

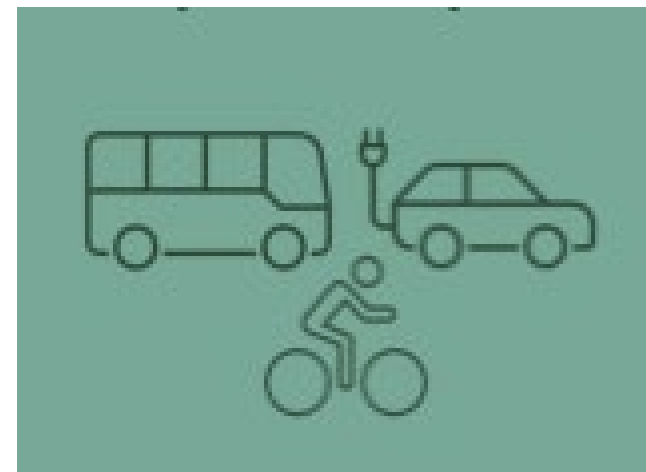
Vermont Climate Council

Building the Climate Action Plan

Initial Suite of Actions

**Cross Sector Mitigation Subcommittee –
*Transportation Task Group***

October 5, 2021



Subcommittee Members and Staff Support

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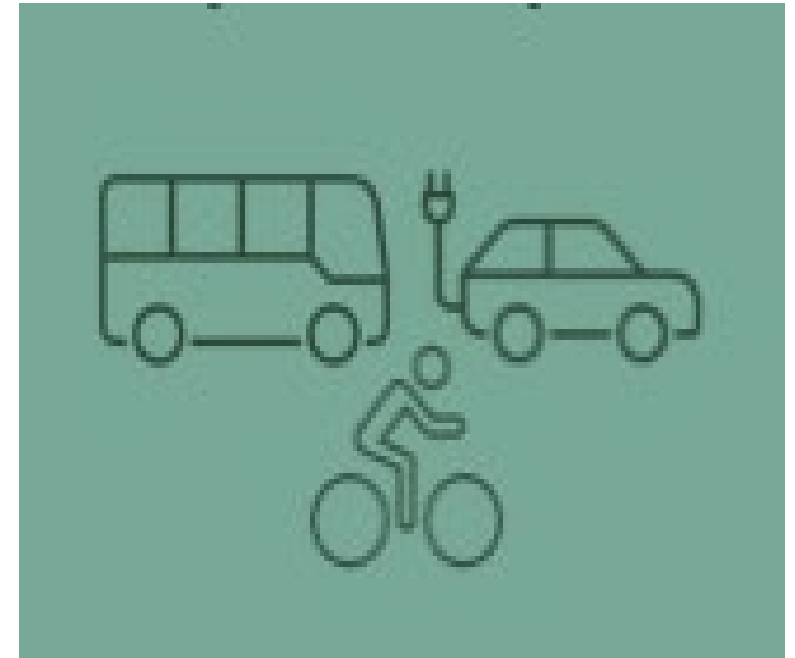
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Process to Date

- *Previous Vermont climate and energy plans and numerous other state and multi-state energy/transportation plans, funding programs, and policies were reviewed. Key actions involve scaling up existing state and multi-state programs & initiatives.*
- *EAN's pathways provided concrete guidance & data to inform the recommendations.*
- *Stakeholders engaged include planners, transportation experts, T4VT, DEC staff and many others, including participants in a daylong workshop in August.*
- *Equity has been a critical consideration throughout the process. All recommendations will be improved and refined through the application of the JT principles/rubric and public input.*



Climate Action Plan - Transportation Recommendations

PATHWAYS:

1. Electrification - Light Duty
2. Electrification - Heavy Duty
3. Lower the carbon intensity of fuels/fuel switching
4. Increase vehicle efficiency
5. Reduce Vehicle Miles Traveled (VMT)
6. Administration, coordination and implementation of programs, plans and policies

PATHWAY 1: Electrification (Light Duty)

PATHWAY 1 STRATEGIES:

- 1. Technology
Forcing Regulatory
Programs**
- 2. Electric Vehicle (EV)
Purchase Incentives**
- 3. Public Investment in
Electric Vehicle Supply
Equipment (Charging
Equipment)**
- 4. Driver Education programs**
- 5. State "Lead by Example"**

PATHWAY 1: Electrification (Light Duty)

STRATEGY 1: *Technology Forcing Regulatory Programs*

Pathway 1, Strategy 1 Action:

Join neighboring states and adopt CA's Advanced Clean Cars II Regulations beginning no later than Model Year 2026 including a 100% ZEV sales requirement by 2035.

