

System Reliability in Renewables-driven Power Systems

A workshop designed for Think Tanks

19th April 2018, 8:30am-6:30pm

Berlin, Germany

Recently, countries outmatch each other with record low renewable cost figures. 3.5 US\$ ct. for solar PV in India, below 2 US\$ ct. for onshore wind in Morocco, even zero public support for offshore wind projects in Germany. It is hardly contested anymore that wind and solar technologies will soon be the cheapest of all electricity generation technologies. However, do these catchy figures tell the full story? What are the implications for the reliability of a system if it is more and more dominated by weather-dependent, zero-marginal cost technologies? And, how to manage the transformation of the energy sector and to overcome political inertia and path dependencies?

This workshop brings together think tanks from around the world active in energy system transformations. The aim is to deepen our joint understanding of how system reliability can be ensured cost-effectively, to share best and worst practice examples and to strengthen the network amongst some of the most cutting-edge think tanks. We will get latest insights from world leading experts in key geographies, and we will deeply immerse into the world of grids, markets and flexibility.

The workshop format will be flexible and interactive. We would like to invite everyone to share her/his own perspectives and specific country experience throughout the day. Time slots are reserved in the program for additional short and focused presentations.

PARTICIPATION/ TARGET GROUP

In order to register for the workshop kindly send an e-mail to events@agora-energiewende.de indicating your interest **by 4 April**. Once your registration has been approved we will inform you by e-mail by 6 April at the latest. Please keep in mind that the number of seats is limited to 50 and that the workshop targets representatives of **think tanks only**.

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MORE INFORMATION

<https://www.agora-energiewende.de/en/thinktank-workshop2018/>

AGENDA

8:30-9:00	Registration & coffee
9:00-9:15	Welcome & introduction
9:15-10:45	<p>Taking stock: Have Renewables finally won the cost race?</p> <p>The costs of renewables are falling worldwide. A closer look indicates, however, that strong geographical differences remain: in a number of countries renewables are still not cost competitive with fossil power plants. This session looks into the latest data, future trends and discusses the reasons of the strong geographical variations with regard to the generation costs of renewable power.</p> <p style="text-align: center;">Setting the Scene</p> <p>State of play and global trends of technology cost developments Michael Taylor, International Renewable Energy Agency (IRENA)</p> <p style="text-align: center;">Country Views</p> <p>Mexico: How to successfully bring down the costs of renewables Adrián Fernández Bremauntz, Executive Director, Iniciativa Climatica de Mexico</p> <p>Indonesia: Why renewables are still relatively expensive Fabby Tumiwa, Director, Institute for Essential Services Reform, Indonesia</p>
10:45-11:00	<p>Beyond LCOEs: Considering integration costs and system values</p> <p>Dimitri Pescia, Senior Associate, Agora Energiewende, Germany</p>
11:00-11:30	Coffee break
11:30-13:00	<p>Taking more: How the grid can integrate variable renewable energy</p> <p>The grid plays a pivotal role in facilitating the deployment of more variable renewable energy. However, its abilities to integrate wind and solar energy are often underestimated. This second session focusses on the methodologies to analyse the integration capacity of grids as well as measures to increase their abilities.</p> <p style="text-align: center;">Setting the Scene</p> <p>Going wide and going smart: The role of the grid in clean energy transitions Ric O'Connell, Executive Director, GridLab US</p> <p>The Grid Toolbox: Quickly increasing the capacity of existing grids Stephanie Ropenus, Senior Associate, Agora Energiewende, Germany</p> <p style="text-align: center;">Country Views</p> <p>Turkey: Assessing the abilities of the Turkish grid to integrate wind and solar Deger Saygin, Director, SHURA Energy Transition Centre, Turkey</p> <p>Denmark: Advanced grid operation with a share of 70 percent renewables Peter Markussen, Head of Department, Energinet, Danmark</p>
13:00-14:00	Lunch break & networking

14:00-16:00	<p>Taking advantage: How to incentivise flexible resources</p> <p>All energy systems possess inherent flexibility. But, resources and opportunities vary significantly. Incentivising the right kind of flexible resources at the right time is a key challenge to ensuring system reliability at lowest costs. This third session conceptualises the flexibility paradigm, describes different incentive mechanisms, and discusses how countries address this challenge.</p> <p style="text-align: center;">Setting the Scene</p> <p>Conceptualising flexibility in power systems Doug Arent, Executive Director, Joint Institute for Strategic Energy Analysis at the NREL, USA)</p> <p style="text-align: center;">Country Views</p> <p>Europe: Flexibility in fossil-based and grid-oriented systems Edith Bayer, Senior Associate, Regulatory Assistance Project (RAP)</p> <p>International: Flexibility in vertically integrated systems Peerapat Vithayasrichareon, Energy Analyst, International Energy Agency</p>
16:00-16:30	Coffee break
16:30-18:15	<p>Taking action: The Role of Think Tanks in energy transitions</p> <p>Transforming energy systems is more than a technical-economic challenge. At its heart, it is a fundamental political transformation process that requires an effective management of structural change to overcome path-dependencies, political inertia and incumbent's interests. In this final session we address the role of think tanks in this process: What is the role of policy-oriented research in different countries? What are success factors and what are obstacles think tanks experience around the globe?</p> <p style="text-align: center;">Setting the Scene</p> <p>Think Tanks and the political economy of energy transitions Camilla Bausch, Director, Ecologic Institute, Germany</p> <p style="text-align: center;">Round table discussion (with country representatives)</p> <p>Joanna Mackowiak-Pandera, Executive Director, Forum Energii, Poland Mika Ohbayashi, Director, Renewable Energy Institute, Japan Sonia Aggarwal, Vice President, Energy Innovation, USA</p>
18:15-18:30	Closing remarks
18:30	Reception & dinner

Official side event of the



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