

# RI Power Sector Transformation Con Edison Experiences

**May 31<sup>st</sup>, 2017**

# Electric Vehicles are Part of a Larger State Energy Plan

## Headline Targets

40% reduction in Greenhouse Gas (GHG) emissions from 1990

50% of electricity generation from renewable resources

Statewide energy efficiency increase

## Guiding Principles

- Market transformation
- Community engagement
- Efficiency
- Private sector investment
- Innovation and technology
- Customer value and choice

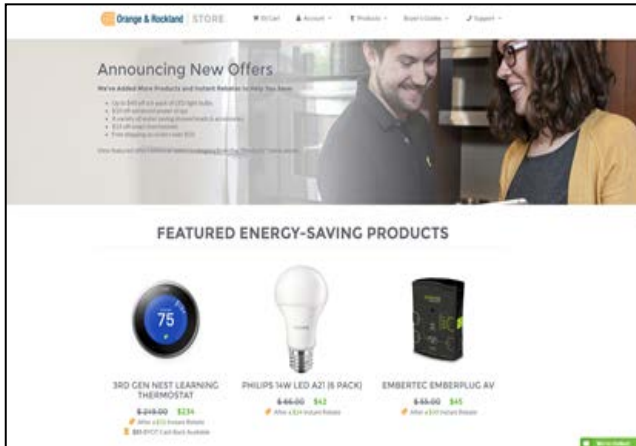
## Regulatory Mechanisms

- **Reforming the Energy Vision (REV)**
- Clean Energy Standard

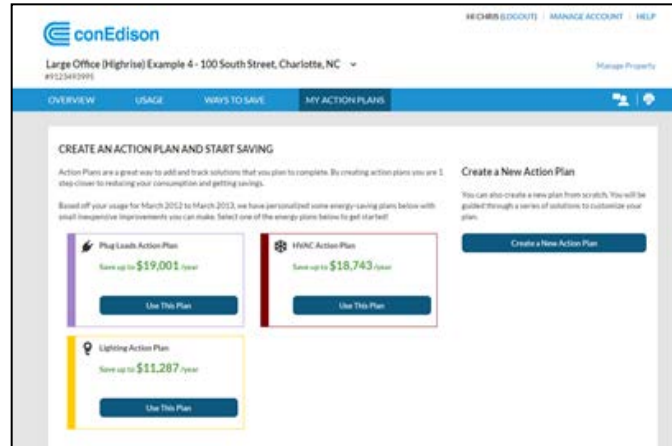
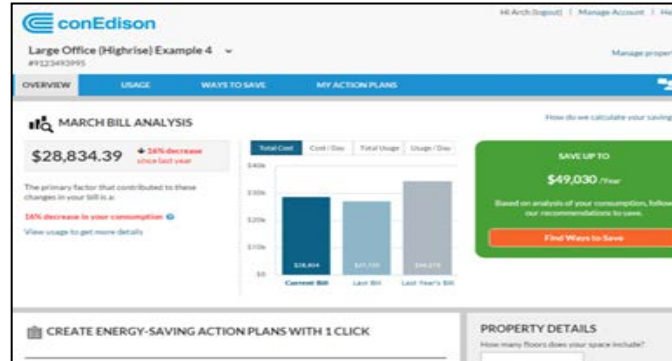


