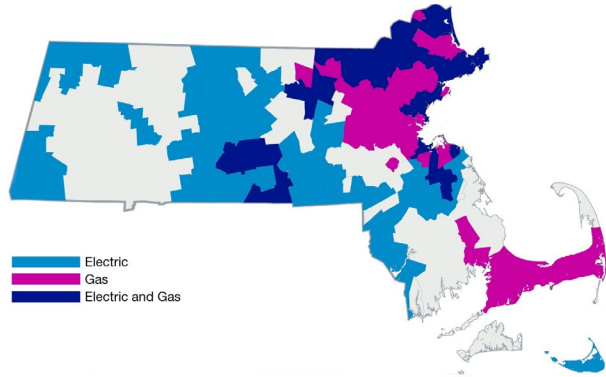


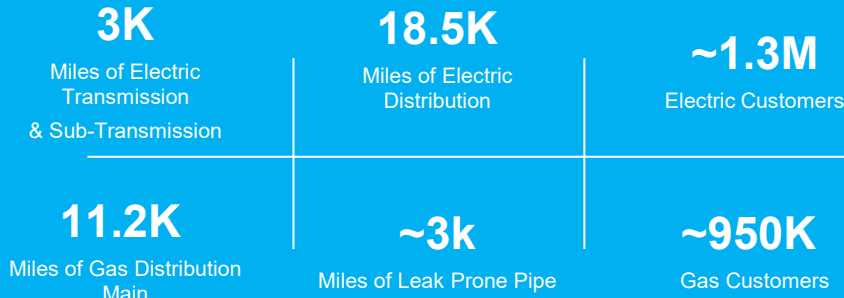
An Overview of National Grid's Future Grid Plan



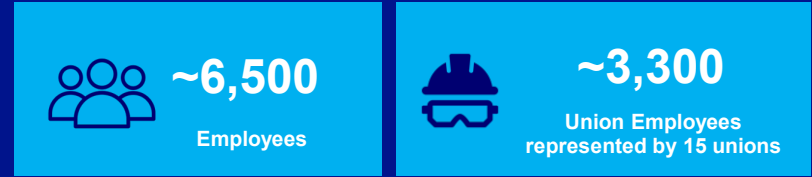
National Grid is taking action to achieve net zero greenhouse gas emissions and deliver the fair, affordable and clean energy future to **2.3 million customers** in more than **240 towns and cities**



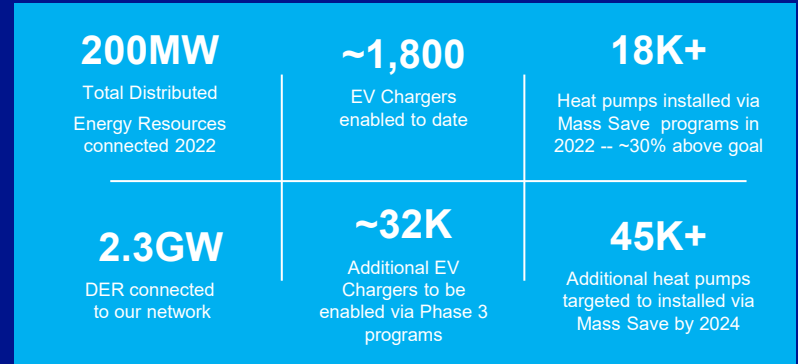
... via our networks...



... by our teams....



... making connections...



... and supporting our communities.



Advancing Smart Electrification:

