

Building the Future Grid and Empowering a Smarter, Stronger, Cleaner and More Equitable Energy Future

Every day at National Grid, our more than 6,500 team members work together to build a smarter, stronger, cleaner, and more equitable energy future for our customers and communities in more than 240 towns and cities across 5,900 square miles. We know what we do matters immensely, and how we do it matters even more. It's why we recently submitted a plan to modernize our electric system to support the Commonwealth's climate, clean energy and equity goals.



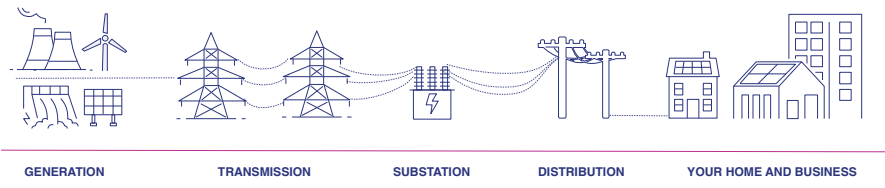
The Future Grid Plan Achieves Positive Outcomes for Customers, Communities and the Commonwealth

The investments proposed in the Future Grid Plan help us achieve four key goals:

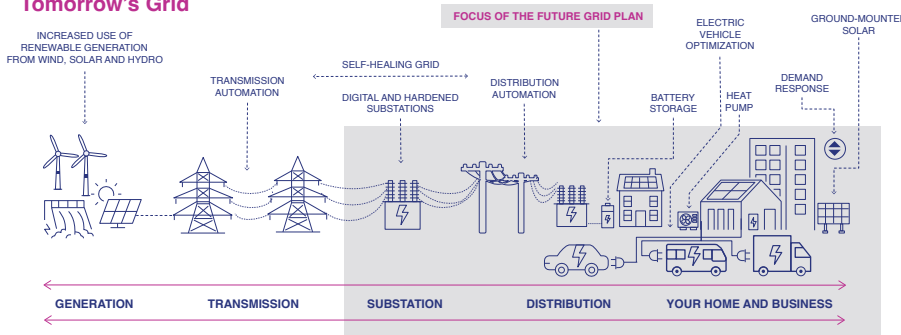
- 1 Driving down energy use through efficiency and demand response, helping to reduce costs and maintain customer affordability.
- 2 Achieving smart electrification of transportation, heating and other processes.
- 3 Integrating and optimizing renewable energy and storage at all levels.
- 4 Enabling a just transition and empowering customers.

Foundational to meeting these goals is modernizing the electric grid — the generation, transmission and distribution that delivers power where you need it, when you need it. We're transforming yesterday's one-way system, which was designed to carry electricity from large power generating stations long distances to homes and businesses, into tomorrow's cleaner, smarter, two-way superhighway with many on-ramps and off-ramps.

Yesterday's Grid



Tomorrow's Grid



About National Grid Massachusetts



18,500 miles of electric distribution lines



2 GW of distributed energy resources connected to our network



~1,800 EV chargers enabled to date, with ~32,000 more to be enabled via Phase 3 EV programs



18,000+ heat pumps installed via the Mass Save program in 2022 and 45,000+ more targeted to be installed by 2024



You don't have to wait for the Future Grid to access innovative energy and money-saving products, free home energy efficiency assessments and affordability programs designed to fit your needs now. Learn more by visiting ngrid.com/heretohelp or calling 1-800-322-3223 for electric customer service or 1-800-233-5325 for gas customer service.

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By 2035, our Future Grid Plan will deliver benefits including...



1.1 million
electric vehicles



750,000
electric heat pumps



\$1.4 billion
in economic activity



11,000
full- and part-time jobs

How Power Gets to You Safely and Reliably and What Is Changing

To serve customers, we deliver nearly 4.7 gigawatt hours of electricity at peak via an electric network consisting of more than 2,500 miles of electric transmission lines that carry electricity long distances at high voltage levels to nearly 150 transmission substations that step power down to a lower voltage. This electricity is then carried across 18,500 miles of smaller distribution lines, supported by hundreds of thousands of poles and approximately 178 strategically located distribution substations. Power is then stepped down again at thousands of smaller transformers to deliver power safely and reliably to homes and businesses.

