

Electric Transportation Projects and Policies

Transportation & Land Use Working Group

May 8, 2018

Goals

- Keep doing what we're doing
- Emissions reductions
- Reduce vehicles miles traveled
- Increase vehicle electrification
- Cost effectiveness
- Reach under-served communities



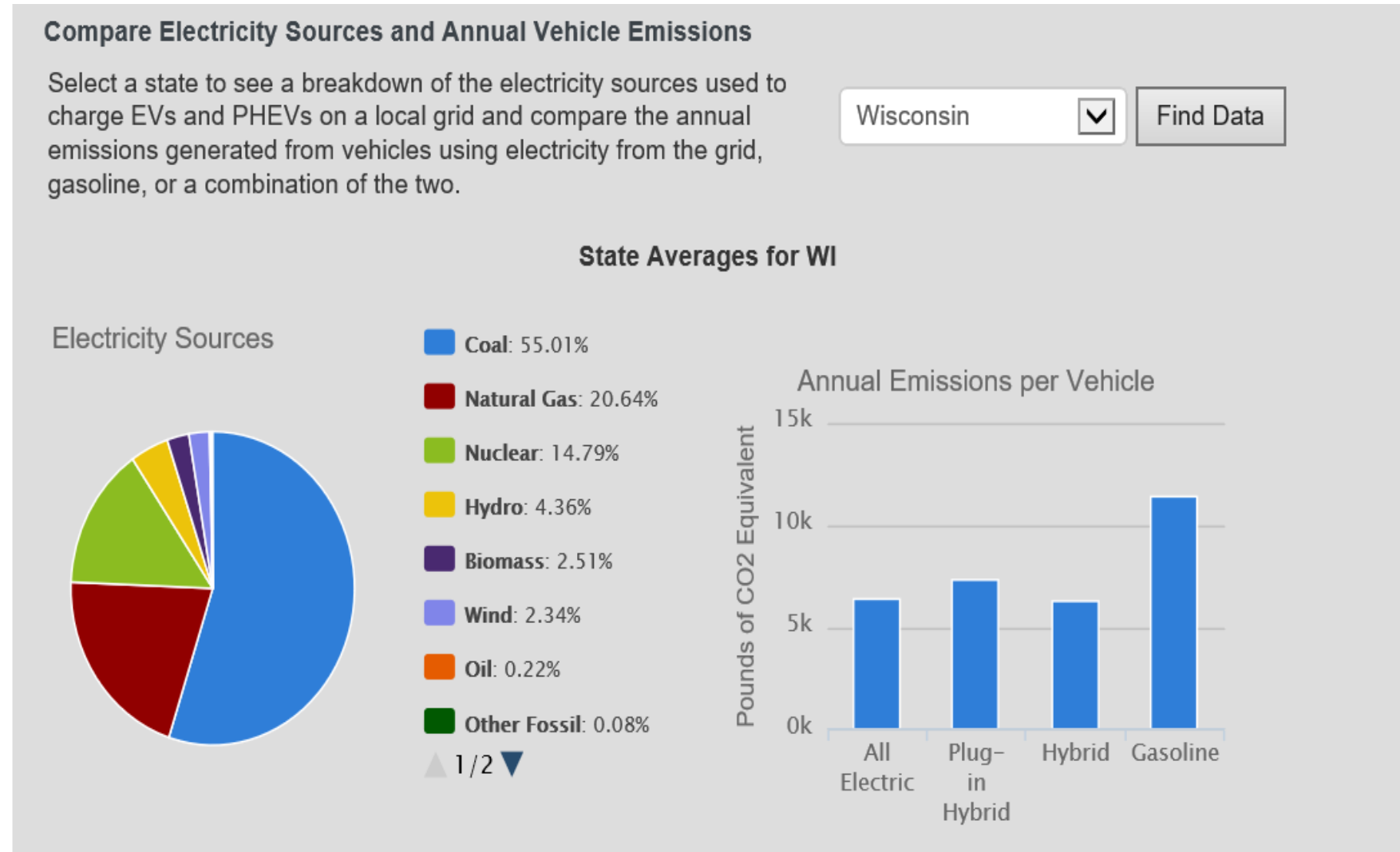
EV EVERYWHERE
U.S. Department of Energy

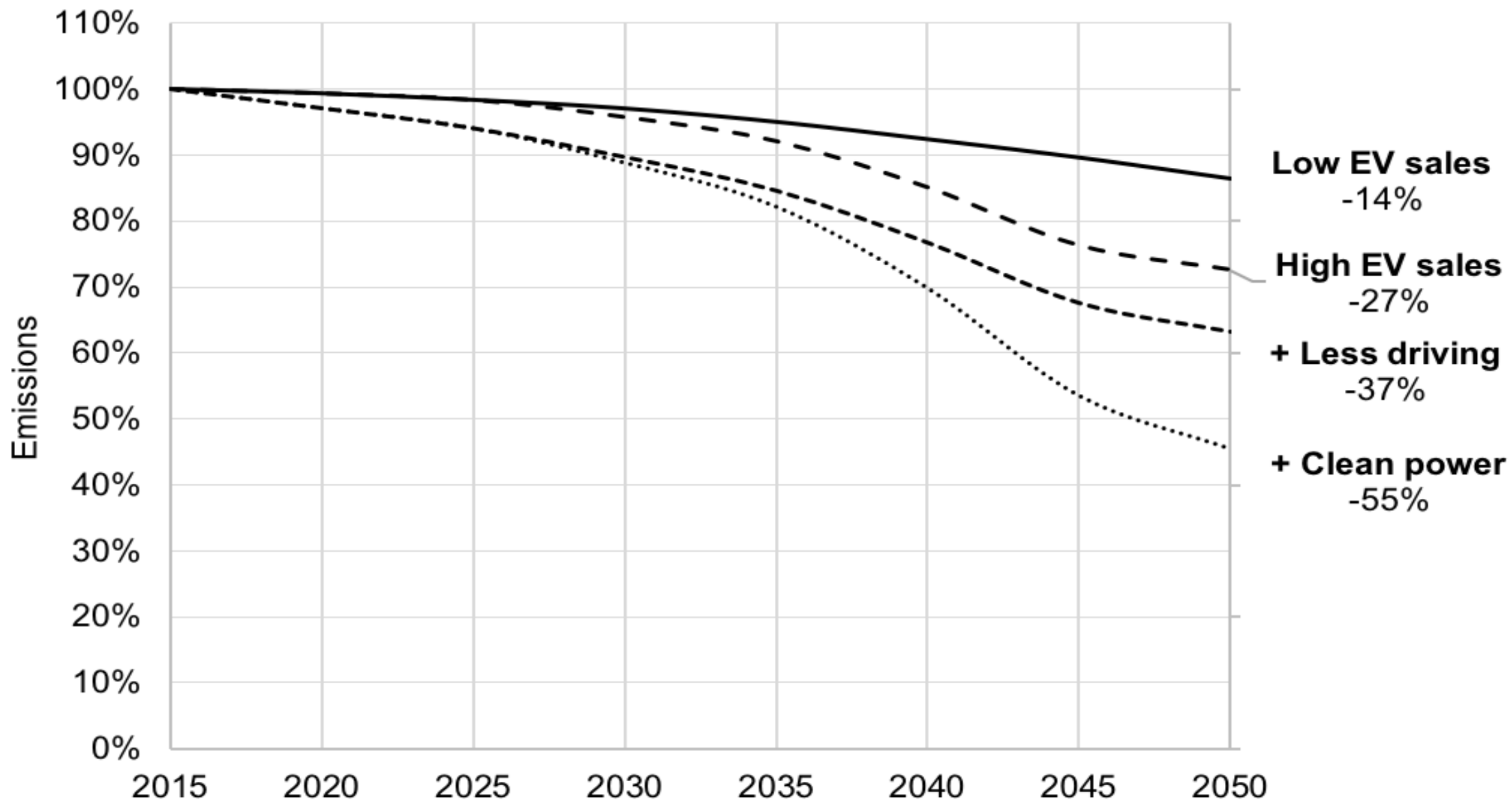
“Over their lifetime, battery electric vehicles produce far less global warming pollution than their gasoline counterparts” (Union of Concerned Scientists)

