New Hampshire Network for *Energy • Environment • Climate*

The NH Network Presents: Which Climate Solutions Work for You, Your Community, and the World?

Recording available for the April 24, 2023 event at newhampshirenetwork.org/events#h.3exdub7509te.

Media Contacts:
John Gage, NH Citizens' Climate Education, jhgage@gmail.com, (603) 965-1586
Susan Richman, NH Network Communication, susan7richman@gmail.com, (603) 868-2758

SUMMARY:

Many of us reduce our carbon footprints as best we can because of concerns about climate pollution. We can increase the energy efficiency of our homes, electrify our transportation, heating, and cooking, and transition to clean energy sources. These provide a variety of co-benefits and often save money. But holding global warming below 1.5˚C cannot be accomplished through individual efforts alone. Policy changes are required to accelerate investment, innovation, and choices to achieve national and international climate goals.

But how can advocates for climate solutions know which policies are the most powerful and have the potential to attract the support needed to get them through Congress? Finding answers to those questions was the purpose of a recent event held by the New Hampshire Network. On April 24, En-ROADS Ambassador Peter Dugas led citizens and legislators through an exploration of climate policy options using En-ROADS, a powerful interactive policy modeling tool developed by MIT. Participants suggested different ways to address global warming, such as planting more trees, electrifying all transportation, and increasing investments in energy efficiency. As Dugas adjusted each policy setting accordingly, En-ROADS ran thousands of calculations behind the scene and displayed the impacts on energy costs, emissions reductions, and projected global temperatures. What if all those measures were employed simultaneously? A more significant temperature decrease resulted, but still not close to the 1.5˚C limit required to maintain a liveable planet.

But when Dugas tested a carbon price, the projected temperature dropped significantly. When complementary policies were added to that, En-ROADS showed it is possible to hold warming below the 1.5˚C goal. The proposal of carbon pricing generated concern from some attendees that the resulting increased consumer costs would hurt household budgets, especially for the poor. Dugas showed that the money raised would

exceed the total increased cost of energy. He explained that if the income from a carbon fee paid by fossil fuel producers was returned to every man, woman and child, most families would get a net income gain compared with the business-as-usual policy mix. He noted that Canada is already using this approach, and 80% of Canadian households – including nearly all low- and middle-income households – are coming out ahead.

By demonstrating that ambitious climate goals are still within our reach with the right policy mix, the message of this climate solutions workshop was one of hope. With cash-back carbon pricing combined with complementary policies, it is possible to maintain a livable planet while protecting families through the transition. "There is no silver bullet. What we need for a safe future is silver buckshot," explained Dugas.

Want to learn more?

- "Test Your Favorite Climate Policy Solution" can be viewed from the NH Network website at newhampshirenetwork.org/events (see "Past Events and Recordings").
- Explore En-ROADS from your own computer browser at en-roads.climateinteractive.org/scenario.html
- Information on the power and co-benefits of cash-back carbon pricing and how you can get involved to help address climate change can be found at carboncashback.org/benefits and citizensclimatelobby.org.

MORE ABOUT THE PRESENTERS:

- **Peter Dugas:** *En-ROADS Ambassador, a 2021 recipient of Maine's SOURCE Award for Sustainability, Maine State Coordinator for Citizens' Climate Lobby*
- **Moderator:** John Gage, *Member of NH Network Steering Committee*, *NH State Coordinator for Citizens' Climate Lobby*

The April 24 event, "Test Your Favorite Climate Policy Solution," was co-sponsored by the New Hampshire Network for Environment, Energy, and Climate and Citizens Climate Lobby.

The NH Network for Environment•Energy•Climate *links citizens statewide, to share information and implement actions for a sustainable New Hampshire. Learn more at www.newhampshirenetwork.org.*

Citizens' Climate Lobby *is a grassroots, nonpartisan organization that exists to help individuals exercise their personal and political powers to help create the political will for a livable world. Learn more at citizensclimatelobby.org*

Link to this article: RECORDING AVAILABLE: "Test your climate policy"

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VISUALS

Image 1: https://drive.google.com/file/d/1PCp9AdJYspq_dgsq_dIoHT7CCWa1ip8i/view?usp=sharing
Caption: En-ROADS: a sample mix of complementary policies to achieve a 1.5˚C warming limit.

