

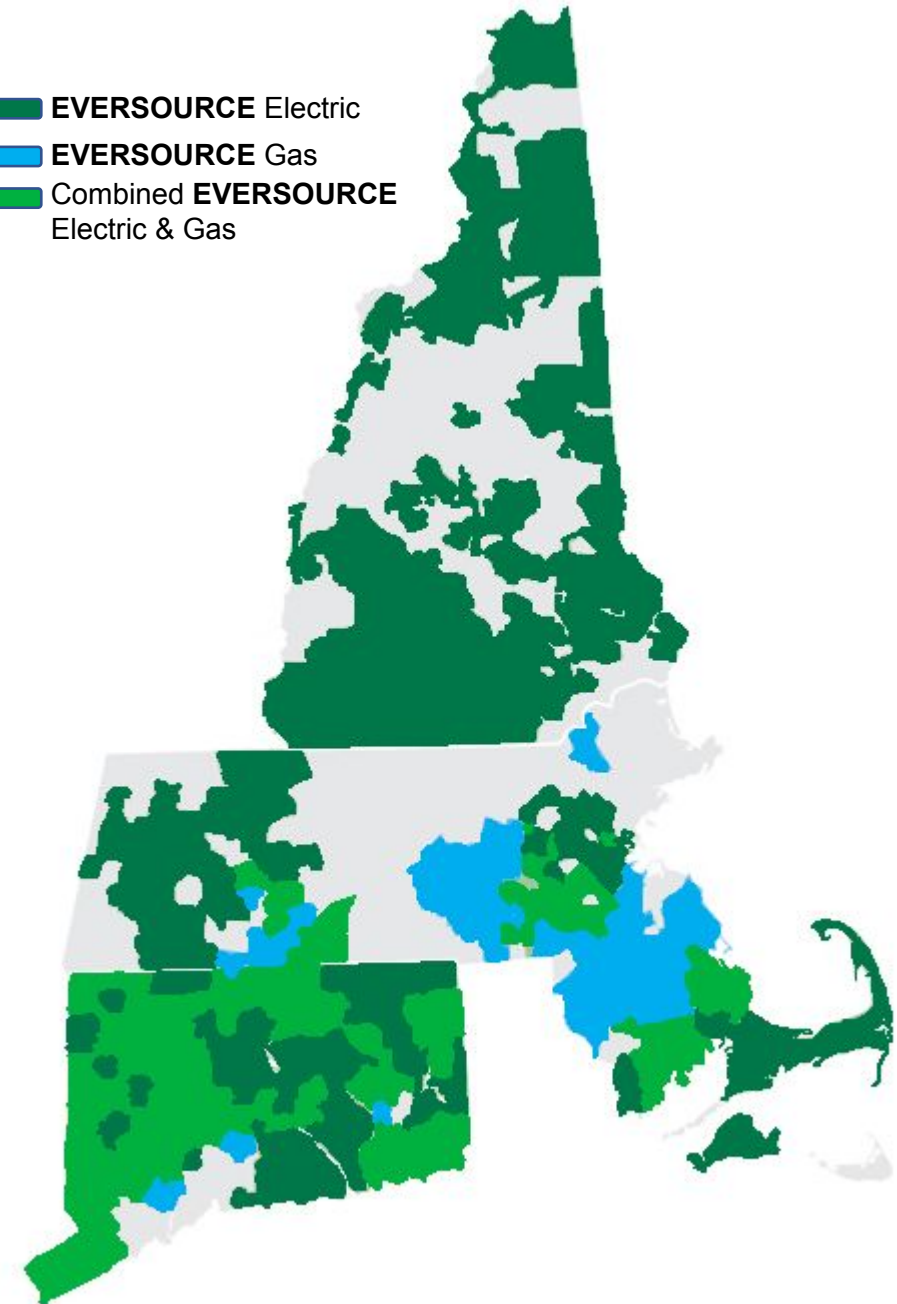
EVERSOURCE

Eversource is New England's largest energy provider, proudly serving more than **3.6 million electric and natural gas customers** in CT, MA and NH.

