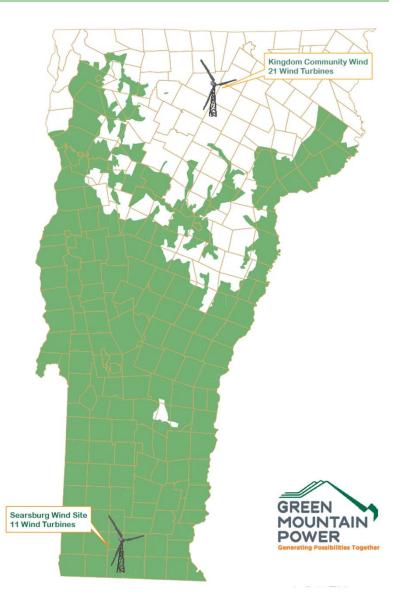


# Electric Vehicle Workplace Charging



#### Who is GMP?

- Vertically integrated Vermont utility
- We serve
  - 260,000 Customers
  - 202 towns covering 7,500 square miles of service territory
- We operate
  - 32 Hydro Plants
  - 6 Peaking Plants
  - 12 Solar Projects
  - 2 Wind Farms
  - 2 100KW Wind Turbines
  - 1 Joint-Owned Biomass Plant (McNeil)
- We maintain
  - 976 miles of transmission lines
  - 11,273 miles of distribution lines
  - 185 substations



#### **GMP's Pool Vehicles**

- Started in 2010 with Prius HyMotion conversions
- Currently half of our 16 pool vehicles are EV Hybrids
  - C-Max, Volt, Prius
- We are committed to the EEI 5% challenge for annual capital fleet purchases





# **GMP Workplace Charging Stations**

- 10 of 17 locations currently have charging stations
- Agreement with employees to provide workplace charging
- Ultimate goal is to provide a charging portal for every EV owner
- Free for now....<u>NOT</u> forever





## **GMP Employee EV Incentives**



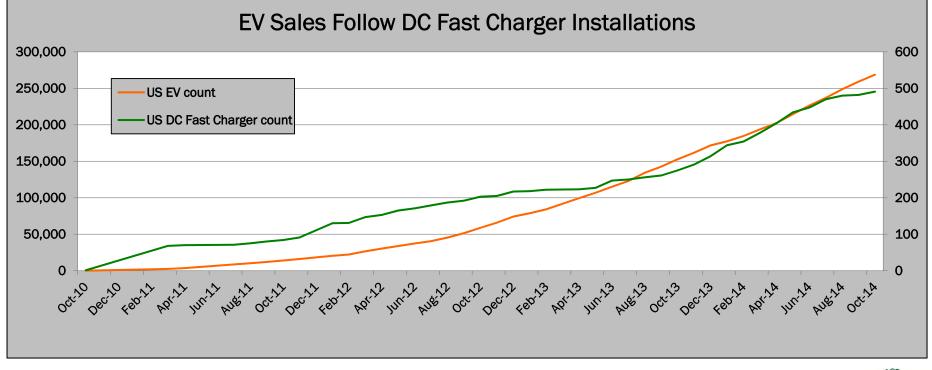
GMP Ambassador Cindy promotes her electric vehicle at a baseball game

- Employees earn up to \$5,000
  - \$\$\$ at the time of purchase
  - \$\$\$ for one year of EV ambassador work
- EV Ambassador Work
  - Attach "Ask me about my EV" bumper sticker
  - Post on Facebook or Twitter
  - Attend local EV events
  - Share your story



## **Charging Station Deployments**

- Currently have 13 ChargePoint charging stations scattered throughout Vermont
- 2015 12 Freedom Stations & 10 L2 Stations
- 2016 3 Freedom Stations & 20 L2 Stations
- If you build it...they will come





### **EV Education & Lease Proposal**

- GMP will present the value and cost benefits of EV ownership on-site
- 2 GMP will provide on-site test drives
- 3 GMP will offer short term leases (2-4 weeks) to interested individuals





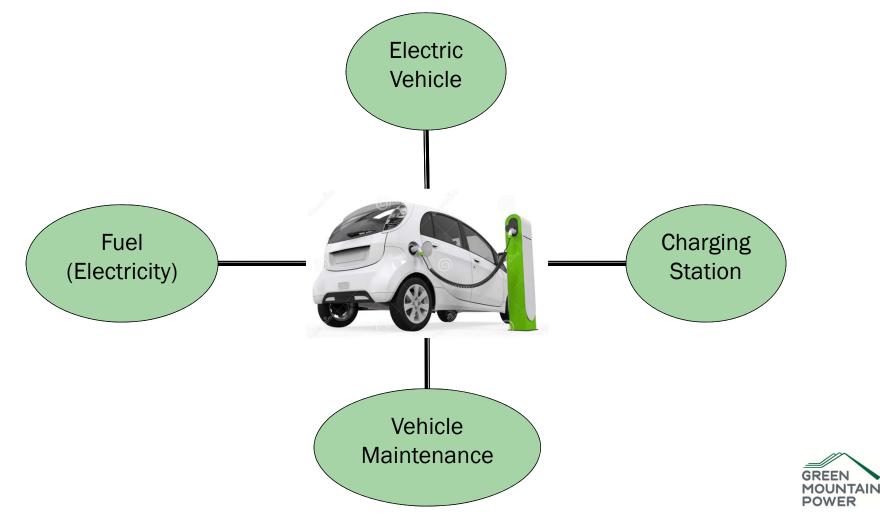
## Workplace Charging Program Proposals

- Employer Funded
  - GMP pays for and installs charging stations
  - Employer pays GMP monthly membership, maintenance and network fee
  - Employer "owns the meter" and pays GMP for incremental demand
- EV Owner (Employee) Funded
  - GMP pays for and installs charging stations
  - GMP "owns the meter" and pays for load
  - EV Owner pays GMP monthly membership, maintenance and network fee



#### Holistic Workplace Fleet Proposal

#### **One Monthly Fee Covers**



### Looking to the future...

- Vehicle to grid utilization
- Smart charging stations with remote control capability
  - Micro grid management
  - Coordinated or sequenced charging practices
  - Frequency Regulation
  - Demand Response / Peak Shaving
- Plug-in School Buses
- Canada to New England Charging Corridor
  - Quebec > Burlington > Rutland > Boston





#### **Questions?**



