



GO15

Activity Report 2025

GO15

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1. Message from the Secretary General

— 2025: A Year of Challenge and Collaboration

The past year has reaffirmed that power system reliability is a non-negotiable, strategic imperative for economies and societies worldwide. A blackout in April in the Iberian Peninsula left 22 million without power. Major disruptions left millions without electricity in Chili, Sri Lanka and elsewhere. They underscore the complex challenges facing modern power grids. These events occur against the background of a profound energy transition, characterized by the accelerating integration of intermittent renewable energy sources such as photovoltaics (PV) or wind generation. In this dynamic landscape, the mission of GO15, the global association of very large power grid operators, has never been more critical: to foster collaboration and share expertise to ensure the security and resilience of electricity systems everywhere.

— Confronting the Challenge of Power System Stability

System stability has historically been anchored by the inherent inertia provided by synchronous rotating masses in traditional power plants. Inverter Based Resources (IBRs) such as PV and wind generation, while essential for decarbonization, do not naturally provide this inertia.

The industry sees the deployment of new technology: advanced power electronics, Grid-Forming inverters, and other solutions to create the «synthetic inertia». Following our Position Paper on «Stability & Inertia,» we produced in 2025 a comprehensive report on Energy Storage. The critical role of storage—from Battery Electric Storage Systems (BESS) to pumped hydro—as a cornerstone for flexibility and reliability was the focus of our dedicated International Forum, organized by China Southern Power Grid (CSG) in Shenzhen last April. This Forum took place before GO15 Governing Board meeting hosted by CSG, that was followed by impressive field and cultural visits in Guangzhou province.

— Navigating Market Dynamics and Operational Realities

Technology is important, but its integration must be managed with vigilance. GO15 members emphasize that all generators contribute to the system stability. IBR providers must ultimately deliver the same rigorous standard of grid service as traditional generators. Furthermore, market rules now have a direct and growing impact on physical reliability. Instances where generators disconnect during negative price periods—an increasingly frequent phenomenon during renewable generation peaks—introduce new volatility and may lead to massive share of generation suddenly tripping from the grid. These complex intersections of market design and system security were a key theme at the joint GO15-APEx Conference organized by KPX in Seoul last October, gathering over 150 global experts. KPX hosted the conference together with GO15 Steering Board and Annual meetings. These, besides technical and cultural visits, enabled our Board members to exchange strategic issues.

— The GO15 Model: Leadership, Trust, and Tangible Exchange

Entering its 22nd year, GO15's unique value proposition continues to deliver results. Our model is built on trusted, high-level relationships and actionable knowledge sharing:

- **Strategic Leadership Dialogue:** Our Steering Board, composed of CEOs and C-level executives, meets in person at least once a year, besides online meetings. The 2025 Annual CEO Meeting in Seoul, hosted by KPX, provided an invaluable forum for strategic discussion on common challenges. The Governing Board, which oversees the technical topics addressed by GO15, besides its frequent online meetings, had its annual in-person meeting in Shenzhen, hosted by CSG.
- **Continuous Technical Exchange:** Beyond leadership summits, collaboration thrives year-round through working groups, webinars, and member-requested surveys. Information to all membership of major events in the field in the form of News Desks broadcast.
- **Fostering Bilateral Cooperation:** The trust built within GO15 catalyzes direct collaboration between members. A significant personnel exchange program between California ISO and Grid-India in 2025 stands as a witness to this, fostering direct learning and strengthening global ties.
- **Participating in the Global Debate:** GO15 actively shapes the international energy conversation. Throughout 2025, our members and Secretary General contributed to major global forums in India, China, Canada, and Italy, or COP30 in Belém, with presence of SGCC and ONS CEO, ensuring the voice of large system operators is heard.

— A Growing Alliance for a Secure Energy Future

We are proud to welcome IPTO, the Independent Power Transmission Operator of Greece and the Swiss operator Swissgrid, as new members in 2025, a clear endorsement of our community's relevance. As we look ahead, the lessons of the past year are clear. Guaranteeing reliability amidst energy transition demands unwavering focus, technological innovation, adapted market frameworks, and—above all—unprecedented global cooperation. GO15 remains a unique association where the world's leading grid operators come together to turn these challenges into shared solutions, lighting the way for a reliable, affordable and sustainable future.

