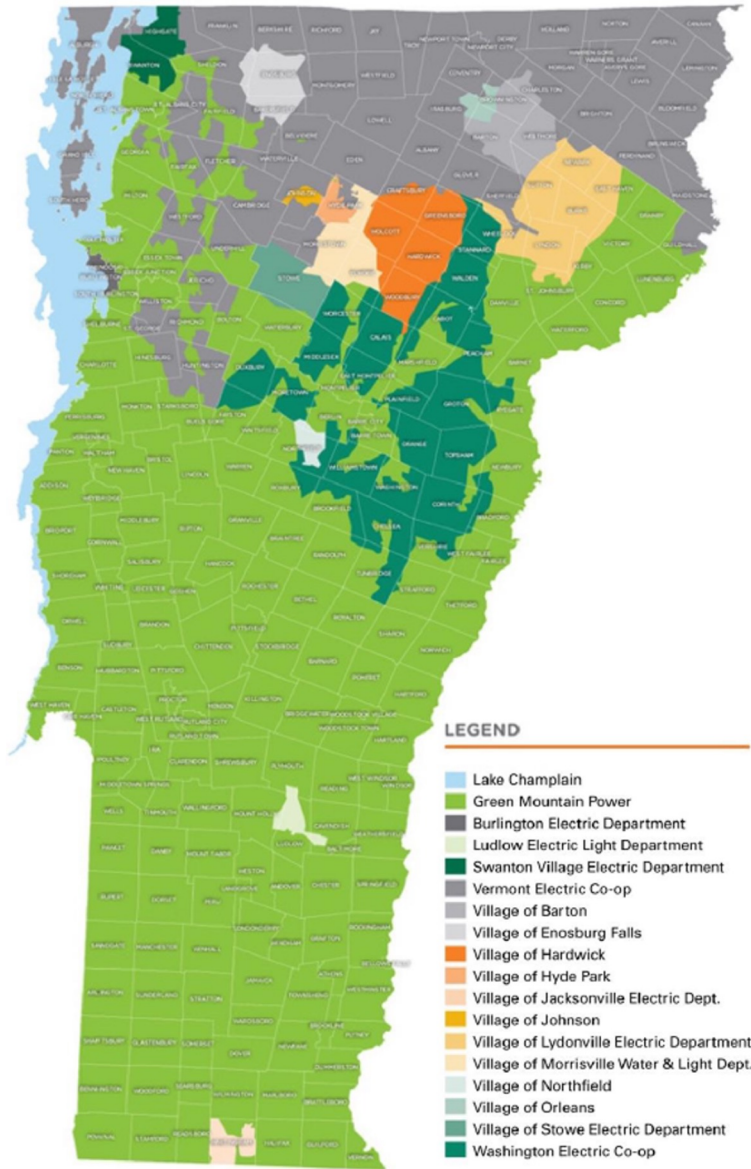

Green Mountain Power

Introduction & Storm Response
House Committee on Environment & Energy

Candace Morgan & Mike Burke | January 17, 2023

GMP: Who We Are

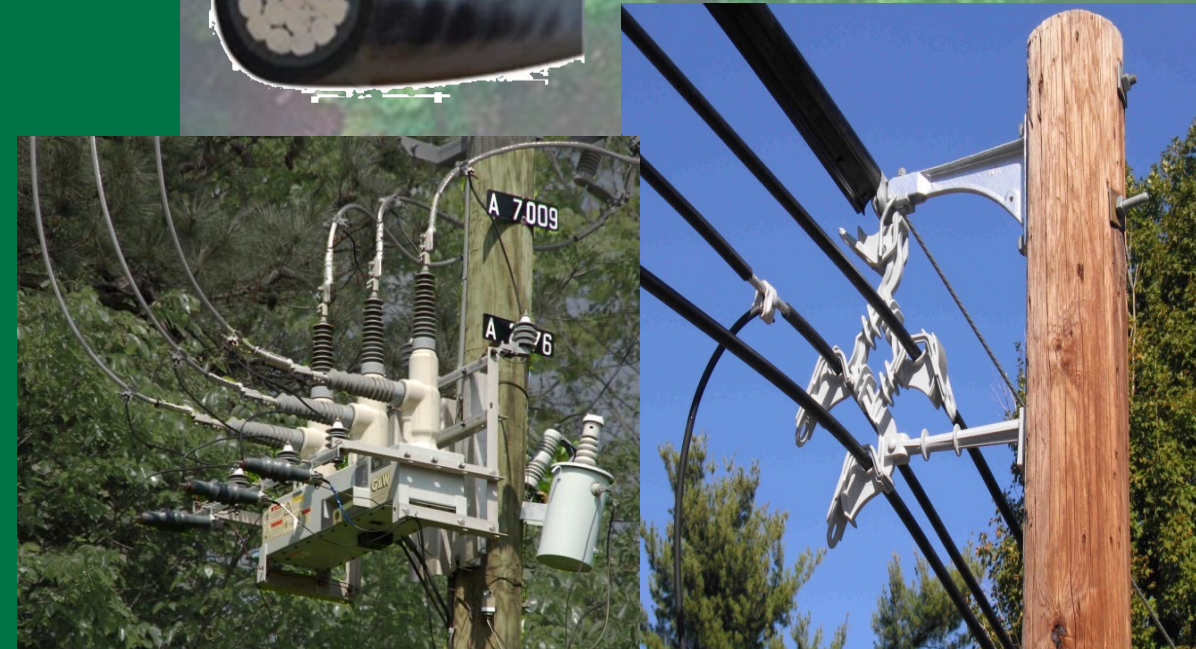
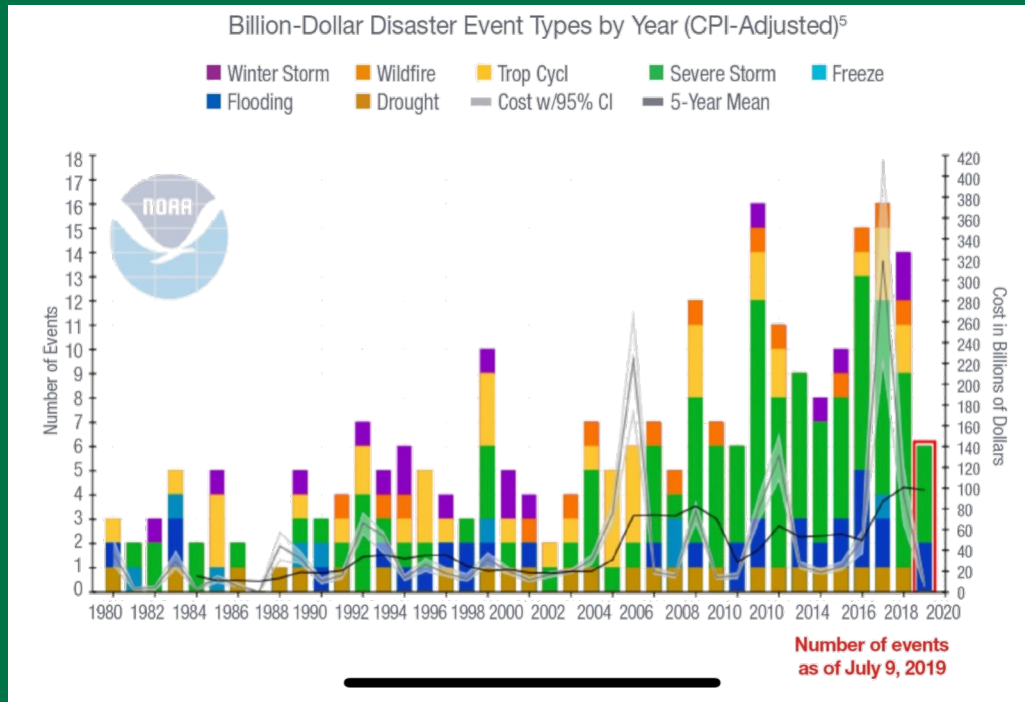


GMP serves over 270,000 customers in 202 towns, covering 77% of Vermont

- 85% residential customers, 15% businesses
- Suburban and mostly rural territory with approximately 12,500 miles of distribution lines and 1,011 miles of sub-transmission
- 15 district offices across Vermont
- Just over 500 employees, including 285 members of the IBEW Local 300
- GMP's annual energy mix is 100% carbon free and 78% renewable.
- GMP will be 100% renewable by 2030

GMP's Proactive Climate Plan: Grid

- Upgrading infrastructure with Storm Hardened construction to better withstand today's changing climate.
- Conversion of rural overhead lines to underground, reducing the threat for outages and reducing maintenance costs.
- Using new and proven technologies such as self-healing distribution lines and battery storage to further reduce the climates affect on GMP customers.



GMP's Proactive Climate Plan: Storage

- GMP has deployed 30 MW of residential and large scale storage throughout Vermont
- Battery storage strengthens the greater grid, adds resiliency, and helps lower costs for all
- Circuit, Town-level Storage, can isolate to micro grid if and when larger grid goes down
- GMP deploying Resiliency Zones which are customized resilience solutions to the community
- Home Storage can last for days if managed and longer if paired with solar
- Both of these resiliency functions also work as peak reducers and frequency regulators on a day-to-day basis, which reduces costs for all customers.



