

KEY ROLE OF POWER SYSTEMS IN DECARBONIZING HUMAN ACTIVITIES: HOW TO ENSURE SECURITY AND RELIABILITY

Industrial Distinguished Lecture Program,
sponsored by IEEE Italy Section
and Italy IEEE PES Chapter

Speaker

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Politecnico di Milano - DEIB
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This event will be online
from 8.45 am to 10.15 am



ABSTRACT

The presentation will offer an international perspective on renewable energy integration in the power systems, along with current and future challenges set by the ambitious targets on renewable energy sources. Keeping the grid reliable and secure as renewable growth accelerates are significant industry concerns. The core of the presentation will focus on the measures to be undertaken to ensure a smooth transition to progressively decarbonized power systems transforming potential threats into opportunities. A mix of solutions will be discussed such as the role of transmission network and related assets (from Var compensation equipment to synchronous condensers); evolution of market models and market integration; measures to enhance flexibility (storage, role of EV, non-conventional devices and solutions); interaction between TSO/DSO and digitalization.

SPEAKER BIO

Bruno Cova has a MSc in Electrical Engineering. Since 1986 he has been working in Milan for CESI, where he is at present the director of Systems Planning Unit. He has extensive experience of transmission planning and feasibility studies relevant to power system interconnections and generation from renewable sources, notably in Europe, the southern and eastern Mediterranean region and some countries of Latin America and sub-Saharan Africa.

He has been convenor of CIGRÉ WG C1.4 “Applications and required developments of dynamic models to support practical planning”. In 2007 he received the CIGRÉ Technical Committee award in recognition of his outstanding contribution to Study Committee C1 “System Development and Economics”, where he still serves as Italian Officer. From 2014 he is CIGRÉ distinguished member.

He is author of more than 70 papers presented at international and national conferences.

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