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National Grid bringing more power to Queensbury

Michael Goot Sep 6, 2015 0



National Grid has undertaken a \$10 million project to replace two 25-megawatt transformers with two 40-megawatt towers at its substation at 20 Country Club Road in Queensbury. The upgrades are intended to serve Queensbury's growing electrical needs for decades to come.

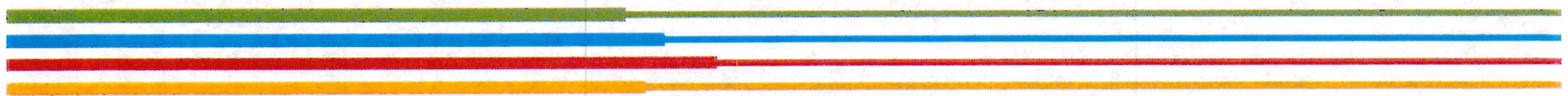


Shining lights on Cole's Woods

ALEX PORTAL Sep 11, 2015



National Grid – Warren County Presentation



National Grid & Warren County

- National Grid has 45,000 electric customers in Warren County.
- In 2023 National Grid paid \$4,370,670 in Warren County property taxes.
- National Grid has over 150 represented and management employees based out of Warren County in our Glens Falls, Warrensburg, and North Creek Service Centers.
- National Grid serves all Warren County municipalities:

Bolton

Horicon

Queensbury (Gas &Electric)

Chester

Johnsburg

Glens Falls (Gas and Electric)

Stony Creek

Thurman

Lake George (Gas and Electric)

Hague

Lake Luzerne

Warrensburg

National Grid Rate Filing

- On May 28, 2024, National Grid submitted a filing to the New York State Public Service Commission for new electric and gas delivery prices that would take effect on April 1, 2025. The rate filing seeks to accomplish the following:
 - Continues National Grid's investment in new/upgraded electric and gas infrastructure in Upstate New York.
 - Projected electric capital investment is \$1.739 billion.
 - Continues National Grid's commitment to supporting economic development and Energy Efficiency initiatives.
 - One-year rate filing as required by PSC. Ideal outcome is a negotiated settlement with prices increased over multiple years.

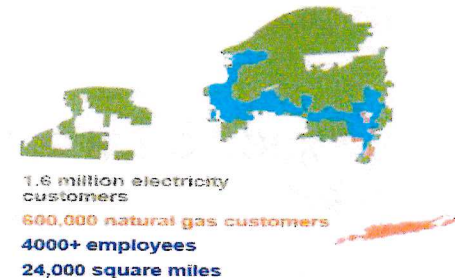
We are delivering on our commitments to customers and achievement of New York's clean energy goals

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- Invested more than \$4.4b electric and \$1.1b gas to modernize our networks, including investments to improve reliability and unlock renewable generation while launching alternatives to new infrastructure
- Consistently met or exceeded our Electric Reliability and Gas Safety performance metrics
- Maintained strong operational performance through severe weather events; 17 storms in 2023 impacting 1.4 million customers; electricity restoration rate of 95% for our customers within 12 hours
- Reduced system emissions 12.85% through main retirement and leak reductions
- Delivered 11,541,795 MMBtus in customer energy efficiency savings since 2019
- Expanded NMPC's electrification program by 600% since 2020; electrified six times more customers in 2023 than in 2020
- Connected 1.2 GW of Solar Energy
- Installed more than 4,600 EV charging ports
- Deploying AMI at a rate of 4,500+ meters per week; customer engagement portal available to AMI residential customers to provide insights about their energy usage
- Giving back to our communities through Project C, a shareholder-funded program celebrating its fourth year; focused on workforce development, environmental justice, neighborhood investment, and volunteerism

NMPC is currently operating under a 3-year rate plan, with an 9-month stay-out ending March 31, 2025. The rates in that plan were developed in recognition of the financial impacts from the COVID-19 pandemic with annual increases limited to less than 2% each year.



Rate Case

New York has established nation-leading climate change, clean energy, and equity goals — goals that we share at National Grid.

To meet them, we must build for the future now.

