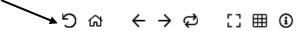
Enroads SIMULATION ELABORATE 2 LESSON 13



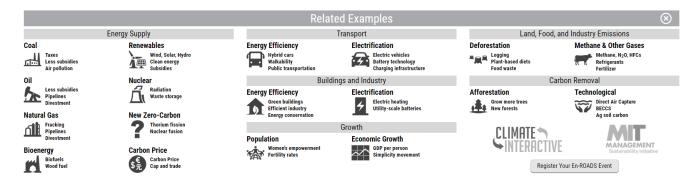
En-Roads Simulation Directions

- 1. Open En-ROADS. If you are new to En-ROADS, review the tutorial at the bottom of this page.
- 2. Develop a scenario to limit increases in average surface temperature to less than 2°C (3.6°F).
 - a. Save your scenario link: Click on "Share Your Scenario" in the upper right corner of the screen. Select "Copy Scenario Link."
- 3. Keep track of all the values that you changed to achieve your scenario.
- 4. To re-set the page, click the back circle arrow at the top of the screen.



- 5. Develop a second scenario to limit increases in average surface temperature to less than 2°C (3.6°F).
 - a. Use different features than you used in the previous scenario.

Related Examples in Each Category



From: https://en-roads.climateinteractive.org/scenario.html?v=23.11.0



http://creativecommons.org/licenses/bv/4.0/

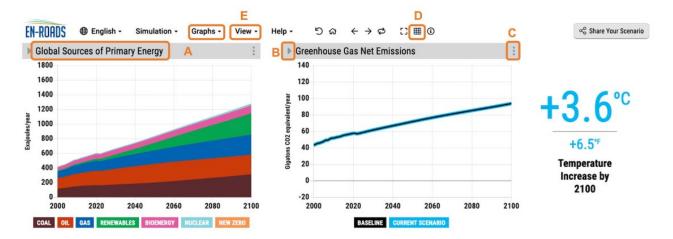
Tutorial

We encourage you to explore all the features of En-ROADS by clicking around. Here are some key features of En-ROADS to look for:

Graphs

There are over 100 output graphs available in En-ROADS. They show data from different parts of the global energy and climate system, and they update as you move sliders within En-ROADS.

- A. **Select graphs** When you first open En-ROADS, you see the two default graphs. You can select from the full list of graphs by clicking the title of the left or right graph. You can also select from the Graphs menu in the top toolbar.
- B. More info For more information about a graph and what it shows, select the triangle icon to the left of the graph title.
- C. **Copy graph data** Copy the graph data to your clipboard by clicking on the three dots to the right of the graph title and selecting "Copy Data to Clipboard." You can paste this data into a spreadsheet program such as Excel.
- D. **Shortcut to popular graphs** You can quickly jump to a selection of the most commonly used graphs from the "Show miniature graphs" icon on the top toolbar. You can click any of these miniature graphs to switch to that graph in the main graph view.
- E. View larger graphs If you want to expand one of the graphs to be larger or into a separate window, you can access this by clicking on the three dots to the right of the graph title and select "View Larger" or "View in New Window." You can access our "Large Left Graph" or "Large Right Graph" feature from the View menu in the top toolbar.



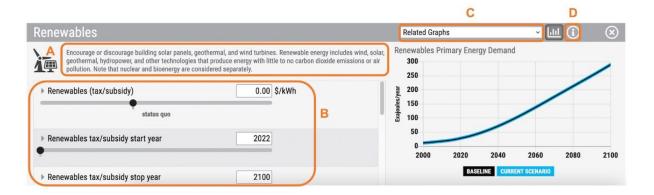
Sliders/Actions

There are 18 sliders representing different actions you can test in the En-ROADS simulator. Click the title of the slider or the three dots on the right of each slider to access detailed slider settings:



Here is what you will find in the detailed slider view:

- A. A description of the overall slider This description provides further detail about the particular solution.
- B. More control of the main slider You'll see the units associated with the slider and the numeric values of points along the slider. You can directly input numeric values to set the slider level to a specific value of your choice (within range). Scroll down to change and explore the related sliders. Click on the triangle to the left of each slider title to see a brief description of the slider.
- C. **Related graphs** In the right panel, you'll see a graph relevant to the main slider as well as a choice of additional Related Graphs. These are useful to reference in order to examine the changes that occur from moving the sliders in this view. Select from the dropdown list of Related Graphs to view other graphs. You will still be able to see your slider moves impact the main graphs as well.
- D. **Help** You can access more detailed information about the slider through the information button. This is the same information that is found for this topic in the En-ROADS User Guide.



Top Toolbar Features

Many useful features are just a click away from the top toolbar on En-ROADS. Here are some of the features that you can access.



- A. **Share Your Scenario** You can share your unique scenario link with others, who can open your En-ROADS scenario with all the settings you have chosen and the last main graphs you viewed. You can also share your scenario to social media channels. Grabbing the link from your browser's URL bar will also work, but your last viewed graphs will not be captured.
- B. **Replay Last Change** This is a fun feature to rapidly replay your last change several times. This feature assists you in examining how the different parts of the system responded to your action by giving you more time to look for changes across related graphs. You can also use the other controls to Undo or Redo your last action (located left of the "replay last change" control on the top toolbar).
- C. Assumptions [under the "Simulation" menu] Access and change important assumptions driving the En-ROADS model.
- D. U.S. Units [under the "View" menu] Change from metric to U.S. units.
- E. **Actions and Outcomes** [under the "View" menu] This list summarizes the total actions and key climate outcomes from your scenario.
- F. **Related Examples** [under the "Help" menu] This list shares common examples of topics and solutions related to each of the 18 sliders. This is helpful when you need to quickly pull up a list of examples which relate to each of the sliders.