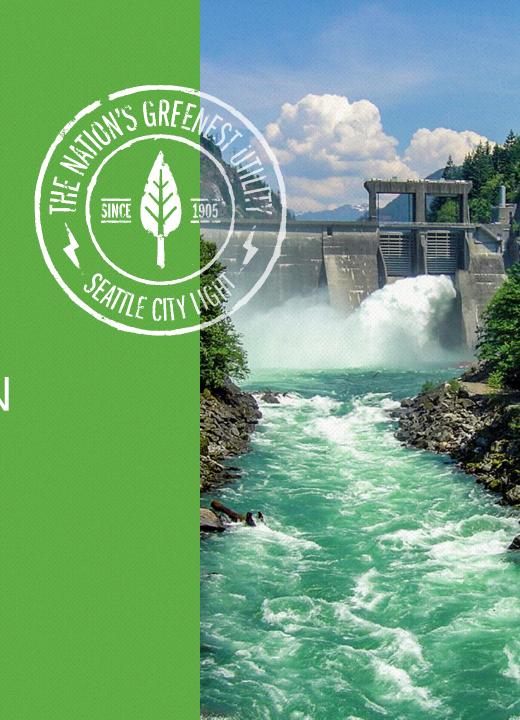




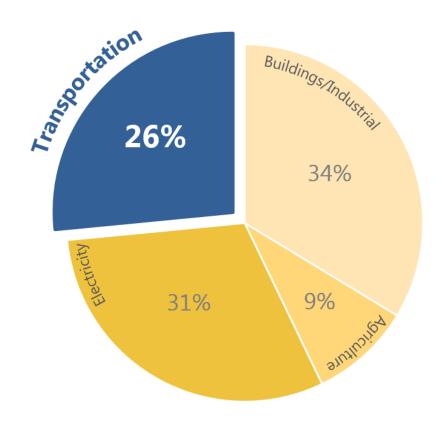
Brendan O'Donnell Seema Gosh

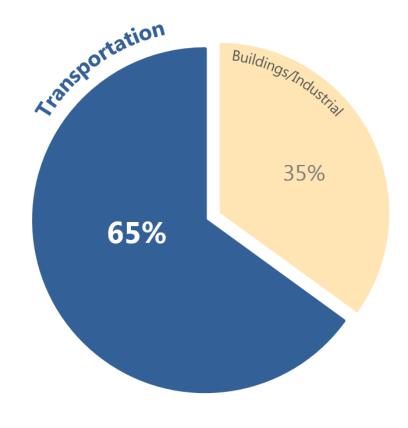


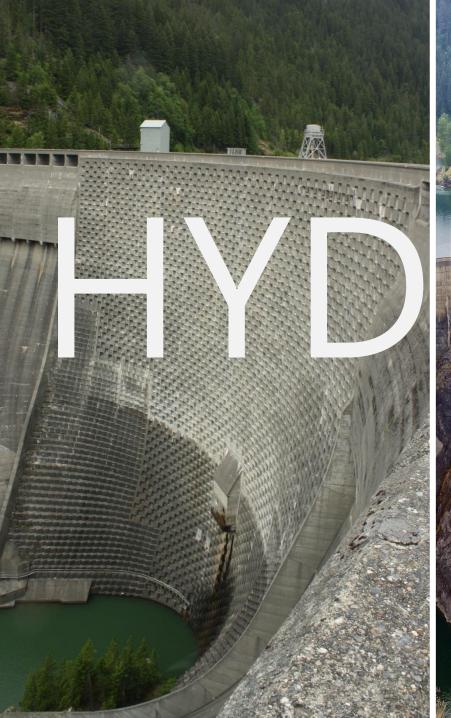
CARBON EMISSIONS

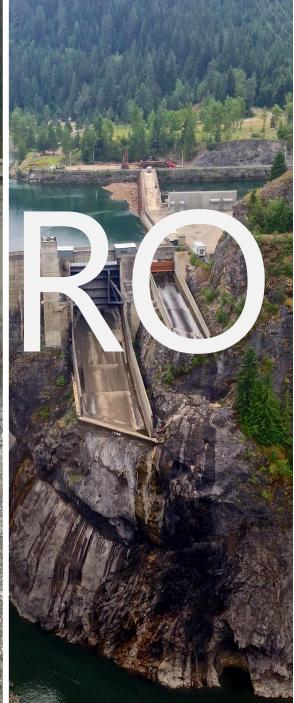






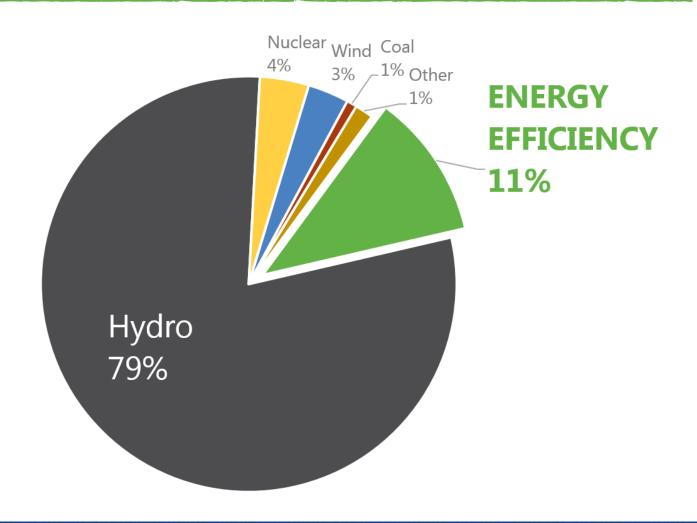






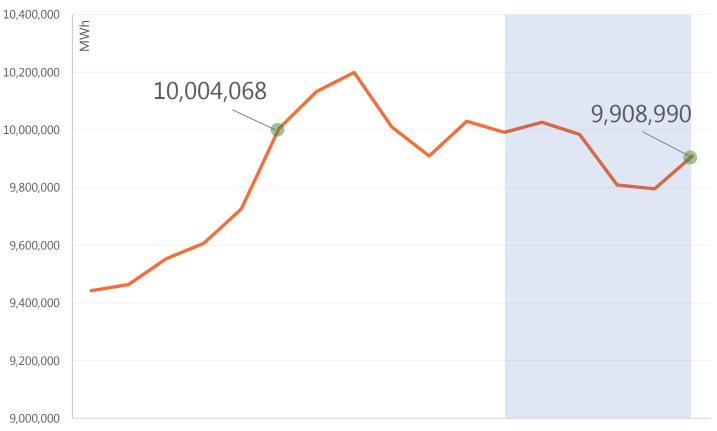


CURRENT CITY LIGHT RESOURCES



ANNUAL LOAD

weather adjusted



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017



Seattle aims to be carbon neutral by 2050