Meeting Doubled Peak Demand, Seasonal Shifts

Our State's
Goals by 2050



23 GW
of solar



20 GW
of offshore wind



6 GW
of energy storage



5M
electric
vehicles



3M
decarbonized
buildings

National Grid's
Portion of the goals



10 GW
of solar



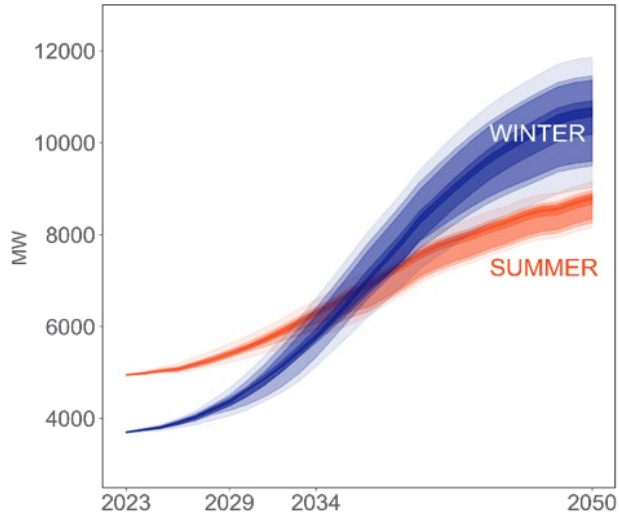
2.5 GW
of energy storage



2.7M
electric
vehicles

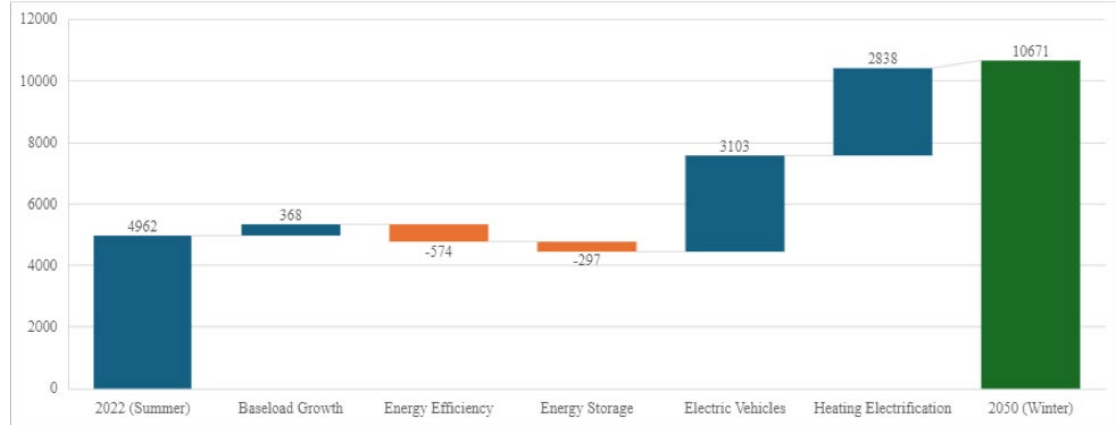


1.1M
decarbonized
buildings



National Grid

Annual peak load growth through 2050 by components