2. GO15 goals and Strategy

— Fostering communication and collaboration between members

- Sharing best practices and benchmarking
- Delivering strategic messages to key stakeholders
- Allowing for in-depth exchanges on technical shared topics

— Explaining the challenges of power system operators with policy makers and regulatory bodies

— Reinforcing GO15 global visibility

3. Governance

**Steering board:
high-level exchanges and strategic
decisions**

CEO-LEVEL REPRESENTATIVES

**Governing board:
technical work and strategic
recommendations**

HIGH-LEVEL REPRESENTATIVES

**Officers:
GO15 operational management**

2026 GO15 PRESIDENT (elected for one year)



Stu Bresler,
COO of PJM Interconnection

2026 GO15 VICE-PRESIDENTS
(former and future Presidents)



Marcio Rea,
CEO of ONS



Hong-geun Kim,
Acting CEO of KPX

SECRETARY GENERAL

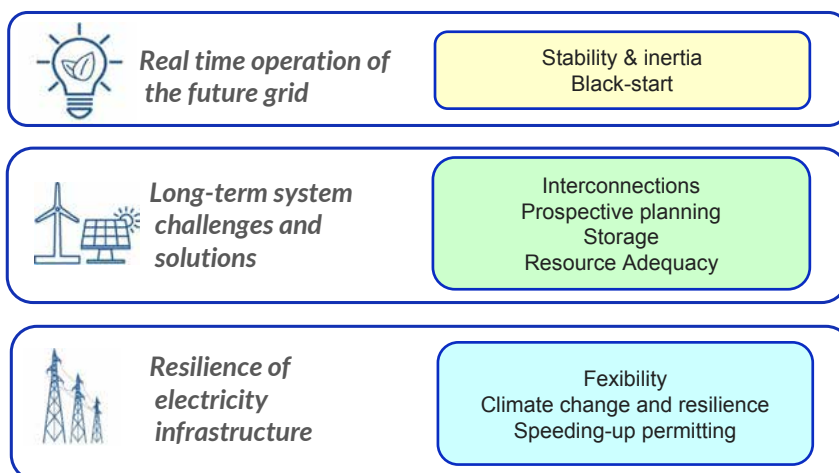


Bruno Meyer

4. Technical activity

4.1 THE STRATEGIC WORKING GROUPS

The technical activity carried out in 2025 was split in the following three groups:



— Block “Real time operation of the future grid”

Stability & inertia

These topics were led by Terna (Giorgio Giannuzzi and Cosimo Pisani). The working group has built a comprehensive 50-page document. In addition to Terna, the report was produced with contributions from several GO15 members (Grid India, NTCSA, SO-UPS, CAISO, GCCIA and ONS). The report is achieved by a list of recommendations split in three groups: policy and planning level, regulatory level, and technical level. The content of the document has been disseminated via a webinar held in March 2025.

— Block “Long-term system challenges and solutions”

Storage

This topic was led by RTE (Claire Lajoie-Mazenc). An intensive workshop was held in Shenzhen on April 7th. It addressed the various questions raised by the analysis of the survey for the final 2025 report. The workshop covered comparative analyses of storage technologies, policy and planning approaches, case studies, and best practices. It concluded with a consolidated list of action items to be undertaken for future work, including the preparation of summary documents, development of position statements, and ongoing technology monitoring. The importance of adapting storage solutions to local conditions and the need to adapt both market and policy-oriented approaches were emphasized. Discussions focused primarily

on the study of Battery Energy Storage Systems (BESS) and the challenges related to their integration, as well as on the conditions and challenges of their operation and the management of generation flows from storage. In this regard, CAISO's experience in the large-scale development of battery energy storage proved invaluable.

In parallel with the workshop, CSG conducted technical visits, some of which focused on energy storage: the Shenzhen pumped-storage hydroelectric plant and the Lianhua Hill supercharged power station.

A document prepared by the working group was presented at the CIGRE symposium in Montreal. This document includes the results of the 2024 GO15 survey as well as a section analyzing the observed differences. A new survey, conducted by Stanislav Utts (SO-UPS), was launched in 2025 and would be followed in 2026.

