



KPMG Global Power & Utilities Conference 2018

Powering the future with the next generation of energy

14 November 2018 | The Steigenberger Wiltcher's, Brussels, Belgium

Wednesday 14 November 2018	
Time	Session
7:00–8:30am	Women's energy breakfast: Women advancing the global Energy Transition Moderator: Valerie Besson, EMA Head of Energy and Natural Resources, KPMG in France <p>Energy markets around the world are going through a period of fundamental transition due to the emergence of new technologies, energy economies, business models, and changing social preferences. On top of this market shift, the professional experience required to integrate these considerations extend well beyond traditional roles of engineers and economists. To enable the transition to happen, a new approach to energy governance is required, based on new ideas, new institutions and new people. Join us for our inaugural Women in Energy Executive Breakfast, where we will hear from top female leaders on how the market is shifting towards a customer centric energy model and what we still need to do to enable the transition.</p>
8:00–8:45am	Registration
8:50–9:20am	Opening remarks Moderator: Regina Mayor, Global Sector Leader, Energy and Natural Resources, KPMG in the US Ted Surette, Global Head of Power & Utilities, KPMG Australia
9:20–9:40am	Keynote: Anja-Isabel Dotzenrath, Chief Executive Officer, E.ON Climate & Renewables
9:40–10:40am	Panel I: Energy transition – removing the barriers to decarbonization Moderator: Mike Hayes, Global Leader of Renewables, KPMG in Ireland <p>The energy transition towards global decarbonization is now irreversible and is a major area of focus for all stakeholders including not just the generators of electric power, but also corporate and retail consumers and governments around the world. In this panel session, we examine some of the barriers to moving from energy transition to full decarbonization including a discussion on themes such as: why capital is not mobilizing quickly enough to finance projects, particularly in emerging economies, the global policy deficiencies and the need for greater acceleration of sustainable energy innovation.</p> <p>We will discuss the possibilities for greater international collaboration between governments to create policy frameworks to provide opportunities to achieve full decarbonization. We will consider whether ultimately it is the corporate and retail consumers who will become the more significant drivers for change as the specter of the adverse impact of climate change begins to materialize.</p>
10:40–11:10am	Networking break
11:10am–12:00pm	Concurrent breakout sessions: I. Future power markets Moderators: Simon Virley CB, Partner and UK Head of Energy, KPMG in the UK Ted Surette, Global Head of Power & Utilities, KPMG Australia <p>Renewable technologies are reaching grid parity around the world. This is already changing the way power markets work, with wide ranging consequences for the energy sector, including for conventional generation, networks and grid management. So how should power markets be designed to enable delivery of affordable, secure, clean power? And what can new technologies like Blockchain offer in terms of new market models, like 'peer-to-peer' trading?</p>

II. Customer-centric distributed grid models

Moderator: Anurag Gupta, Partner, Infrastructure, KPMG in Canada

In the future, how can utilities shift their mindset from being capital asset owners to distribution system operators that must rely on an intimate understanding of how to incentivize customers? Utilities must transition from asset ownership to brokers/managers of energy services that are competitively procured in an open market. This requires a new level of visibility and understanding into how incentives translate to customer behavior in order to adequately procure market services at the most competitive prices and ensure reliability. This session will include discussions around:

- Practical strategies utilities can employ to transition to a more customer-centric business model.
- Difficulties surrounding the utility's new role in managing energy services that are technology agnostic and based on competitive market principles.
- If customers respond to incentives, not penalties or obstructions. How can a utility develop the tools and capabilities to adequately assess the most effective way to incentivize customers?
- Use of emerging tools such as Blockchain and AI to provide new services to customers.

III. Accelerating sustainable energy innovation

Moderator: Thekla von Bülow, Manager, Deal Advisory, KPMG in Germany

Recognizing the need to significantly accelerate the pace of innovation in sustainable energy in order to meet the goals of the Paris Climate Agreement and reap broader economic benefits of energy innovation, the World Economic Forum launched the project 'Partnering to Accelerate Sustainable Energy Innovation' in collaboration with KPMG.

