

Duke Energy Florida FPSC EV Roundtable

October 17, 2017



Agenda

- Introduction
- Market Overview
- DE Florida – EV Trends
- DE Florida – Growth forecasts and grid impacts
- Future Regulatory Considerations
- Duke Energy Electric Transportation Program

Electric Transportation Market – Not Just EVs

- Road

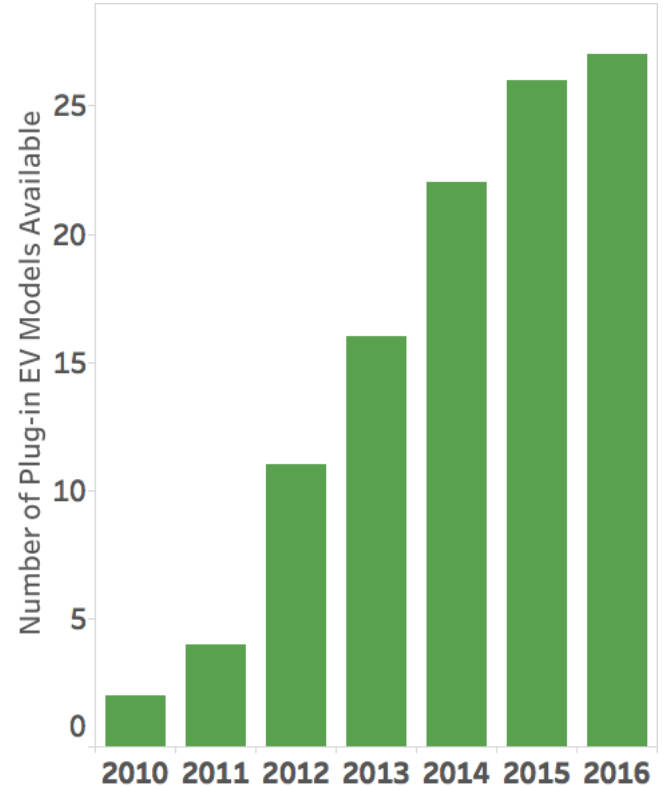
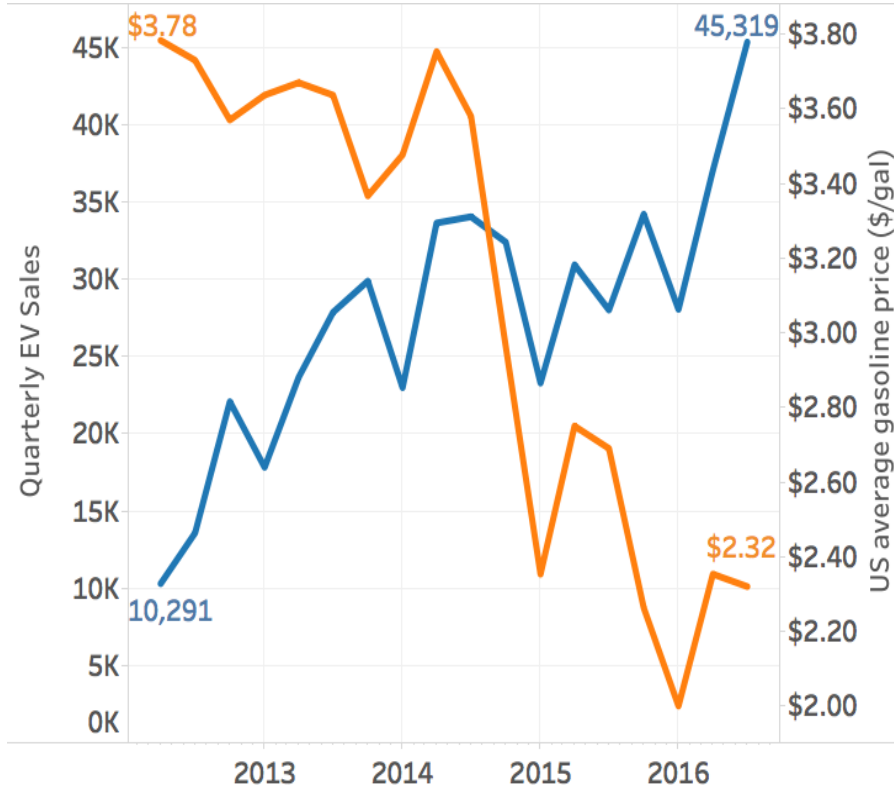


