ISGAN INTERNATIONAL SMART GRID ACTION NETWORK | cem CLEAN ENERGY MINISTERIAL

ISGAN WEBINAR

ISGAN WORKING GROUP 6 POWER TRANSMISSION AND DISTRIBUTION SYSTEMS

Grid Forming *& their impact*

on the power system

14 April 2026 | 14:00 – 16:00 CET | **ONLINE**

As power systems transition to high shares of inverter-based resources, grid-forming (GFM) technology is emerging as a critical enabler of stability and resilience. Unlike conventional grid-following inverters, GFM converters actively shape voltage and frequency, providing the synthetic inertia and damping that modern grids increasingly require. This webinar brings together leading researchers from across Europe to explore the latest advances in GFM control, real-world deployment experiences, and the regulatory landscape shaping adoption.

WHAT YOU'LL LEARN

01 **GFM vs Grid-Following**
Core principles & control architectures

02 **Synthetic Inertia**
Virtual oscillator & droop control

03 **Stability in IBR Grids**
Frequency & voltage at high penetration

04 **Grid-Forming Loads**
Modern power system applications

05 **Standards & Grid Codes**
Emerging requirements & certification

06 **Project Outcomes**
Results and lessons learned

SPEAKERS

SPEAKER
Oriol Gomis-Bellmunt
Universitat Politècnica de Catalunya
Spain
"Grid Forming Loads for Modern Power Systems"

SPEAKER
Alexander Fuchs
ETH Zurich
Switzerland
"Stability of Transmission and Distribution Networks with Grid-Forming Converters"

SPEAKER
Adolfo Anta
AIT Austrian Institute of Technology
Austria
"Grid-Forming in Distribution Grids: The Austrian Experience"

SPEAKER
Szymon Werminski
RWTH Aachen University
Germany
"Dynamic Stability of Power Systems with Inverter-Based Resources and Grid-Forming Converters"

Expert Q&A Session
Live interactive discussion with all speakers — bring your questions on grid-forming technology

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