



## CNCA Game Changers | Decarbonizing Transport

**Topic.** Transport Electrification Funding Priorities

**Leadership.** The Carbon Neutral Cities Alliance (CNCA) members guiding this effort are Adelaide, AU; and Seattle, WA, USA.

**Problem statement.** Transport electrification strategies can significantly reduce carbon emissions from vehicles if implemented at scale, yet cities struggle to: (1) scale charging infrastructure to meet the growing needs of electric vehicle users; and (2) create partnerships across sectors to advance transport electrification goals. Key issues are:

- Finding the balance between transport electrification, congestion, and safety
- Creating efficiency through modal shifts by enabling people to lose the car in favor of other forms of transportation like bikes and buses
- Supporting a transition to electric vehicles by decarbonizing the fuel sources so they are clean, and creating hubs for charging
- Changing the existing ecosystem of high emission vehicles to encompass new technology, incentives, and targeted equitable programming
- Addressing issues of inequitable access to electric vehicle technologies

**Theory of change.** In the transportation sector, vehicle electrification would be a game changer. CNCA members have identified a need for the following actions to electrify transport at scale:

- A widespread accessible charging infrastructure for vehicles of all types and scales
- A systematic change in incentives to dramatically increase EV uptake and reduce and eventually eliminate fossil vehicles to improve air quality, improve human health, and reduce carbon emissions
- A broad and targeted cooperation with many stakeholder groups, including engagement with the community on equitable outcomes so it is easier, not harder, for priority community groups to be mobile

Outside of reducing transport emissions, the impacts of electrifying transport will be on:

- The energy system
- New business models and job creation
- Human and ecosystem health

To ensure that transport electrification does not create negative externalities and is inclusive, cities should be:



- Looking at transport and energy systems together, and centering policies and incentives around the needs of all people
- Developing a citywide integrated approach to grid and charging infrastructure, job creation and high impact policies. This would promote the electrification of personal vehicles, taxi's, transportation network companies (TNCs), car share, micro mobility, port operations and urban freight

**Funding priorities.** The CNCA Game Changer Fund seeks to support city efforts to decarbonize transport via transport electrification. Table 1 summarizes funding priorities and targeted outcomes for transport electrification efforts as identified by CNCA members. As funds are raised, CNCA will call for projects that advance these priorities in measurable ways.

**Table 1. Transport Electrification Funding Priorities and Targeted Outcomes.**

<b>Funding Priorities:</b>	<b>Targeted Outcomes:</b>
<ul style="list-style-type: none"> <li>● Citywide transportation electrification blueprints</li> <li>● Policies to address curbside access</li> <li>● Raising revenue to support and incentive mode shifts, especially among the workers who drive for a living</li> <li>● Tools that identify methods to finance charging infrastructure expansion</li> <li>● Projects to engage multiple stakeholders, including under-served communities, in infrastructure development</li> <li>● Methods to develop best practices to balance transport electrification and congestion</li> <li>● Coordination between cities to develop transport electrification best practices for policy and deployment</li> <li>● Pilots to test multimodal transport electrification through mobility hubs</li> </ul>	<ul style="list-style-type: none"> <li>● Electric vehicle infrastructure is deployed at scale</li> <li>● Electric vehicle mobility hubs are commonplace</li> <li>● City procurement of transport services are zero emission</li> <li>● Public transit systems are electrified</li> <li>● Small businesses are supported in order to encourage zero/light emission vehicles</li> <li>● Transport electrification is inclusive and leads to better services in under-served communities</li> </ul>