We have an opportunity to make real and lasting changes for our 2.2 million customers across Upstate New York.

Meet our core obligation to deliver safe and reliable energy

- Prudent investments to modernize our networks and provide a strong foundation for New York's clean energy future
- Projects to harden the electric system against future weather events.

Take further meaningful action to achieve the CLCPA goals

- Transmission investments to unlock renewables across the state
- Reducing system emissions through main retirements and leaks repairs
- Electric/Gas integrated energy planning to promote electrification
- Expanding energy efficiency, weatherization, and non-wire and non-pipes alternatives
- Prioritizing benefits for Disadvantaged Communities

Enable customers to affordably meet their energy needs while also improving the customer experience

- Continuing bill assistance and Consumer Advocate programs to maintain affordability for our most vulnerable customers
- Delivering millions in efficiencies and proposing rate mechanisms to moderate bills
- Economic Development programs designed to attract and retain jobs while aligning with CLCPA goals

National Grid Rate Filing

National Grid's electric infrastructure in Upstate New York:

- Service area of 25,000 square miles providing electric delivery service to 1.68 million customers in 37 counties and more than 450 cities, towns and villages.
- 6,000 circuit miles of transmission lines.
- 200 transmission substations.
- 3,200 circuit miles of sub-transmission lines.
- 500 distribution stations.
- 1,100 large power transformers.
- 44,000 circuit miles of primary distribution.
- 419,000 line transformers.
- 1.2 million distribution poles and other assets.



(Ticonderoga Transmission line rebuild)

Bill Impacts

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Residential customers who on average consume 635 kilowatt-hours per month, would realize a 23.4% delivery increase. This would result in an overall bill increase of approximately 15.3%.

Low-income customers would realize a delivery charge decrease ranging between -7.4% to -27.9%. Built into this rate case is support for energy affordability programs.

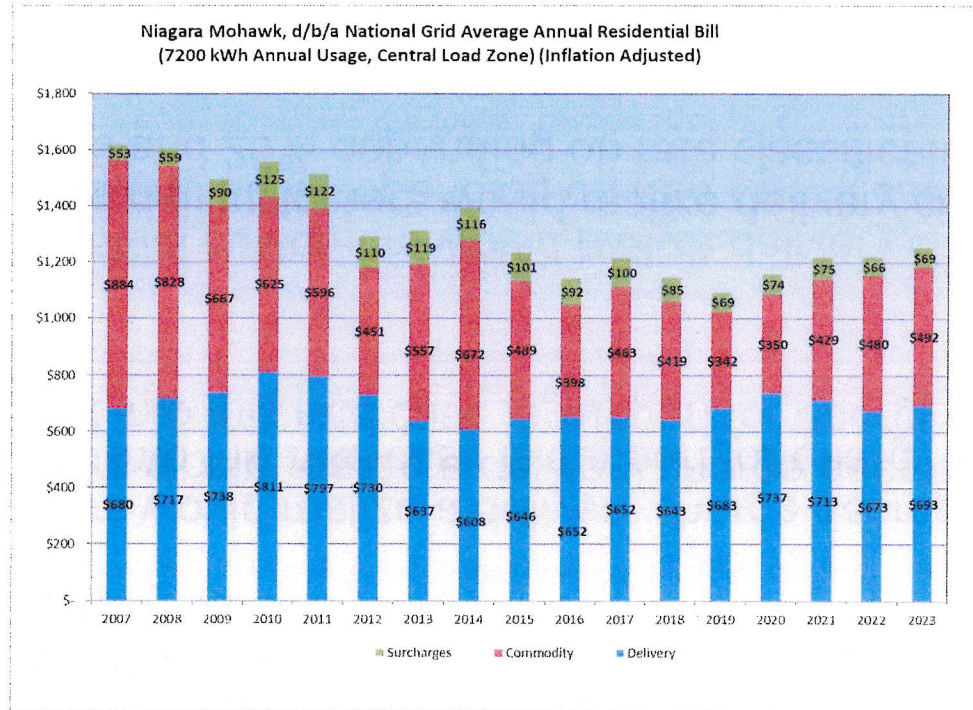
Commercial and industrial customers would realize delivery charge increases ranging between 3.2% and 25% depending on rate classification and delivery voltage.