For the second year in a row, **Eversource** has been recognized by **Newsweek Magazine** as one of America's most responsible companies—this year **ranking 1st in the energy & utilities category**.

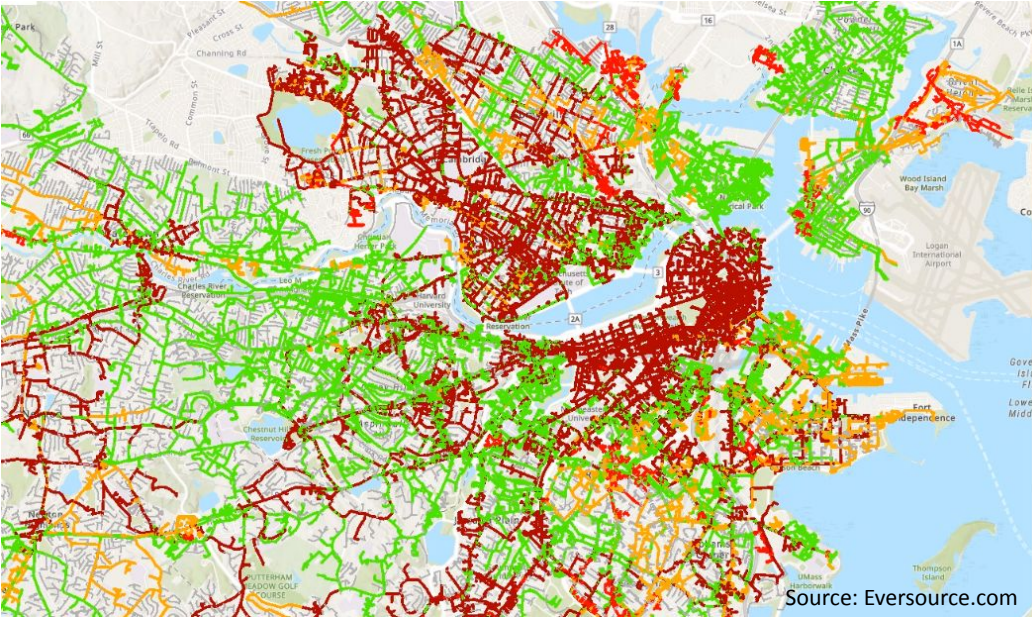
Eversource is leading the way, serving as a catalyst for clean energy, finding new and innovative ways to power New England

-  **EVERSOURCE Electric**
-  **EVERSOURCE Gas**
-  **Combined EVERSOURCE Electric & Gas**



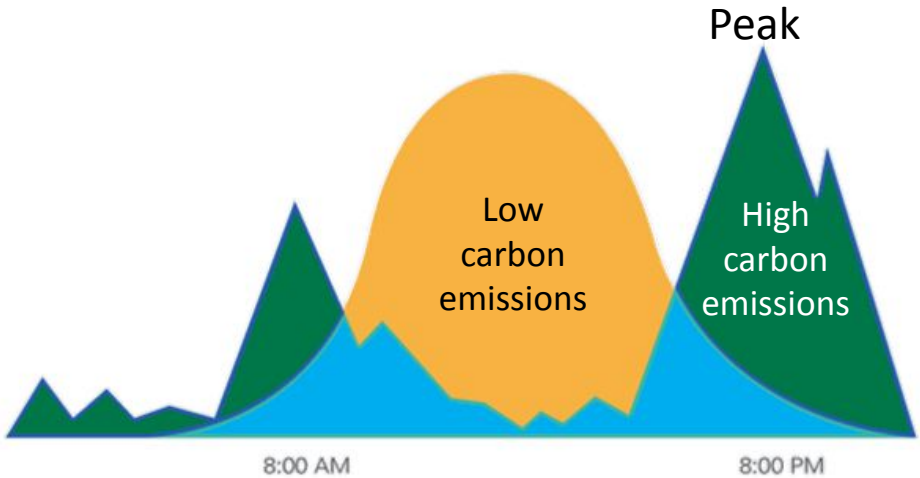
Root Problem

LOCATION



Grid needs vary based on location. Load and generation impacts are dependent on regional characteristics.

