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## WORKSHOP: Long-Term Energy Scenarios Role in Accelerating the Clean Energy Transition.

**Day:** September 11th 2017

**Time:** 9:00 – 14.30

**Room:** MAYA

### Description:

There is an evolving trend among countries with ambitious climate policies to utilize long-term energy planning models and its scenario development with the objective of accelerating a clean energy transition in a cost effective and sustainable manner to ensure the appropriate policies and productive investments in general. Model based long term energy scenario studies are also important tools for identifying and exploiting the renewable energy options that are available. Experience shows that advanced modeling tools are needed for assessing the integration of renewable energy.

Long-term model based scenario analyses is a highly relevant tool in terms for understanding and predicting the future efficient options for variable renewable energy deployment and systems. Model based scenario analysis is a highly valuable tool for identifying the economic risks in the power system for policy makers, regulators and investors.

This side event consists of a 5.5 hours session with an introduction to planning models, a discussion of the importance of using high-quality data for modeling, and utilizing tools that serve to answer the appropriate planning questions. The session will include real-world case studies. Speakers will present main features and results of different models used to evaluate energy transition scenarios with emphasis in renewable energies along with concrete examples of how these tools have been applied in Latin America and the Caribbean and worldwide.

The event will foster a broader discussion on how modeling tools have supported energy transition scenario analyses as well as to identify synergies for further work in light of enhanced renewable energy policies.

The event will answer the following questions:

1. What types of models are used in planning, what type of data is needed and what are the questions these models are trying to answer?
2. What are the lessons learned from customizing planning energy models to different energy systems?
3. Is there any value added of comparing different models results to analyze a single case study?
4. What are the potential and challenges for Latin America and the Caribbean and worldwide in light of a clean energy transition in the region?

### Organisers:



## Detailed Programme:

8:00 – 9:00	Registration
9:00 – 9:10	Welcome <ul style="list-style-type: none"><li>• <i>Rafael Alexandri, Secretariat of Energy (SENER)</i></li><li>• <i>Niels Bisgaard, Danish Energy Agency (DEA).</i></li></ul>
9:10 – 9:20	Introduction to modeling tools and importance of high quality data for the electric power sector <ul style="list-style-type: none"><li>• <i>Ricardo Bracho, US National Renewable Energy Laboratory (NREL).</i></li></ul>
9:20 – 9:40	SIMISE <ul style="list-style-type: none"><li>• <i>Cecilia Martín del Campo, UNAM Institute of Engineering</i></li></ul>
9:40 – 10:05	Balmorel Mx <ul style="list-style-type: none"><li>• <i>Niels Bisgaard, DEA.</i></li><li>• <i>Amalia Rosa Pizzaro, Technical University of Denmark (DTU).</i></li></ul>
10:05 – 10:25	Times Mx <ul style="list-style-type: none"><li>• <i>Baltazar Solano Rodríguez, UCL Energy Institute</i></li></ul>
10:25 - 10:45	SIMISE, Macroeconomic and demand module. <ul style="list-style-type: none"><li>• <i>Armando Sánchez Vargas, UNAM Institute of Economic Research</i></li></ul>
10:45 – 11:10	ReEDS Mx and Plexos-BCS <ul style="list-style-type: none"><li>• <i>Jonathan Ho, NREL</i></li><li>• <i>Gregory Brinkman, NREL.</i></li></ul>
11:10 – 11:35	Panel Discussion - trends and future of long-range planning for VRE integration <ul style="list-style-type: none"><li>• <i>Niels Bisgaard, DEA</i></li><li>• <i>Lindsey Griffith, US Department of Energy, (US DOE).</i></li><li>• <i>Stanford University, tbc.</i></li><li>• <i>Ricardo Bracho, Moderator (NREL)</i></li></ul>
11:35 – 11:45	Break
11:45 - 12:05	Latin American Energy Organization (OLADE). <ul style="list-style-type: none"><li>• <i>Alfonso Blanco, tbc</i></li></ul>
12:05 – 12:30	Mexico's National Institute on Electricity and Clean Energies (INEEL). <ul style="list-style-type: none"><li>• <i>Rolando Nieva, tbc</i></li><li>• <i>David Castrejón.</i></li></ul>
12:30 - 12:50	International Renewable Energy Agency (IRENA) <ul style="list-style-type: none"><li>• <i>Asami Miketa, tbc</i></li></ul>

- 12:50 - 13:10 | Monterrey Institute of Technology and Higher Education (ITESM)
- *José Martín Molina.*
- 13:10 - 13:30 | Center for Research and Teaching of Economics (CIDE)
- *Juan Rosellón, tbc.*
- 13:30 - 13:50 | Switch Mx
- *Sergio Castellanos, Lawrence Berkeley National Laboratory (LBNL).*
- 13:50 – 14:15 | Panel Discussion: Subject to be defined
- *Asami Miketa, IRENA, tbc*
  - *Rafael Alexandri, SENER*
  - *Juan Rosellón, CIDE, tbc.*
  - *Niels Bisgaard, Moderator.*
- 14:15 – 14:30 | Conclusions and next steps
- *Rafael Alexandri, SENER.*