

# Recap – First Session «How To Target Net Zero»

- *Evaluating the European effort to take the lead on smart grids technologies* (Buchel, E.DSO, Enedis)
  - FF55, Digitalisation, Sustainability and Reliability of the network as the most important elements to focus on in order to face current challenging times and to reach net-zero
- *Combining sustainability and grid development* (Cammisecra, ENEL)
  - Cooperation among energy actors as the key element to reach net-zero, as well as coordination among DSOs on the evolution of infrastructures
  - ENEL commitment to implement innovative and sustainable solutions by definition for a decarbonised world.
- **PANEL - ASIA**
  - **JAPAN** (Ikeda, Tokyo Electric Power Grid)
    - Customer-sited renewables, storage and smart load technologies as elements of Japan's net-zero strategy
    - Focus on flickering lights and how to avoid them
  - **INDIA** (Srinivan, Tata)
    - TATA commitment towards net-zero by 2050
    - Focus on major barriers and uncertainties to achieve net-zero and ground level technological intervention to reach carbon neutrality

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- KOREA (Shin, Kepco)
  - Carbon neutrality policy in Korea, with the objective to reach net-zero by 2050
  - KEPCO commitment to build a strong smart grid research and demonstrations on Jeju Island
- CHINA (Shang, China EPRI)
  - Focus on net-zero strategies in China
  - Analysis of activities at China EPRI to face some energy distribution challenges in the country (focus on system planning, power dispatching and maintenance)
- Q&A SESSION
  - COVID-19 impact on decarbonization strategies
  - Investments to reach net-zero, smart meter development
  - Zero-trust cybersecurity approach in the distribution sector
- *Vision and support from the IEA* (Cozzi, IEA)
  - Focus on the need for a huge scale up of clean energy investment to reach net -zero
  - Focus on the huge opportunity of creating clean energy jobs, alongside the implementation of inclusive policies needed to support reskilling and diversification in fossil-fuel dependent communities

# Recap – Second Session «Coupling Resilience With Grid Modernization And Expanding Prosumers Market»

- *A word from Europe* (Torsten, E.ON)
  - Focus on E.ON and the lessons learned from 2021 floods emergency in Germany
  - Response to the German emergency in three phases: Resupply, Stabilization, Reconstruction
  - Crisis-proof grids are part of smart-grids enabling the carbonization. Digitalised smart grids combine grid resilience and system integration of renewables
- *The weight of resilience on the investments* (Speaks-Backman, US Dept. of Energy)
  - Commitment of the US to reach net-zero no later than 2050
  - The mission is to accelerate R&D of energy technologies while promoting growth and jobs
  - Five priorities of the US Dept. of Energy to aid the transition: decarbonise grid, decarbonise transportation, decarbonise the industrial sector, decarbonise the agricultural sector and reduce the carbon footprint of buildings.
- *Combining mature and rapidly expanding grids in two continents* (Rios, Iberdrola)
  - Link between the climate crisis and resilience of grids
  - Examples of recent weather extreme events in Spain, UK and the US
  - As climate change increasingly affects the world, there is need to improve resilience to serve the energy transition. That is why electricity networks need to ramp up investment.



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- PANEL – NORTH AND SOUTH AMERICA

- JONES (Edison Electric Institute – North America)
  - Analysis on the increasing complexity of the distribution field and the crucial role of DSOs, on resilience, on supply chain, on the need to develop mutual assistance programs in the cyber field
- PATEL (Southern California Edison – North America)
  - Explained Southern California Edison's perspective to achieve California's climate change goals
  - Southern California Edison is at the forefront of planning a grid that integrates widespread distributed resources, integrates the customer for flexibility, supports fast adoption of electric transportation and maintains resiliency with the threat of disasters related to climate and cyber security concerns
- GOGAN (Wec Energy Group – North America)
  - Analysis on the implementation of the grid modernization strategy to improve reliability of the energy sector in Northern Wisconsin
- KETSCHKE (Con Edison – North America)
  - Con Edison has been a leader in defining the next generation grid in New York, providing platforms for prosumers to participate in grid reliability
  - Focus on the efforts to maintain resiliency while supporting the transition to net-zero.

# Recap – Second Session «Coupling Resilience With Grid Modernization And Expanding Prosumers Market»

- CASTANEDA (Adelat – South America)
  - Analysis on Adelat experience in South America about the challenges of investing for reliability and resilience of the distribution systems while planning for a transition to net-zero
- CARETO (E-REDES – South America)
  - Analysis from the EDP and E-REDES perspective about the electricity distribution business in Portugal, Spain and Brazil
  - Focus on the need for investments in the distribution sector worldwide and the commitment to innovation & digitalization
- VILLASANTE (Grupo Energia Bogota – South America)
  - Provided a perspective from distribution companies in Latin America committed to Decarbonization, Digitalization, Electrification, Decentralization
  - Focus on challenges that they are experiencing while investing for resiliency and reliability expectations and planning for future requirements on the path to net zero
- Q&A
  - Use of Advanced Metering Infrastructure
  - Local Energy Markets
- Conclusions made by KRISTIAN RUBY

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