

Capacity- Building with En-ROADS for Assessing Policies for Climate Change Mitigation and Projecting Greenhouse Gas Emissions (GHG)

Andrew Jones

(via skype)

Thanks to Estefanía Liehr (GIZ) for local support.

5to Taller del Grupo Regional América Latina y el Caribe de la Alianza para Transparencia en el Acuerdo de París, organizado por GIZ

Buenos Aires, Argentina, 14 de septiembre del 2018

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

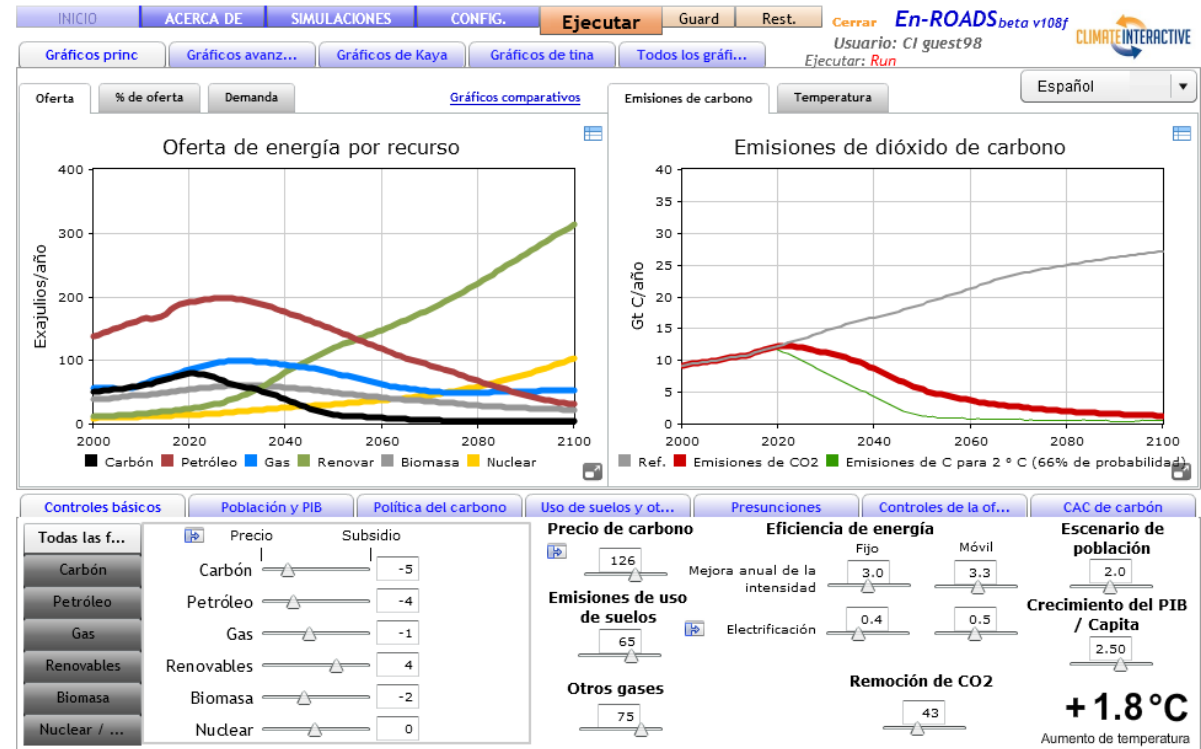


2nd round of En-ROADS intervention, 14th September 2018



Better understanding energy, land, and economic transition with En-ROADS

En-ROADS helps decision-makers understand better the high-leverage policies and investments that lead to climate success, exploring carbon prices, energy efficiency, consumption, oil subsidies, electrification, methane from cattle, and other factors.



Handout with policy levers, accompanying En-ROADS

What changes do you think are necessary and feasible to address climate change?

Population and Economic Growth Lower BAU Higher Population growth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GDP per capita <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Carbon Price None \$20 \$100 Carbon Price <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Starting Year <input type="text"/>			Other Greenhouse Gases Big decrease Small decrease No change Other GHGs <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>e.g., methane, N₂O, and F-gases</small>			Carbon Dioxide Removal None Modest Major Ocean fertilization <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Direct air capture <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Biochar <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Bioenergy CCS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Ag. soil sequestration <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Starting Year <input type="text"/>		
Energy Efficiency No change Small increase Big increase Mobile <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>e.g., transport and cars</small> Stationary <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>e.g., buildings, industry, residential</small>			Electrification No change Big increase Year Mobile <input type="checkbox"/> <input type="checkbox"/> <input type="text"/> Stationary <input type="checkbox"/> <input type="checkbox"/> <input type="text"/>			Energy Supply Less No change More Coal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Oil <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Gas <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Solar & Wind <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Biofuels <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> New Zero C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <small>e.g., thorium fiss.</small> Nuclear <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> CCS <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					
Forests Big decrease Small decrease No change Deforestation <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> No change Small increase Big increase Afforestation <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>											