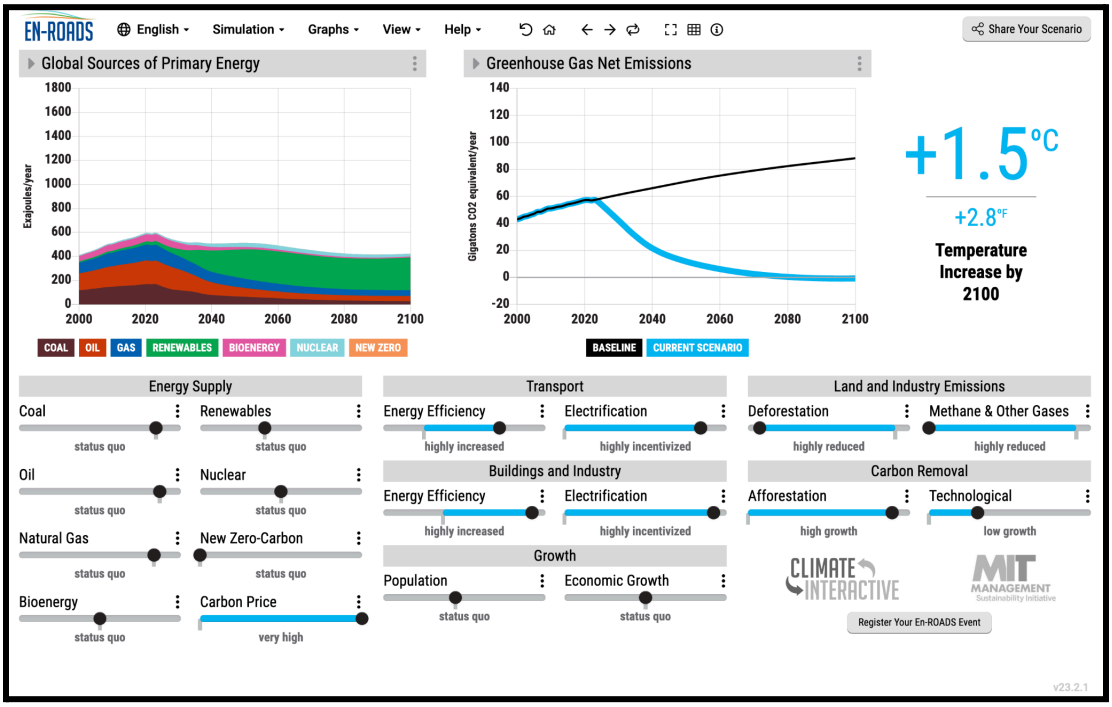

Image 2 (half-screen version):
https://drive.google.com/file/d/1wqJoeuF-gnxCD3kbT51knBPqJ8gRa0tT/view?usp=sharing
Caption: En-ROADS: the increased cost of energy from a carbon price is less than the revenue raised. The revenue can fund a household rebate to protect family budgets during the transition to an efficient, clean energy economy. The cost of energy with the modeled policy mix drops to half that of the current policy mix by 2100.

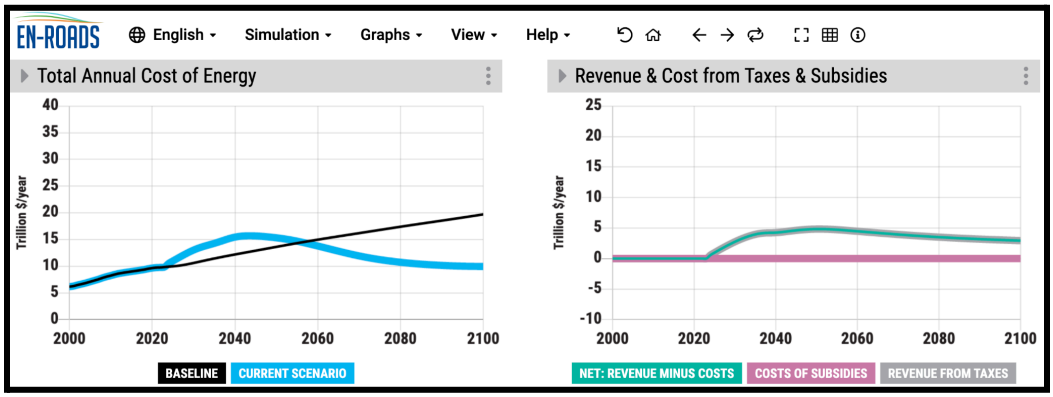

Image 3: https://drive.google.com/file/d/1AI82GJFk9x2dB9BqXHUJbM74jvMVIU3S/view?usp=share_link
Caption: En-ROADS: the increased cost of energy from a carbon price is less than the revenue raised. The revenue can fund a household rebate to protect family budgets during the transition to an efficient, clean energy economy. The cost of energy with the modeled policy mix drops to half that of the current policy mix by 2100.


EN-ROADS
English
Simulation
Graphs
View
Help
Share Your Scenario
Total Annual Cost of Energy
Trillion $/year
BASELINE
CURRENT SCENARIO
Revenue & Cost from Taxes & Subsidies
Trillion $/year
NET: REVENUE MINUS COSTS
COSTS OF SUBSIDIES
REVENUE FROM TAXES
+1.5°C
+2.8°F
Temperature Increase by 2100
Carbon Pricing and Energy Standards
Related Graphs
Carbon pricing
Carbon Price
35 $/ton CO2
medium
Year carbon price starts to phase in
2023
Years to achieve initial carbon price
1 years
Final carbon price (adjust "Year to start..." below)
850 $/ton CO2
Carbon Price
$/ton CO2
CURRENT SCENARIO