Context: IPCC Report on Climate Change

NDC contributions and the emissions gap

Annual global total greenhouse gas emissions ($GtCO_2e$)

No policy baseline
Global total emissions **65 $GtCO_2e$** (range: 60-70)

Current policy scenario
Global total emissions **59 $GtCO_2e$** (range: 56-60)

2°C range

1.5°C range

2°C pathways
Global total emissions **40 $GtCO_2e$** (range: 38-45)

1.5°C pathways
Global total emissions **24 $GtCO_2e$** (range: 22-30)

- To avoid the worst consequences of climate change, the energy chain of the global economy must be drastically decarbonized.
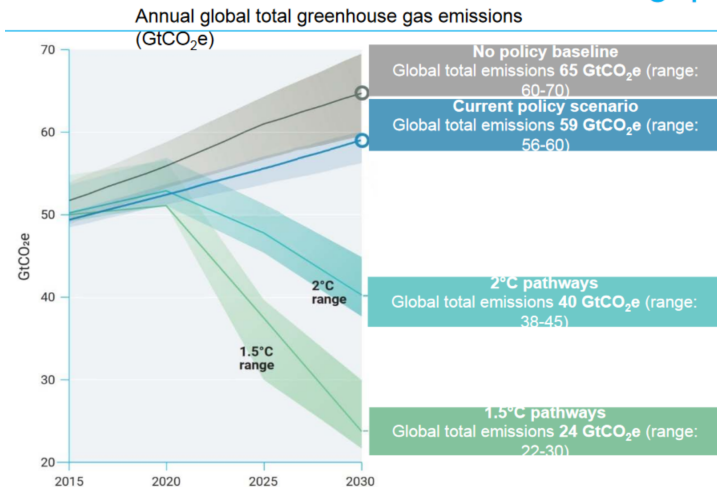
Context: Transition to Renewable Energy

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- Math has done a lot for fossil fuels, e.g., seismic imaging.
- Math has and will continue to do a lot for renewable energy; *this is the subject of our workshop.*

- Mathematics

Mathematical Sciences

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    - fluid mechanics
    - what else?

Who is here

	speakers	participants
undergrads	0	5
grads	2	22
postdocs	2	10
math, cs, stat faculty	8	18
engineering faculty	12	15
industry	11	14
government	0	3

Where we are from

Lower Mainland	40
Vancouver Island	10
Alberta	17
Other Canada	6
USA	11
Other	5

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- Why are you here and what do you hope to get out of this workshop?