We've managed our cost of service to promote affordability **nationalgrid** HERE WITH YOU. HERE FOR YOU.

Customers' Total Bills Are Lower Today Than They Were in 2007. . .

Electric



Adjusted for inflation, total bills are lower than they were 16 years ago. Average residential electricity bills are approximately 20 percent lower in 2023 than they were in 2007.

Typical Bill Impacts

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Gas

Service Class	Avg Usage	Del % Inc	Total % Inc	Total Monthly \$ Inc
SC-1	78	28.9%	20.2%	\$18.34
SC-1 EAP NH (Tier 1-4)	12	25.8%	22.2%	\$6.67
SC-1 EAP Heat Tier 1	75	30.1%	20.9%	\$17.94
SC-1 EAP Heat Tier 2	75	10.7%	7.7%	\$6.62
SC-1 EAP Heat Tier 3	75	3.8%	2.9%	\$1.99
SC-1 EAP Heat Tier 4	75	4.2%	3.2%	\$2.42
SC-2	356	20.2%	12.2%	\$35.64
SC-5	41,005	33.8%	10.6%	\$1,852.75
SC-7	9,212	29.0%	12.0%	\$587.26
SC-8	239,902	27.9%	8.1%	\$8,427.46
SC-13	102	39.0%	21.0%	\$16.46

Electric

Elec Service Class	Avg Usage	Del % Inc	Total % Inc	Total Monthly \$ Inc
SC-1	625	23.4%	15.3%	\$18.92
SC-1 EAP Heat Tier 1-Tier 4	741	-7.4%-12.2%	-3.5%-4.6%	-\$4.81
SC-1 EAP NH Tier 1-Tier 4	594	-14.6%-27.9%	-7.9%-11.1%	-\$8.86
SC-1C	4,767	0.1%	1.1%	\$5.86
SC-2ND	455	25.1%	17.5%	\$18.15
SC-2D	6,792 kWh/23.1 kW	24.0%	13.2%	\$129.39
SC3 Sec	86,224 kWh/224.9 kW	19.3%	9.5%	\$1,013.06
SC3 Pri	191,106 kWh/447.1 kW	19.6%	8.7%	\$1,821.26
SC3 Sub	275,599 kWh/670.9 kW	13.5%	4.7%	\$1,166.76
SC3 Tran	365,212 kWh/801 kW	13.1%	4.2%	\$1,323.60
SC3A Sec	979,290 kWh/1,976.1 kW	18.4%	8.1%	\$8,545.12
SC3A Pri	994,143 kWh/2,044.2 kW	18.6%	8.2%	\$8,611.90
SC3A Sub	1,678,468 kWh/3,248.5 kW	2.2%	1.9%	\$2,696.14
SC3A Tran	4,218,540 kWh/7,799.3 kW	3.2%	1.9%	\$6,340.32

SC-12 total bill impacts range from 8.6%-11.7% and total bill impacts range from depending on season and usage



Warren County Infrastructure – Continuous O&M

- Vegetation management is performed in 5 – 6 year cycles.
- Distribution circuits are inspected in five-year cycles.
- Substations are inspected in monthly and annual intervals.
- Transmission circuits are inspected via helicopter patrol and infrared scanned annually.
- Street light patrols and repairs performed daily.



Warren County Infrastructure Investment

- Continued System Investment – Building on the success we have seen in recent years, the plan calls for a **\$1.739 billion** capital program to continue our investment in our electric and gas system in upstate New York.
 - 156MW in Warren County currently, by 2050 it is forecasted to be around a 3x increase in load when heat pump and EV mandates take effect.
 - Based on these projections, every substation in Warren County will need to be upgraded or rebuilt by 2035. Substation rebuilds take an average of 7 years from the start of planning to energization.
 - Distribution reconfiguration for northern Saratoga and Warren County will be complete by 2027, this will increase capacity for Warren County's Queensbury and Glens Falls area. This project cost was a \$20 Mil. Investment.
 - Queensbury Substation Rebuild in 2018 – \$14 Million