In addition, it will include:

- More stringent criteria pollutant emissions standards
- Robust vehicle durability standard, warranty provisions,
- Battery labeling and state of health standardization
- Availability of repair information to independent repair shops.

PATHWAY 1: Electrification (Light Duty)

Strategy 2 - *Electric Vehicle (EV) Purchase Incentives*

Pathway 1, Strategy 2 Actions:

- Evaluate and expand current state EV incentives with emphasis on – how much, for how long and for whom - in order to achieve emissions and equity goals
- Add used EVs to existing incentive programs to expand access for low income Vermonters
- Allow municipalities, non-profit entities & businesses to participate
- Determine costs and funding stream(s) necessary to achieve goals supported by existing revenues, federal programs and other sources

PATHWAY 1:
Electrification (Light Duty)

Strategy 2 - *Electric Vehicle
(EV) Purchase Incentives*

Pathway 1, Strategy 2 Actions continued:

- Design and implement a purchase and use *vehicle efficiency price adjustment* linked to new vehicles within vehicle classes. *Factor income and business use into program design.*

PATHWAY 1: Electrification (Light Duty)

STRATEGY 3: *Public Investment in Electric Vehicle Supply Equipment (Charging Equipment)*

Pathway 1, Strategy 3 Actions:

- Fund the expansions VT's Level 3 (DCFC) and Level 2 public charging facilities guided by the state's *Multipronged Vehicle Electrification Strategy*
- Prioritize multi-family, workplaces, downtowns, roadway corridors
- Apply equity principles and use environmental justice mapping tools to inform program funding decisions.

PATHWAY 1:
Electrification
(Light Duty)

STRATEGY 3: *Public
Investment in Electric
Vehicle
Supply Equipment
(Charging Equipment)*

Pathway 1, Strategy 3 Actions
Continued:

- Direct the PUC to work with electric utilities in developing beneficial EV charging electricity rates and alternative demand charge rate designs

PATHWAY 2:

Electrification (Heavy
Duty)

PATHWAY 2 STRATEGIES:

1. Technology Forcing Regulatory Programs
2. State "Lead by Example"
3. Electrify Vermont's Transit and School Bus Fleets

PATHWAY 2: Electrification (Heavy Duty)

STRATEGY 1: *Technology Forcing Regulatory Programs*

Pathway 2, Strategy 1 Actions:

Join neighboring states in adopting CA's *Advanced Clean Trucks* Rule - an increasing percent ZEV sales requirement for manufacturers & Phase II GHG rule for tractor trailers beginning no later than model year 2025

Adopt CA's *Advanced Clean Fleets* - an increasing percent ZEV purchase requirement for fleets

PATHWAY 3:
Lower the Carbon
Intensity of Fuels and Fuel
Switching

PATHWAY 3 STRATEGIES:

1. Join neighboring states and participate in a regional carbon market for transportation fuels
2. Lower carbon intensity of transportation fuels through the review and consideration of a transportation clean fuel standard

PATHWAY 3:
Lower
the carbon intensity of fuels
and fuel switching

STRATEGY 1:
*Join neighboring states and
participate in a regional
carbon market for
transportation fuels*

Pathway 3, Strategy 1 Actions:

- **Join the Transportation and Climate Initiative Program (TCI-P)**
- Adopt rules to participate in the TCI Program starting in 2023.
- Enact a complementary policy to ensure equity outcomes and drive significant investments in low income, overburdened communities.