Storm Prep & Planning

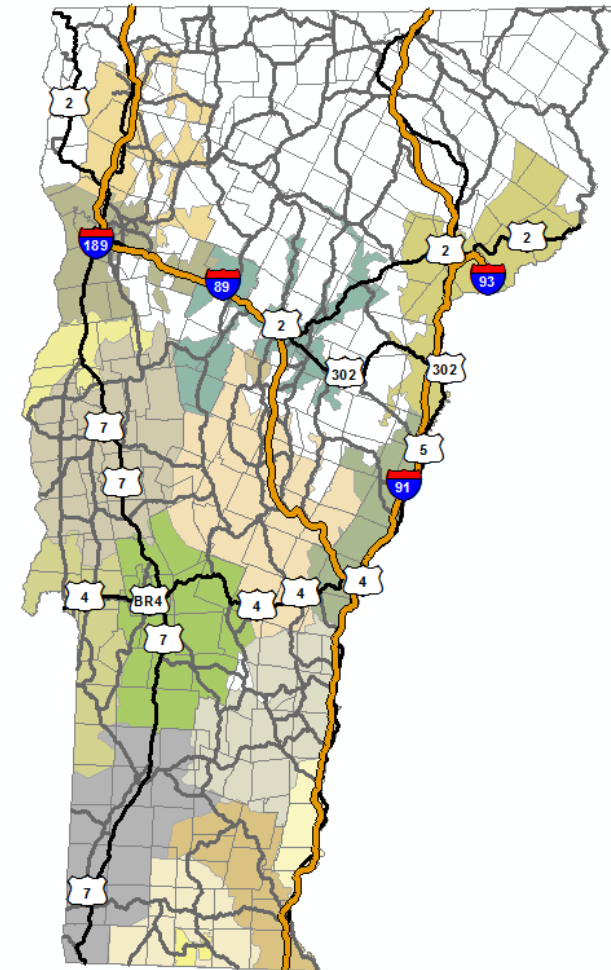
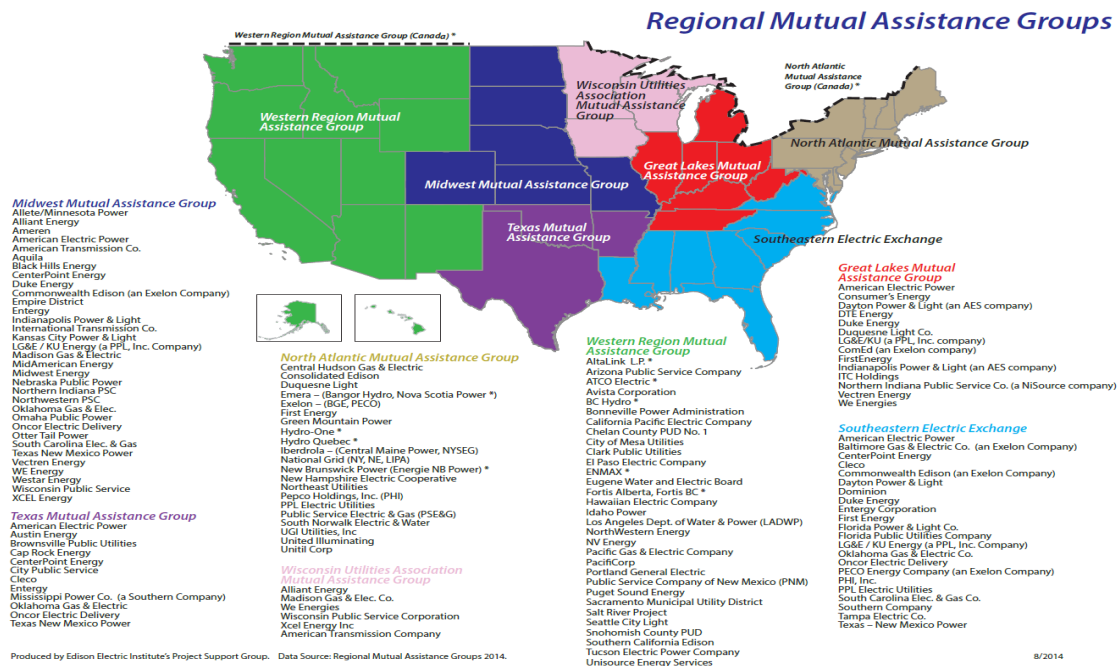
- Green Mountain Power monitors 4 forecasters and multiple weather models days in advance of any storm.
 - Forecasters-
 - VT Utility Forecaster Roger Hill
 - Disaster Tech-Northern VT University born weather prediction
 - National Weather Service-Burlington(12 VT Counties)
 - National Weather Service-Albany(2 VT Counties)
 - Weather Models-
 - GFS-Global Forecast System
 - Euro-European Forecast Model
 - NAM-North American Model
 - Outage Prediction-
 - Internal GMP present weather vs prior weather prediction
 - Disaster Tech-Prediction based on total precipitation and how much is frozen.
 - Customer Outreach: Proactively alert customers/communities
 - Text alerts, emails, social media, web site, press releases, robo-calls, critical care customer outreach
- All of these tools, along with industry experience at GMP, help us make decisions on the possible impacts to customers from forecasted weather events so we can staff up accordingly and pre-position crews as needed.



Storm Restoration

- Distribute Resources to the hardest hit areas.
- Communicate often with customers as information becomes available. High level restoration times once damaging weather stops, when the last customers in a geographic area will be back on.
- Have districts run storm response in their area for efficiency

- GMP's 15 operating districts





Questions?

Candace.Morgan@greenmountainpower.com

Mike.Burke@greenmountainpower.com