

ELECTRIC TRANSPORTATION STRATEGY

Review Panel June 25, 2019



CONTEXT

How did we get here?



Seattle aims to be carbon neutral by 2050

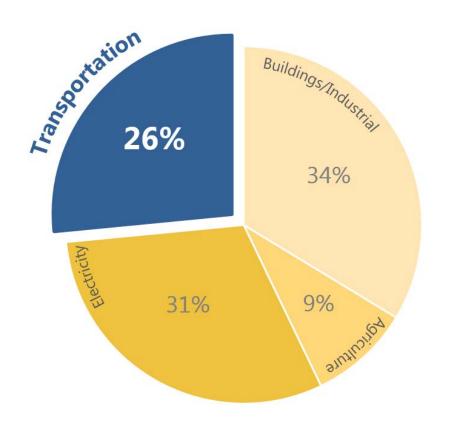
Carbon neutrality requires a rapid transition from fossil fuels in the **transportation sector**

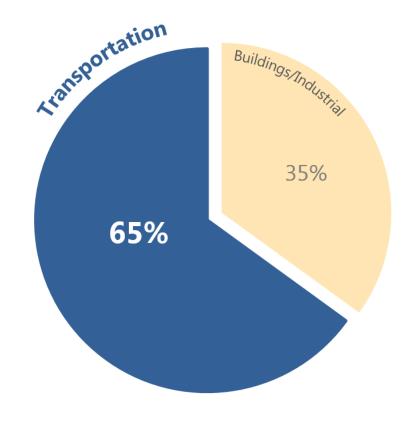
Building on the legacy of Seattle City Light by leveraging clean electricity

CARBON EMISSIONS









WHAT IS CITY LIGHT DOING NOW?

Public Charging Pilot

Install 20 public fast charging stations

Residential Charging Pilot

Full service program for equipment & installation

Heavy Duty Pilots

King County Metro & Kenworth/UPS



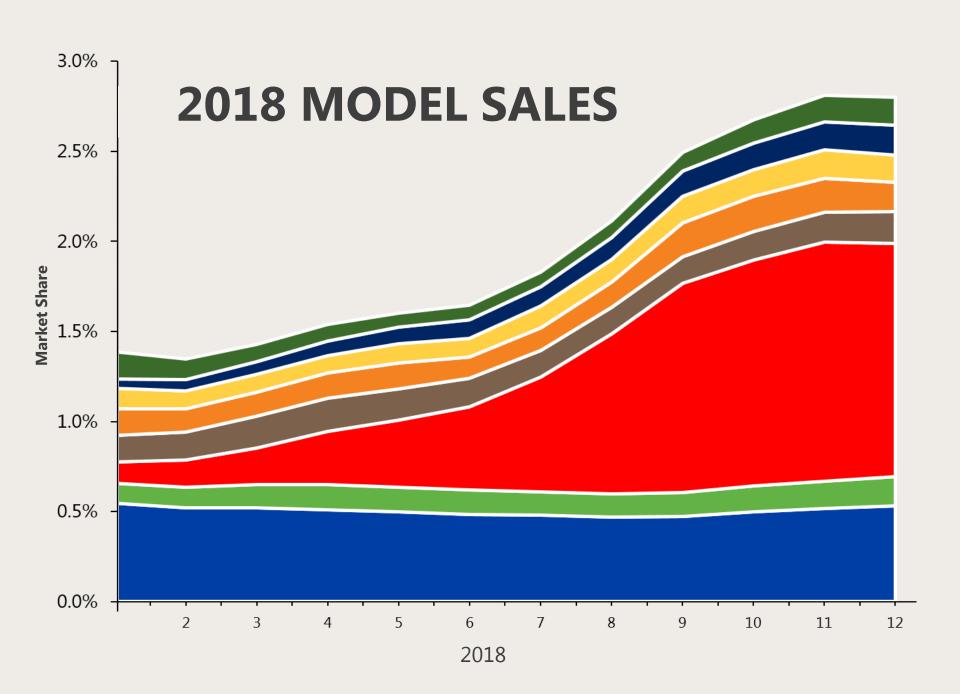






WHAT'S CHANGED?

Markets and policy









Strategy Priorities going forward

KEY QUESTION

What is the ideal role for Seattle City Light in the evolving market?



