

## Events WVEAA led or participated in:

- National Drive Electric Weeks in South Charleston & Martinsburg
- Governor's Energy Conference
- 2nd Annual Solar Congress
- Energy Transitions for Green Growth
- Charleston Boulevard Rod Run & Doo Wop Car Show

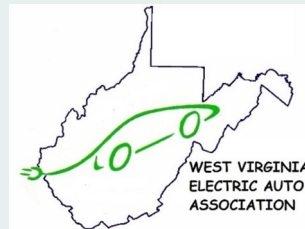
## Why Drive an Electric Vehicle?

- Electric is very Convenient – especially for Urban Commuters who charge at home
- Very Affordable on a Day-to-Day Basis (about 2.5 cents/mile)
- Almost No Drive-Train Maintenance
- No tailpipe emissions on electric
- Lower total emissions – CO<sub>2</sub>, ozone, metals

## WV Electric Auto Association

WVEAA.org

West Virginia Electric Auto Association is on Facebook



WV Electric Auto Association  
*We move on West Virginia's energy!*

## Electric & Plug-In Hybrid Vehicles use West Virginia Energy



*Tesla Model 3*



*Chrysler Pacifica Hybrid*



*Tesla Supercharger & Direct Current Fast Charger*

## Electric Vehicles use West Virginia Energy

Between 2010 and 2018, over one million Electric Vehicles (full electric and plug-in hybrids) delivered in US  
42 models in 20 makes (9/18) with 100 new models '19-'23

138% sales growth 10/17 vs. 10/18

EVs can help the WV economy using WV made electricity

- WV coal: 11 lb/day
- WV natural gas: 110 SCF/day
- WV renewables: ~10 large solar panels (3,300 watts)
- Battery Electric Vehicles do NOT use imported oil!



*Chevy Volt charging from solar panels*

## Direct Current Fast Charging (DCFC) Economic Analysis

- In California, each DCFC plug is supported by 87 battery electric Teslas.
- 12% of charging occurs at public plugs and 88% of charging occurs at home.
- DCFC charging sales per plug is \$8,900/yr at \$0.25/kWhr.
- For each DCFC plug, home charging generates \$28,300/yr sales at WV electric rates.
- Total power sales are \$37,200/yr for each DCFC plug.



*Nissan Leaf*

*Mitsubishi  
Outlander  
Hybrid*



## West Virginia EAA Goals

- Encourage Electric Vehicle Charging at Tamarack
- Encourage roll-out of DC Fast-charging stations for all EV brands (200+ miles of range/hr)
- Promote destination charging (15-40 miles of range/hr) build-out at all WV tourist locations
- Display EV's at events around West Virginia
- Educate the Public on the benefits of EV's at events, via the web, and in-person
- Provide Social Events for WVEAA members



*Overnight Guests EVs charging at  
Pipestem Resort State Park*