Maps of the information contained therein. LADWP reserves the right to modify, suspend, or discontinue the provisioning of Capacity Maps any time without notice.*

eRoadMAP™ National Grid (NY)

- **Data provider:** National Grid
- **Metadata URL:** National Grid New York System Data Portal
  - Verified on August 29th, 2025
- **Source update frequency:** Annually in April
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note from the utility website**: 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.*

eRoadMAP™ National Grid (MA)

- **Data provider:** National Grid
- **Metadata URL:** National Grid - Massachusetts System Data Portal
  - Verified on August 29th, 2025
- **Source update frequency:** Unknown
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note from the utility website**: 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.*

Orange & Rockland Electric Company (NY and NJ)

- **Data provider:** Orange & Rockland Electric Company
- **Metadata URL:** O&R Hosting Capacity Web Application (arcgis.com)
  - Verified on August 29th, 2025
- **Source update frequency:** Twice a year, based on the previous winter and summer peaks
- **eRoadMAP update frequency:** Monthly Automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

***Note from the utility website**: The Hosting Capacity data that is being provided is for information purposes only and is not intended to be a substitute for the established interconnection process. The analyses presented in these displays provide the feeder level hosting capacity for the distribution circuits evaluated. Hosting Capacity is an estimate of the amount of DER that may be accommodated without adversely impacting power quality or reliability under current configurations and without requiring infrastructure upgrades. Please note that this analysis was conducted under current configurations, without installed DER, and prior to infrastructure upgrades such as; installing a recloser or remote terminal unit at the Point of Common Coupling, replacing a voltage regulating device or controller to allow for reverse flow, substation-related upgrades including 3V0 protection, or other protection-related upgrades.*

eRoadMAP™ | Pacific Gas & Electric

- **Data provider:** Pacific Gas & Electric
- **Metadata URL:** PGE Grid Resource Integration Portal
  - Verified on August 29th, 2025
- **Source update frequency:** Monthly
- **eRoadMAP update frequency:** Weekly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note from the utility website: Pacific Gas and Electric Company (PG&E) has a strong interest in enabling technologies, models, policies, and ways of thinking that advance public safety, system reliability, energy affordability, and clean energy adoption within its service territory. As such, PG&E is sharing a variety of information about via this via the Grid Resource Integration Portal. The data on the Portal is intended for planning for the electric distribution system.

The data being released are PG&E's intellectual property. By using this information parties agrees to:

- Recognize this information and all derivatives as the property of PG&E;
- Not utilize this information beyond its intended use.

While the Grid Resource Integration Portal includes the best information currently available, PG&E makes no representation as to the accuracy or quality of the data provided, its fitness for the purpose intended, or its usability by the recipient; PG&E cannot be held liable for inaccuracies, or the impact of decisions made on this information. Inappropriate and potentially illegal uses of this data include, but are not limited to, uses that:

- Put the physical or cyber-security of the electricity grid or gas pipelines at risk;
- Violate customer privacy;
- Compromise sensitive market data; or
- Void company intellectual property, patents, or trade secrets.

PG&E is a custodian of private and sensitive information. PG&E makes every effort to protect the private information of our customers, and to protect our customer and communities from.(PG&E works closely with the Commission to find a balance between increasing vulnerability and providing usable and useful information to support prosperity for all Californians.) As such, some of the data on the data portal is redacted to protect customer privacy. Some data is excluded from the portal due to reduce the vulnerability of our customers and communities. PG&E will make every reasonable effort to maintain this data portal, however, in emergencies, PG&E might modify the data or functionality without warning.

Rhode Island Energy Hosting Capacity Layer

- **Data provider:** PPL Rhode Island Energy
- **Metadata URL:** Rhode Island System Data Portal
  - Verified on August 29th, 2025
- **Source update frequency:** Unknown
- **eRoadMAP update frequency:** Monthly automated updates
- **Data Granularity:** Line capacity linked to the relevant feeder

Note from the utility website: The Distribution Assets Overview Map is an interactive map that displays the PPL electric distribution network in Rhode Island. This map provides information intended to help third-party solution providers and DER developers identify locations on the PPL electric distribution network. Please see the "Refresh Date" in the respective feeder selection window for when each feeder's data was last updated.

The Load Map is an interactive map that displays relevant electric load information for the PPL electric distribution network in Rhode Island. The Rhode Island electric distribution circuits shown on this interactive Load Map are color-coded based on their most recent annually forecasted percent loading, with the specific year identified in the map legend (e.g., 2019 Load/Feeder Rating). This information is intended to help Distributed Energy Resource (DER) developers identify distribution circuits that are loaded to 80% or more of their Summer Normal (SN) feeder rating. This interactive map is also intended to identify where additional capacity exists and can accommodate beneficial electrification of high efficiency heat pumps and electric vehicles (EVs), and to help EV infrastructure developers identify locations on the PPL electric distribution network. Please see the "Refresh Date" in the respective feeder selection window for when each feeder's data was last updated.

eRoadMAP™ Southern California Edison

- **Data provider:** Southern California Edison
- **Metadata URL:** SCE DRPEP website
  - Verified on August 29th, 2025
- **Source update frequency:** Daily
- **eRoadMAP update frequency:** Daily automated updates
- **Data Granularity:** Line capacity linked to the relevant circuit

***Note from the utility website**: While Southern California Edison makes every effort to ensure the accuracy of DRPEP, the data provided is for informational purposes only. Southern California Edison makes no guarantee, expressed or implied, for the outcome of an interconnection request.*