The global energy transition to a low-carbon future requires a systemic and multi-stakeholder approach. Regulatory policies, public-funding programs and innovation alliances are key catalysts necessary to reduce financial and regulatory hurdles of the energy innovation process.

In this panel session, we will present six 'bold ideas' with the potential to trigger a step change in sustainable energy innovation. The ideas were developed by the World Economic Forum in collaboration with KPMG with input from many expert interviews and public private dialogue events. These concepts and other insights are part of the whitepaper *Accelerating Sustainable Energy Innovation* that was launched during the Mission Innovation Ministerial Meeting in Malmö in May 2018.

It has been recognized that the current model for both public and private funding of sustainable energy innovation has a number of significant defects with the result that the innovators who are capable of developing disruptive deep-tech energy solutions are not getting sufficient access to public funding. We discuss the systemic weaknesses of financing instruments in place and present the project's proposal on a public-private co-investment fund to support and finance deep-tech sustainable energy innovations.

12:00–12:10pm

Room transition

12:10–12:50pm

Lunch

12:50–1:45pm

Keynote: Isabel Aguilera, Former President of General Electric, Spain and Portugal; Former Managing Director of Google, Spain and Portugal

1:45–2:10pm

Networking break

2:10–3:10pm

Panel II: Disruptive energy technology

Moderator: Vicky Parker, Partner, Power & Utilities, KPMG in the UK

The energy market is continuing to experience rapid change driven by new technologies and the use of data and analytics, greater consumer choice, regulation and policy, and the move to a decentralized energy system; change is happening far quicker but the pace varies significantly by market.

The traditional boundaries that have framed the way energy has been generated and consumed no longer apply. This also extends to who we now see operating within the sector with the introduction of a wide range of new players from startups to the largest technology players.

Increasingly affordable technologies drive multiple choices in renewable generation.

New technologies are emerging either to provide power, storage or allow for better management of energy. The ecosystem that surrounds energy now extends into energy, products, services, mobility and beyond.

Navigating through the choices available (what to invest in, when, how it affects the existing business models can be complex or indeed for many this will be seen as an opportunity). This session will focus on what's new, where could things go, and what does it mean.

3:10–3:30pm	Networking break
3:30–4:30pm	<p>Panel III: Driving convergence — P&U implications in an electrified transport era</p> <p>Moderator: Anurag Gupta, Partner, Infrastructure, KPMG in Canada</p> <p>Electric vehicles (EVs)/autonomous vehicles (AVs) are coming to our cities sooner than you think. And their adoption is already having massive implications for our power and utility companies. Demand patterns are changing; distribution models are shifting; significant commercial opportunities are being created. Our discussion will include:</p> <ul style="list-style-type: none"> — What impacts and changes to business models will EVs have? And if these changes are significant, are power and utility companies ready for these changes? — What are the implications for power system planning — for example, what is the future generation mix, the role of baseload, nuclear, renewables, distributed generation, storage, interconnection, etc.? — How will mobility-as-a-service drive the development of EVs/AVs and how does this change the impacts on infrastructure requirements/network requirements, etc.? — Are investors aware of the commercial opportunities that exist/may emerge? — Are policy makers, regulators and infrastructure planners making the right choices today to protect our power capabilities in the future? And does telecom regulation need to converge with power sector regulation as well for AVs? — What is the role of municipal authorities in EV (and AV) integration? How can they use their assets (real estate, parking and network) to enhance commercial opportunities from EV/AV usage?
4:30–5:10pm	<p>Keynote: Mechthild Wörsdörfer, Director of Sustainability, Technology and Outlooks (STO), International Energy Agency</p>
5:10–5:30pm	<p>Closing remarks</p> <p>Ted Surette, Global Head of Power & Utilities, KPMG Australia</p>

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