Carbon neutrality requires a rapid transition from fossil fuels in the **transportation sector**

Building on the legacy of Seattle City Light by leveraging clean electricity

CITY LIGHT EV PLANNING

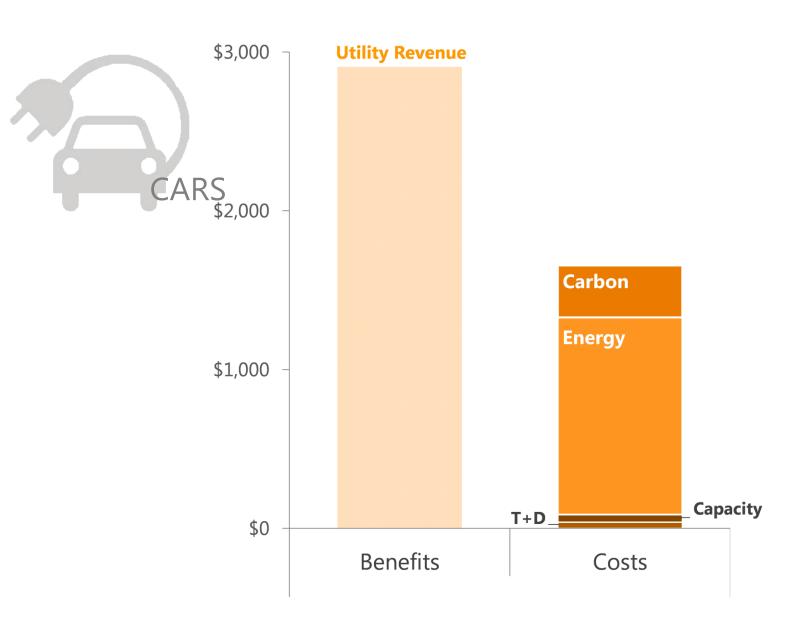
Completed business case in early 2016 with a cross functional team from across utility

- 1 What is the value of transportation electrification to our customers?
- 2 How will our infrastructure be affected by the change in load?
- 3 What is the best role for City Light in the electric transportation market?