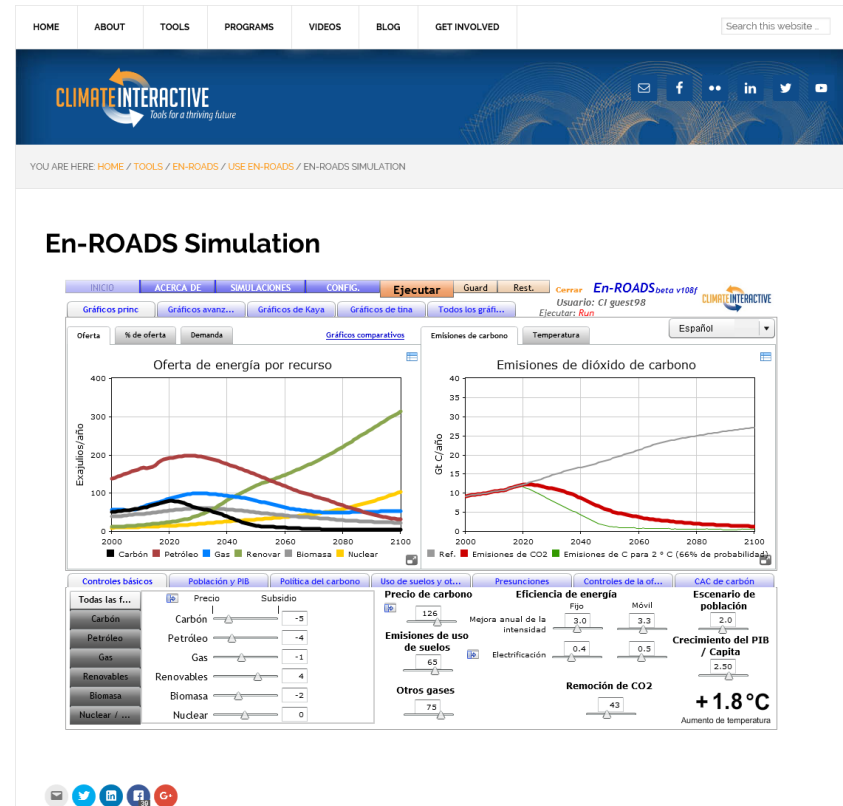
(Imagined)

Further Information: En-ROADS

You can play with the En-ROADS simulator yourself:

<https://www.climateinteractive.org/tools/en-roads/>

En-ROADS is available in English, Spanish, and Portuguese





Further Information: Climate Solutions Simulation Workshop

You can read a description of the workshop:

<https://www.climateinteractive.org/programs/world-energy/the-climate-solutions-simulation-workshop/>

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The Climate Solutions Simulation Workshop

The Climate Solutions Simulation Workshop helps build support for strategies to address climate change via interactive testing of a cutting-edge simulation model. The resulting experience is hopeful, scientifically-grounded, action-oriented, and eye-opening.

Participants discuss their actions at any level — business, community, country, or region — and then use the [En-ROADS simulator](#) to learn of the global impact (e.g., can we limit warming to 2 degrees?) if the action spread widely. Many report surprises — some strategies are much higher leverage than we think (and likewise).

The workshop is designed to be run by facilitators with a wide range of skills and is widely accessible — the simulation and materials are all "open source." Events can last from 30 minutes to three hours and include 3-100 people.



