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

Andrew Jones

(via skype)

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

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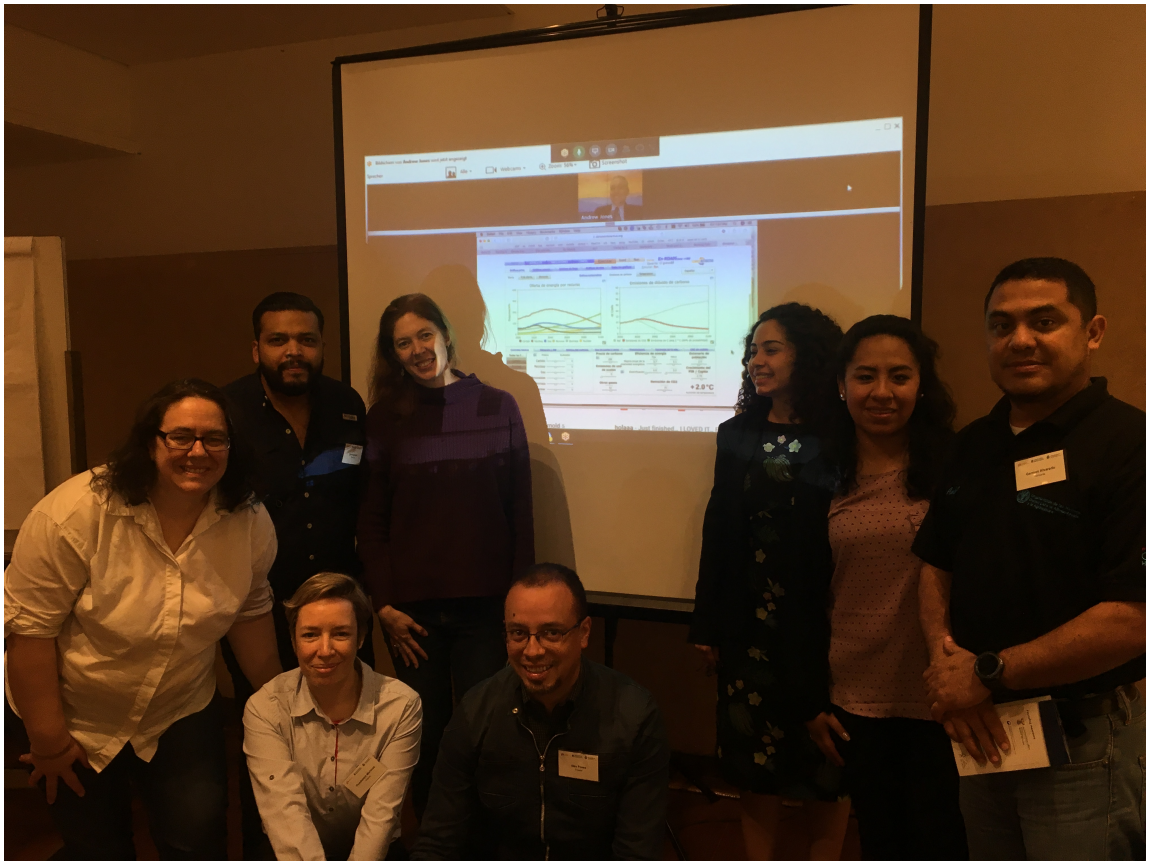
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