- Electricity Sources and Emissions - 2017

- ≈50% less CO2

- Source: U.S. DOE Alternative Fuels Data Center

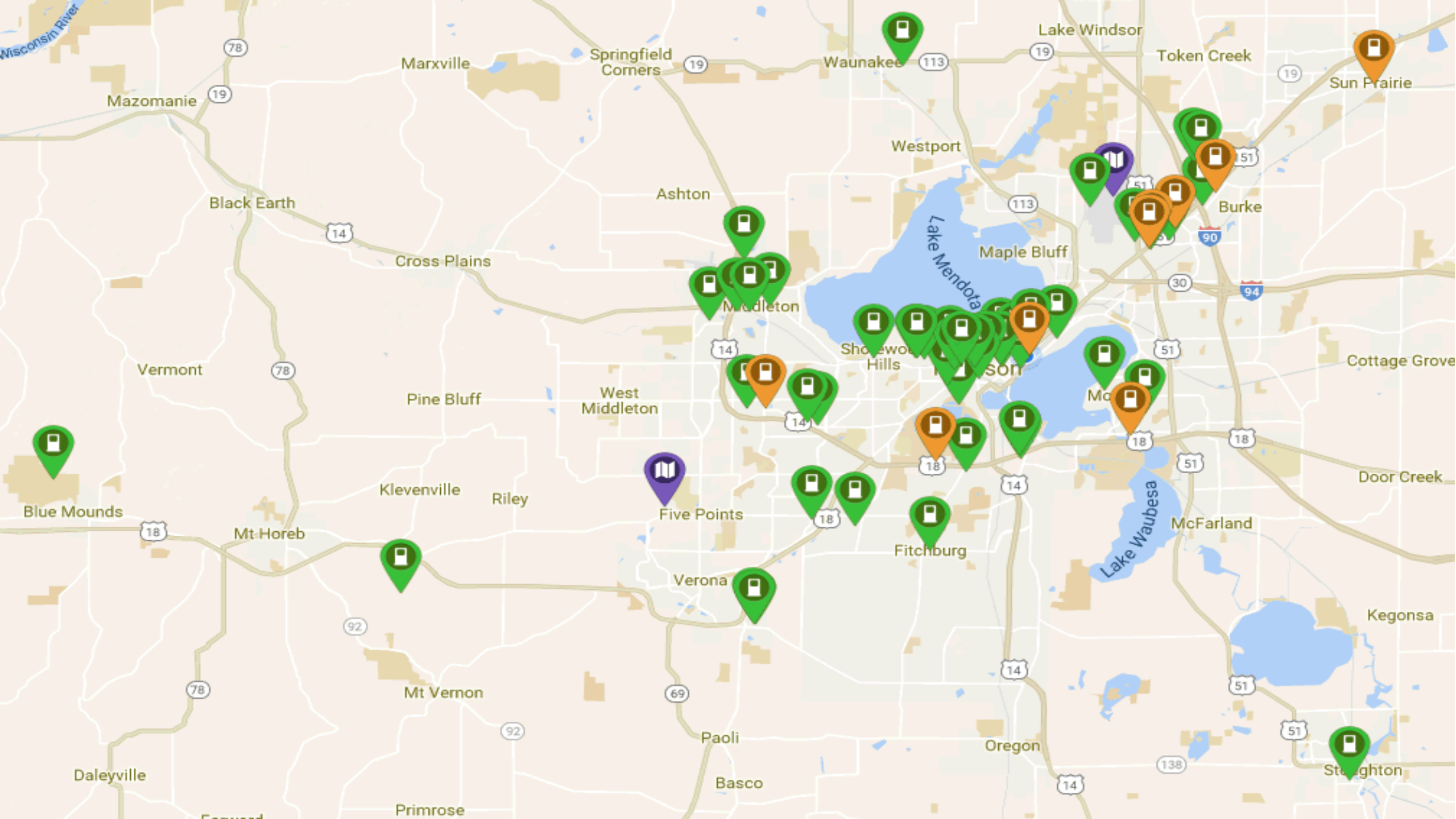




What's Working

- EV sales are up in California, Colorado, Hawaii, Oregon, Vermont, and Washington
- Here's why:
 - Wide variety of models
 - State and Local Incentives - fee exemptions, parking, HOV lanes, tax credits
 - More charging stations
 - Workplace charging
 - Special Promotions





Mazomanie 19 78
Black Earth 14 78
Cross Plains
Vermont 78
Blue Mounds 18
Mt Horeb 78 92
Daleyville 78
Primrose 92
Marxville
Springfield Corners 19
Ashton
Middleton 14
West Middleton
Klevenville
Riley
Mt Vernon 92
Paoli 69
Basco
Waunakee 113
Westport
Maple Bluff 113
Shorewood Hills
Fitchburg
Oregon 14
Lake Mendota
Lake Waubesa
McFarland 14 51
Burke 51 90 94
Mc
Stoughton 51 138
Sun Prairie 19
Cottage Grove
Door Creek
Kegonsa

Projects, Programs and Policies – EVs



SolvingEV

- Goal: 50% of car sales electric by 2040.
- Improve affordability/adoptability through incentives (\$1,000 to \$5,000 per vehicle).
- Increase access to affordable electric vehicle transportation options for low-income populations.
- Prioritize electrification of buses and shared use vehicles to reduce the need for personal vehicle use/ownership.
- Add X% county fleet vehicles to electric and encourage cities, towns and villages to do the same.
- Replace at least X number of gas or diesel powered vehicles with EVs.

Projects, Programs and Policies – Infrastructure

- Upgrade residential infrastructure accordingly.
- Near-term: 15 DCFC stations and 150 Level 2 stations.
- Increase charging infrastructure at single family and multifamily developments by X%.
- Develop EV parking hubs.
- Prioritize electrification of shared use vehicles, bikes and buses to reduce the need for personal vehicle ownership



Projects, Programs and Policies – Other

- EV-ready provisions for affordable housing.
- EV-ready construction requirements for multifamily developments.
- EV-ready construction provisions for commercial and residential dwellings.
- Municipal and city policies to support curbside charging.
- Bulk purchasing opportunities that could bring down the cost of charging.
- Policies that make it easier to provide publicly accessible charging on private property.
- Mileage-based road user fees.
- New road pricing mechanisms to stabilize revenues and manage vehicle travel demand.

Outreach and Education

- Educate key stakeholders on EVs
 - Municipalities
 - Businesses
 - Residents
 - Developers
- Educate dealership sales staff on EVs
 - Encourage dealerships to have EV inventory
 - Understand charging
 - Know their inventory and benefits



Outreach and Education

- Incentives/programs to encourage dealerships to promote Evs.
- Ride and drives at community events, local businesses.
- Social media campaigns.
- Utility communications – newsletters, bill inserts, web content.
- Possible EV education center.
- Smart road funding.



Discussion