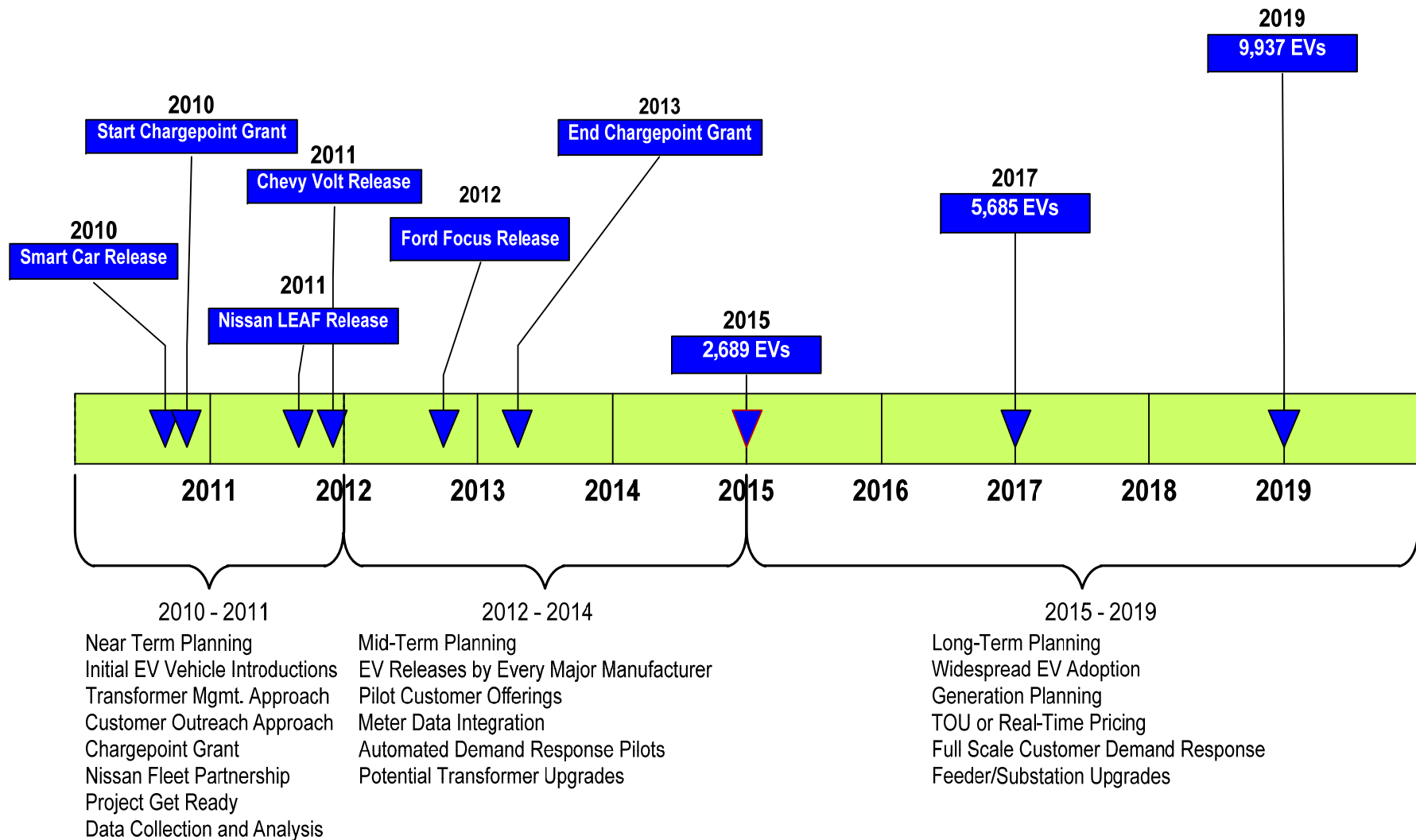


# OUC's Electric Vehicle Infrastructure Efforts

