

Plug-in electric vehicles: Good for Florida

Electric vehicles are good for the environment and reduce oil dependence – they can also boost a state’s economy and create jobs. Many forward-thinking states have already recognized these benefits and offer incentives and policies to increase adoption.

There are more than two dozen plug-in electric vehicle (PEV) models available in the United States – in nearly all price points – with many more expected in the coming years. Today, there are more than 10,000 PEVs on Florida’s roads.

Even with today’s low gasoline prices, electric vehicles cost about 50 percent less to fuel and 60 percent less to maintain than comparable gasoline vehicles. Given these savings, electric vehicle owners have additional disposable income to spend on other goods and services. According to an economic impact study conducted by AECOM, this shift in household spending could contribute more than \$1.6 billion in economic gain for the state, supporting an additional 9,500 jobs in 2030. In 2014, PEVs contributed an estimated \$12.5 million to the state’s economy. Today, each new PEV on Florida’s roads contributes \$1,390 every year to Florida’s economy, growing to \$2,280 by 2030.

In addition to the economic benefits, widespread adoption of electric vehicles can dramatically reduce greenhouse gas emissions in Florida. Even when upstream power plant emissions are considered, PEVs are far cleaner than conventional vehicles. Even as the efficiency of conventionally fueled vehicles improves over time, PEVs are expected to remain an environmentally sound transportation solution – particularly in Florida, where the electricity generation mix is relatively clean, and improving all the time.

Many states have recognized these benefits and offer incentives and other programs to increase adoption of PEVs. Effective financial and non-financial programs include:

Incentives

- » Rebate program for government entity deployments of PEVs
- » Consumer rebate – or sales tax exemption – program for the purchase or lease of qualifying PEVs
- » Charging infrastructure rebate for employers or destination locations, such as hotels and resorts

Policy

- » Require state light duty fleets to meet PEV-mandated compositions
- » Highway rest area charging station installation requirements
- » Multi-unit dwelling PEV access policy and code for new developments or redevelopments

About Drive Electric Florida

Drive Electric Florida is a stakeholder group representing automakers, utilities, charging infrastructure providers, environmentalists, local government, universities, Clean Cities coalitions and PEV enthusiasts and end-users. It seeks to advance the energy, economic and environmental security of the State of Florida by promoting the growth of electric vehicle ownership and accompanying infrastructure.

Florida Economic and Fiscal Impact

Electric vehicles will contribute:

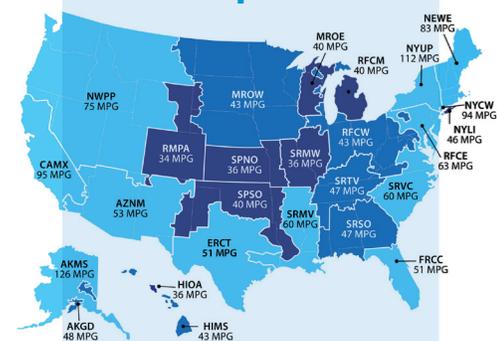
\$1.6 billion
economic gain

9,500
new jobs

\$17.3 million
net state taxes

\$2,280
net impact per
electric vehicle – each year

Environmental Impact



How do the global warming emissions of electric vehicles compare with gasoline vehicles in your region?

GOOD **BETTER** **BEST**

← Dirtiest electricity grid (High emissions) Cleanest electricity grid (Low emissions) →

An EV charged in the given region produces emissions equivalent to a gasoline vehicle with a fuel economy rating of:

31-40 MPG **41-50 MPG** **>50 MPG**

The sources of electricity generation vary by region, meaning the global warming benefits of owning an electric vehicle depend on the electricity grid where it is charged.