- Non-Road

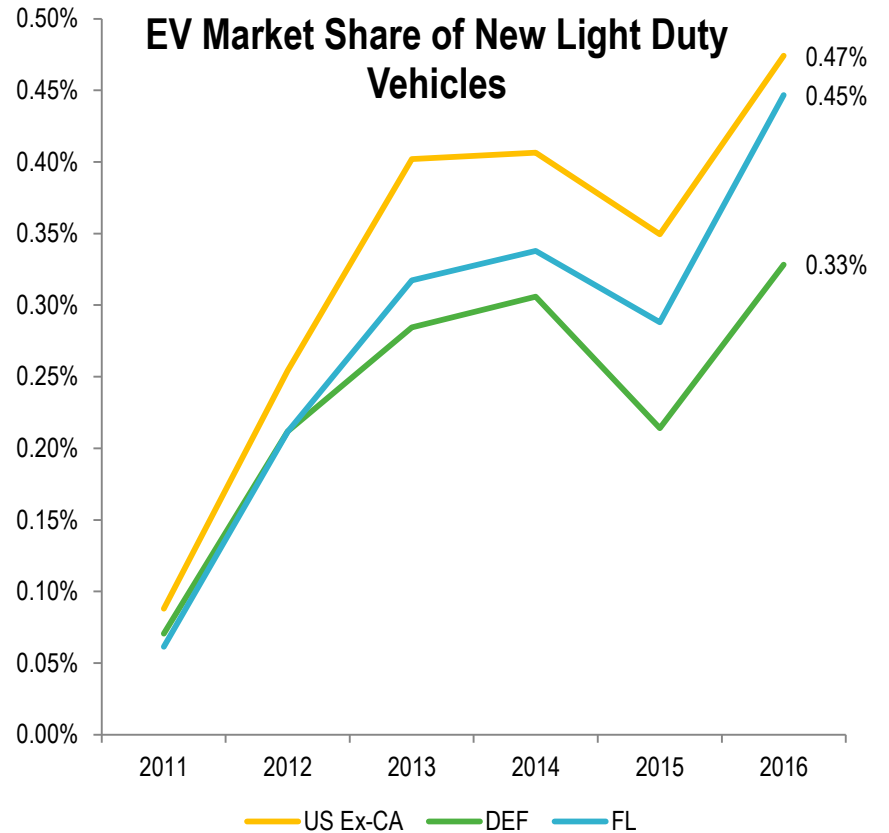
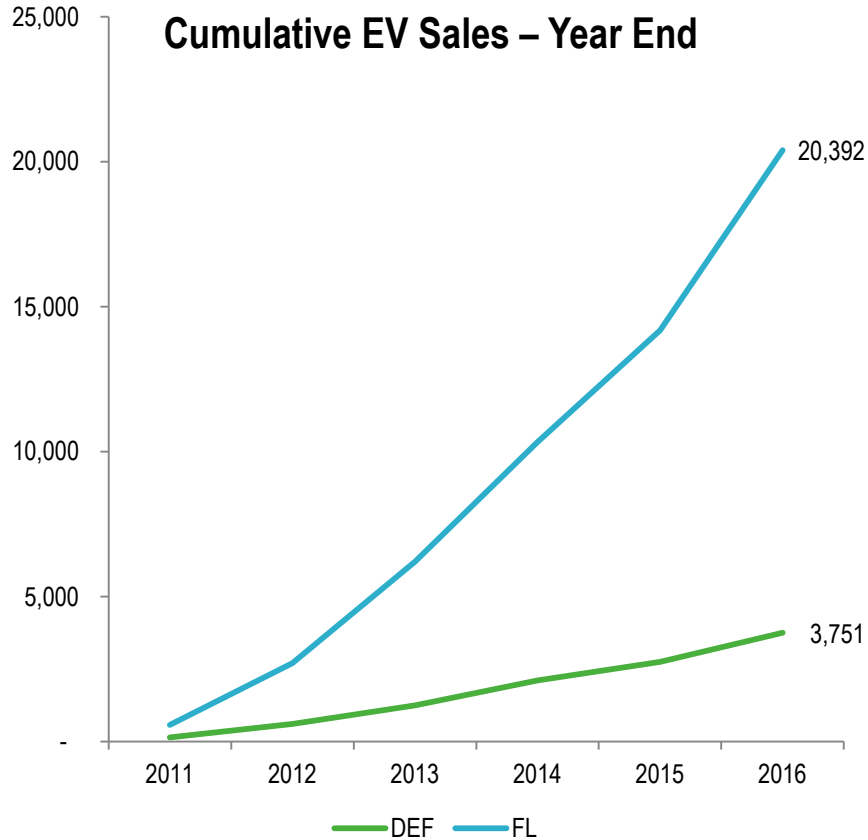


EV Market Trends

- EV sales grew 40% nationally in 2016 despite continued low gas prices due to wider selection.