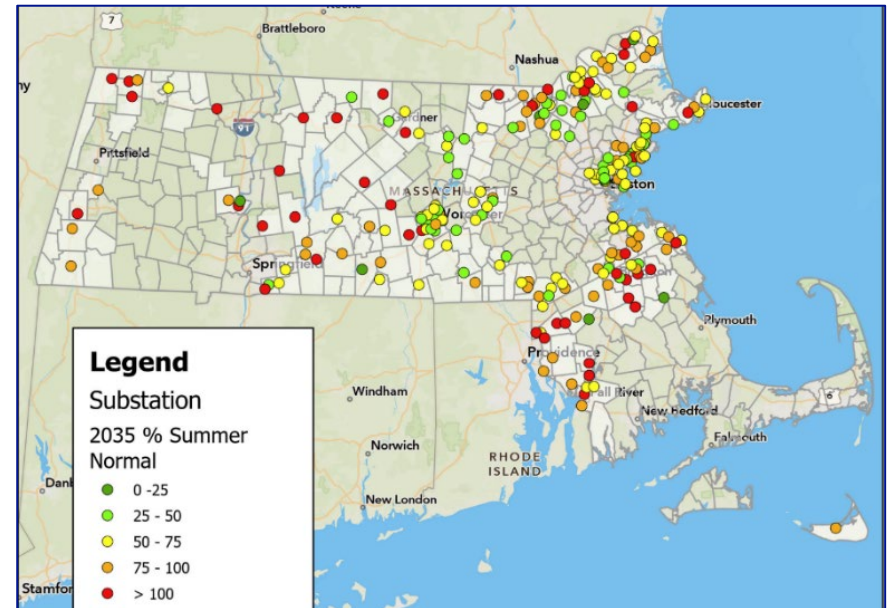
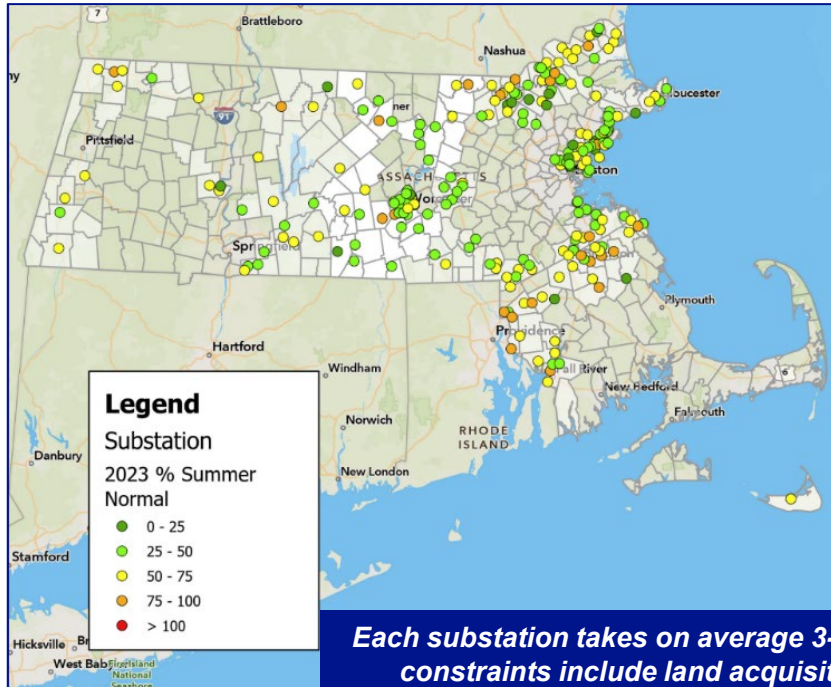
By 2035, without ESMP*, forecasted demand exceeds system capacity

Substation load as a percentage of capacity across our system, assuming no capacity expansion

2023

VS.

2035

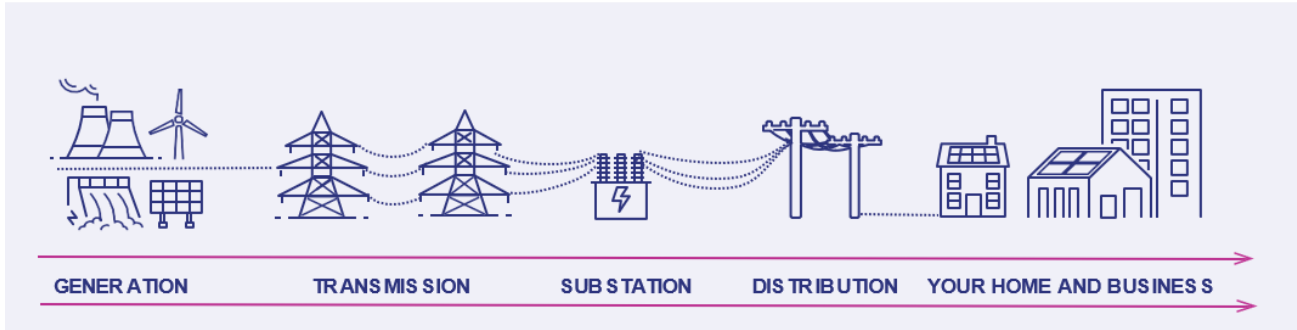


Each substation takes on average 3-10 years for construction based on project size and complexity; project constraints include land acquisition, siting & permitting, supply chain & resources, and construction