— Block “resilience of electricity infrastructure”

Climate change and resilience

This topic was led by Terna (Silverio Casulli). Following a questionnaire conducted in 2024, the final results were presented during a webinar held in April. The main findings of the survey and the webinar can be summarized as follows:

- Climate change is a major challenge for the planning and operation of transmission grids across TSOs. Key climate threats include wind, hurricanes, tornadoes, snow/ice, and heat waves.
- Overhead lines are the most affected assets, especially insulators, towers, foundations, and conductors.
- Only a few TSOs perform resilience analyses, and even fewer integrate climate change into them.
- Climate models are mainly used to assess RES productivity rather than grid resilience.
- Most TSOs do not analyze climate impacts on supply chains or demand-generation mix changes.
- Utilities agree that resilience requires more than infrastructure upgrades and interconnections.
- Preventive actions, restoration strategies, and mitigation measures are widely planned.
- AI, machine learning, and monitoring technologies support forecasting, decision-making, and emergency response.

Speeding-up permitting

This topic was led by Terna (Giuseppe Bonavita). Following a questionnaire conducted in 2024, the final results were presented at a webinar held in July. A final report was published, detailing efforts undertaken to accelerate grid development, which is essential for the energy transition. This report covers the EU legislative framework and the specific reforms carried out in Italy led by Terna, highlighting the shift from sequential authorization procedure to a parallel and simplified one. The document also outlines Terna's 2025-2034 National Development Plan, including projections of growing electricity demand, projects for significant transmission capacity expansion (e.g., ELMED, Tyrrhenian Link), and the «target capacity»

methodology used to guide efficient grid investment. A key risk noted is the potential expiry or non-extension of the EU Environmental Impact Assessment (EIA) exemption, which applied to projects where the permitting process started before June 30, 2025, and had previously streamlined approvals for strategic projects.

4.2 THE SURVEYS

Over the course of 2025, 8 surveys were carried out. The topics and initiators of the surveys were as follows:

- SCADA & EMS (Grid India).
- Solar & wind grid code (ONS).
- Power quality (ONS).
- Corona and Geomagnetic Induced Currents (Transpower).
- Storage and market (SO-UPS).
- EMS design (ONS).
- Climate resilience (ONS).
- Control Center requirements (Grid India).

N.B. A survey can be launched on the initiative of any member. It was agreed that the requesting member fills in the survey first, so all members have a global idea of what is expected. The survey is sent to all members, but it is not compulsory to respond. At any rate, the conclusions of all surveys are shared with all members, not only the ones who answered.

One suggestion is that the presentation of each survey be in the form of GO15 Webinar.

4.3 THE WEBINARS

Over the course of 2025, 20 webinars were organized, from January to December. On average, 40 to 50 people attended each webinar with around 12 different member companies attending online. The full list of webinars is available below. All recordings are available on GO15 website:

► [Webinars - GO15](#)

Grid Interconnections & HVDC projects: GEIDCO & IPTO - December 4, 2025

Introducing K-EMS – KPX - November 25, 2025

A New Zealand view of Space weather – Transpower - November 17, 2025

Transpower and New Zealand power system – Transpower - October 31, 2025

Renewable Energy Development in CSG -

Energy Transition and Curtailment in Brazil – ONS -

Load Growth Challenges in PJM -

Driving the Energy Transition in Greece – IPTO -

Analysis of Temporary Overvoltage Problems in areas with high PV penetration – KPX -

The power sector and the energy transition: a vision from IRENA - September 11, 2025

Speeding-up permitting for grid development – Terna - July 16, 2025

European Network Development Plan – TYNDP24 – ENTSO-E - April 29, 2025

Storage as a transmission asset in the grid of the future – Saft-TotalEnergies - April 23, 2025

Climate Change - April 15, 2025

Electro-cyber security -TEPCO - March 31, 2025

Inertia and Stability - March 28, 2025

EPEXspot – presentation - March 17, 2025

Swissgrid – presentation, March 17, 2025 -

Power Systems and Society 5.0 – TEPCO - January 30, 2025

openWAMS: A Deep Dive into ONS's Open-Platform Synchrophasor Project - January 14, 2025

5. Steering and Governing Board meetings

5.1 STEERING BOARD MEETINGS

During 2025, three Steering Board meetings were held, one physical in Seoul on October 27th, combined with the annual meeting and the GO15-APEX forum, two remotely on March 17th and June 23rd.