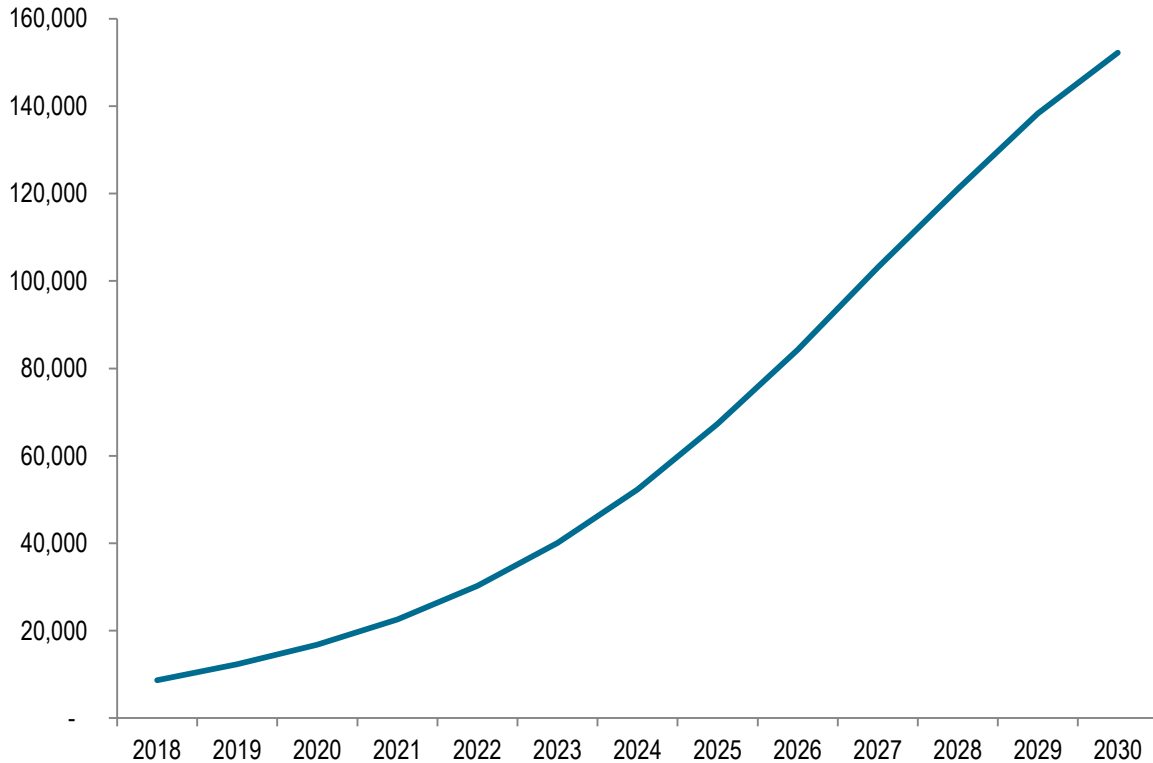


Florida – EV Sales Trends

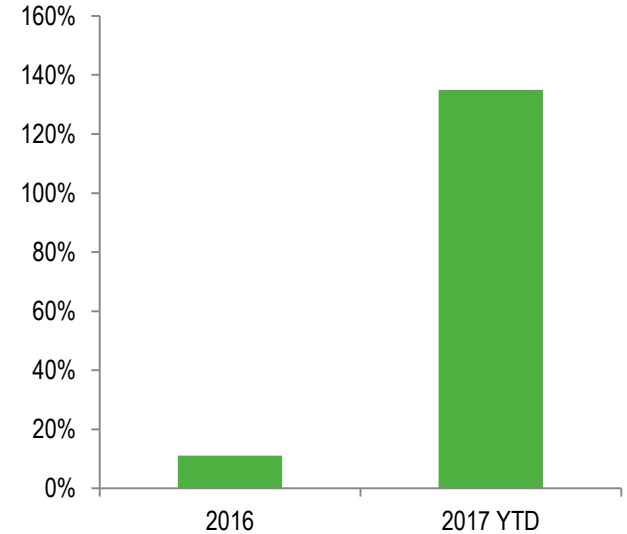


Future Growth and Grid Impacts

Current Forecast – DEF Cumulative EV Registrations



YOY Growth – DEF EV Customer Inquiries



Current 2030 Peak Impact Forecast (Unmanaged)

Summer	(HE17)	60 MW
Winter	(HE08)	5 MW

Future Regulatory Considerations

- **Rates**

- Existing rates are well-suited to EV charging.

- **Load Management**

- Continued research and analysis necessary to determine charging behavior and load impacts.

- Existing Demand Response mechanisms may be appropriate for EV charging.

DE Electric Transportation Program

Barriers to Adoption

Awareness	Infrastructure	Cost
-----------	----------------	------

Initiatives

Education and Outreach	Infrastructure Investment	Discounts/Incentives
Communications Events Resources	EV Charging Infrastructure Pilot Charging Load Research Charging Load Management	Industry Partnerships VW Settlement**