# Con Edison REV Demonstration Projects

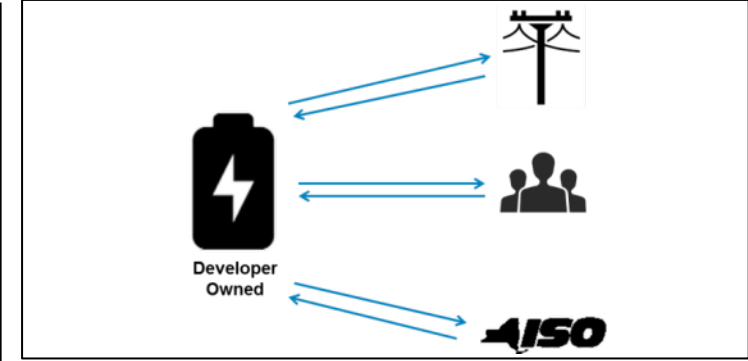
## Residential Marketplace



## Commercial Marketplaces



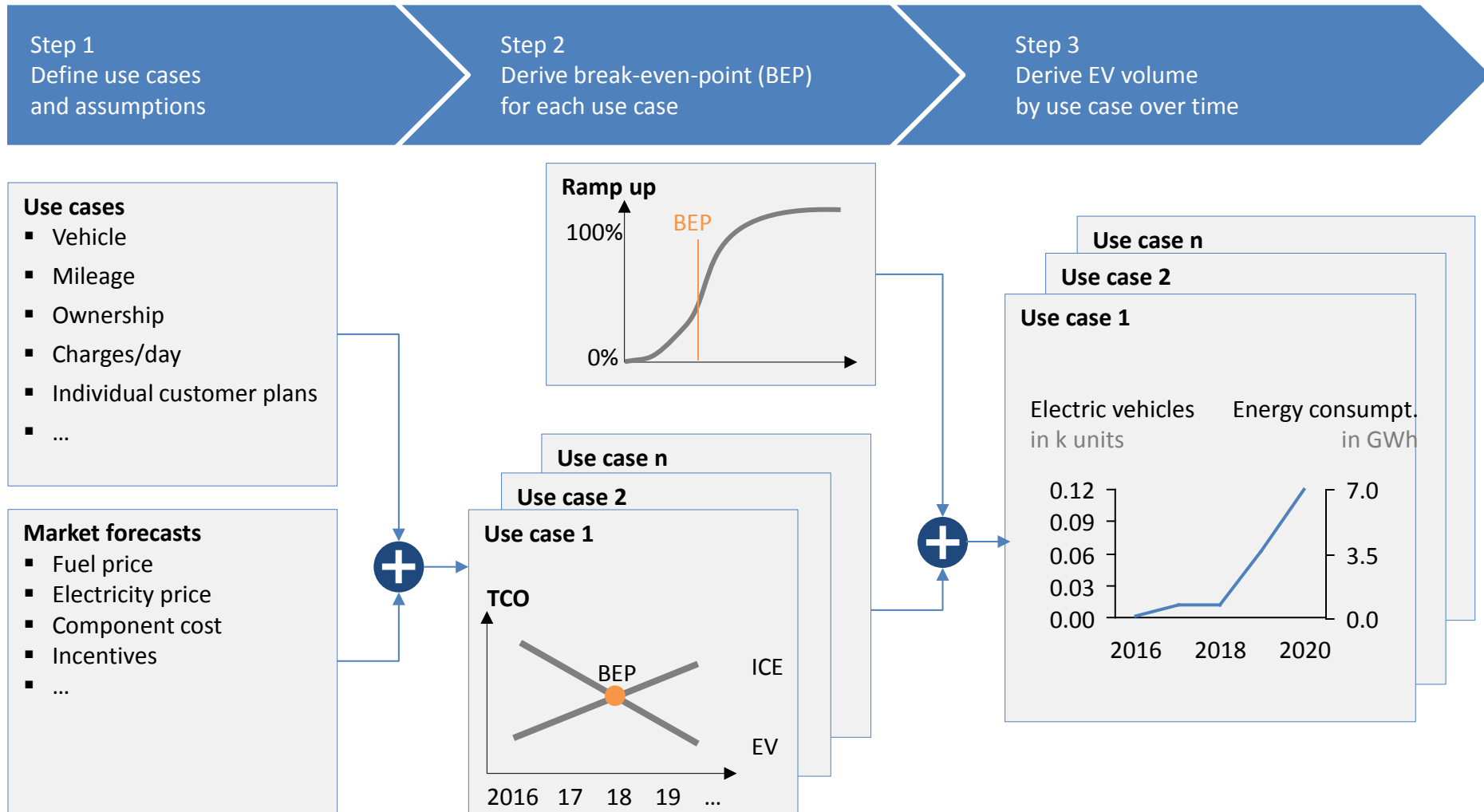
## Low & Moderate Income & Energy Storage