This extensive electric network will need to evolve and **nearly double in size and capacity** over the next 20 years due to the electrification of transportation and heating, increasing cooling needs and the connection of more distributed energy resources. This includes adding more system intelligence, building new substations and expanding others and increasing the amount of electricity our wires can carry.

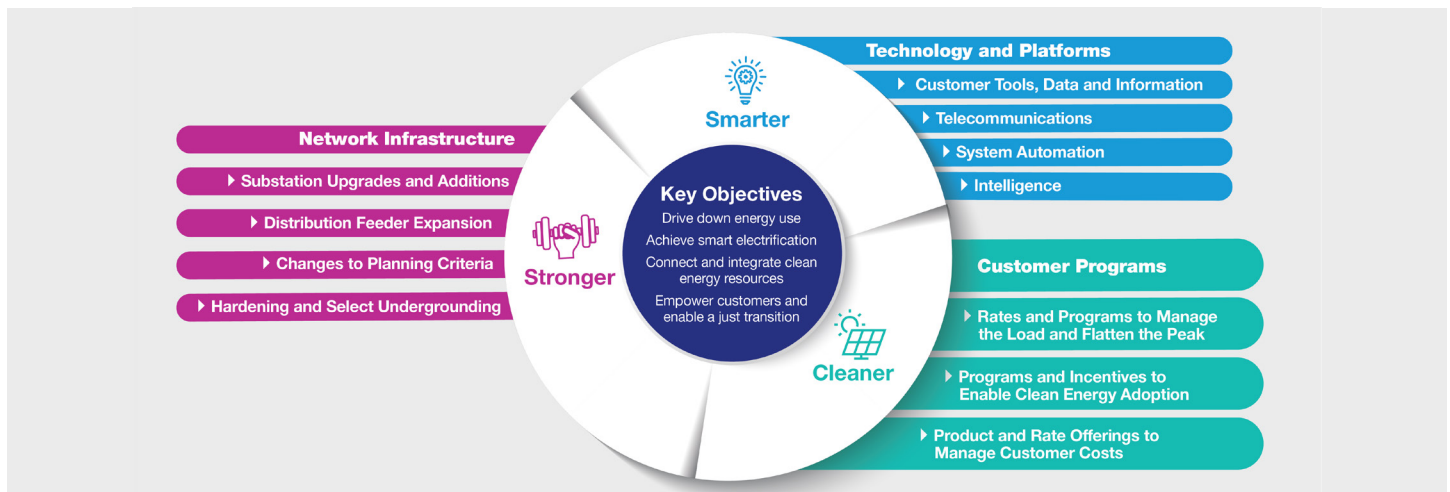
Absent the investments proposed in the Future Grid Plan, the expected growth in electric demand and addition of new supplies will overload existing equipment, impacting the safety and reliability of the network.

Future Grid Proposes the Investments Needed to Transform the Electric Network and Meet the Commonwealth's Climate and Clean Energy Goals

Meeting our climate and clean energy goals at pace is driven by two key factors: 1) the ability to connect clean and renewable energy to the grid, and 2) the rate at which customers adopt clean, efficient and electrified technologies. To ensure the grid is ready and able to do both, while leveraging and optimizing the use of these resources to benefit all customers, investments are needed in three key areas:

- **Network Infrastructure**, to make the distribution system stronger and more resilient and ready to accommodate increased power flows and new connections.
- **Technology and Platforms**, to make the distribution system smarter and more flexible, dynamic, secure and efficient and provide greater visibility into and control of system operations.
- **Customer Programs**, to deliver cleaner energy solutions and put customers in control of their energy choices and use.

National Grid's Future Grid Plan proposes a \$2 billion investment plan in these key areas to enable a more electrified, cleaner and more equitable energy future.



Our Commitment

While building and preparing the grid and our broader energy system for the future, we remain focused on what is right in front. Our customers expect and deserve great service and safe, reliable and affordable energy today — which we will continue to deliver — and want a true partner for progress, which Future Grid enables.