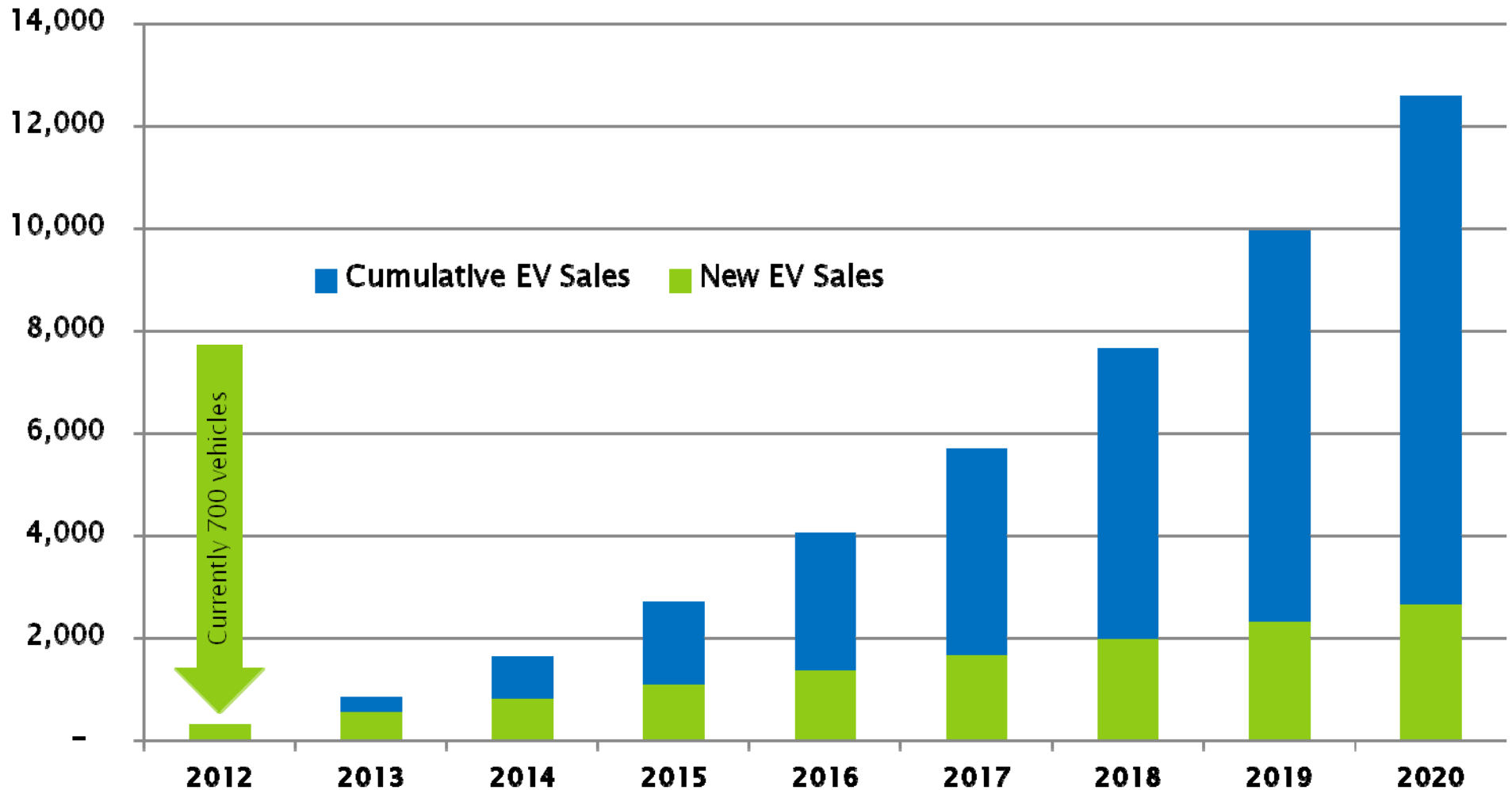
Jennifer S. Szaro – Orlando Utilities Commission  
FPSC Workshop - September 6, 2012