Participants to the Steering Board meetings in Seoul

At the annual meeting, Steering Board members have elected 2026 GO15 officers:

President: Mr Stu Bresler, PJM Chief Operating Officer

Incoming Vice-President: Mr Marcio Rea, ONS Managing Director

Vice-President: Mr Hong-geun Kim, KPX acting CEO

Secretary General and Treasurer: Mr Bruno Meyer.

5.2 GOVERNING BOARD MEETINGS

During 2025, two Governing Board meetings were held, one physically in Shenzhen on April 7th, one remotely on October 9th.



Participants to the Governing Board meeting in Shenzhen

6. GO15 – APEx joint Conference

GO15 co-organized its Joint Conference in Seoul on October 26th-27th, 2025, hosted by GO15 member and Korean power grid operator KPX, gathering circa 150 participants from around the world.

7. Participation in members' or global events & exchanges between members

- Grid-India's S.R. Narasimhan chaired the 5th World Utility Summit in India (February 2025):

www.go15.org/2025/02/28/s-r-narashiman-chaired-the-5th-world-utility-summit/



- GO15 takes part in SGCC International Forum on Power System Transformation (May 2025):

www.go15.org/2025/05/23/go15-took-part-in-sgccs-international-forum-on-power-system-transformation-2025/



- New GO15 member, Greek power grid operator IPTO, has taken part in the global “The Big Switch” Conference (September 2025):

www.go15.org/2025/09/22/greek-independent-power-system-operator-contributed-in-the-big-switch-conference/

- Grid-India and CAISO have strengthened collaboration between members through an Employee Exchange Program (October 2025):

www.go15.org/2025/11/07/grid-india-caiso-strengthen-collaboration-through-their-employee-exchange-program/



8. Communication

8.1 NEWS DESK

- 62 News Desks over the year :

An average opening rate of 26%

— Our top #3 News Desks this year:

- NERC warns about new resources needed to face America’s escalating energy demand (January 2025):

www.go15.org/2025/01/17/nerc-warns-about-new-resources-needed-to-face-americas-escalating-energy-demand/

News Desk

JANUARY 17, 2025
#2

NERC warns about new resources needed to face America's escalating energy demand

US non-profit organization NERC has warned on the “explosive” demand growth in America and the new resources needed to face this development over the coming years in its latest Long-Term Reliability Assessment, published last December.

The report quotes new data centers and electrification in various sectors, including large commercial and industrial loads, as main drivers for this growth. As an example, summer peak demand forecast is projected to rise by more than 122 GW over the next ten years (15.7% higher than the current level).

According to Mark Olson, NERC’s manager of Reliability Assessments, “demand growth is now higher than at any point in the last two decades, and meeting future energy needs in all seasons presents unique challenges in forecasting and planning.”

- MISO and the Organization of MISO states release annual survey results highlighting resource adequacy challenge (June 2025):

www.go15.org/2025/06/25/miso-and-oms-release-annual-survey-results-highlighting-resource-adequacy-challenge/

- PJM to deploy Google AI tools to speed up connections to the grid (April 2025):

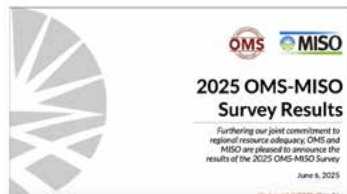
www.go15.org/2025/04/28/pjm-to-deploy-google-ai-tools-to-speed-up-connections-to-the-grid/

JUNE 25, 2025
#29

MISO and OMS release annual survey results highlighting resource adequacy challenge

GO15 member MISO and the Organization of MISO States (OMS) have released their 2025 survey results, indicating the MISO region in the US could see resource sufficiency ranging from a 1.4 GW deficit to 6.4 GW surplus of Summer Accredited Capacity by the 2027/28 planning year, depending on the pace of resource additions. MISO improved its ability to price the value of accredited capacity through adoption of a Reliability-Based Demand Curve this year.

The 2025 survey's key findings indicate recent and upcoming resource adequacy reforms – including a shift to a seasonal construct and the Reliability-Based Demand Curve, plus upcoming accreditation improvements – will enhance MISO's and its utilities' ability to assess operational risks tied to a shifting resource mix and large load additions.



