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# ***Vermont***

# ***Clean Energy & Climate Action***

**Senate Committee on Transportation**

**Montpelier, Vermont**

**USA**

# World Climate Action

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- Paris Agreement unites world to combat climate change (target 1.5° C scenario)
- \$41+ Trillion of investment capital demands climate action as managers shift capital to clean energy investments
- UN Climate Team (Oct. 2019) declares that the world has 12 years or less to deliver “meaningful curb on global warming” to achieve 1.5° C scenario
- Five of seven G7 countries announce plans to “stop burning coal”
- Great Britain: shifts 100% to electric vehicles (EV) and fuel cell electric vehicles (FCEV) (eliminating petrol, diesel, and even hybrids by 2035 or sooner)
- Tesla EV sales skyrocket; Volvo shifts to 100% electric by 2025
- Leading climate scientists warn that major climate solutions must be implemented in 5 to 10 years.

**Need Net Zero Now**

# Vermont Climate Action

- Vermont CO2 (MMTCO<sub>2e</sub> (Million Metric Tons):

Current	2019e	9.8e
Paris goal	2025	7.5
VT goal	2028	4.3
VT CEP	2050	1.2

- Vermont Transportation CO2: 45% 4.4 MMT CO<sub>2e</sub>
- TCI looks to be a good regional step forward Save .25 MMT CO<sub>2e</sub>  
(250,000)
- VT fuel cell electric vehicle (FCEV) initiative Save 1MMT CO<sub>2e</sub>  
(50,000 vehicles by 2025) (1,000,000)
- VT transportation emissions can go to zero by going 100% EV and FCEV by 2028. (VT transport sector would deliver 80% of VT goal in 2028 (4.4/5.5). (Cars, trucks, and buses will all be available at attractive prices)

# Net Zero

# “Save the Planet”

- Go 100% EV and FCEV (cars, trucks, buses)
- EVs are great for most customer needs
- FCEVs expand the good news of the electric vehicle
- FCEVs can deliver: 600 mile range, 6 minute refill, 100% clean, and \$14 to fill the tank



FCEV



EV

# VT Fuel Cell EV Initiative

- 50,000 fuel cell vehicles (cars and trucks)
- 100 fuel dispensers (at existing and new stations throughout VT)
- Low cost clean energy products (hydrogen and electricity) (made in Vermont with net zero emissions: “the ultimate recycling”)
- Delivery: 2023 to 2025

