

**Plan, prepare, perform:
Best practices for operating the system with
high shares of renewables**

Berlin, 7 November 2018, 10am – 5pm

While the Paris Agreement has set clear targets for the reduction of greenhouse gas emissions, countries have developed very different strategies how to achieve them. However, one thing is clear: a timely decarbonisation of the power sector will be indispensable. This includes a progressive shift away from conventional fossil sources, a focus on strong and flexible system operation and the secure integration of high shares of renewables.

In this context, some of the biggest economies in Europe have recently announced coal phase out goals and strategies, among them the UK, Italy and France. The debate about a coal phase out plan in Germany is ongoing and should be concluded in the coming months.

In the midst of these discussions, we would like to collect and share good practices and lessons learned from different European countries, asking:

- How can we achieve very high shares of renewables in the grid while maintaining the current level of stability?
- What are best practice examples from around Europe that show how high shares of renewables can go hand in hand with high stability?
- What are the main difficulties for a progressive coal phase out?
- What implications will a coal phase out have on system operation and how can we deal with them?
- What regulations and technology innovations are necessary to make a coal phase out and a high share of renewables possible?
- How do grid operators handle related challenges? What strategies do they have in place? What are possible restrictions (political or technological)?

Draft programme

10:00	<p>Welcome</p> <ul style="list-style-type: none"> • Antonella Battaglini CEO Renewables Grid Initiative • Olivier Feix Head of Nature Protection and Permitting, 50Hertz • Christoph Bals Policy Director Germanwatch
10:20	<p>Opening address</p> <p>Dr. Felix Matthes German Commission for Growth, Structural Change, Employment; Research Coordinator for Energy & Climate policy Öko-Institut</p>
10:40	<p>Setting the scene</p> <p>Dialogue between Antonella Battaglini and Laurent Schmitt, Secretary-General of ENTSO-E</p>
11:00	<p>'Pecha Kucha' talks: "yes, very high shares of RES and a progressive coal phase out are possible, and...":</p> <ul style="list-style-type: none"> • "[...] needs to be considered and done now to make it happen without endangering the system • [...] are the main challenges • [...] can solve them." <p><i>Speakers:</i></p> <ul style="list-style-type: none"> • Gerald Kaendler Head of Asset Management, Amprion • Kathrin Gutmann Campaign Director "Beyond Coal" • Dr. Constanze Adolf Project coordinator Lumenion Energy • Representative of chemical and/or other energy intensive industry
11:45	<p>Coffee break</p>
12:00	<p>Innovative technical approaches from Europe: TSO roundtable</p> <ul style="list-style-type: none"> • Robin McCormick Director Operations, Planning & Innovation, EirGrid • Gunnar G Løvås Project manager N3 project, Statnett • Juan Peiró Control Centre for Renewables, Red Eléctrica de España • Dr. Niels Ehlers Head of concept and system strategy, 50Hertz <p><i>TSOs will be challenged by:</i></p> <ul style="list-style-type: none"> • Dr. Eva Schmid Senior Advisor – Power Grids and Low-Carbon Policy Germanwatch • Mareike Wolke Expert, System and Market Integration Renewable Energies, Dena Ancillary Services Platform (tbc)
13:00	<p>Lunch break</p>

14:00	Political and regulatory frameworks around Europe: roundtable discussion on experiences and lessons learned <ul style="list-style-type: none">• Riccardo Vailati Italian Regulatory Authority for Electricity Gas and Water• Dr. Christine Materazzi-Wagner E-Control Austria• Leonardo Meeus Florence School of Regulation (tbc)• Andrew Burgess Office of Gas and Electricity Markets (Ofgem), UK (tbc) <p><i>Panellists will be challenged by:</i></p> <ul style="list-style-type: none">• Dr. Stephanie Ropenus Senior Associate Grids and Digitalisation, Agora Energiewende
15:15	<i>Coffee break</i>
15:30	The devil is in the detail: pinpointing concrete solutions <ul style="list-style-type: none">• Harness knowledge of audience via interactive discussion format
16:45	Reflection of collected knowledge during the day: <ul style="list-style-type: none">• What needs to happen to better implement them?• How can the practices be better combined?• Who needs to do what? <p>Antonella Battaglini CEO Renewables Grid Initiative</p>
17:00	<i>End of the workshop</i>