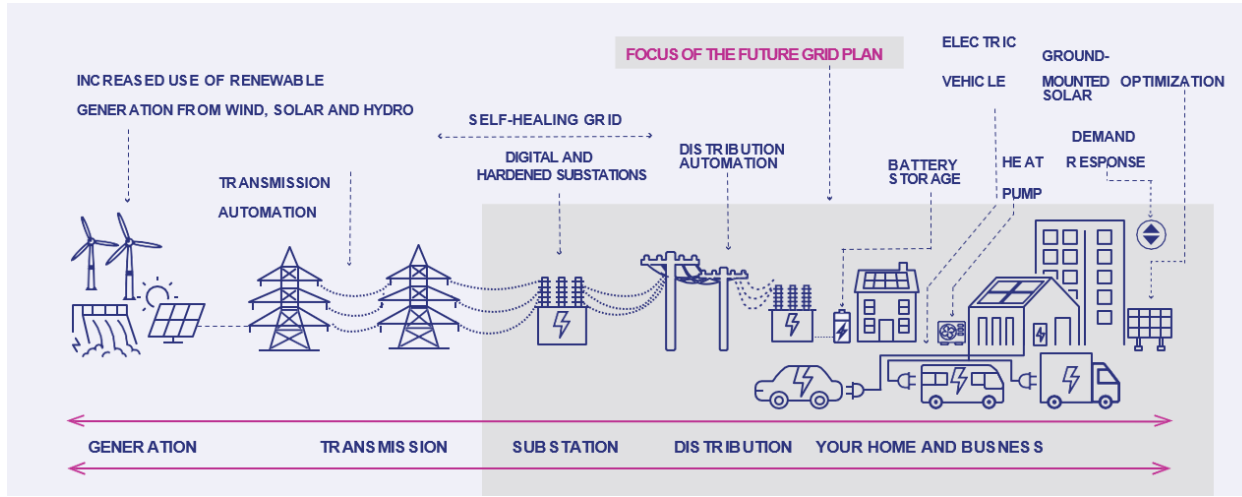
National Grid

* 2035 summer normal reflects zero investment on the system at all, including core investments

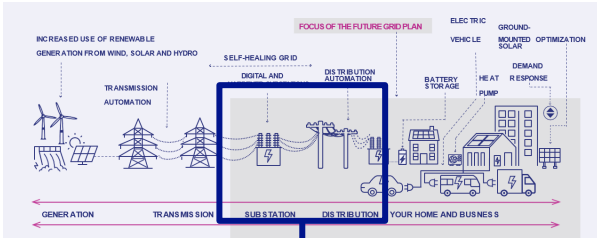
Yesterday's Grid...