CLIMATE INTERACTIVE
Tools for a thriving future

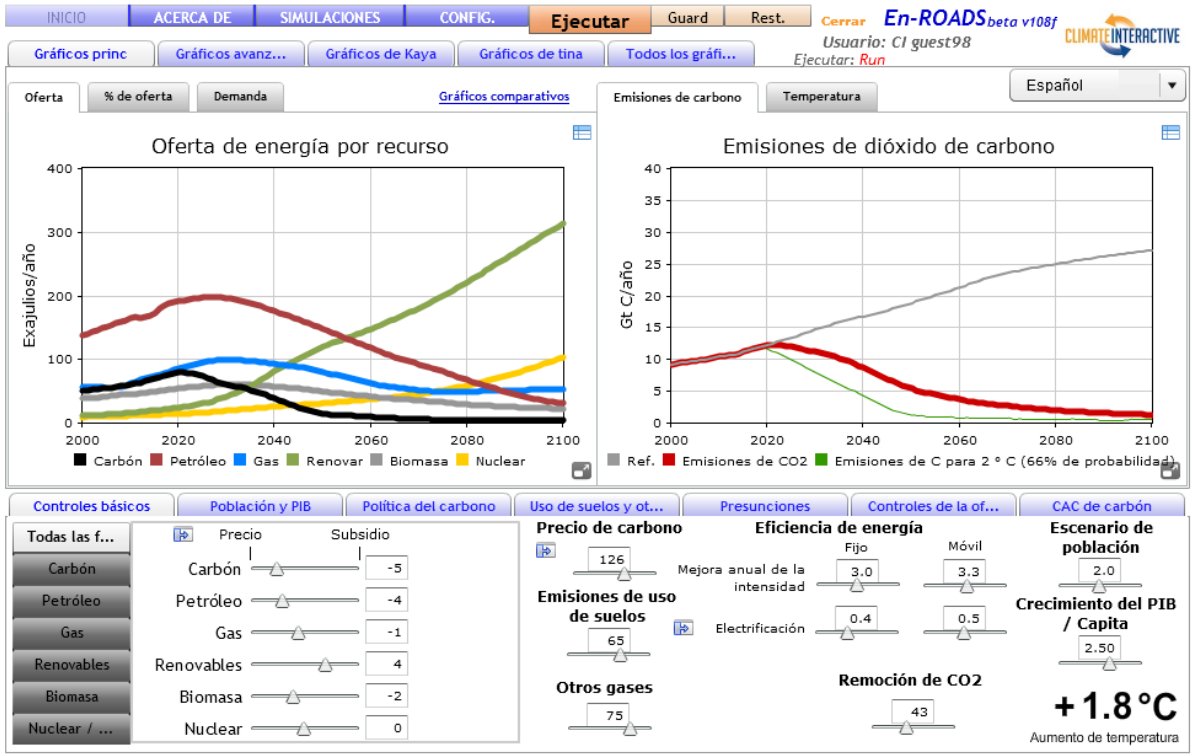
MIT MANAGEMENT
SLOAN SCHOOL

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	☐	☐	☐
GDP per capita	☐	☐	☐

Carbon Price

	None	$20	$100
Carbon Price	☐	☐	☐

Starting Year ☐

Energy Efficiency

	No change	Small increase	Big increase
Mobile	☐	☐	☐
e.g., transport and cars			
Stationary	☐	☐	☐
e.g., buildings, industry, residential			

Electrification

	No change	Big increase	Year
	☐	☐	☐
	☐	☐	☐

Forests

	Big decrease	Small decrease	No change
Deforestation	☐	☐	☐

	No change	Small increase	Big increase
Afforestation	☐	☐	☐

Other Greenhouse Gases

	Big decrease	Small decrease	No change
Other GHGs	☐	☐	☐

e.g., methane, N_2O, and F-gases

Energy Supply

	Less	No change	More
Coal	☐	☐	☐
Oil	☐	☐	☐
Gas	☐	☐	☐
Solar & Wind	☐	☐	☐
Biofuels	☐	☐	☐
New Zero C e.g., thorium fiss.	☐	☐	☐
Nuclear	☐	☐	☐
CCS	☐	☐	☐

Carbon Dioxide Removal

	None	Modest	Major
Ocean fertilization	☐	☐	☐
Direct air capture	☐	☐	☐
Biochar	☐	☐	☐
Bioenergy CCS	☐	☐	☐
Ag. soil sequestration	☐	☐	☐

Starting Year ☐

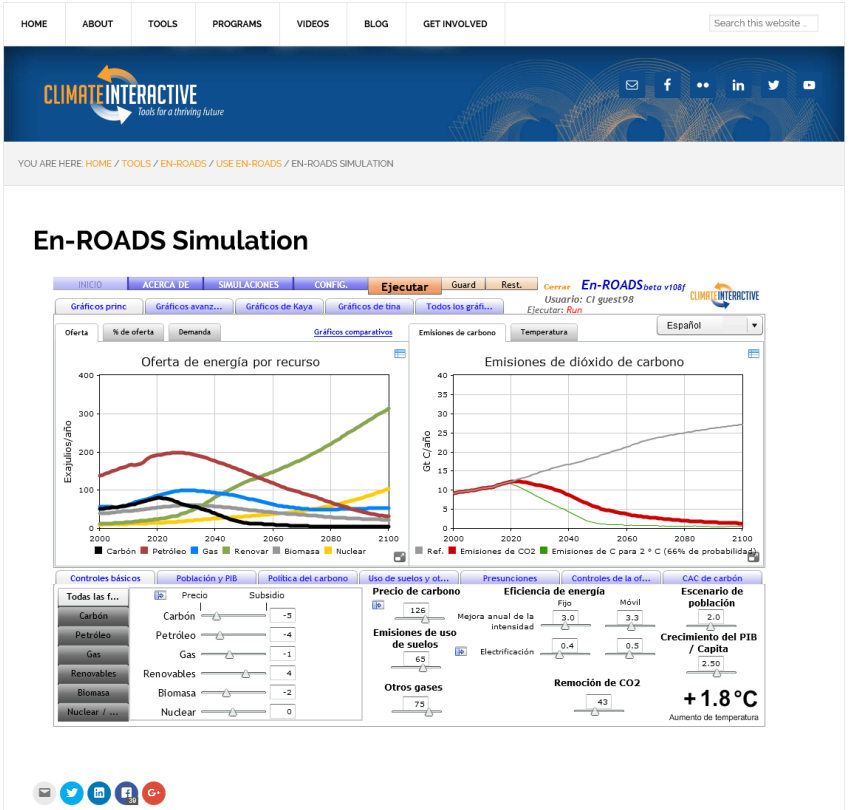
(Imagined)

Further Information: En-ROADS

You can play with the En-ROADS simulator yourself:

