

# Global Warming Solutions Act, H. 688 Testimony from the Vermont Sierra Club January 28, 2020

Steve Crowley, Energy Chair steve.crowley1@gmail.com 802-881-6536

# Vermont Chapter of the Sierra Club

National: 4.5 million members & supporters

#### • Vermont:

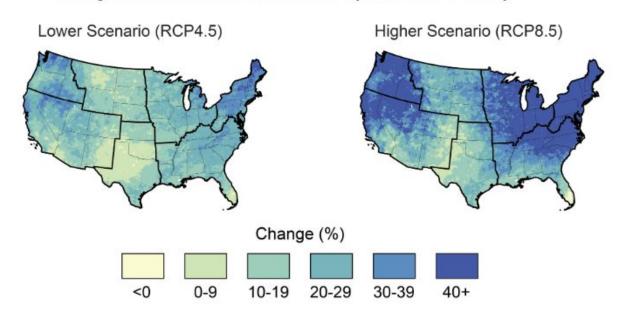
- Chapter since 1993
- o 3200 members
- Volunteer leadership, elected by members
- Montpelier staff



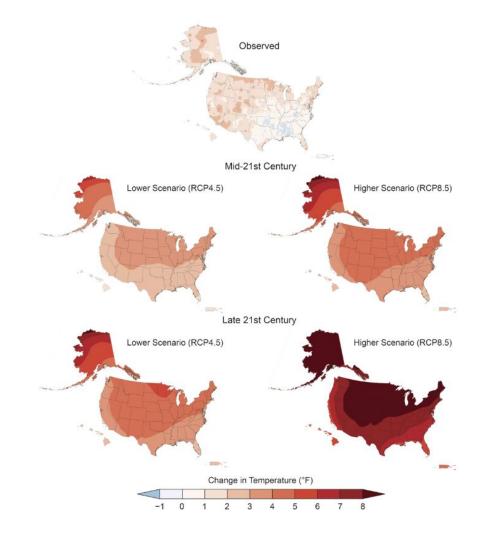
- Basic Choices
- Net zero, 80%, offsets
- Greenhouse Gas Inventory
- Nature-Based Adaptation
- Climate Council

#### The Reason We're Here

Projected Change in Total Annual Precipitation Falling in the Heaviest 1% of Events by Late 21st Century



#### MODELED TEMPERATURE CHANGE



# Strengths of H. 688

- 1. Adherence to Paris agreement and IPCC 1.5C Pathway\*
- 2. Clarifies the Intention of the GWSA
- 3. Incorporates Adaptation and Resilience
- 4. Climate Council
  - a. Engagement of a broad spectrum of concerned Vermonters
  - b. Charged with clarifying an action plan
- 5. Clear Charge for Agency Rulemaking
- 6. Deadlines for action
- 7. Clear but limited opportunities for citizens to engage in enforcement

### Reduction Goals and Offsets

- Some confusion about "not less than 80% by 2050"
- Is the goal really "net zero," but up to X% offsets?
- Issues with offsets
  - Real, additional, enforceable, language helps
  - Slippery to manage
  - Potential for unintended consequences
- Recommend a goal of net zero, with as much as <u>10%</u> achieved through alternative reduction methods.
- IPCC calls for reductions Beyond Net Zero.

# Vermont Greenhouse Gas Inventory

- 1. Lynchpin of accountability system
- 2. Will serve us over the next 30 years and beyond
- 3. Rulemaking: "May" vs. "Shall"
- 4. Improvements needed
  - a. Timing
  - b. Resources
  - c. Overlooked GHG sources
    - i. Methane, fugitive emissions
    - ii. Biomass, especially for electricity
    - iii. Large Hydro: lost carbon sinks, reservoir emissions
- 5. Recommend Fast-Tracking Rulemaking

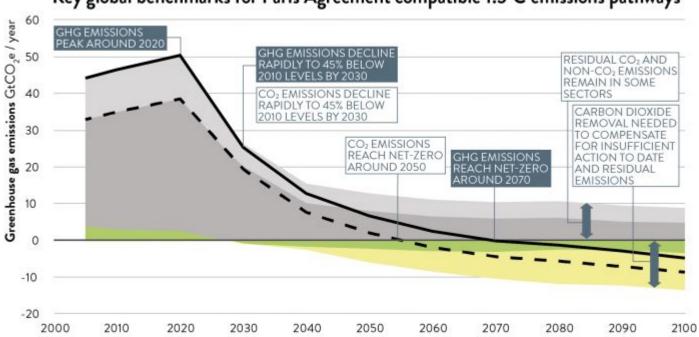
## Nature Based Adaptation

- 1. Important Adaptation Concerns
  - a. Ecosystem Support
  - b. Agricultural Adaptation
  - c. Food Supply
  - d. Co-Benefits, Nature Based Sequestration
    - i. Beyond Net Zero
- 2. Add to the Council/Plan charge, plus 4th subcommittee

### **BEYOND NET ZERO**

PEAK AND RAPID DECLINE TO BELOW NET-ZERO

Key global benchmarks for Paris Agreement compatible 1.5°C emissions pathways



### Climate Council

- Regional Planner with experience in resilience.
- Individual with experience in climate education and social transformation.
- Individual with expertise regarding health concerns raised by a changing climate.
- Individual with expertise regarding the mental health challenges of climate change, including those impacting climate change refugees who relocate to our state.
- One person representing farming, with understanding of soil carbon as well as adaptation demands
- One person representing the forest sector, with understanding of forest carbon, sustainable forestry, and the needs of the working forest industry.
- Individual with an understanding of the impacts of climate change and needs for adaptation with regard to natural communities
- An individual representing small business, industrial, and independent energy producers
- An expert in finance and investment, public/private partnerships

## Climate Council 2.0

Climate Council 7 Agency, 8-14 Citizens

#### **Subcommittees**

- 2+ Council
- 2 Agency staff
- Up to 8 additional citizens

Rural Resiliency and Adaptation

**Just Transition** 

**Ecosystems and Agriculture** 

**Cross Sector Mitigation** 

# Other Programs Will Do the Heavy Lifting

- GWSA should be no excuse to delay implementation of many obviously valuable investments
- Vermont Green New Deal
- Strengthen renewable standard, TCI, modernize Efficiency Vermont
- Increased support to drive the markets
- The sooner we dive in, the more effective we will be and the less expensive action will be.

# **Questions?**