The Future Grid: Stronger, Smarter, Cleaner

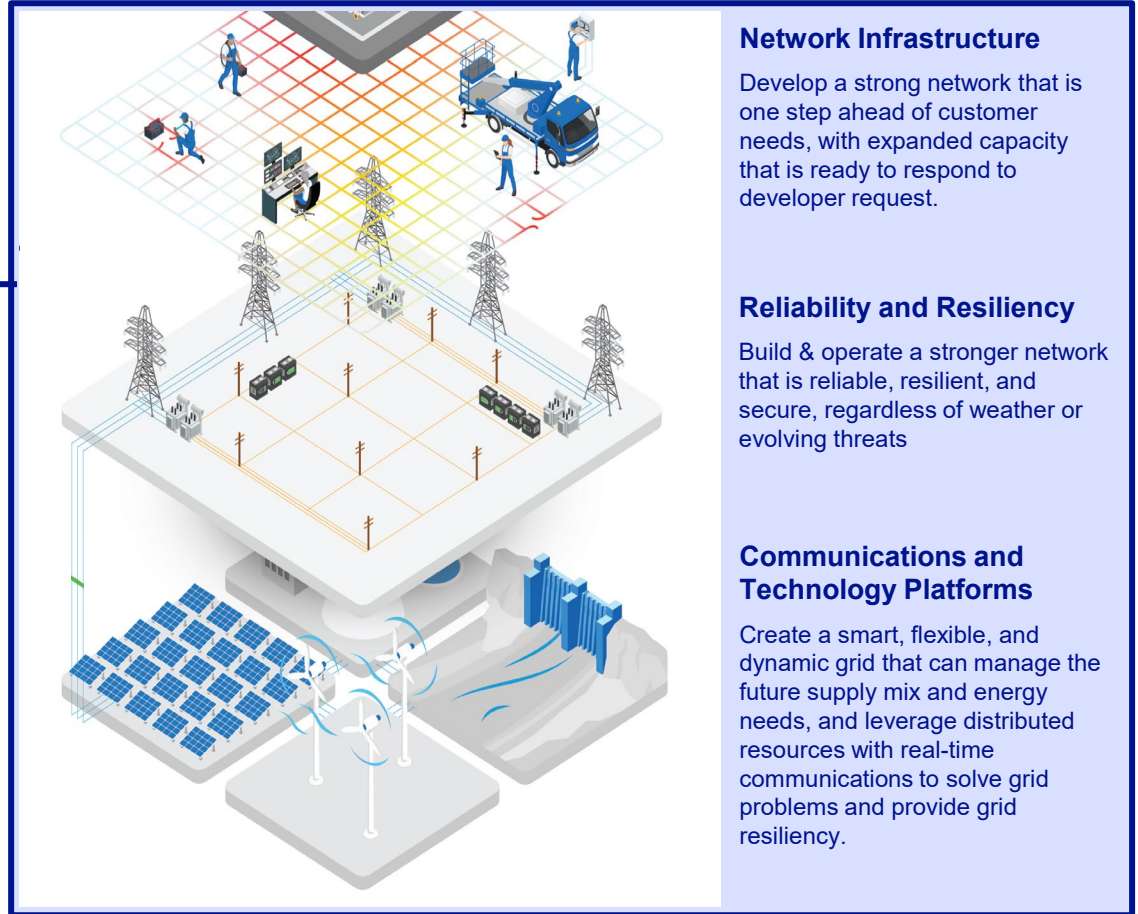


The Future Grid: Stronger

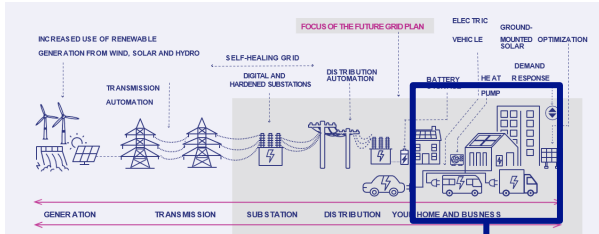


The Future Grid Plan redesigns and upgrades the necessary utility systems that deliver energy. These investments will transform the grid to a stronger network that is built to today's standards for reliability, resiliency, and security (security enhancements), regardless of weather or evolving threats.

National Grid



The Future Grid: Smarter



Inside your home and local business, the Future Grid Plan will help bring more customer choice and flexibility to your life. It will make sure all the different components of the home work together to improve efficiency and allow customers to take control of their energy bills.

National Grid



Participating in the Clean Energy Transition

Empower customers to participate in the clean energy transition by making it easier to adopt electric vehicles and heating, and to connect solar and storage. Customer portals and hosting capacity maps will increase the speed and transparency of interconnection.

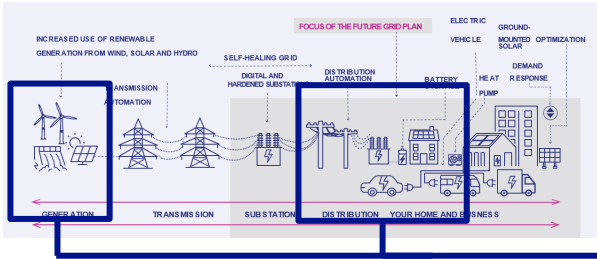
Saving Money & Optimizing Home Energy Use

Enable customers to take more ownership of their bill via adopting technologies like solar to reduce their energy usage and earning value through incentives and participation in VPPs.

