



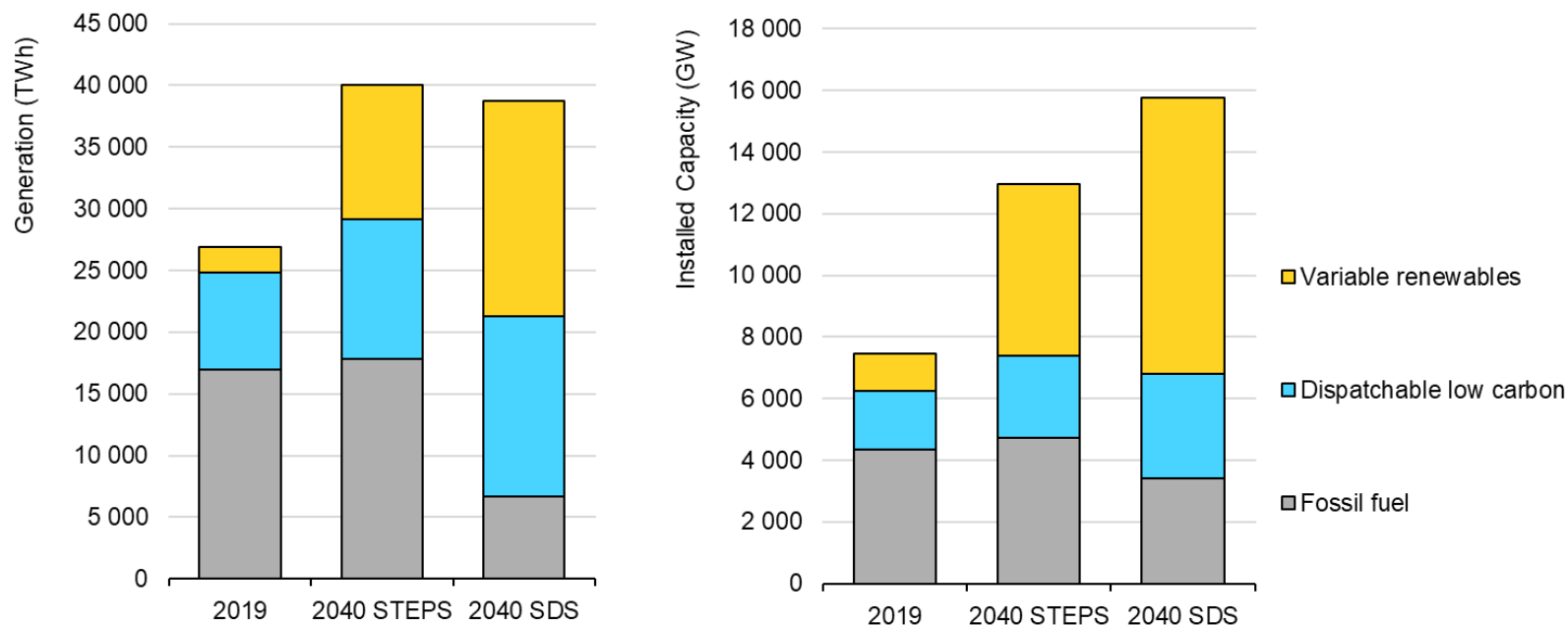
# **Power systems in transition: The role of grid networks for electricity security**