TIME

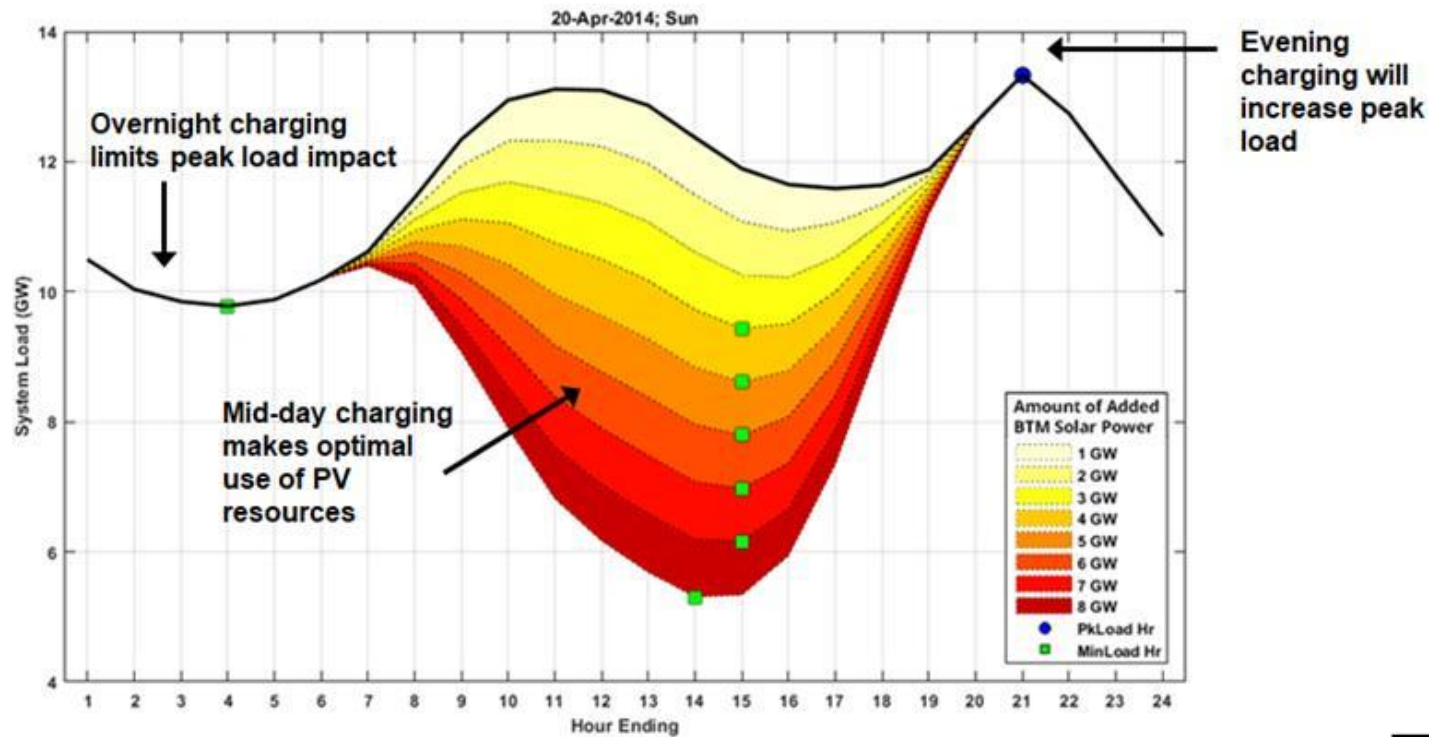


Peak solar production does not match peak system energy usage.

