

Conference on

TRANSMISSION INFRASTRUCTURE EUROPE

March 17-18, 2027

Amsterdam, The Netherlands

Hosted by:

Global **Transmission** Report

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OUTLINE AGENDA

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TRANSMISSION INFRASTRUCTURE EUROPE

March 17-18, 2027 | Amsterdam, The Netherlands

Day 1 | Wednesday | March 17, 2027

08:00–08:50 | Registration & Networking Breakfast

08:50–09:00 | Welcome Remarks by Global Transmission Report

09:00–09:50 | The EU Grids Package: Implications for Transmission Planning and Investment

- Proposed revisions to the TEN-E framework and EU permitting rules: legislative status, implementation timetable and implications for transmission projects
- Coordination between European network planning, national development plans and regional infrastructure priorities
- Cross-border cost allocation and the treatment of projects with benefits distributed across multiple Member States
- Anticipatory investment: planning for forecast generation, electrification and large-load demand

09:50–10:40 | Large Load Connections: Queue Reform and Flexible Access Arrangements

- Connection requirements from data centres, electrified industry, electrolysers and other large electricity consumers
- Maturity-based and congestion-aware allocation: EU guidance, legislative proposals and national reforms
- Flexible and non-firm connection agreements, including curtailment conditions and the allocation of operational risk
- Connection milestones, financial commitments and procedures for removing inactive or speculative applications
- Publication of available and planned network capacity, locational signals and network-led siting decisions
- Coordination between transmission and distribution operators for large-load connections

10:40–11:20 | Networking Coffee

11:20–12:10 | Transmission Technologies for Expanding Grids

- HVDC systems for long-distance transmission, offshore connections and cross-border interconnection
- High-voltage AC and DC cables: system design, installation constraints, testing and operational performance
- Converter stations, power transformers, switchgear and power electronics for high-capacity transmission networks
- SF_6-free switchgear, digital substations, condition monitoring and equipment diagnostics
- Standardisation, interoperability and technical choices across European transmission projects

12:10–13:00 | Technologies for Enhancing Capacity, Flexibility and Network Planning

- Reconductoring and high-performance conductors to increase capacity on existing transmission corridors
- Dynamic line rating, topology optimisation and advanced power flow control: operating principles and TSO deployment experience
- Application of grid-enhancing technologies under different network conditions, including thermal, voltage and stability constraints
- Storage in transmission planning: congestion management, flexibility provision and potential deferral of network reinforcement
- Regulatory incentives, ownership models, cost recovery and performance measurement for non-wire solutions

13:00–14:00 | Networking Lunch

14:00–14:30 | ENTSO-E Briefing: European Network Needs and Project Priorities

- Key findings on transmission capacity, cross-border interconnection and storage requirements
- Assessment of proposed transmission and storage projects against European system needs
- Cost-benefit analysis, scenario assumptions and the treatment of project costs and system benefits
- Relationship between TYNDP assessments, Projects of Common Interest and Projects of Mutual Interest, and national investment planning
- Implications for project development, cross-border coordination and investment sequencing

14:30–15:15 | Cross-Border Interconnection: Delivering Priority Projects and Regional Coordination

- Delivery status of priority European transmission corridors and interconnector projects
- Coordination of national development plans, project sequencing and cross-border capacity requirements
- Cost allocation, benefit sharing and agreements between participating countries
- Coordinated capacity calculation, congestion management and regional system operation
- Permitting, financing, supply-chain and construction dependencies affecting project schedules
- Lessons from commissioned, delayed or restructured interconnection projects

15:15–16:00 | Financing Transmission Expansion: Capital Requirements and Investment Structures

- TSO projected investment requirements through 2035
- European Investment Bank lending, guarantees and Connecting Europe Facility support for eligible infrastructure
- National funding frameworks, institutional investors and access to capital markets
- Regulatory returns, cost recovery and the allocation of construction, utilisation and market risks
- Financing cross-border projects with different national regulatory frameworks
- Anticipatory investment: approval processes, demand uncertainty and the treatment of potentially underutilised assets

16:00 | Closing Remarks & End of Day 1

Note: This conference program provides a preliminary outline with draft agenda topics. Please note that session timings and topics are subject to change as we approach the conference date. Your input and thoughts on the agenda are warmly welcomed.

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Day 2 | Thursday | March 18, 2027

08:00–08:50 | Networking Breakfast

08:50–09:00 | Day 2 Remarks by Global Transmission Report

09:00–09:50 | System Security and Resilience: Stability, Protection and Operational Readiness

- Voltage control, reactive power management, oscillation monitoring and mitigation
- Generator response, protection settings and coordination between generation assets and system operators
- Stability requirements for inverter-based resources, including the role and application of grid-forming capabilities
- Physical and cyber security of critical transmission infrastructure
- Emergency procedures, system restoration and cross-border operational coordination
- Implementation of recommendations from ENTSO-E's final report on the 28 April 2025 Iberian blackout

09:50–10:35 | Permitting and Public Engagement: Accelerating Transmission Project Approvals

- Proposed EU permitting reforms and their relationship with existing EU and national requirements
- Approval deadlines, digital procedures, competent-authority coordination and provisions on overriding public interest
- Environmental assessment, route selection and early consideration of environmental constraints
- Public consultation, community engagement, compensation and local benefit arrangements
- Coordination of permits for transmission lines, substations, converter stations and associated infrastructure
- Lessons from projects that have secured approvals within shortened timelines

10:35–11:05 | Networking Coffee

11:05–11:50 | Procurement and Manufacturing Capacity: Contracting for Europe's Transmission Build-Out

- Aligning equipment procurement with permitting, engineering, construction and commissioning schedules
- Framework agreements, advance capacity reservations, standardised specifications and early supplier engagement
- European manufacturing capacity, international sourcing and supplier diversification
- Implications of EU industrial policy and proposed public-procurement reforms for transmission equipment tenders
- Workforce, component and production-capacity constraints affecting equipment delivery

11:50–12:50 | TSO Leadership Panel: Investment Programmes and Delivery Commitments to 2035

- National transmission investment plans and their alignment with European network priorities
- Project delivery commitments under current permitting, financing and equipment-supply conditions
- Managing dependencies between transmission expansion, generation connections, storage and large-load demand
- Regulatory approvals, investment incentives and the allocation of delivery responsibilities
- Regional coordination on interconnectors, system security and cross-border capacity
- Milestones for monitoring project progress, expenditure and new transmission capacity through 2035

12:50–13:00 | Conference Conclusions and Closing Remarks

13:00–14:00 | Networking Lunch

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