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Section: 3

Assignment: Simulating Climate Futures in En-ROADS

Working with the *En-ROADS Climate Solutions Simulator,* create a scenario that can mitigate global warming to the internationally agreed target of **below 2°C by 2100.**

For more details, visit: climateinteractive.org/tools/guided-assignment-welcome/

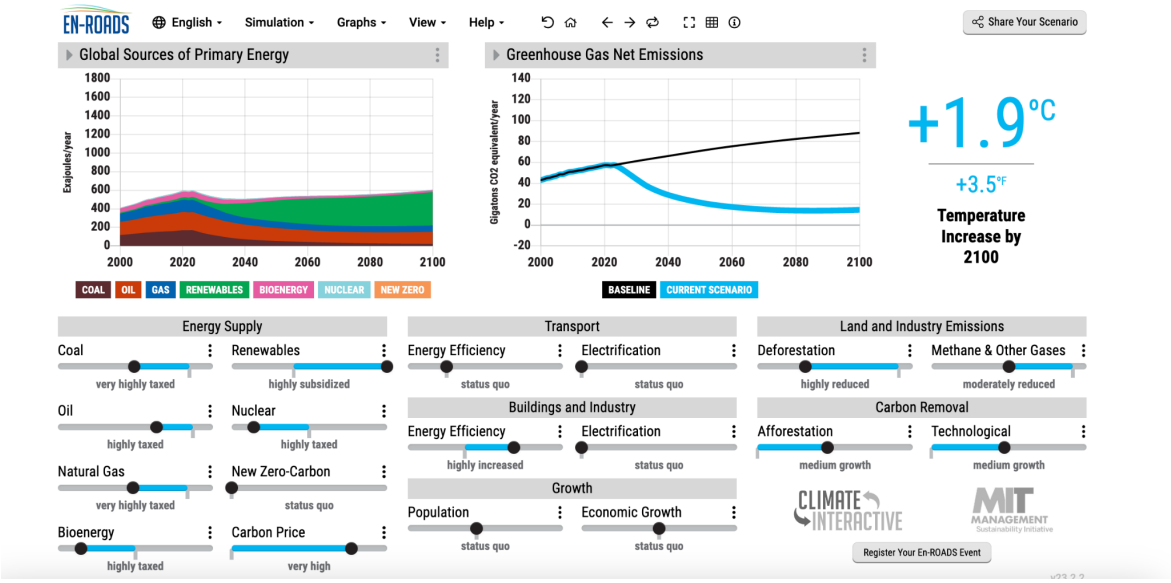
Steps

1. **Open En-ROADS at** en-roads.climateinteractive.org/**.** If you are new to En-ROADS, review the Guide to the En-ROADS Control Panel and watch the introductory video to En-ROADS.
2. **Develop a scenario.** Use En-ROADS to develop your vision of limiting global warming to less than 2°C (3.6°F). Save your scenario link: Click on "Share Your Scenario" in the upper right-hand corner of En-ROADS, then choose "Copy Scenario Link."
3. **Answer the questions.** After developing your preferred scenario, write a concise response to the questions below.

Questions

1. **Your Plan**: What are the top 3-5 most important policies in your strategy? (For example, the most important sliders that you moved). Paste your scenario link and a screenshot of your final En-ROADS dashboard.

https://en-roads.climateinteractive.org/scenario.html?v=23.2.2&p1=46&p7=27&p10=2.1&p16=-0.03&p23=21&p30=0.05&p39=193&p47=3.1&p57=-6.6&p59=-45&p65=45&p67=47&g0=2&g1=62



Most Important Strategies:

1. Lowering carbon usage and, therefore, carbon emissions by increasing the carbon price and coal taxes
2. Lowering the usage of fossil fuels like oil, coal natural gas and turning to renewables
3. Increasing the carbon removal by afforestation and technological carbon removal and by lowering the deforestation and methane & other gases' release to the atmosphere
4. Lowering the usage of Bioenergy and Nuclear energy while increasing the energy efficiency

2. **Political Feasibility:** To implement your proposals, what actions and priorities are needed over the next two years in businesses, civil society, government, and the public?

- Creating political consensus through campaigns and new tax reforms by pricing carbon and coal, and other fossil fuels more to reduce carbon emissions
- Encouraging investments in the renewable energy infrastructure while discouraging usage of bioenergy and nuclear energy
- Creating laws and penalties (if there are already, make them harsher) to discourage deforestation
- Creating laws and tax discounts for the people or companies that are investing in technological carbon removal and afforestation
- Governments give tax discounts to individuals and companies that lower their usage of energy/use energy more efficiently by month

3. **Winners/ Losers:** Who would be the biggest winners and losers globally in your proposed future? Create a table with two columns for winners and losers.

Winners	Losers
efficient energy user citizens/companies, investors in technological carbon removal, investors in afforestation, renewable energy companies, most/all of the living creatures on earth (as the global warming will slow down)	Fossil fuel companies/investors, paper companies/investors, bioenergy and nuclear energy investors/companies

4. **Surprises:** What surprised you about the behavior of the energy and climate system as captured in En-ROADS? For example, what actions had a bigger or smaller effect than you thought?
   Except for the carbon price, the elements under the energy supply did not change much in global warming. I thought the renewables and reducing the fossil fuels lower the global warming much more. New Carbon Zero changed nearly nothing. And energy efficiency hardly changed 0.1-celsius degrees.

5. **Hope:** What trends in the world give you hope that your proposals are possible?

- Campaigns for global warming awareness.
- Increase in renewable energy technologies and usage
- Increasing support in reducing greenhouse gas emissions

6. **Personal Action:** What can you personally do to help create the necessary changes?

- Start using the energy in my house more efficiently
- Supporting initiatives and organizations to reduce greenhouse gas emissions and renewable energy