Impacts Associated with this Obstacle

Changes in load (including beneficial electrification) can **magnify peak load-related emissions** or **support further deployment of clean solar generation**

Potential Impact of EV Charging on Peak Load



Source: ISO New England

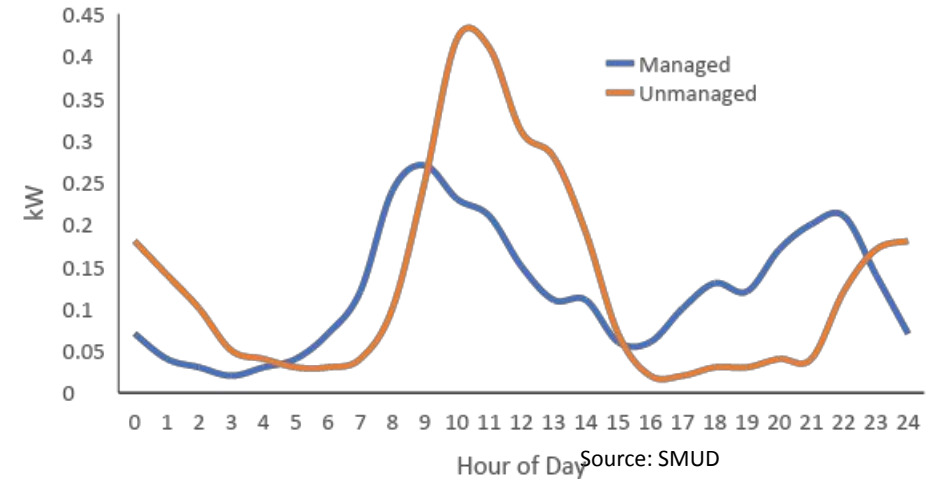
Key Obstacle To Overcome In Solving This Problem

Current lack of detailed customer level insights needed to enable peak load reductions based on time and location

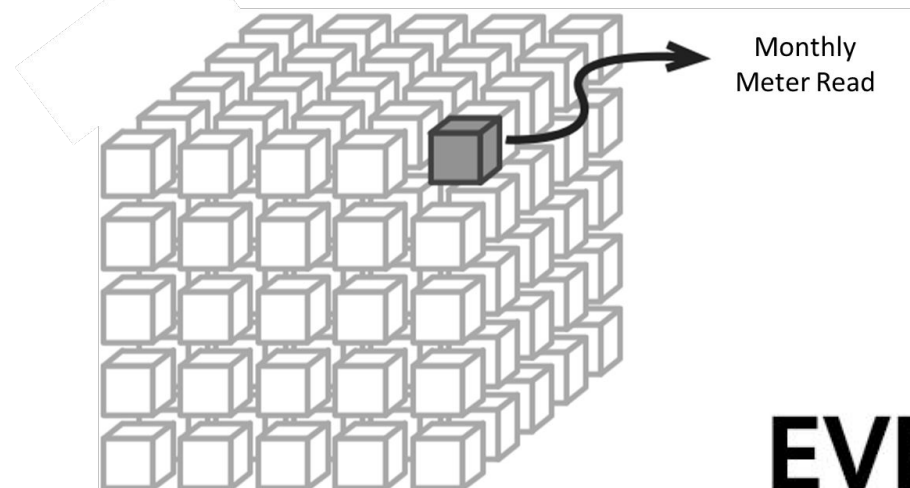
Collaboration Potential

Eversource is in the planning phase for Advanced Metering Infrastructure (AMI) and associated data analytics that could provide an opportunity to collaborate with customers and other 3rd parties to flatten the load shape in Hyde Park

Heat Pump Load – Active Management



AMI vs Monthly Meter Data Collection



Final Statement

Regarding Grid Modernization, to achieve Boston's Carbon & Equity goals, a critical obstacle for Eversource to overcome is local peak load management