CITY LIGHT EV PLANNING

• Findings:

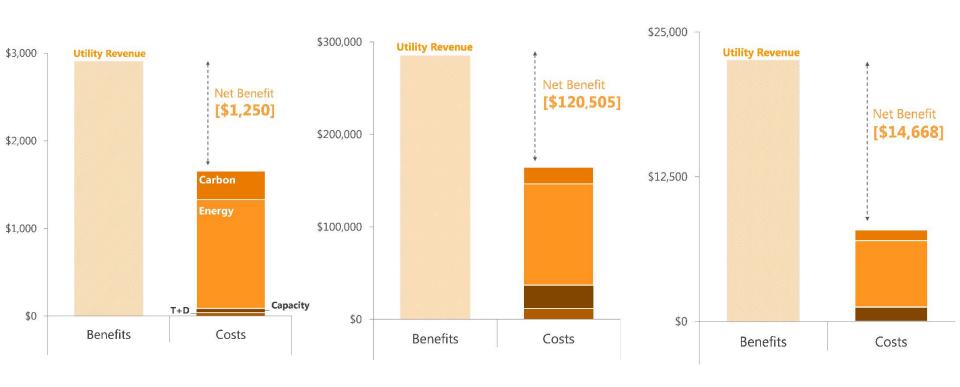
- There is a net benefit for vehicle charging
- The distribution system can largely handle the increase in transportation load
- Very strong customer demand, particularly electrification of the shared transportation sector











PUBLIC CHARGING PILOT

- Public Fast Charging Program
 - 20 stations starting at 10-15 sites
 - Charge most of a vehicles battery in less than 30min
 - At least initially, City Light will own stations and contract O&M
 - Both right-of-way and off street installations



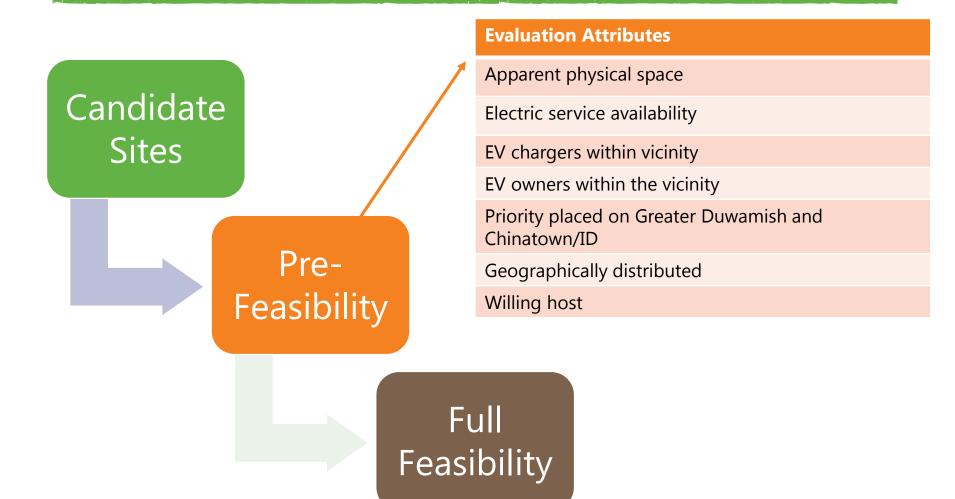
PUBLIC CHARGING PILOT

- Technology
 - DC Fast Chargers
 - 50-70 mile range for 20-minute charge
 - High power requirements
 - Other Technologies
 - Level 2 10-20 miles for 1-hour charge
 - Level 1 2-5 miles for 1-hour charge (typically home charging)
- Fee
 - Will be developed to recover both fixed and energy costs



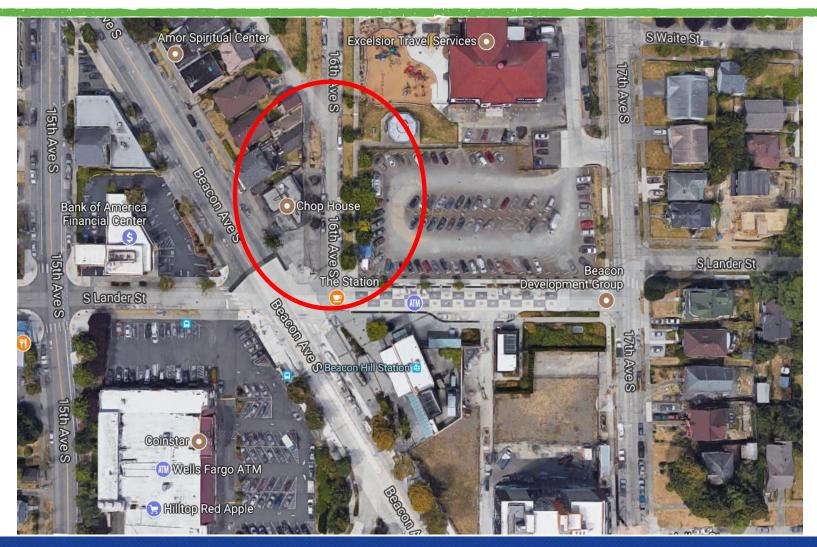


SITING





SITE 1 – BEACON HILL (16TH & LANDER)



SITE 1 – BEACON HILL (16TH & LANDER)

Two Charging Stations



New Service Drop