Warren County Storm Resiliency

- FLISR Scheme for the towns of Bolton, Warrensburg and Lake George will bolster reliability and reduce outage times.
- Stony Creek Storm Hardening: This will rebuild the feed to Stony Creek, the project includes pole replacements, moving wire out of the woods and to the roadside. This job is currently waiting on easements, once we have them it will be complete in the next fiscal year. Project costs are ~\$400k
- Riparius feeder tie – will storm harden and create better reliability for constituents in the towns of Johnsbury and Chester. Total project costs of ~\$1.1 Mil.
- Pilot Knob Reliability Project will tie the Queensbury Substation to the Fort Gage (Lake George) substation, creating 2 paths of energy to the Pilot Knob area of Lake George/Queensbury.



Advanced Metering Infrastructure (AMI)

National Grid is embarking on an initiative to install “smart” meters for all electric and gas customers in Upstate New York. A total of 2.2 million meters (1.6 million electric; 600,000 gas) will be replaced.

Customers will be able to view energy consumption in real-time.

High usage alerts sent to customer.

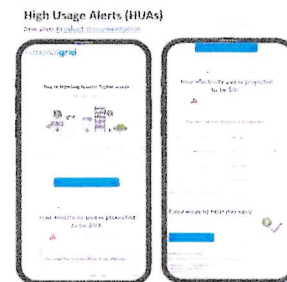
Schedule for work in Warren County is October 2024 thru December 2025.

Connect smart home devices to app.

Currently installing 4,500 meter per week

First utility in the world to deploy AMI 2.0 with edge intelligence and WiFi.

- Near Real-Time Data
- Highest Energy Use Days
- Green Button Download My Data (historical data)
- High Usage Alerts (Emails)



Economic Development Program

- National Grid committed to spend \$11 million per year on economic development initiatives in Upstate New York.
- Programs include...

Strategic Economic Development

Cooperative Bus. Recruitment

Capital Investment Incentive

3-Phase Power Incentive

Brownfield Redevelopment

Shovel-Ready Incentive

Industrial Building Redevelopment

Main Street Revitalization

Urban Center/District Revitalization

Power Quality Enhancement

Manufacturing Productivity

Clean Tech Incubation

National Grid offers a variety of energy efficiency programs to help NMPC Electric and Gas customers save money and energy¹

- **Warren County businesses have received over \$3.1 Million in Gas and Electric Incentives since 2020.**

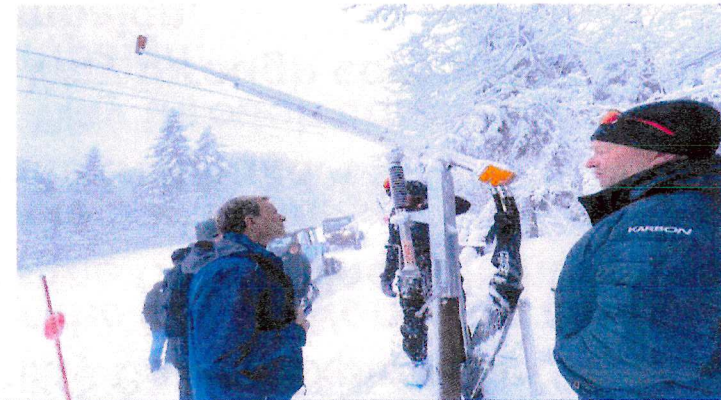
- Multifamily Programs
- Small Business Program
- Commercial and Industrial Programs
- Statewide Clean Heat Program

Offers rebates for residential, multifamily, and commercial customers to adopt heat pumps for space heating and water heating

To learn more, visit the [Energy Saving Programs](#) page on the National Grid website for Upstate NY.

National Grid Provides More than \$1 Million in Incentives to Gore Mountain for Energy Efficient Snow-Making Equipment

HOME | 2024 | TOPICS | CONTACT | INVESTMENT | CLEAN ENERGY | COMMUNITY | ELECTRIC | GAS | BUSINESS | ENERGY SERVICES



¹ Utility energy efficiency programs, budgets, and energy savings targets are authorized by the NY Public Service Commission through the Energy Efficiency and Beneficial Electrification (formerly known as New Efficiency: New York) proceeding.



