WHAT IS TRANSPORTATION ELECTRIFICATION?

• Moving people, goods, and services around the greater Seattle area using Seattle City Light’s clean electricity

• Electrifying Seattle’s entire transportation system
  - buses
  - personal vehicles
  - rideshare
  - ferries
  - heavy-duty vehicles
  - goods delivery
  - local government and commercial fleets
CITYWIDE COORDINATION ON TRANSPORTATION ELECTRIFICATION
BENEFITS

No dirty soot comes out of tailpipes of electric buses or cars.

Vehicles powered by our clean electricity have zero carbon emissions and do not contribute to our climate pollution.

Average of 50% savings in annual operating costs for electric vehicles over gas-powered vehicles.

Mass adoption of electric vehicles can help keep electricity prices low for all.
CITY LIGHT’S ROLE

- Developing programs to enable and promote bus, car and truck electrification
- Reliable and affordable charging
- Act on HB 1512’s clear authority
TRANSPORTATION ELECTRIFICATION VALUES FRAMEWORK

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

- **Environment**
  - Improve air quality and public health
  - Reduce traffic congestion

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

City Light Interventions reflect these three core values.
EMBEDDING STAKEHOLDER ENGAGEMENT

Strategy Report
• Received feedback on Strategy Report created with Rocky Mountain Institute that we need to include community wants and needs.

Racial Equity Analysis
• Learned from existing feedback and community reports including Puget Sound Sage and Environmental Justice Committee materials.

Community Leaders
• Partnering with Department of Neighborhoods to meet with environmental equity community leaders and other stakeholder groups to prioritize strategies.

Strategic Plan
• Draft Transportation Electrification Strategic Investment Plan based on feedback, community reports, and Rocky Mountain Institute Strategy Report.

City Council
• Get City Council approval.

Community Groups
• Work with community members to design and develop programs.
### WHAT WE’VE HEARD SO FAR

<table>
<thead>
<tr>
<th>What We’ve Heard from Community</th>
<th>Potential Solutions from Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communities of color suffer from poor air quality and health disparities</td>
<td>Prioritize these areas for investments</td>
</tr>
<tr>
<td>Need increased/improved public transit</td>
<td>Provide charging infrastructure for buses</td>
</tr>
<tr>
<td>Most people are unfamiliar with EVs</td>
<td>Support community-based education</td>
</tr>
<tr>
<td>Many community members cannot afford cars</td>
<td>Provide charging infrastructure for community carsharing</td>
</tr>
<tr>
<td>Provide economic opportunities for communities of color</td>
<td>Support economic opportunities related to transportation electrification</td>
</tr>
<tr>
<td>Lack of access to charging for multifamily units</td>
<td>Provide at-home and near-home affordable charging solutions</td>
</tr>
<tr>
<td>Without proper planning, public charging may contribute to increased housing costs, exacerbate community displacement, and increase the risk of gentrification</td>
<td>Utilize community-based decision making for public charging infrastructure to design and locate stations with community input</td>
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</tbody>
</table>
## GOALS

<table>
<thead>
<tr>
<th>Community Assets</th>
<th>City Light’s programs invest in infrastructure that are community assets so Equity &amp; Environment Communities can enjoy the benefits of transportation electrification in their current neighborhoods.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Collaboration</td>
<td>Equity &amp; Environment Communities see their wants and needs reflected in City Light transportation electrification programs.</td>
</tr>
<tr>
<td>Healthy Planet, Healthy Lives</td>
<td>Reduce tailpipe emissions that impact local air quality and public health where Equity &amp; Environment Communities live, learn, work and play. Reduce CO₂ emissions that have a disproportionate burden on the most vulnerable populations and communities.</td>
</tr>
<tr>
<td>Equitable Access</td>
<td>Equity &amp; Environment Communities learn about our transportation electrification programs, can readily understand and access materials and resources, see themselves reflected in communications, and participate in and benefit from City Light programs.</td>
</tr>
<tr>
<td>Economic Opportunities and Youth Pathways</td>
<td>City Light enables Equity &amp; Environment Communities to participate in and benefit from the local transportation electrification economy.</td>
</tr>
<tr>
<td>Electricity Affordability</td>
<td>Widespread transportation electrification increases revenue to put downward pressure on electricity prices.</td>
</tr>
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</table>
STRATEGIC INVESTMENTS

Enabling Grid Infrastructure Investments

- Master Infrastructure Plan
- Grid Modernization Plan
- Technology Pilots

Program Offerings

- Incentives, Services, Rebates, & Promotion

Does not increase net costs to ratepayers >0.25%

Education & other services to support transportation electrification
<table>
<thead>
<tr>
<th>TRANSPORTATION USES</th>
<th>ACTIVITIES</th>
<th>POTENTIAL CITY LIGHT OFFERINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All</strong></td>
<td>Customer and stakeholder outreach and awareness</td>
<td>• Information, education, events and resources on the benefits of electric vehicles</td>
</tr>
<tr>
<td></td>
<td>Electrify buses</td>
<td>• Financial incentives and technical assistance for electric charging infrastructure for King County Metro and other public buses</td>
</tr>
<tr>
<td></td>
<td>Electrify ferries and other public transit</td>
<td>• Financial incentives and technical assistance for electric charging infrastructure for ferries and other public transit</td>
</tr>
<tr>
<td><strong>Public Transit</strong></td>
<td>Increase access to electrified transportation</td>
<td>• Provide charging infrastructure for community car share</td>
</tr>
<tr>
<td>(Buses, School Buses, Ferries, Trains, Light Rail)</td>
<td>Expand at-home and near-home charging</td>
<td>• Reduced fees for electric vehicle charging</td>
</tr>
<tr>
<td></td>
<td>Electrify high-mileage vehicles</td>
<td>• Charging solutions near home for those with no access to off-street parking</td>
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<td></td>
<td>Expand public fast charging</td>
<td>• Provide incentives, qualified installers and special payment terms to help reduce barriers to installing charging stations in multifamily housing</td>
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<td></td>
<td>Expand workplace charging</td>
<td>• Lower costs to charge at different times of day to meet the needs of taxis and transportation network company drivers (Lyft, Uber, Instacart) while benefiting the grid</td>
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<tr>
<td><strong>Personal Mobility</strong></td>
<td></td>
<td>• Financial incentives for public charging stations</td>
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<tr>
<td>(Cars, Bikes, Scooters, etc.)</td>
<td></td>
<td>• Community collaboration to install additional public charging stations in areas with low EV adoption or inadequate public charging infrastructure</td>
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<td></td>
<td></td>
<td>• Provide EV-ready electricity service to workplaces for future charging infrastructure</td>
</tr>
<tr>
<td><strong>Commercial &amp; Government Fleets</strong></td>
<td>Electrify commercial and local government fleets</td>
<td>• Financial incentives for electric charging infrastructure for companies that transport people, goods and services through communities with higher exposure to air pollution</td>
</tr>
</tbody>
</table>
QUESTIONS FOR YOU

• What is #1 for you? What should we make sure to include in the plan?

• Based on the options listed, how should we prioritize them? What is missing?

• How does this work fit in with other priorities for your organizations and communities?
Andrea DeWees  
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