SEATTLE CITY LIGHT

TRANSPORTATION ELECTRIFICATION STRATEGY FINAL REPORT





SPONSOR Jim Baggs

+ EX. STEERING Lynn Best, Emeka Anyanwu, Paula Laschober

Administrativ

e Services



Brendan O'Donnell



Customer Service, Communication s & Regulatory



Race and Social Justice

Reagen Price



Engineering

Technology

Innovation

&

System Planning



Environment

Land, and

Licensing

Climate



Financial

Services

Rates



Transmissio

Distribution

Operations

n and

Risk



Seattle Office & Environment





City Policy







Seema Ghosh

Scott Cooper

Electric Service

Program Management

What is the ideal role for Seattle City Light in the evolving market?

Value Framework:
 What are City
 Light's priorities?

2. Market Intelligence: What is the market doing and where are the opportunities?

3. Impact to the Utility
Business: How will
electrification impact our
system and how we
address these risks?

4. What interventions should we pursue?

Equity

- Racially-inclusive collaboration and engagement
- Benefits extend to underserved communities

Environment

- Improve air quality and public health
 - Reduce traffic congestion

City Light Interventions

eflect these three core values

Grid

- Optimize asset utilization
 - Avoid upgrades
 - Ensure reliability and resiliency





Personally owned vehicles



Buses



Medium-duty trucks



Heavy-duty trucks









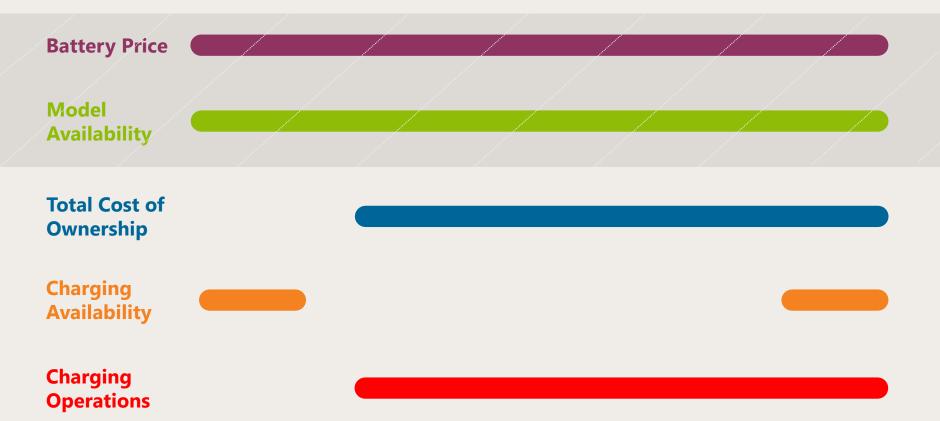




Medium-duty trucks

Heavy-duty trucks

Shared mobility



Recommendations

1 Invest in charging infrastructure with emphasis on universal access and expanding coverage

Continue to drive the robust development of public charging

Deploy City Light-owned DCFC

Explore make-ready investments or equipment incentives to support private DCFC deployment

Support expanded residential and workplace charging with an emphasis on multi-unit dwellings and underserved communities

Target customers for which cost and feasibility of charging are significant barriers.

Provide incentives and technical expertise for residential and workplace charger installation

Invest in charging infrastructure for shared mobility applications, including car sharing and ride-hailing

2 Develop new rates and improve customer service for the transportation market

Pursue rates that meet the needs of electric transportation customers

Explore and pilot transportation-specific rate designs

Understand the impact of demand charges on large customers and DCFC operators

Improve core City Light business processes for customers investing in charging

Create a streamlined and transparent interconnection and service upgrade process

Consider new queues for electric vehicle customers

Evaluate service policies, eg. one site one service

Investigate the viability of managed charging

Establish standards for residential smart charging

Explore demand response programs

3 Prepare for heavy duty electrification

Support the aggressive electrification commitments of partner agencies and large customers

Partner directly with King County Metro, the Port of Seattle and Washington State Ferries

Develop a deep expertise of customer needs and respond with a broad suite of solutions—responsive rates, incentives, grid infrastructure, technology demonstration and siting analysis

Proactively plan for large loads

Anticipate how access to charging will influence urban freight and fleets markets

Monitor key market tipping point metrics and engage with local fleets, such as Kentworth, UPS

Develop packaged charging solutions, including financing, make-ready investments, smart charging and incentives charging depots

WHAT HAPPENS NEXT?

HB 1512

Clear authority for transportation programs

Incentives, rebates, services, etc

Requires plan approved by City Council

Documents approach and rate impacts (<0.25%)

ACTION PLAN

June 14th – Stakeholder workshop to communicate strategic plan

June – Assemble core team across the utility

Define framework City Light will use to develop new offerings and create Seattle Municipal Code language

Programs

Rates

Standards

Interconnection process

Research

Dec 2019 – City Council



