



# GMP ENERGY VISION

Empowering customers with clean,  
cost-effective, and reliable energy

# Energy Mission

- ▶ Empower Customers with tools to reduce energy and save money
- ▶ Transition to a community based, independent energy system
- ▶ Dramatically reduce carbon; increase access to renewable energy
- ▶ Greater reliability and grid resiliency
- ▶ Improve comfort

# Energy Transformation Company

Energy transformation of customer relationship

- ▶ Ramp up comprehensive whole home and biz transformation

Energy transformation of the grid

- ▶ Deploy storage solutions
- ▶ Implement circuit DER modeling tool to create proactive distribution plan for every GMP circuit
- ▶ Develop and manage shared access platform to leverage DER's reducing system costs and improving grid stability/reliability
- ▶ Complete islanding of communities/circuits

Energy transformation of the business

- ▶ Set & attain dramatically improved safety and operations goals through a data intelligence-supported operations improvement evolution

# GMP Energy Vision - 2008

This transition began in 2008, when we launched our customer-obsessed vision to fulfill the desire of the Vermonters we serve by delivering low-cost, low-carbon energy that is more locally grown

Our vision was to dramatically transform our energy portfolio

- ▶ Ramped up cost-effective, VT based renewable energy resources
- ▶ Ramped down dependence on nuclear energy supply
- ▶ Delivered three bill decreases in four years

Promoted cost-effective, customer-owned, local distributed generation:

- ▶ GMP launched the first, utility-developed solar generation adder to promote customer adoption of distributed solar technology



**As we look to the future, the question becomes:**

How to transform innovatively toward an energy delivery system that is more home, business and community-based?

- ▶ Bulk power system is outdated, not economically efficient, not environmentally efficient or effective in terms of basic climate resiliency.
- ▶ Regional transmission build-out continues to drive up cost of bulk system and drive down economic efficiency.
- ▶ Technologies readily available to help lead a transformation as customers and communities are becoming more “energy engaged”.
- ▶ Technology, data and forward leaning organizations have created a path to a more economically viable future for energy delivery.



# Energy Vision 2.0

Help Vermonters achieve energy transformation to save money, reduce carbon and live more comfortably

- ▶ Provide programs for Vermonters to save money, reduce carbon and have a more comfortable home. Transition from fossil fuels and utilize smarter electrification for home heating, cooling and transportation, while reducing dependence on the traditional grid
- ▶ Smart control of home heating, cooling, transportation, storage devices to lower customer total energy cost while increasing customer comfort
- ▶ Develop additional strategic partnerships around energy transformation and innovation, including VT cities and towns

Ramp up renewable energy supply

Accelerate adoption of Vermont Energy Independence Projects

- ▶ Clean energy micro-grids
- ▶ Lower peak
- ▶ Deploy storage





## Energy Vision 2.0

### Leverage Smart Electrification

#### Partner to Deliver the Template for the Energy Transformation of Vermont Communities, Homes and Businesses

- ▶ Create Vermont's first eCommunity in partnership with Efficiency Vermont to demonstrate how a focus on total energy transformation makes for stronger communities and better energy outcomes
- ▶ Accelerate a consumer-led revolution where we get VT homes and business self generating for energy, transportation and heating, significantly reducing carbon footprint
- ▶ Expand micro grids into more communities
- ▶ Provide Vermonters opportunities for "energy transformation as a service" programs





# The Transformation

Lower carbon, low cost innovative solutions readily available for all Vermonters

Lower Regional Costs / Move Toward Independence

Increase Reliability / Create Local Resilience

- ▶ Increase strategic local DG, storage & microgrids
- ▶ Reduce dependency of long distance, bulk system

Work Directly with Partners and Communities to Accelerate Transformation

- ▶ Drive community campaigns to embrace total energy carbon goals and reduce GHG
- ▶ Use economies of scale to rapidly transform communities at lowest cost & around a local call to action

Vermont is the leader of Energy Transformation at a National level

- ▶ Continue to deliver on promise of low carbon, cost effective, reliable and locally grown energy solutions