Keisuke Sadamori, Director of Energy Markets and Security, IEA

Mediterranean Project 2 Closing Conference, 28 October 2020

# Increase in VRE calls for more flexibility when dispatchability declines

Global electricity production and capacity in 2019 and 2040

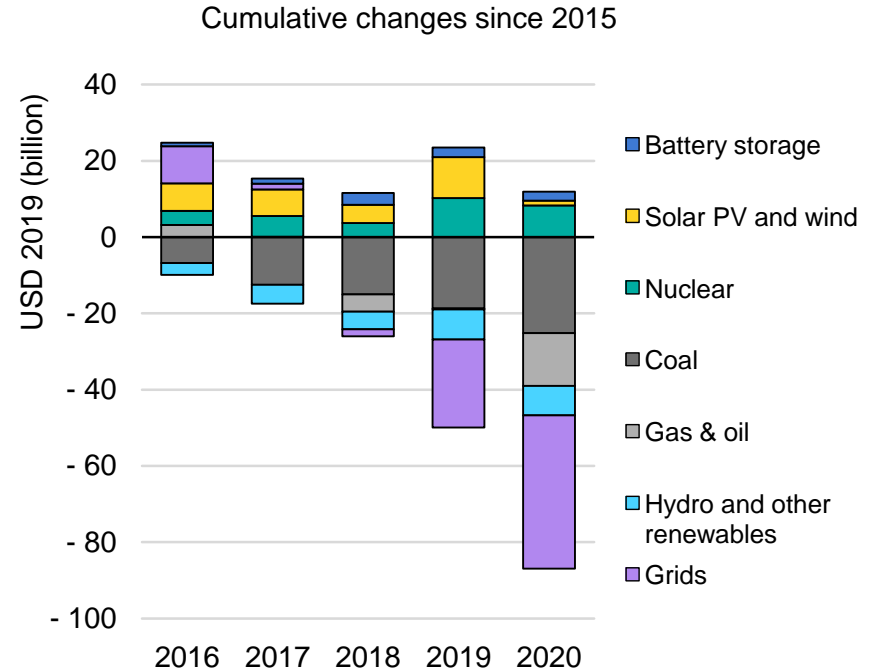
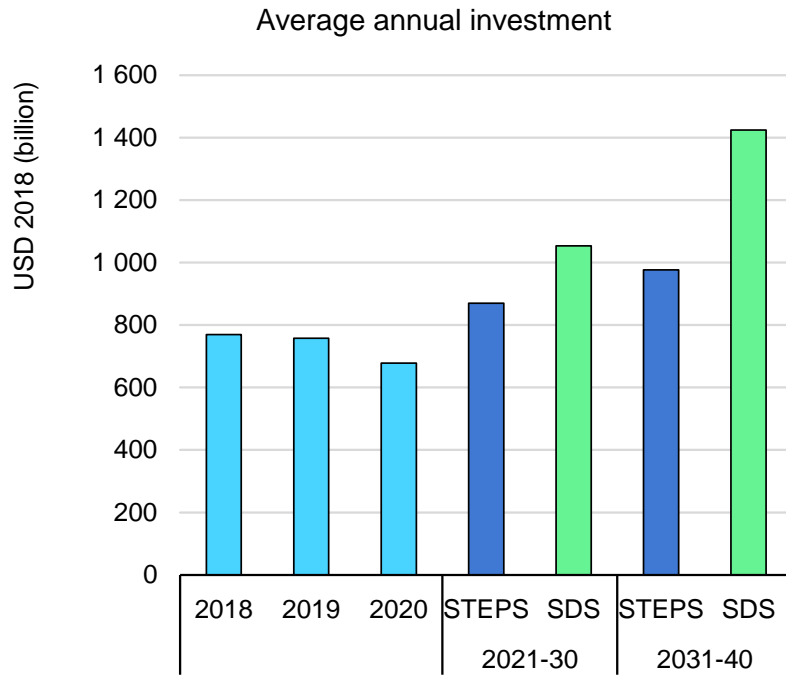


