FPL: Driving the future of EVs in Florida

Jill Dvareckas
Director, Development
Florida Power & Light
• Technology company delivering affordable, clean, and reliable energy
• World’s #1 producer of renewable energy from the wind and sun
• Operating in 30 U.S. states & Canada, but Florida is our home
• Consistently ranks among Fortune’s World’s Most Admired Companies
FPL is one of the cleanest power companies in the country

Sources: FPL, historic internal data and projected from TYSP 2018; US Electric Power Sector: historic DOE data and projected from EIA AEO 2018
Electric vehicles have seen an incredible expansion in Florida

Florida EV Market Insights

- 2019 EV sales in Florida on track to meet or exceed 2018 sales
- Florida sales trending better than US sales
- Tesla Model 3 remains top selling vehicle
- Dade, Broward and Palm Beach counties continue to dominate EV registrations in Florida market
EV expansion is driven by four key factors

► Expansion driver 1: Battery costs down over 65% since 2014 and continuing to decline

► Expansion driver 2: Investments in EVs suggest worldwide transformation to electric transportation is underway

► Expansion driver 3: Investments in infrastructure by utilities preparing for the coming wave of EVs

► Disruptive driver: Autonomous vehicles. Some experts think adoption will reach an inflection point within five years

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Battery Cost Curve vs. Global Demand

2017 marked the first year that the transportation sector emitted more carbon than the electric sector in Florida.

**FL Total CO2e Emissions**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Florida Electric Power</th>
<th>Total Florida Transportation</th>
<th>Total Florida Res., Comm., Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>110</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>2005</td>
<td>120</td>
<td>110</td>
<td>60</td>
</tr>
<tr>
<td>2010</td>
<td>130</td>
<td>120</td>
<td>70</td>
</tr>
<tr>
<td>2017</td>
<td>140</td>
<td>130</td>
<td>80</td>
</tr>
</tbody>
</table>

**FL Emissions by Transit Mode**

- **Light Duty**: 62%
  - Cars: 30%
  - CUVs: 4%
  - SUVs: 12%
  - Vans/Minivans: 6%
- **Medium Duty**: 10%
- **Heavy Duty**: 9%
- **Aviation**: 11%
- **Marine**: 8%
- **Rail (1%)**: 1%

**FL Total CO2e**

- 37.6 MMT CO2e

**Sources:** EIA Emissions Data, EIA Electricity Data, EIA Monthly Energy Review, FPL Data, U.S. DOT, Auto Alliance, EPA, DOE Fuel Economy Data, Accenture analysis

Note: Residential, commercial, and industrial emissions excludes those associated with electricity purchases.

FPL has an opportunity to play a major role in the decarbonization of the transportation sector in Florida.
FPL is a proponent of transportation electrification

**FPL EV Strategy**

► Support infrastructure development

► Raise public awareness of EVs

► Expand EV fleets

► Engage government officials and commercial customers

► Encourage supportive EV regulatory and legislative policy
FPL launched an electric vehicle pilot in 2019 to gain insights as adoption is starting to expand in Florida.

**FPL EVolution Pilot**

<table>
<thead>
<tr>
<th>Segment</th>
<th>Locations</th>
<th>Handles</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Fast Charging</td>
<td>Highway service centers, Gas stations, Bus depots</td>
<td>90</td>
</tr>
<tr>
<td>Workplace &amp; Fleet</td>
<td>Public or private workplaces</td>
<td>1,000</td>
</tr>
<tr>
<td>Destination</td>
<td>Shopping plazas, Malls, Sporting venues, Hotels</td>
<td>100</td>
</tr>
<tr>
<td>Residential</td>
<td>Customer homes</td>
<td>50</td>
</tr>
</tbody>
</table>

- **Scope:** $10 MM program deploying 1,200 charging handles across four charging segments
  - 3 year deployment plan, with learnings over 10 year life of asset

- Partnership with West Palm Beach for five electric school buses
- Bus batteries will be owned by FPL and flow back power during system peak
- Focus on implications of vehicle to grid technology ahead of mass adoption

Pilot aims to study utilization, adoption, rate structures, power quality, and customer experience.
FPL is expanding the pilot to help build a reliable DC fast charging network to enable effortless cross-state travel

**FPL EVolution Pilot – DC Fast Charging Expansion**

- **Expansion strategy will deploy an additional $10 MM to begin build out of statewide DCFC network**
  - Address gaps to enable long distance travel, reduce range anxiety, and enable evacuation routes

- **Originations will be strategically focused on siting and spacing**
  - Highway corridors: Turnpike, I-95, I-75, I-10, SR-70, and SR-80
    - Selected by State to install chargers at all in-territory Turnpike Service Plazas
  - Major destinations

![Current Charging Infrastructure]
Thank You