

## Fifth RGI future scenario exchange workshop

Featuring IRENA and University College Cork

### 1. What is this event?

Since the summer of 2016, RGI has held four workshops on scenario modelling. This fifth RGI future scenario exchange workshop will feature three sessions:

In the first session IRENA and University College Cork will present the approach and findings of the recently published study “**Renewable Energy Prospects for the European Union**”. This study identifies renewable energy options for all EU Member States, spanning a wide range of sectors and technologies that could be deployed cost-effectively by 2030, including an analysis of power sector operation under accelerated deployment of renewables.

In the second session, University College Cork will discuss key elements and modelling choices for long term Paris-compatible energy scenarios for the EU, including the overall role of the electricity sector in the energy transition, the operation of power systems with very high shares of VRE by 2050, as well as other modelling challenges like sector coupling, decentralised balancing, and modelling human behaviour, among others.

In the third session, IRENA will present the Clean Energy Ministerial campaign “Long term scenarios for the clean-energy transition.” Launched in May 2018, it aims at 1) sharing country experience in the benefits and factors for the success of energy scenario modelling for national and regional policy planning; 2) showcasing innovative tools and methods for energy scenario modelling that addresses the integration challenges of variable renewable energy (VRE); and 3) identifying channels to building capacity for clean energy transition planning in countries with limited experience.

### 2. Agenda

12.00 – 13.00 h	Arrival/lunch
13.00 – 13.15 h	Welcome and work so far – <i>Craig Morris, RGI</i>
13.15 – 14.15 h	“Renewable Energy Prospects for the European Union by 2030” – <i>Luis Janeiro (IRENA); Sean Collins (University College Cork)</i>
14.15 – 14.30 h	Coffee
14.30 – 15.30 h	“Paris-compatible 2050 scenarios for the EU Power System” <i>Paul Deane (University College Cork)</i>
15.30 – 15.45 h	Coffee
15.45 – 16.45 h	“Modelling the clean energy transition – Clean Energy Ministerial campaign on long-term scenarios” <i>Asami Miketa (IRENA)</i>
16.45 – 17.00 h	Concluding remarks ( <i>Craig Morris, RGI</i> )

### 4. Time and Location

Brussels, Belgium, at ENTSO-E, Avenue de Cortenbergh 100, Watt & Faraday rooms.



## 5. Participation

To provide a set-up for a real exchange, we have a limited number of seats in this event. We will follow a first come, first served principle and therefore encourage you to confirm your participation as soon as possible by sending an email to [craig@renewables-grid.eu](mailto:craig@renewables-grid.eu). You will either receive a confirmation or notification that you are on the waiting list for the event. We also kindly ask you to let us know if you have a confirmed seat but in the end, are not able to make it to the event.

## 6. Background information ‘Future Scenario Exchange workshops’

Long-term network development planning is one of the primary jobs of a TSO. Via a process of forecasting and modelling, TSOs attempt to understand what the high voltage grid requirements will be for a variety of future energy scenarios.

Developing future scenarios and the associated market and grid models is a complex process. The outcome is highly dependent on the assumptions used to build the scenarios and the on the design of the models. At the same time, this process is the one tool we have to understand the role an individual grid project or a system of grids play with regards to enabling certain future scenarios. Consequently, interested stakeholders are eager to better understand the work of TSOs and other modellers. The Future Scenario Exchange workshops have been initiated to provide a platform for exchange and existing modelling work.

A fundamental part of these workshops has been for TSO modelling experts to gain increased understanding of the importance of their work for public acceptance and learn how to communicate better to stakeholders the outcome of their work and its implications. This work will therefore produce a number of joint “messages” about the integration of renewables and the need for grids. A first version shall be publicly available by early 2018 on the RGI website.