Comfort & Convenience

Allow customers to remotely manage their homes based on their needs first (e.g., to a pre-set temperature) while optimizing excess energy and flexibility based on grid needs

The Future Grid: Cleaner



In your local towns and communities, the Future Grid Plan works to preserve reliability and resiliency, but also enhance customer choice and flexibility for clean energy technologies. New innovative solutions will remove barriers to DER adoption and allow for a connection ready grid that also supports the Commonwealth's and Company's equity goals.

National Grid



Connecting our Customers to Renewables

Enable and connect our customers to the increased renewable generation on the grid, including wind, solar, hydro, geothermal, and storage.

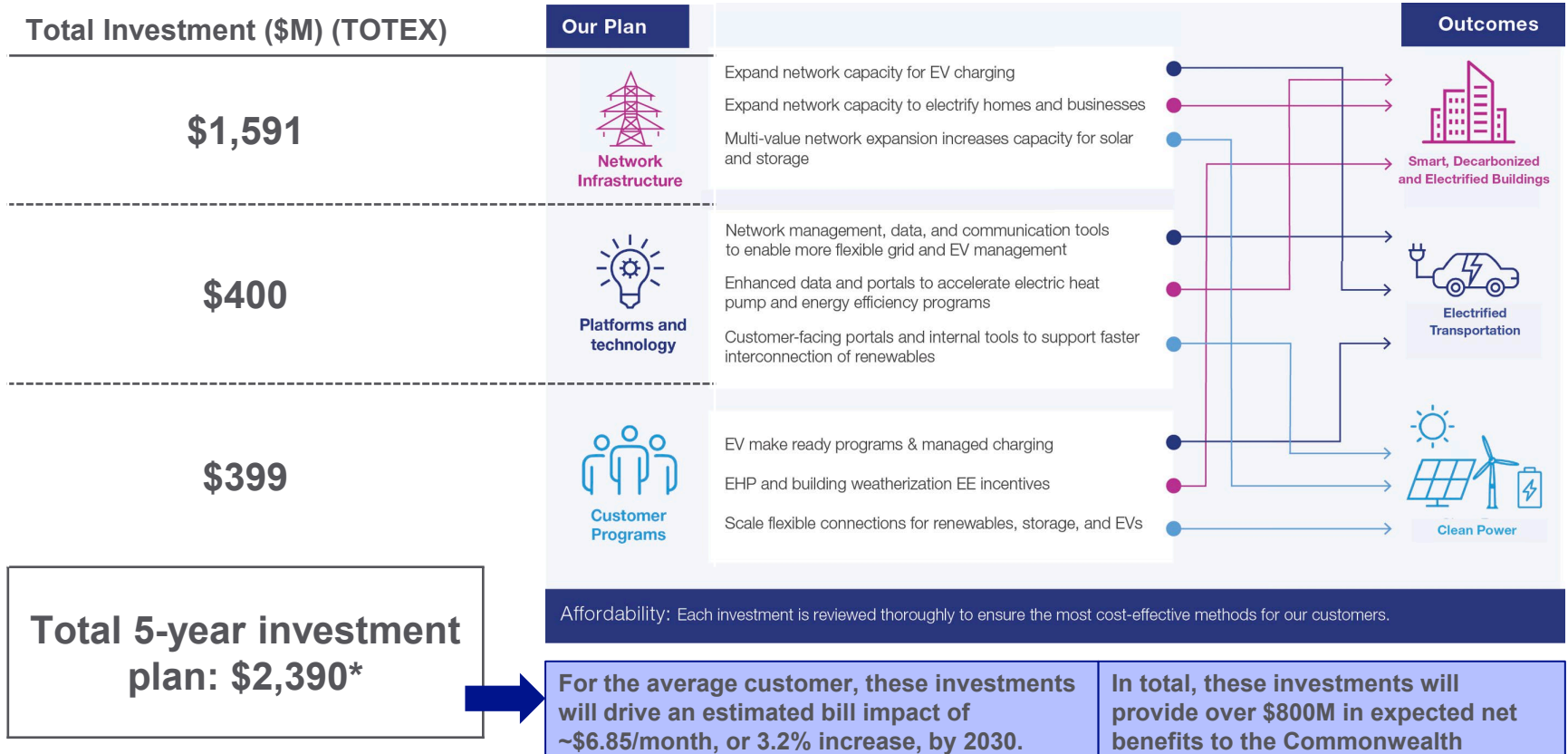
Non-Wire Alternatives

Leverage virtual power plants as non-wire alternatives to connect new customers faster and to defer network infrastructure investments where cost-effective and feasible

