GMP ENERGY VISION

CASTLETON SPA

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

<u>GMP Energy Vision</u> 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

GMP Energy Vision

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

<u>GMP Energy Vision</u> 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

<u>GMP Energy Vision</u> Energy Future

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- Bulk power system is outdated, not economically efficient, not environmentally efficient or effective in terms of basic climate resiliency.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.



GMP Energy Vision

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

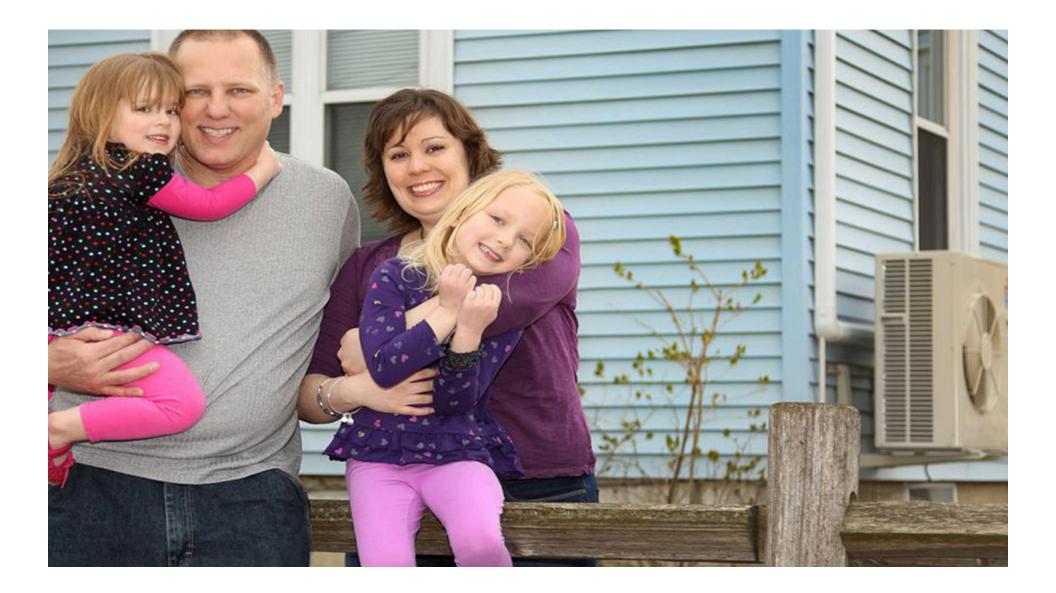


<u>GMP Energy Vision</u> Energy Vision 2.0

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



<u>GMP Energy Vision</u> 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