Community Engagement

National Grid through our Project C initiative and our community giving program works to support organizations that strive to improve the communities we serve.

- Hudson Valley Electric Workers Scholarship Program
- 518 Elevated “Sponsor a Scholar” Utility Career Exploration Program
- \$25k donation, service day project for the Cole’s Woods lighting project
- Queensbury Land Conservancy 1.5 mile trail build.
- Large supporter of Tri County United Way through corporate sponsorship and employee giving campaign.
- Season of Giving food donations for Family Service Association of Glens Falls.

Process & Next Steps

More than two million customers in upstate New York depend on us each day to deliver energy to heat their homes and fuel their businesses and communities. The rate filing will present comprehensive proposals to support New York's clean energy goals, enhance safety, deliver economic benefits, and assist our most vulnerable customers.

Process Enhancements:

- **Committed to a transparent process that welcomes public engagement and feedback**
- Implement lessons learned from prior rate cases and best practices regarding stakeholder engagement
- **More focus on public messaging regarding the rate case priorities and bills impacts**
- Leverage pre-filing feedback in developing the rate filing



Next Steps:

- **Filing Date:** May 2024
- Post-filing outreach to customers, community leaders and other stakeholders
- **New Rates Effective:** April 1, 2025

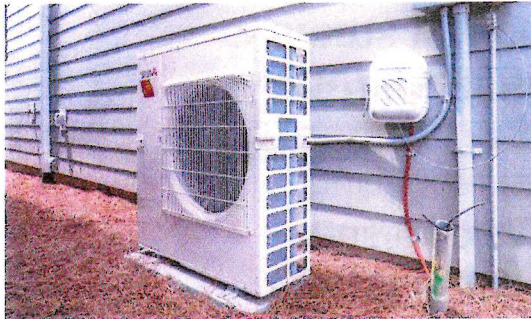
Appendix

Slide 20 – CLCPA Timeline Overview

Slide 21 – All Electric Building Act



New York State Climate Leadership Community Protection Act (CLCPA)



RESILIENT and DISTRIBUTED GRID
1,500 MW of energy storage

**ENERGY EFFICIENCY and
BUILDING DECARBONIZATION**
185 Tbtu end-use savings
in buildings and industrial facilities

GHG REDUCTION
40% reduction in greenhouse
gas emissions from 1990 levels

RESILIENT and DISTRIBUTED GRID
3,000 MW of energy storage*

**ENERGY EFFICIENCY and
BUILDING DECARBONIZATION**
1 million electric homes and
1 million electrification-ready homes

CLEAN TRANSPORTATION
100% light-duty
zero-emission vehicle sales

CLEAN ELECTRICITY
100% zero-emission electricity

GHG REDUCTION
85% reduction in greenhouse
gas emissions from 1990 levels



now

by
2025

by
2030

by
2035

by
2040

by
2050

CLEAN ENERGY ECONOMY
over 165,000 clean energy jobs

RENEWABLE ENERGY
6,000 MW of distributed solar

**RENEWABLE ENERGY
CLEAN ENERGY STANDARD**
70% electricity from renewable energy

CLEAN ENERGY ECONOMY
More than 200,000 new jobs added

RENEWABLE ENERGY
10,000 MW of distributed solar

RENEWABLE ENERGY
9,000 MW of offshore wind



New York State Electrification

New York State “All-Electric Building Act”

- **Effective December 31, 2025** – Fossil fuel equipment and building systems will be prohibited in new buildings up to seven (7) stories except for new commercial and industrial buildings greater than 100,000 square feet in size.
 - Exemptions: Emergency backup power systems; manufactured homes; commercial food establishments; laboratories; car wash facilities; laundromats; hospitals/medical facilities; critical infrastructure (emergency management, wastewater treatment facilities, water treatment & pumping facilities, agriculture buildings, fuel cells and crematoriums).
- **Effective December 31, 2028** – Fossil fuel equipment and building systems will be prohibited in all new buildings.