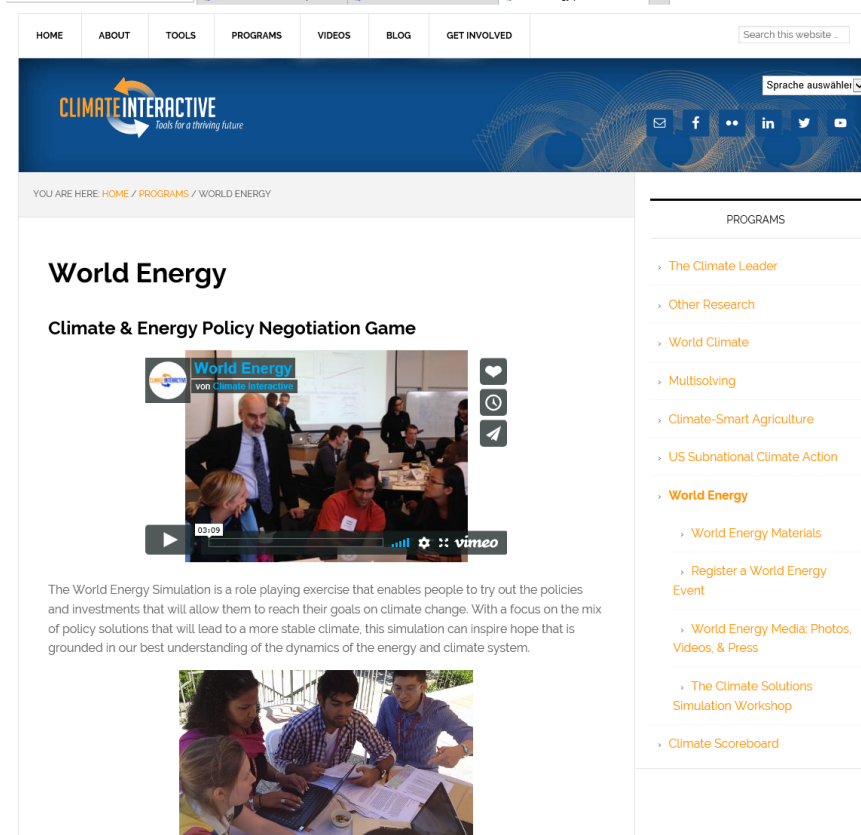
PROGRAMS

- › [The Climate Leader](#)
- › [Other Research](#)
- › [World Climate](#)
- › [Multisolving](#)
- › [Climate-Smart Agriculture](#)
- › [US Subnational Climate Action](#)
- › [World Energy](#)
 - › [World Energy Materials](#)
 - › [Register a World Energy Event](#)
 - › [World Energy Media: Photos, Videos, & Press](#)
 - › [The Climate Solutions Simulation Workshop](#)
 - › [Climate Scoreboard](#)

Further Information: World Energy – Simulation-Based Roleplay

We have developed a “role-play” around the En-ROADS version of the workshop:

<https://www.climateinteractive.org/programs/world-energy/>



The screenshot displays the Climate Interactive website. The top navigation bar includes links for HOME, ABOUT, TOOLS, PROGRAMS, VIDEOS, BLOG, and GET INVOLVED, along with a search bar and a language selector. The main header features the Climate Interactive logo and social media icons. The breadcrumb trail reads: YOU ARE HERE: HOME / PROGRAMS / WORLD ENERGY.

World Energy

Climate & Energy Policy Negotiation Game

A video player shows a group of people in a meeting, with a thumbnail titled "World Energy von Climate Interactive". The video player includes a play button, a progress bar, and a Vimeo logo.

The World Energy Simulation is a role playing exercise that enables people to try out the policies and investments that will allow them to reach their goals on climate change. With a focus on the mix of policy solutions that will lead to a more stable climate, this simulation can inspire hope that is grounded in our best understanding of the dynamics of the energy and climate system.

Below the text is a photograph of three people (two men and one woman) sitting around a table, looking at documents and a laptop.

PROGRAMS

- › The Climate Leader
- › Other Research
- › World Climate
- › Multisolving
- › Climate-Smart Agriculture
- › US Subnational Climate Action
- › **World Energy**
 - › World Energy Materials
 - › Register a World Energy Event
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 - › The Climate Solutions Simulation Workshop
- › Climate Scoreboard

Climate Interactive: About and Contact

- Climate Interactive is a not-for-profit organization based in Washington DC. Our team helps people see what works to address climate change and related issues like energy, health, food security, and disaster risk reduction. Our easy-to-use, tangible, scientifically-grounded tools as well as our programs for engagement help people see for themselves what options exist today to shape the future they want to see.
- We create simulation models and interactive tools, such as the C-ROADS climate policy simulator, the En-ROADS energy policy and investment simulator, and the Climate Pathways mobile app.
- We help organizations and governments improve their strategies, such as mapping how policymakers can improve health and jumpstart the economy while also reducing climate change and modeling ways to improve food security and adapt to climate change with climate-smart agriculture.
- apjones@climateinteractive.org
- <https://www.climateinteractive.org/>