## Future Projects

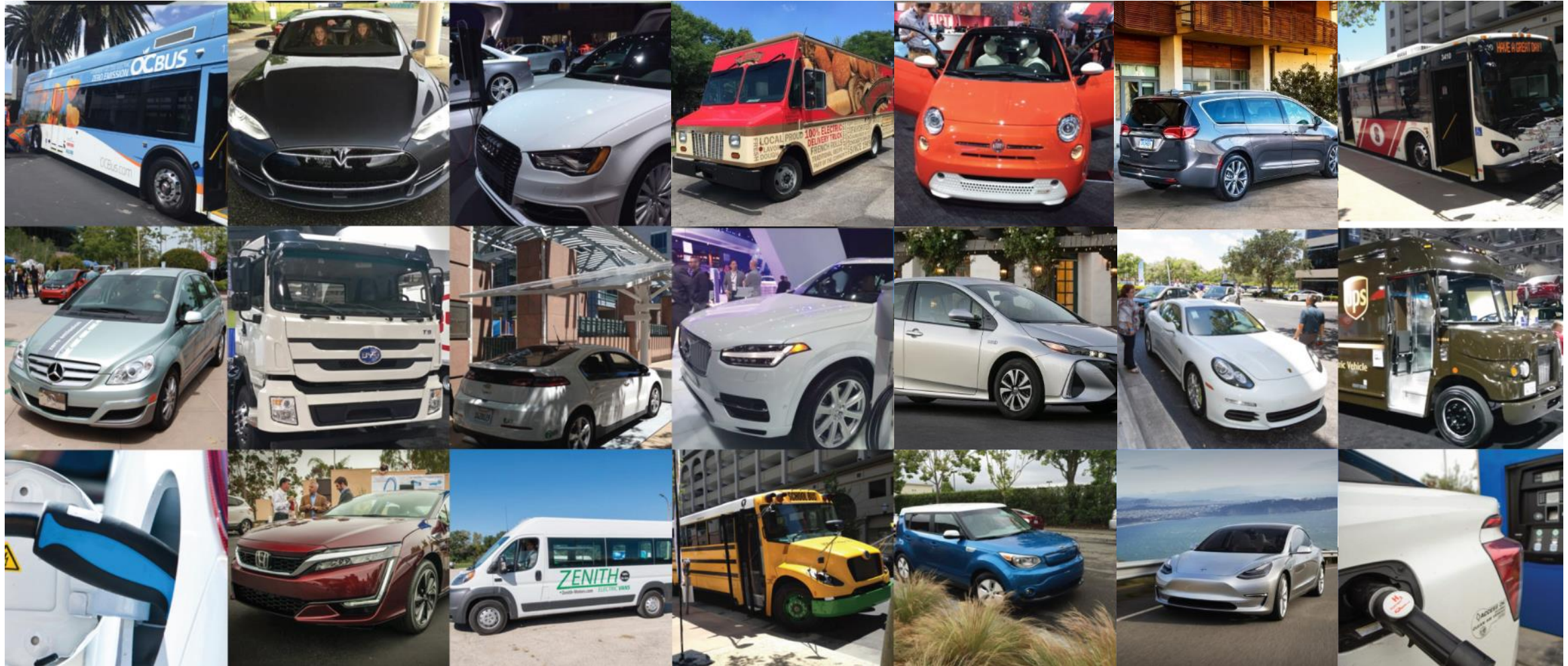
- Develop new demonstration projects via Request for Information (RFI) process

