



Jumping the spark: how can innovation in the power system accelerate clean energy transitions in emerging economies?

Date and time: 21th March 2022, 09h00 CET (Paris time)

Background information

Clean energy transitions require a massive and urgent push towards renewable energy supply and demand side participation. The effective use of distributed energy resources, such as demand response, electric vehicles and charging infrastructure, building-level energy storage and distributed solar photovoltaics, will be increasingly important. Smart grids and digitally enabled demand side flexibility can ensure more dynamic, efficient, reliable and sustainable electricity systems and reduce the need for grid investments.

In IEA's Net-Zero by 2050 Scenario (NZE), nearly USD 4 trillion of annual investment in clean energy is needed by 2030, 70% of which in Emerging Market and Developing Economies (EMDEs), driven by network expansion to connect millions of new customers to the grid, growth in demand and to support the electrification of end-uses. EMDEs have the opportunity to develop and digitalise their grid at the same time, while leveraging lessons learned from earlier digital technology implementation and strategies in other countries. Innovation and new business models will play an important role in ensuring that the transition is achievable, affordable and inclusive.

The event

The IEA's Digital Demand-Driven Electricity Networks (3DEN) Initiative and Energy Systems Catapult are co-organising an expert webinar to explore opportunities for EMDEs to foster radical technological, market and policy innovation that could support the achievement of their objectives in terms of clean, affordable and reliable energy.

The IEA will present key insights for effective policy to [support clean energy start-ups](#), drawing on a series of case studies and in-depth interviews, while Energy Systems Catapult will share insights on opportunities to [digitalise energy systems](#), stimulate policy action, enabling regulatory frameworks, new business models and investments at scale, as well as innovation and technology deployment.

This will be followed by a number of short presentations and a lively moderated panel discussion exploring visions for future power systems, lessons learned, challenges



encountered and overcome, insights on how to enable and stimulate innovation and opportunities for novel pathways towards decarbonised and resilient power systems.

The IEA gratefully acknowledges the Italian Ministry for Ecological Transition for their support for this webinar as part of their contributions to IEA's [Digital Demand Driven Electricity Networks \(3DEN\) Initiative](#) on power system modernisation and effective utilisation of demand side resources through digitalisation and to the [Clean Energy Transitions Programme](#).

Agenda

Moderated by: Vida Rozite , 3DEN Project Manager, IEA, and Emi Bertoli , Energy Policy Analyst, IEA	
09h00	Welcome and opening remarks <ul style="list-style-type: none">• Brian Motherway, Head of Energy Efficiency Division, International Energy Agency• Laura Sandys, CBE, Non-Executive Director SGN & Energy System Catapult, Chair of the UK Government's Energy Digitalisation Taskforce
09h10	Scene setting on enabling framework for innovation in power systems <ul style="list-style-type: none">• Simon Bennett, Energy Technology Analyst, International Energy Agency• Richard Dobson, Practice Manager - Data Systems, Energy Systems Catapult
09h25	Presentations from innovators and moderated panel discussion <ul style="list-style-type: none">• Rahul Shelke, Managing Director, Ampere Hour• Rayeon Park, Strategy Lead, Gridwiz• Nithya Menon, Head of Products, Okra Solar• Linda-Maria Wadman, Chief Marketing Officer, Plexigrid
10h10	Q&A session
10h25	Closing
10h30	End of webinar

Registration - [Please register here](#)