



3DEN Initiative: implementing tomorrow's smart power systems

Co-organised by the International Energy Agency, the Italian Ministry of Environment and Energy Security and UN Environment Programme

Wednesday, 6 December 2023, 15:30 – 17:00 Italian Pavilion and livestreamed

Background

Modern and digital grids are vital to safeguard electricity security and ensure affordable clean energy transitions. In line with a global pathway to net zero emissions by 2050, [grid investment](#) nearly doubles by 2030 to over USD 600 billion per year after over a decade of stagnation, with emphasis on digitalisation, which plays a critical role in enhancing the reliability, flexibility and efficiency of power systems. In most emerging market and developing economies (EMDEs), grid investment is falling behind, a worrying signal given the prospect of rapid increases in electricity demand.

To meet this challenge, measures must be taken in the regulatory, financing and technology fields, including for accelerating innovation and development of solutions that can be scaled up and replicated. International collaboration and sharing of learnings is paramount to accelerate implementation around the world.

Under the [Digital Demand-Driven Electricity Networks Initiative \(3DEN\)](#) initiative, supported by the Italian Ministry of Environment and Energy Security, the IEA [has developed guidance](#) and analysis to help inform policy making in emerging economies, notably on opportunities to scale up investment in power infrastructure, ensuring the benefits associated with digital investments are widely shared.

The Italian Ministry of Environment and Energy Security and the UN Environment Programme are supporting the implementation of [pilot projects in Brazil, Colombia, India and Morocco](#) that are developing and testing solutions using digital technologies for flexible and resilient energy systems. The projects are providing on-the-ground insights and disseminating learnings that will feed into the [3DEN initiative and be shared widely to inform policy making](#).



The event

The event will bring together international organisations, leading private sector and representatives from emerging economies to share visions for the policy and technology context needed to enable smarter power systems of tomorrow, present initial findings from demonstrations and projects on the ground on ways to leverage digitalisation towards power system decarbonisation and gather their insights on opportunities to further accelerate implementation and amplify impact.

Agenda

6th December, 15:30 – 17:00	
Moderator: Alessandra Fianza, Senior Advisor, Italian Ministry of Environment and Energy Security	
15h30	Welcoming remarks <ul style="list-style-type: none">• Francesco Corvaro, Special Envoy for Climate Change, Italian Ministry of Environment and Energy Security• Brian Motherway, Head of Energy Efficiency and Inclusive Transitions Office, International Energy Agency• Ruth Zugman do Coutto, Chief (a.i), Energy and Climate Branch, Industry and Economy Division, UN Environment Programme
15h50	Keynote speeches <ul style="list-style-type: none">• Dario Liguti, Director, United Nations Economic Commission for Europe• Mario Motta, Rector's Delegate for the Energy Transition, Politecnico di Milano



16h10	Panel Discussion Moderator: Annalidia Pansini, Senior Advisor, Italian Ministry of Environment and Energy Security Scene setting: Pablo Hevia-Koch, Acting Head of Renewable Integration and Secure Electricity Unit, International Energy Agency <ul style="list-style-type: none">• Viviana Vitto, Head of Market Strategy and Regulatory Analysis, Enel Grids and Innovability, Enel Group• Aicha Kouraich, Chief Sustainability Officer, Les Eaux Minérales d'Oulmès• Pankaj Agarwal, Chief Executive Officer, Panitek• Daniele Russolillo, COO & Deputy CEO, Planet Smart City• Akanksha Sharma, Head of ClimateTech and Digital Utilities, GSM Association
16h55	Closing remarks <ul style="list-style-type: none">• Luciano Martini, Executive Committee Chair, International Smart Grid Action Network (ISGAN), and Director, Green Powered Future Mission