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

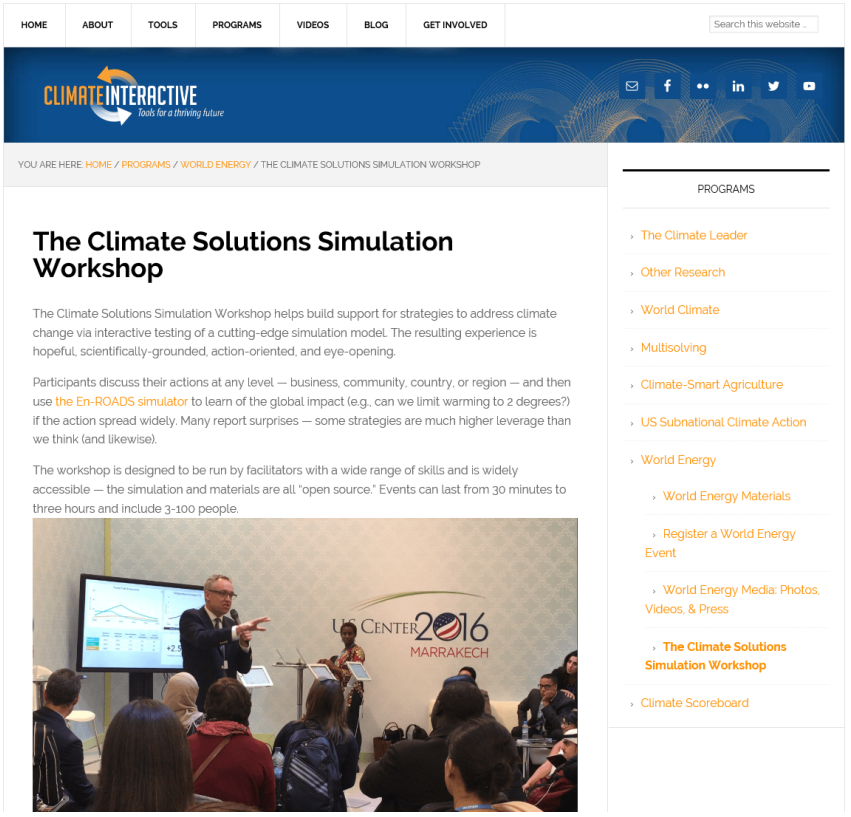
En-ROADS is available in English, Spanish, and Portuguese



Further Information:
Climate Solutions Simulation Workshop

You can read a description of the workshop:

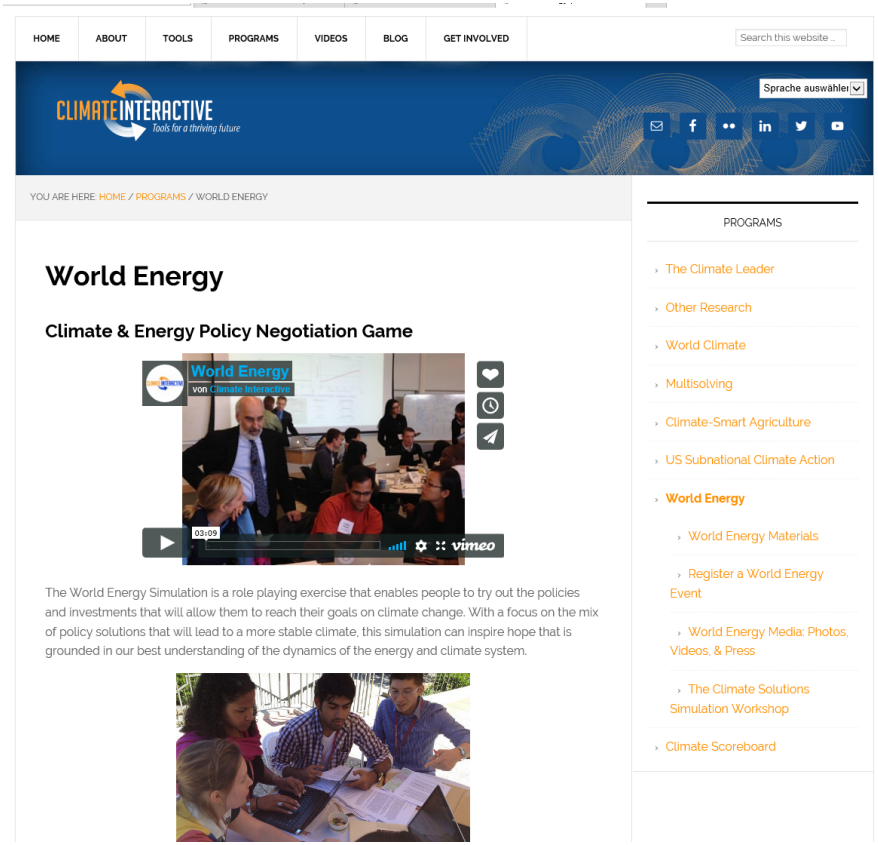
https://www.climateinteractive.org/programs/world-energy/the-climate-solutions-simulation-workshop/



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/



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.

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