Innovation in Transportation
Electrification: Getting to 2050

Peg Hanna, Assistant Director
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“It is unequivocal that human influence has warmed the atmosphere, ocean and land...at a rate that is unprecedented in at least the last 2000 years.”
Impact of Climate Change on Human Health

- Injuries, fatalities, mental health impacts
- Asthma, cardiovascular disease
- Heat-related illness and death, cardiovascular failure
- Malaria, dengue, encephalitis, hantavirus, Rift Valley fever, Lyme disease, chikungunya, West Nile virus
- Forced migration, civil conflict, mental health impacts
- Respiratory allergies, asthma
- Malnutrition, diarrheal disease
- Cholera, cryptosporidiosis, campylobacter, leptospirosis, harmful algal blooms
- Extreme heat
- Air pollution
- Changes in vector ecology
- Increasing allergens
- Water and food supply impacts
- Water quality impacts

Credit: Climate Effects on Health | CDC
“Limiting human-induced global warming to a specific level requires limiting cumulative CO2 emissions, reaching at least net zero CO2 emissions, along with strong reductions in other greenhouse gas emissions.”
NOx and PM2.5 are still important!
**Innovation to close the equity gap**

*Percent of household without a vehicle by race/ethnicity: New Jersey, 2015*

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian or Pacific Islander</td>
<td>8.8%</td>
</tr>
<tr>
<td>Native American</td>
<td>20.9%</td>
</tr>
<tr>
<td>Mixed/other</td>
<td>14.5%</td>
</tr>
<tr>
<td>People of color</td>
<td>19.7%</td>
</tr>
<tr>
<td>Latino</td>
<td>22.6%</td>
</tr>
<tr>
<td>Black</td>
<td>23.3%</td>
</tr>
<tr>
<td>White</td>
<td>6.9%</td>
</tr>
<tr>
<td>All</td>
<td>11.6%</td>
</tr>
</tbody>
</table>
Electric Shared Mobility Program Grants

Funding for electric shared mobility projects like electric car sharing and ride hailing services.

Programs that benefit overburdened communities will be prioritized.

*Competitive solicitation. Stay tuned for future funding rounds.*
Innovation in State government
Sustainability is here to stay or we may not be.

Niall FitzGerald
Thank you!

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