FORUM ON SCIENCE, TECHNOLOGY & INNOVATION FOR SUSTAINABLE DEVELOPMENT

RIO+20 United Nations Conference on Sustainable Development

Energy

Thursday, 14 June, 14:00 – 18:00

The Sustainable Energy for All (SE4All) initiative, convened by the UN Secretary General aims to: provide universal access to modern forms of energy, double the rate of improvements in energy efficiency and double the share of renewable energy by 2030. These objectives in are ambitious but reachable with smart policies and strong commitment from public and private stakeholders. They require transformational change in energy systems across scales. This session explores how these objectives can be achieved and what the social, economic, and security benefits and impacts might be.

We call for countries to work towards low-carbon development by implementing policies which encourage energy efficiency improvements and support renewable energy growth. We encourage more widespread use of energy planning tools to implement targets and timelines to achieve these objectives as well as provide a robust framework for donors and partners to coordinate their development cooperation efforts.

Session Co-Conveners:

Jose Goldemberg, Physicist, university educator, scientific leader and research scientist

Nebojsa Nakicenovic, Professor of Energy Economics at the Vienna University of Technology, Deputy Director of the International Institute for Applied Systems Analysis (IIASA)

Structure of Session

14:00 – 14:15 **Introduction**
Jose Goldemberg (confirmed)
Nebojsa Nakicenovic (confirmed)

14:15 – 15:25 **Part 1**: Energy as an Entry Point for Resolving Major Sustainability Challenges

This session would present a perspective on energy as a key for development (affordable access to energy services), that efficiency and renewables are jointly the means to both achieve access, energy security and reduce adverse environmental impacts on all scales including climate change. The emphasis should be on the financing and institutional needs to achieve the SE4All objectives and on understanding energy security, human health, and development as possible drivers and co-benefits for an energy revolution.

Four 12 minute keynote presentations, followed by a 20 minute moderated discussion.

Moderators

José Goldemberg and Nebojsa Nakicenovic

Keynote Speakers (in alphabetical order):

- *Jacqueline McGlade, European Environment Agency (confirmed)*
- *Vijay Modi, Columbia University (confirmed)*
- *Keywan Riahi, International Institute for Applied Systems Analysis (confirmed)*
- *Roberto Schaeffer, Federal University of Rio de Janeiro (confirmed)*

15:25 – 15:45 **Coffee Break**

15:45 – 17:50 **Part 2**: The Grand Energy Transformation Toward Achieving Sustainability Options

This session would focus on a panel discussion, consisting of six members, combined with interaction with the audience. The focus would be on the required technological, financial, institutional, human capacity and other salient factors required for a transformation from the current fossil-dominated energy system to a sustainable energy system for all. Enabling factors for the transformation would be discussed including how the scientific and technology communities catalyze the transformation

Panelist to each give an 8 minute presentation (~56 min), followed by a moderated discussion with audience participation (~56 min). The moderator will conclude with a final statement (~13 min).

Moderator

Johan Rockström, Stockholm Resilience Center (confirmed)

Panel Speakers (in alphabetical order)

- *Daniel Bouille, Institute of Energy Economics, Bariloche Foundation (confirmed)*
- *Suzana Kahn Ribeiro, Federal University of Rio de Janeiro (confirmed)*
- *Ashok Khosla, Development Alternatives Group (confirmed)*
- *Mohan Munasinghe, Munasinghe Institute for Development, Sri Lanka and SCI, University of Manchester, UK (confirmed)*
- *Francisco Romário Wojcicki, Deputy-Executive Secretary of the Ministry of Mines and Energy (confirmed)*
- *Leena Srivastava, The Energy and Resources Institute (confirmed)*
- *Ellen Williams, BP (confirmed)*

17:50 – 18:00 **Closing Remarks**:

- *Jose Goldemberg (confirmed)*
- *Nebojsa Nakicenovic (confirmed)*