PJM to deploy Google AI tools to speed up connections to the grid

GO15 member and US power grid operator PJM has announced it would launch a multiyear collaboration with Google and Tapestry - an Alphabet specialized moonshot - to use artificial intelligence tools to help speed up interconnections.


This partnership is aiming at cutting processing times for the review of new interconnection applications, allowing for quicker action in meeting the fast-growing demand for electricity in PJM's service area of 13 states and D.C.

According to Aftab Khan, PJM's Executive Vice President – Operations, Planning & Security, "PJM is committed to bringing new generation onto the system as quickly and reliably as possible. We're leveraging some of the world's best capabilities with these cutting-edge tools to further reduce completion times for New Service Requests."

8.2 LINKEDIN

- 156 posts
- 3696 followers
- 805 new followers from January to December 2025
- 82K impressions
- An average engagement rate of **7.1%**

— Our top #3 posts this year:

GO 15. Reliable and Sustainable Power Grids
3 648 abonnés
3 sem. • 

ENTSO-E has published the draft list of electricity infrastructure projects to be assessed in the next edition of its Ten-Year Network Development Plan (#TYNDP).

This draft #TYNDP2026 project portfolio includes:


- 178 transmission projects
- 49 storage projects


Submitted during the April–May 2025 window, these projects are now undergoing administrative and technical verification.
#energyinfrastructure #powergrids #griddevelopment

You may discover ENTSO-E's #TYND project map here: <https://lnkd.in/eZyVsk7>

https://lnkd.in/eSRF2_h

Afficher la traduction



GO 15. Reliable and Sustainable Power Grids
3 648 abonnés
9 mois • 

The **World Utility Summit** has taken place on February 23–25 in India, under the leadership of **Narasimhan S.R.**, **Grid Controller of India Limited** Chairman & Managing Director, a **GO 15. Reliable and Sustainable Power Grids** member. For this 5th edition, the focus was on “Empowering Utilities: Transforming Energy Challenges into Resilient Future”.

Bruno Meyer, #GO15 Secretary General, took part in two panels during the event:

- Driving Innovation: Industry Perspectives on Future-Ready Utilities
- Energizing a Green Grid: Decarbonization meets Distributed Solutions - DNV

Congratulations **Grid Controller of India Limited** for the organization of this important moment of exchanges for global energy leaders!
#WUS2025 #powergrids #energy

<https://lnkd.in/eNZaSMmi>

Afficher la traduction



GO 15. Reliable and Sustainable Power Grids
3 648 abonnés
2 mois • Modifié • 

Manos Manousakis, CEO of IPTO (IPTO-Independent Power Transmission Operator), has taken part in the **Renewables Grid Initiative** annual conference “#TheBigSwitch” in Brussels on September 18th.

Mr Manousakis was part of a panel on “Key enablers for grid integration: System adequacy in a #decarbonized Europe”. He highlighted the need for an institutional dialogue between Governments, Operators and Regulators to define the strategy for the next steps in the development of electricity networks.

He also shared the Greek Power System Operator perspective on the conditions required for a successful, timely and affordable energy transition, taking into account aspects related to generation, supply, and demand.
#powergrids

https://lnkd.in/eb4P_JFS

Afficher la traduction



Greek Independent Power System Operator contributed in “The Big Switch” conference - GO15
go15.org