PATHWAY 4: Increase Vehicle Efficiency

PATHWAY 4 STRATEGIES:

1. Public investment in high-efficiency vehicle replacement programs, e.g. Replace Your Ride and Mileage Smart
2. Expand idle reduction authority and incentive programs
3. Electrification of medium and heavy-duty vehicle auxiliary systems

PATHWAY 5:

Reduce Vehicle
Miles Traveled
(VMT)

PATHWAY 5 STRATEGIES:

1. Work to achieve the state's land use goals
2. Increase state, regional & local planning capacity to implement sustainable transportation strategies
3. Increase walking and biking, and transit, micro transit, rail and intercity bus services
4. Increase the use of telecommunications for remote work, tele-health, education and more to reduce trips by expanding broadband throughout the state

PATHWAY 5:
Reduce Vehicle Miles
Traveled (VMT)

STRATEGY 1:
*Work to achieve the
state's land use goals*

Pathway 5, Strategy 1, Action:

- Direct federal funds to downtowns, village centers and other areas with the density and mix of uses suitable for transit, walking and biking and other non-car dependent modes
- *Work in coordination with RR&A and A&E to advance other smart growth and land use solutions

PATHWAY 5:
Reduce Vehicle Miles Traveled
(VMT)

STRATEGY 2:
*Increase state, regional
& local planning capacity
to implement
sustainable transportation
strategies*

Pathway 5, Strategy 2 Actions: Mandate VTrans to create a ***state sustainable transportation implementation plan*** to include:

- Determining the VMT benefits of smart growth in VT
- State VMT reduction targets
- The level of investment across modes needed to achieve long & short-term emissions, equity and other goals
- **Funding and technical assistance necessary for RPCs and municipalities to implement sustainable transportation plans** in regions and towns such as expanding transit service, building bike and pedestrian facilities, or locating EV charging equipment.

Pathway 5, Strategy 3 Actions:

VTrans Sustainable Transportation Plan will include:

- A multi-year strategy & funding to grow existing programs & increase availability and use of transit, micro-transit and transportation choices across the state
- Fare free transit
- Expanding the state's Complete Streets, trails, and other bike/ped funding programs.
- Growing the state's commitment to expanding and improving AmTrak and inter-city bus service.

PATHWAY 5:

Reduce Vehicle Miles Traveled
(VMT)

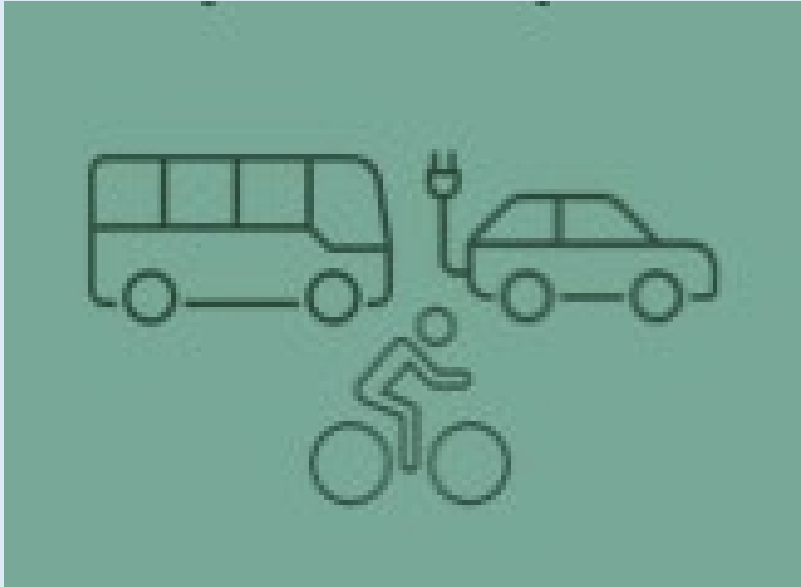
STRATEGY 3:

Increase walking and biking and transit, micro transit, rail and intercity bus services

PATHWAY 6: Administration, Coordination and Implementation of Programs, Plans and Policies

PATHWAY 6 STRATEGIES:

1. Create a climate director position in the executive branch to lead an interagency entity charged with:
 - Collecting and analyzing data
 - Planning and overseeing program implementation over time in assistance to the Council
2. Expand state government's capacity - in coordination with RPCs, municipalities+ - to support integrated climate action planning and implementation



Overarching and Key Enabling Recommendations

1. *Ensure sufficient and sustainable funding*
2. *Enact a state environmental justice policy*
3. *Incent clean/efficient solutions and disincent carbon intensive technologies*
4. *Foster state and community partner coordination and capacity*
5. *Support work force development*
6. *Foster federal & multi-state action*