Customer Programs

Provide customers with information, products, and services to enable clean energy, efficiency, and demand management options so they can make the energy choices that work for them, when they want them.

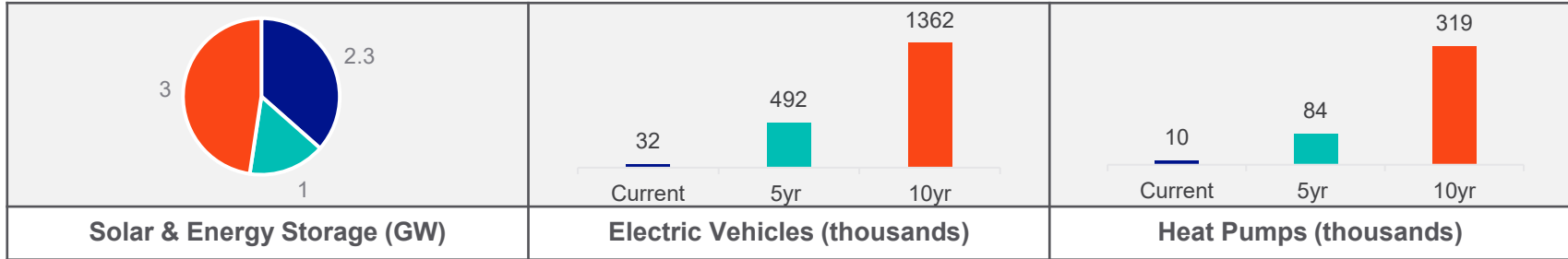
Proposed Investments, Actions and Outcomes



What the ESMP Delivers

For our customers, communities and the Commonwealth, incremental to pending investments

	Current Systems	5-year plan (2025 – 2029)	10-year plan (2025 – 2034)
Our Network	264 substations 1,318 distribution feeders	13 upgraded substations Expansion of 14 feeders	45 new/upgraded substations Expansion of 27 feeders



	Current Systems	5-year plan (2025 – 2029)	10-year plan (2025 – 2034)
NWAs & Enabling Tech	One battery project on Nantucket to avoid an undersea cable	Advances 17 Bridge-to-Wires NWAs & 2 deferral NWAs including equity-focused VPP offerings	Expanded NWAs to defer investments, at scale
Economic Activity & Jobs Created		More than 3,900 full- and part-time jobs, and \$500 million of incremental economic activity	More than 8,700 full- and part-time jobs and \$1.1 billion of incremental economic output

Stakeholder Engagement Overview

Through the ESMP process, National Grid has engaged with more than 400 individual stakeholders, representing more than 250 unique organizations, agencies, governmental entities, businesses and groups on various issues related to and aspects of the ESMP, including its purpose, development, implementation, deliverability, and impact. Outreach includes webinars, workshops, technical feedback sessions, and dedicated informational events.

80+ Municipalities

Including communities within each of National Grid's six service sub-regions and dozens of Environmental Justice Communities.

20+ Community & Nonprofit Organizations

Including a variety of environmental justice, environmental and consumer groups with diverse representation.

3 Technical Workshops

Including more than 35 invitees from various stakeholder groups, including community organizations, environmental advocacy and environmental justice organizations, state agencies and members of the business community. One workshop specific to DER providers and developers.

7+ State Agencies

Including agencies under four different Secretariats, in addition to the Office of the Attorney General.

10+ Business Organizations

Ranging from Chambers of Commerce within different areas of the state to business associations from specific industries, such as hospitals and restaurants.