# Market Size Estimation

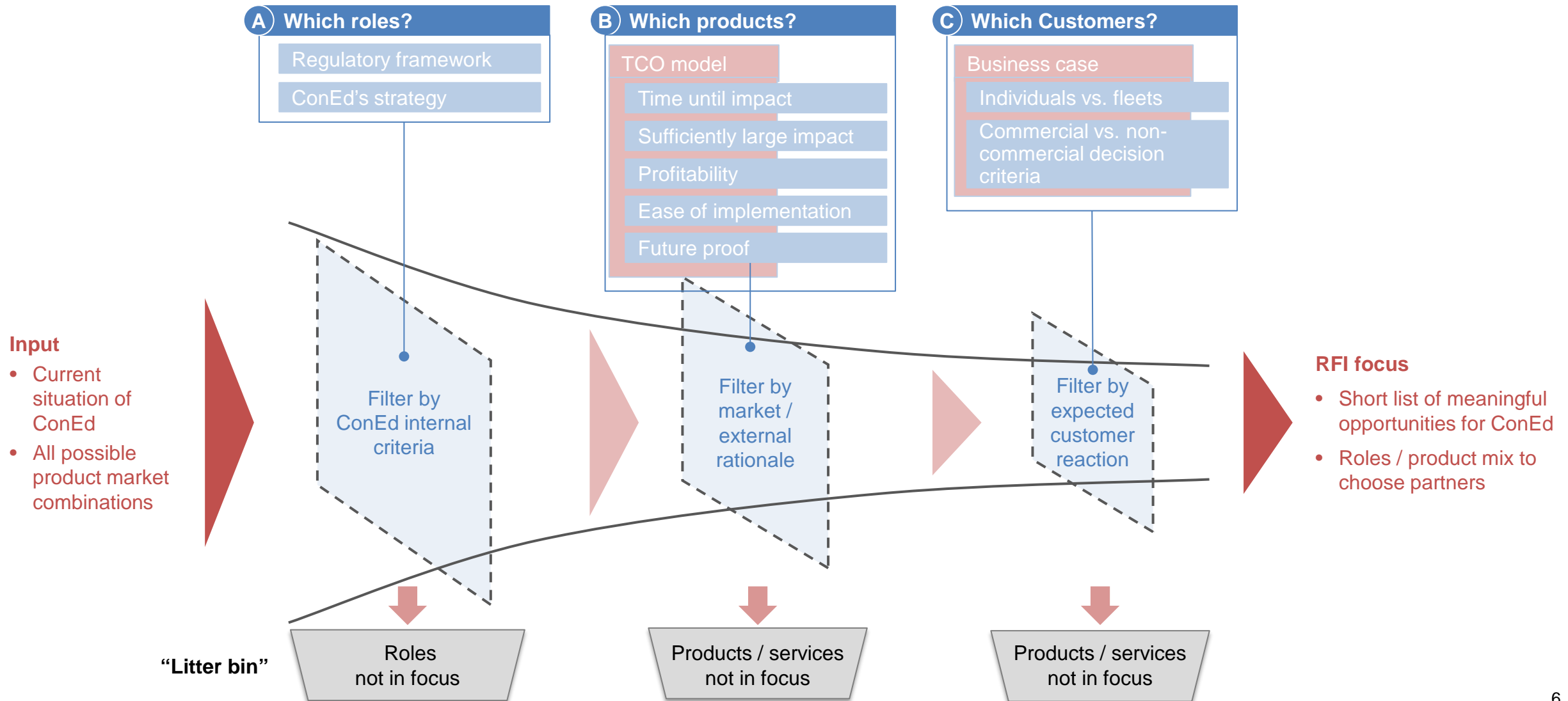




# Electric Vehicle Market Phases



# Con Edison Filtered its Target Areas Based on Several Criteria





# Sample of Examined Use Cases



Transit Buses



School Buses



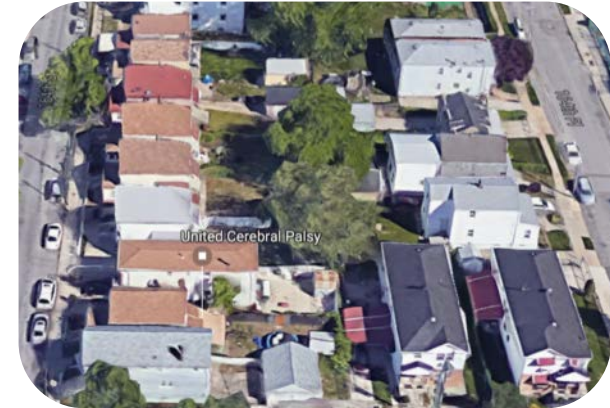
Taxis



Distribution Vans



Ride-hailing Cars



Passenger Cars w/  
Home Charging

## RFI Focus Areas (1 of 2)

### Network Planning

- Con Edison can create network design, data access & analytics services

### Smart Home Charging

- Smart L2 home charging can be deployed to effectively shift PEV load to off-peak hours with little inconvenience for customers

### Transit Bus Charging

- Charger management is useful for fleet deployments of electric vehicles, including but not limited to transit buses



## RFI Focus Areas (2 of 2)

### L2 Curbside

- L2 curbside charging can be achieved with a positive impact on overall customer bills through increasingly efficient installation and rising utilization