STEPS = Stated Policies Scenario  
SDS = Sustainable Development Scenario

**Flexibility sources, low carbon ones in particular, need to keep up with the rapid growth in variable renewables**

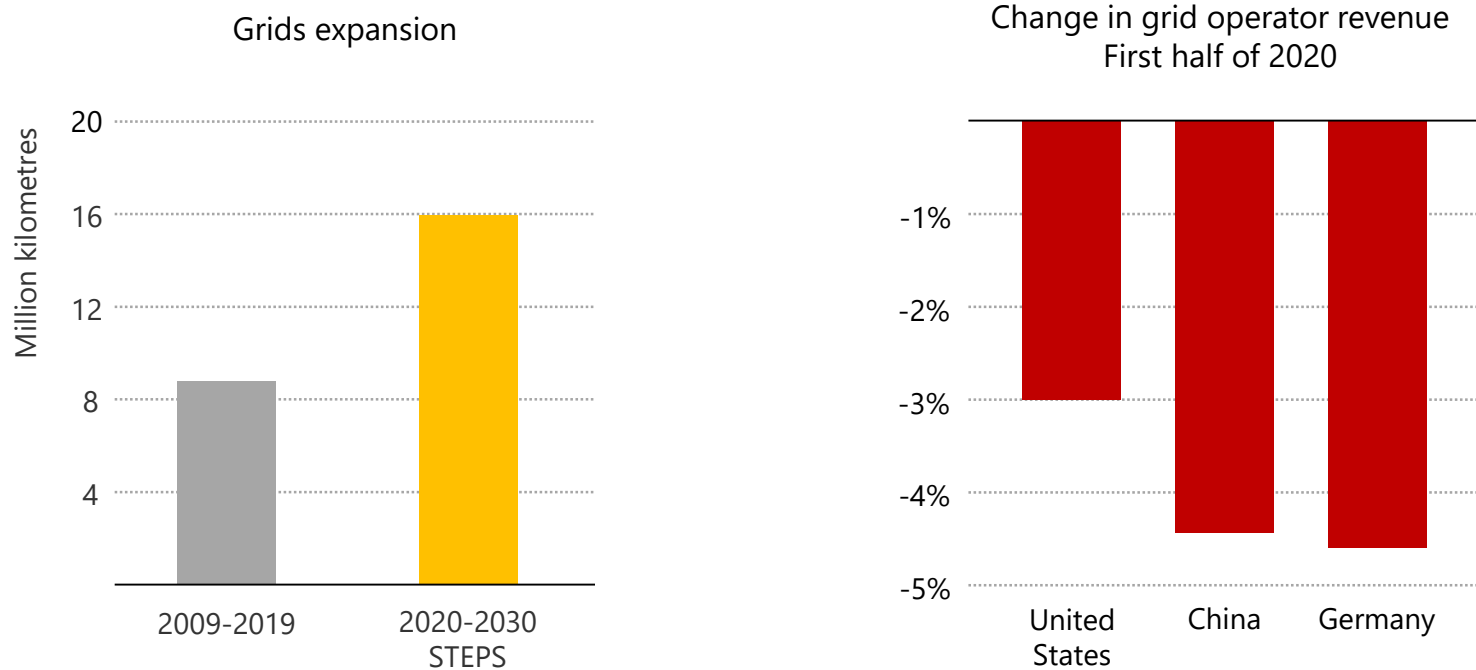
# Investment in power is faltering when it needs to pick up

## Global power investment



**Investments in aspects of secure & sustainable systems – grids, storage, flexibility – are lagging behind**

# Grids are the bedrock of a clean & secure electricity future



Electricity transformations require a step up in grids expansion to ensure that electricity remains reliable, affordable and secure, however depressed revenues are creating risks for timely investment.

# Establishing Multilateral Power Trade in ASEAN

- In 2019 IEA published the study “Establishing Multilateral Power Trade in ASEAN”
- The study provides clear recommendations for ASEAN to progress in creating market frameworks and institutions to utilise cross-border power grids
- The study also outlines the main benefits of Multilateral Power Trade



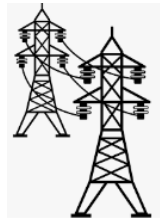
Environmental



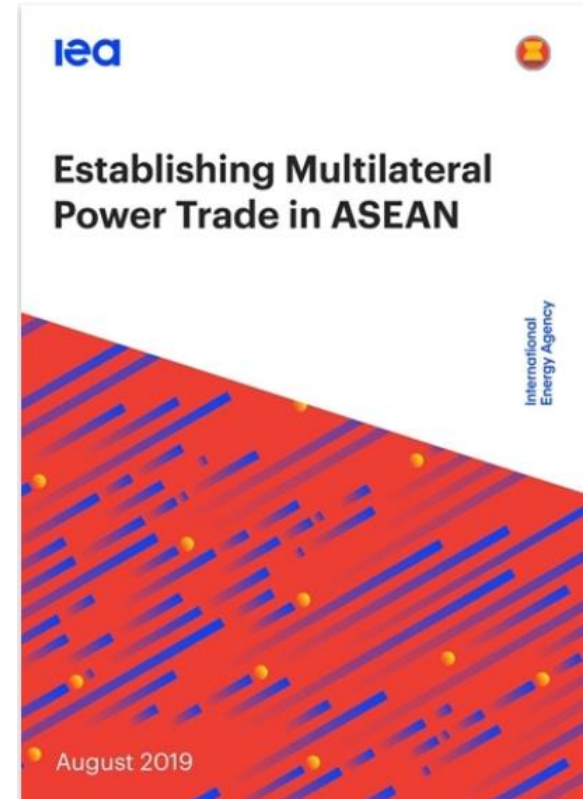
Flexibility



Economic



Security



led