A Call for Urgency and Accountability: The Global Warming Solutions Act

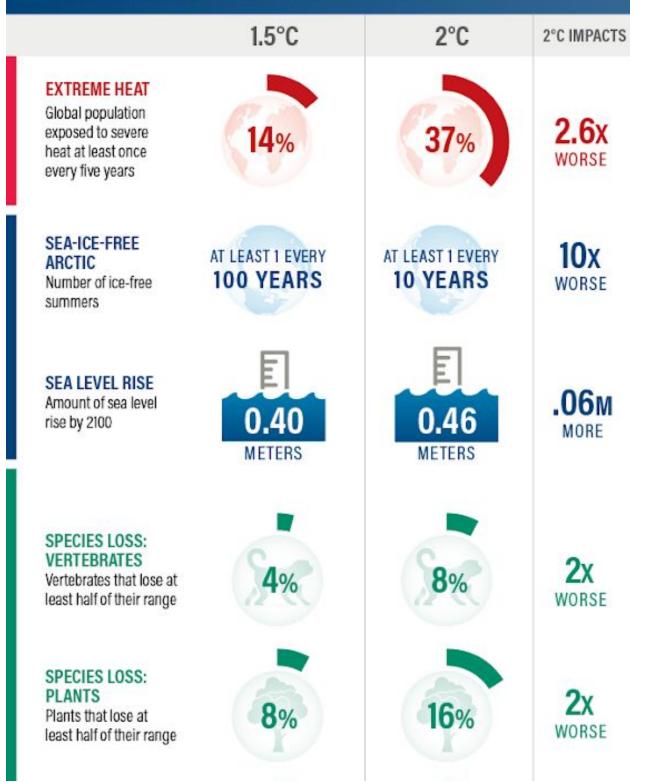
Stephen Crowley Vermont Chapter of the Sierra Club



### Sources institute

# HALF A DEGREE OF WARMING MAKES A BIG DIFFERENCE:

EXPLAINING IPCC'S 1.5°C SPECIAL REPORT

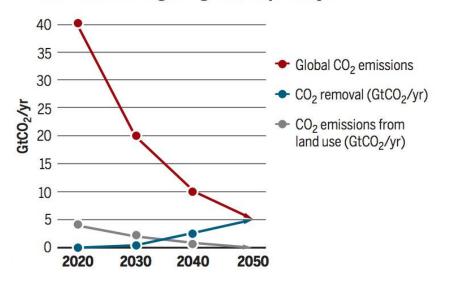


### IPCC :

- The current amount of warming since "pre-industrial," just over 1°C.
- 1.5°C change is unavoidable at this point.
- To have a 50% chance of avoiding this more dangerous 2°C increase, we must reduce GHG emissions (Net Carbon Debt) by 50% by 2030, and on to zero by 2050.
- BEYOND 2°C: The unknowns increase. Threshold temperature for numerous major geochemical drivers-
  - Ice cap melting
  - Changes to major ocean current systems
  - Increasing emissions of methane from permafrost
  - Absorbing of solar input, instead of reflecting off frozen ice

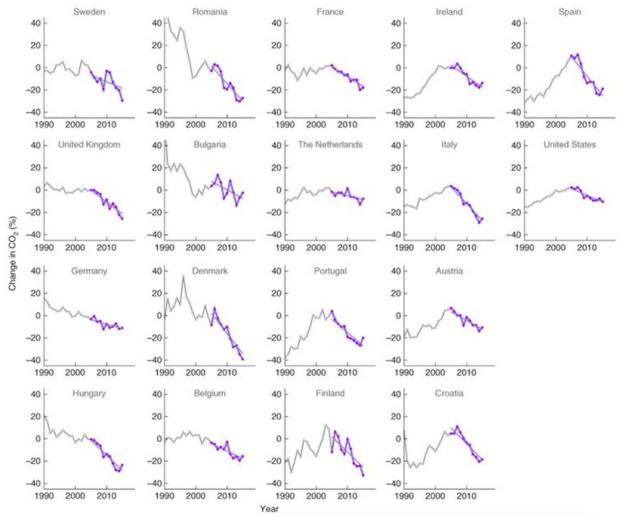
### PARIS ACCORD

- Establishes a maximum of 2°C
- Strongly agrees to efforts limiting increase to 1.5°C
- Commitments made so far lead to almost 3°C



### Global carbon law guiding decadal pathways

### HOW ARE WE DOING???

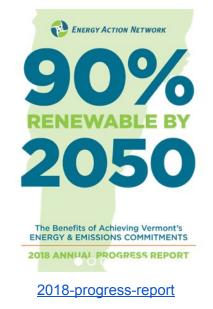


https://www.weforum.org/agenda/2019/03/eighteen-countries-showing-the-way-to-carbon-zero



Figure 1. Vermont Historic GHG Emissions Estimates and Future Emissions Reduction Goals

#### HOW ARE WE DOING HERE IN VERMONT?



To achieve goals that maintain a healthy planet for our children and grandchildren:

## Reduce GHG by 5% per year

### **GLOBAL WARMING SOLUTIONS ACT**

- WORKS ECONOMY-WIDE
- ESTABLISHES ACCOUNTABILITY FOR GREENHOUSE GAS REDUCTIONS
- FLEXIBLE PATHWAYS
- ADAPTIVE MANAGEMENT
- FAILURE IS NOT AN OPTION!!

### **VERMONT GREENHOUSE GAS INVENTORY**

- Becomes a critical leverage point in accountability
- What are its strengths and limits?
- Transparency will be crucial
- GWSA calls for full accounting