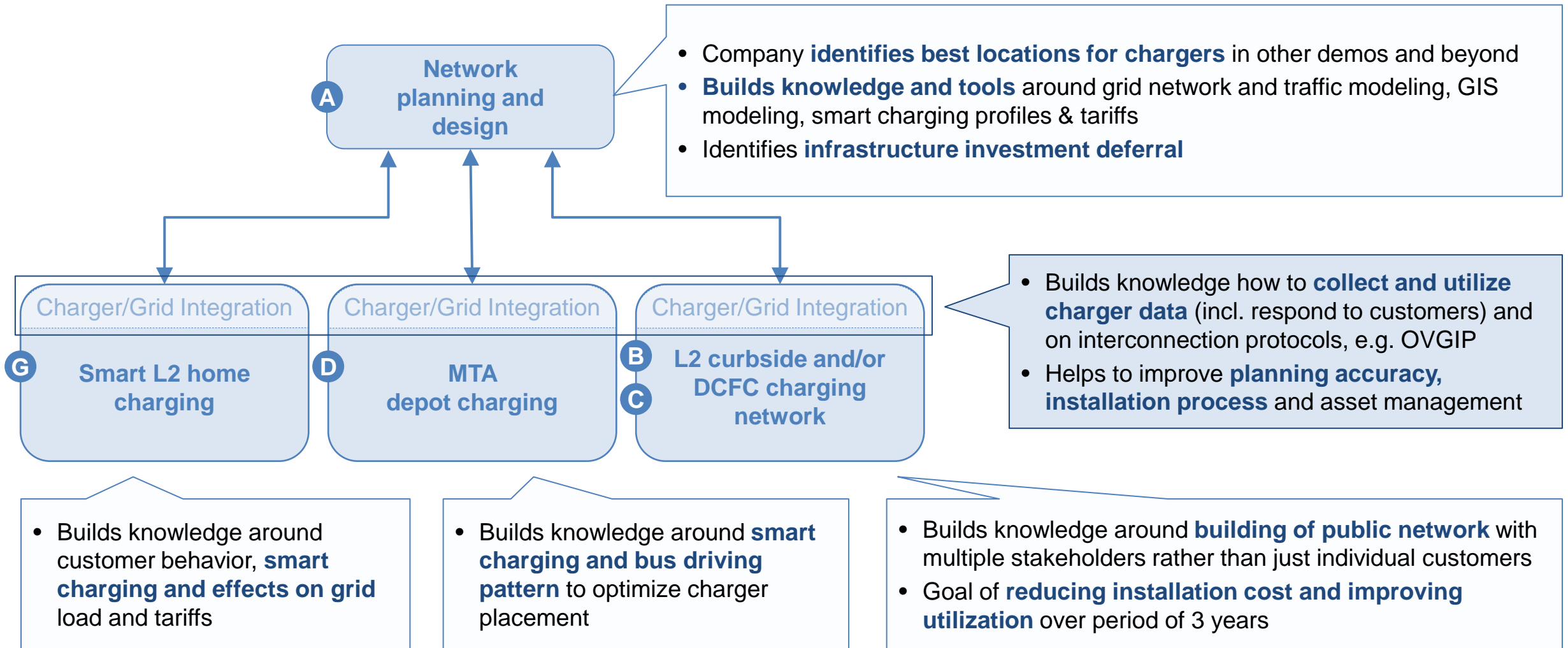
### DCFC Stations

- Company plans to work with hardware manufacturers and charger providers to test various deployment styles of fast charging (greater than 50 kW).

### v2g School Buses

- Electric school buses can transport children in the cleanest possible vehicles during the school year and serve as dedicated DERs in the summer.

# Different Focus Areas Share Underlying Skills



# Electrification of Transportation RFI

- **Up to \$25 million.**
- **Three major goals:**
  - Replace ICE (Internal Combustion Engine) miles with PEV passenger miles
  - Optimizing the utilization of the electric infrastructure
  - Inducing private sector capital and/or other resources (such as a commitment to utilize electric vehicles)
- **Solicitation closes June 19<sup>th</sup>**

**Go to: [coned.com/evrfi](https://coned.com/evrfi)**



Next Steps,  
Thank You, &  
Conclusion

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