 Juliette Boidot et 53 autres personnes

4 republications

8.3 COMMUNICATIONS TOOLS

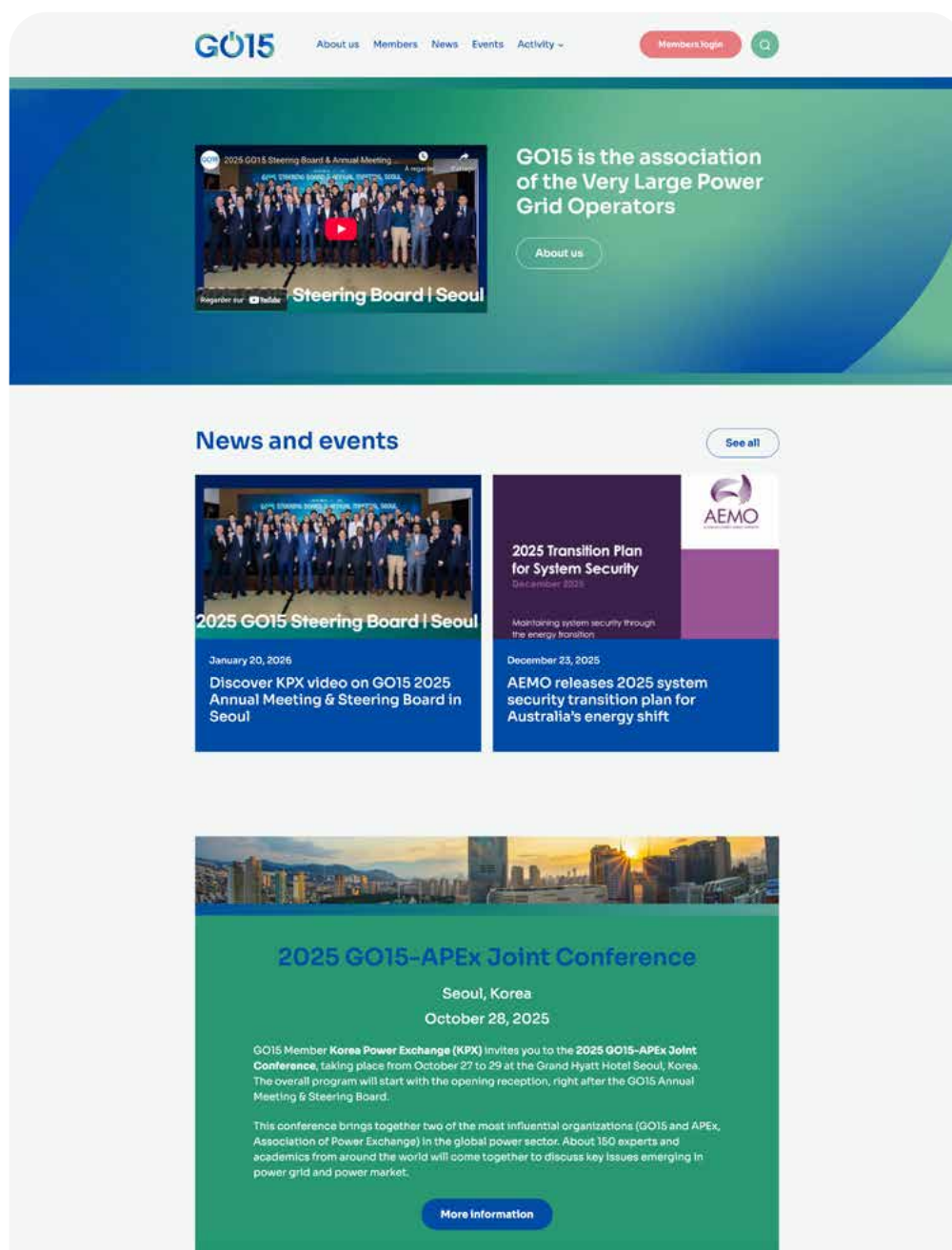
— GO15 introduction tools:

- GO15 overview: [link](#)
- GO15 slideshow: [link](#)
- GO15 practical guide: [link](#)

8.4 GO15 WEBSITE

— Our GO15 [website](#):

- More than 13K (+6.7K over last year) visitors: **more than double the number of visitors in 2024**
- More than 23K views (+5.4K over last year) on the website



8.5 OTHER COMMUNICATIONS ACTIONS


- Season's Greetings video
- New leadership video: www.youtube.com/watch?v=uEc74RKl200



9. International Cooperation

9.1 CIGRE

GO15 was present at the international congress CIGRE 2025 in Montreal through the paper written by the GO15 experts. The paper “how storage is implemented in the network of the major global operators” was presented by Claire Lajoie-Mazenc (RTE), in early September.



CIGRE 2025 International Symposium
 Palais des Congrès de Montréal, Québec, Canada
 September 29 to October 3, 2025

1229
C1 Power System development and Economics
PS1 System Enhancement, Markets and Regulation

Energy Storage in the big electrical systems: key points from the analysis of the situation and challenges faced by the major transmission system operators

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GO15 paper published by CIGRE.

GO15

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