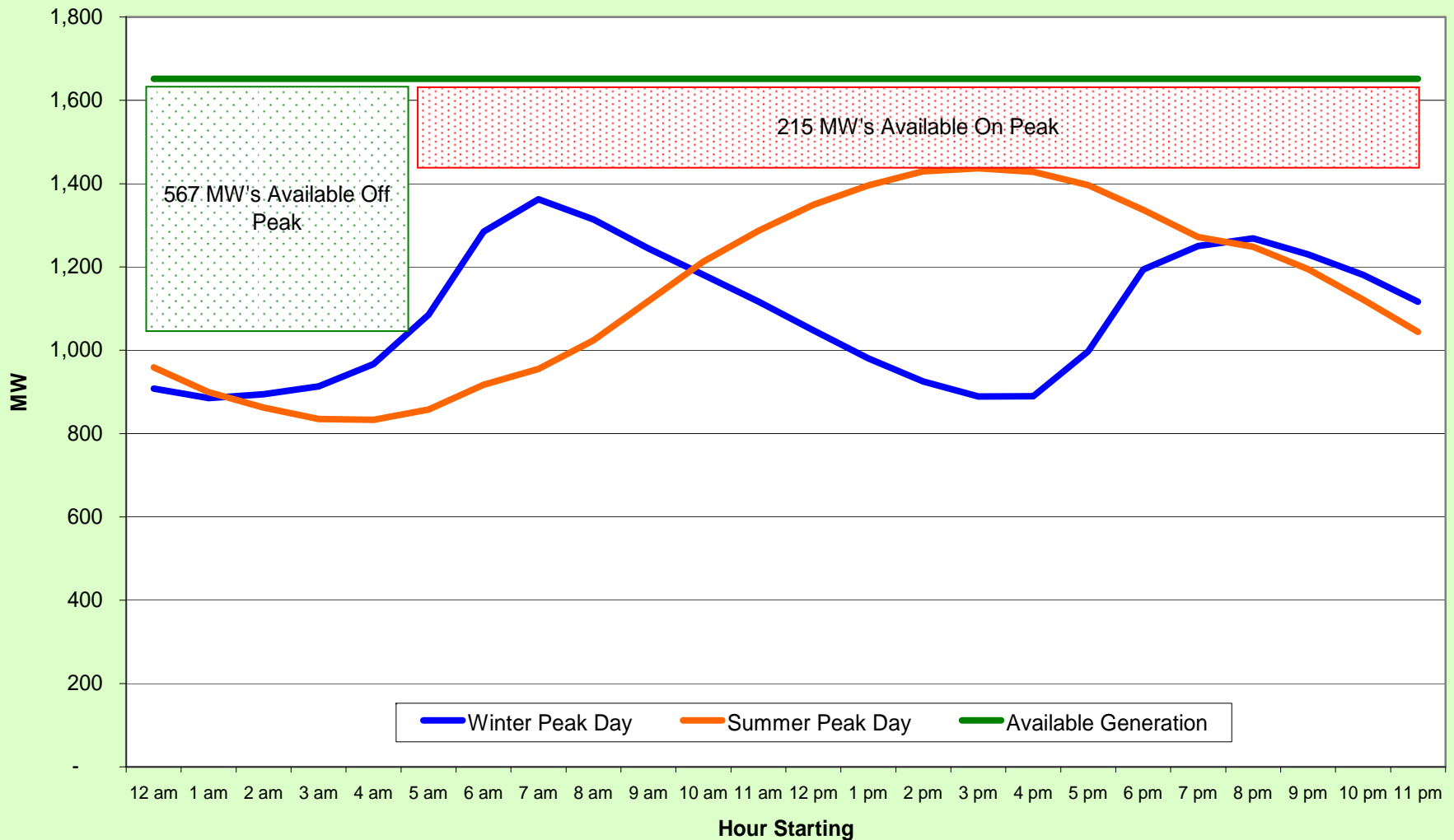
# OUC's EV Roadmap



# EV Sales Forecast within Orlando Region



### Generation Available for EV Charging Fiscal Year 2010 - 2011



\*Sufficient capacity for nearly 30,000 EVs on-peak or 78,000 during off-peak

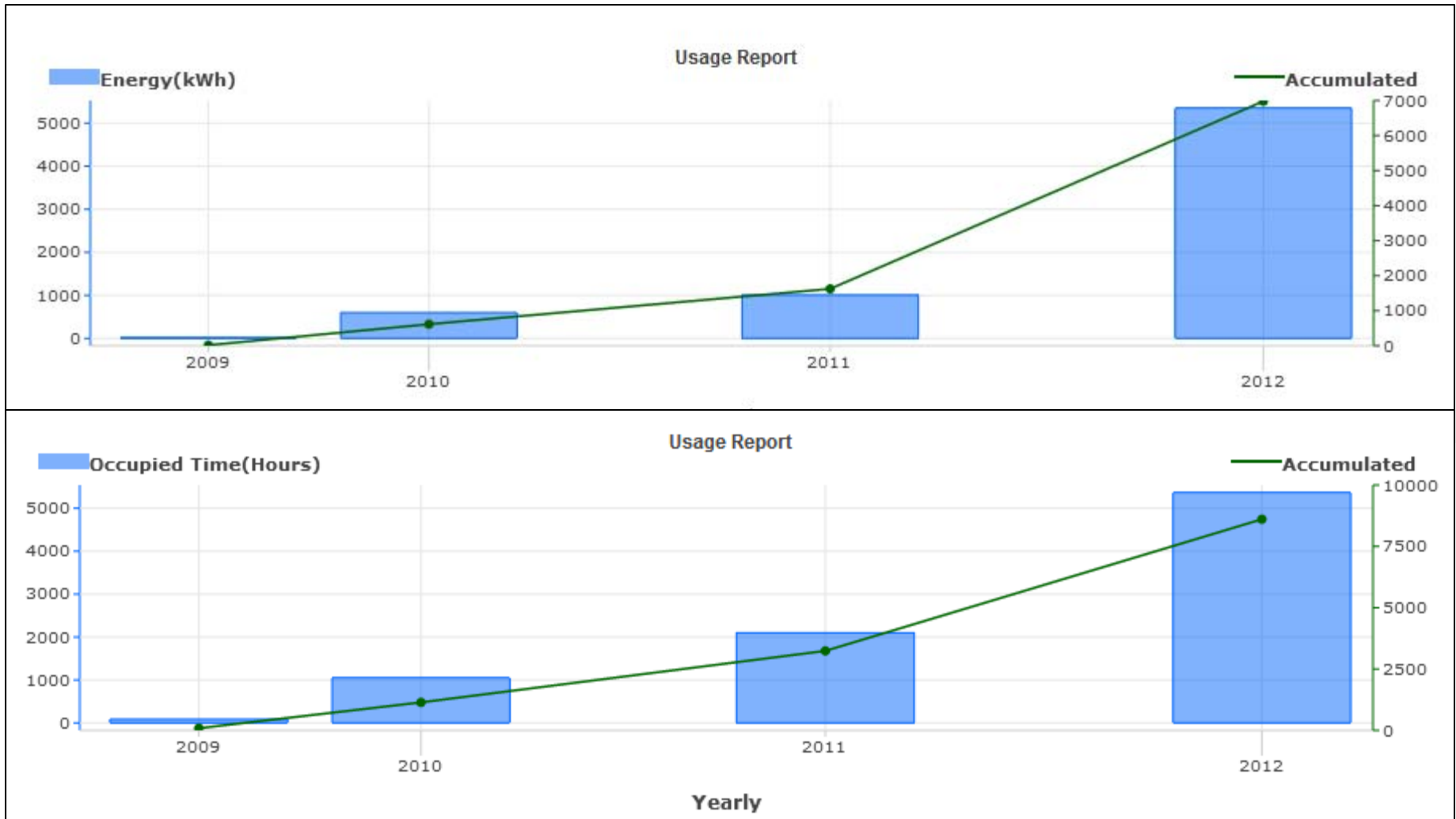


# Charge Point America Partnership

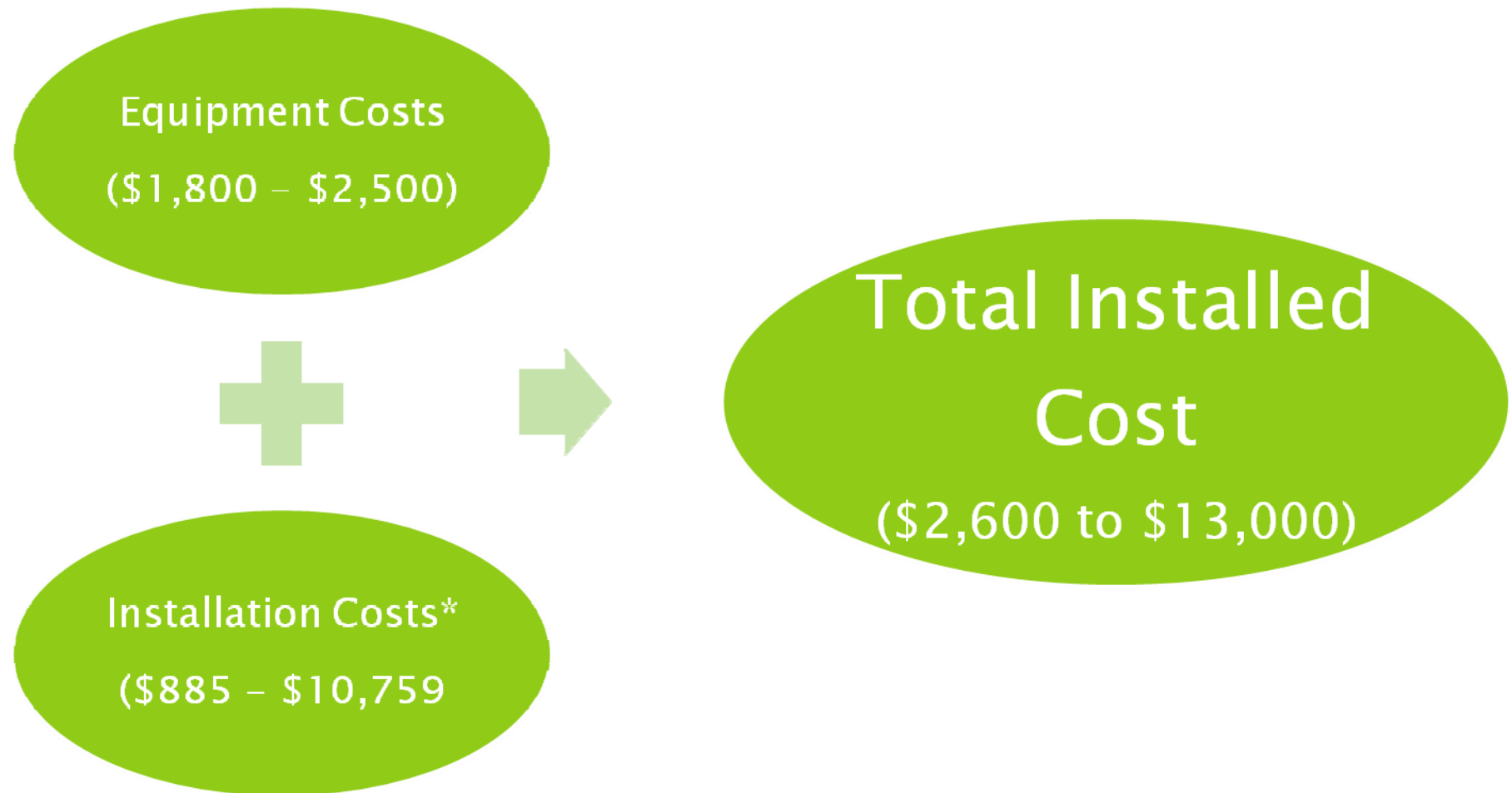
- ▶ 96 public stations planned or installed
  - Public/Workplace charging
  - 20 percent customer-owned and 80 percent OUC-owned
- ▶ Two-pronged deployment
  - OUC provides up to \$2,500 for customer-owned units (customer operates unit)
  - OUC holds site license with host customer for OUC-owned units (OUC operates unit)
- ▶ Working with four EVSE installers
- ▶ 78 OUC-owned Coulomb units installed to date
  - 2,575 charging sessions to date
  - 8,642 KWH sold to date
  - \$452.20 in fees collected to date\*
  - Average session usage is 5.8 KWH
  - Average session time is approximately 4 HRS
  - Roughly 20% workplace charging (468 sessions)



# Charging Station Usage Statistics



# Level 2 EVSE Installation Costs



\*Data based on the installation of 63 stations in Orlando, FL

# Program Challenges

## ► Site Identification

- Customers struggled with perceived liability concerns of public charging
- Resistance to make investment without more vehicles present (chicken-egg)
- Difficulty filling geographic “gaps”
- Often limited parking in key locations

## ► Equipment Installation

- Directional boring through asphalt and concrete
- Long secondary runs (> 250 FT) due to location selection
- Additional step-down transformers to convert voltage from 277/480 to 120/208 V

## ► Fee Development and Collection

- Industry software/hardware has limited capabilities
- Additional surcharges difficult to collect – currently using GSND rate with no additional cost recovery
- Significant utility IT upgrades required to remove third party from revenue collection
- Considered offering flat rate customer charge (i.e. Austin model)





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