400+

Individual Stakeholders



250+

Unique Organizations

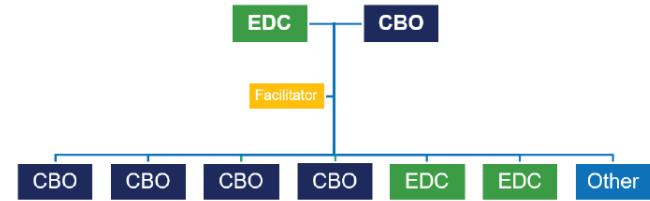
4+

Labor Organizations

Including representatives from the Utility Workers Union, United Steelworkers Union and IBEW

Increasing Stakeholder Engagement as we Deliver the Plan

National Grid and the other EDCs are proposing the development of a Community Engagement Stakeholder Advisory Group (CESAG). The primary objective of this group is to develop a community engagement framework, centered in equity, that can be applied to major infrastructure projects. The CESAG will be co-chaired by a community-based organization (CBO), **giving more of a voice to those who historically have not been directly involved in the utility planning process.**



The Company developed a formal Equity and Environmental Justice Policy and Engagement Framework which complements the National Grid Indigenous Peoples Initiative.

- Articulate the Company's commitments to centering equity and environmental justice in its Future Grid Plan
- Build on the Company's existing formalized outreach and engagement practices
- Incorporate input received from EJ stakeholders and recommendations from recent studies published by EEA and the Attorney General's Office (AGO)

National Grid New England Indigenous Peoples Statement

New England Power Company, Massachusetts Electric Company, New Hampshire Electric Company and Connecticut Company, all of the National Grid Company, are committed to recognizing and honoring the rich history, diversity, and values of Indigenous Peoples who are active and vital to our lives. We acknowledge the inherent sovereignty of Federally Recognized Tribes.¹

Our overarching goal is to reduce energy inequity, and identify beneficial opportunities for our communities for the development of the National Grid Company's infrastructure. We will work to ensure that the development of our infrastructure projects respects the rights and interests of all stakeholders, and that the plan (called the "No Unnecessary Projects" plan) does not result in any decisions that burden our communities and the environment for the purposes of this statement.

National Grid Company's commitment to supporting the tribal nations is a foundational part of our mission. We are committed to supporting the development of our infrastructure projects in a way that respects the rights and interests of all stakeholders, and that the plan (called the "No Unnecessary Projects" plan) does not result in any decisions that burden our communities and the environment for the purposes of this statement.

Equity and Environmental Justice Policy and Stakeholder Engagement Framework

National Grid is working to create and share by 2025 by advancing a clearer, stronger, clearer, and more equitable energy future to all communities and stakeholders across the country. The Company recognizes the critical need to ensure climate change and drive down climate pollution and to contribute to creating the most resilient energy system possible. The Company is committed to supporting the development of our infrastructure projects in a way that respects the rights and interests of all stakeholders, and that the plan (called the "No Unnecessary Projects" plan) does not result in any decisions that burden our communities and the environment for the purposes of this statement.

Equity and Environmental Justice

Equity and Environmental Justice means the fair and just treatment of all people, regardless of race, color, national origin, or income, with respect to the benefits, burdens, and risks of environmental and infrastructure projects. The Company is committed to supporting the development of our infrastructure projects in a way that respects the rights and interests of all stakeholders, and that the plan (called the "No Unnecessary Projects" plan) does not result in any decisions that burden our communities and the environment for the purposes of this statement.

Environmental Justice

Environmental Justice is defined by the United States Environmental Protection Agency as the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the benefits, burdens, and risks of environmental and infrastructure projects. The Company is committed to supporting the development of our infrastructure projects in a way that respects the rights and interests of all stakeholders, and that the plan (called the "No Unnecessary Projects" plan) does not result in any decisions that burden our communities and the environment for the purposes of this statement.

Footnote 1: https://www.nationalgrid.com/en/about-us/indigenous-peoples-statement

national**grid**