



20  
25

**ANNUAL REPORT**

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# Introduction

## MISSION

Our mission is to support all institutional initiatives aimed at facilitating the creation of a Mediterranean energy market by fostering the development of an integrated, secure and sustainable regional electricity transmission grid.

We strive to become a professional and strategic reference body for every technical, market and policy issue related to the Mediterranean electricity system: a competent and proactive guide for European and Mediterranean institutions and stakeholders.

## VISION

Med-TSO is the Association of the Mediterranean Transmission System Operators (TSOs) for electricity, operating the High-Voltage transmission networks of 20 Mediterranean countries.

It was established on 19 April 2012 in Rome as a technical platform that, using multilateral cooperation as a regional development strategy, could facilitate the integration of the Mediterranean Power Systems and foster security and socio-economic development in the region.

The Association has developed a well structured working method to become a bridge between the Mediterranean TSOs and a reliable stakeholder in the region, combining knowledge, work, and visibility.

Year after year, we renew our commitment towards the creation of a Mediterranean energy market, integrating the grids of both shores of the Mediterranean.

## Med-TSO in numbers



**20** Members  
**20** Mediterranean countries  
**8.7 million Km<sup>2</sup>** approx covered area



About **536 million** consumers served



**Approx 497 km** ca of transmission lines operated



Almost **723 GW** of installed capacity



More than **2014 TWh** of total electricity consumption

# Message from the President

Dear Readers,

Upon reflecting on the recent period, it is evident that notwithstanding the geopolitical instability which has significantly affected the Euro-Mediterranean region, and the profound climatic and economic exigencies currently confronting the energy sector, **our dedication to cultivating a more integrated, secure, and sustainable Mediterranean power system has remained resolute.**

The substantial projected **increase in global electricity demand** necessitates a proactive approach in response to the **accelerating investments in networks and infrastructure** essential for the generation and transmission of renewable energy.

In 2025 our activities remain deeply committed to the principles of **knowledge exchange and mutually cooperation**, both within our membership and across our broader network of stakeholders.

The European Commission confirmed to be our primary institutional partner co-financing the **TEASIMED 2 project, which has come to an end last December and whose results we have just presented in Brussels few months ago.** At the same time, they confirmed the trust in our work co-financing the ongoing **TEASIMED 3, a four-year lasting project** whose technical activities have started in these first months of 2026 and also identified Med-TSO as a key regional platform enabling the Trans-Mediterranean Renewable Energy and Clean Tech Initiative (T-MED). Furthermore, our dynamic exchange with the League of Arab States, culminated in the signing of a Memorandum of Understanding announced the very beginning of 2025, underscored our shared commitment to overcoming regulatory and operational challenges, and to driving the energy transition in the Euro-MENA region.

With the end of the project, 2025 technical activities have produced multiple outcomes, as the *Mediterranean Master Plan of Interconnections 2025*, the *Scenario report 2025*, but we wanted to move higher the bar of our studies: for the first time in Med-TSO's history, we have conducted a **comprehensive assessment of interconnection needs up to the 2040** horizon, publishing the *Mediterranean Electricity Interconnection Perspective 2040*.

Looking beyond the achievements of the past year, the publication of this 2040 perspective represents not merely a technical milestone, but a clear, strategic roadmap for our collective future. The path toward a **fully decarbonized, resilient, and interconnected Mediterranean power grid** is undoubtedly complex, requiring continuous innovation and substantial investments. However, the robust foundations laid in 2025, coupled with the strength of our expanding institutional partnerships, provide us with profound confidence.

As we advance the technical activities of TEASIMED 3 and actively support the ambitious goals of the T-MED initiative, Med-TSO will continue to **champion technical excellence.** I extend my deepest gratitude to our members, our institutional partners, and the entire Med-TSO team for their unwavering dedication and collaborative spirit.

Together, we are not simply adapting to the evolving energy landscape; we are actively engineering the sustainable future of the Euro-Mediterranean region.

I invite you to **explore this Annual Report** and discover the depth of our shared commitment.

Sincerely,  
*Sabah Mashaly*

# 1 Objectives and Activities

Med-TSO members share the **primary objective of promoting the creation of a Mediterranean energy market** and ensuring its effective functioning through the definition of common methodologies, rules and practices that optimise the operation of the existing infrastructures and facilitate the development of new ones.

The **three pillars** of Med-TSO activities

**1 COORDINATED PLANNING**  
for the development of the Mediterranean High-Voltage transmission system.

**2 COMMON TECHNICAL RULES**  
(Mediterranean Grid Code)  
for power system interoperability (optimising the use of existing interconnections and promoting the development of new ones)

**3 CAPACITY BUILDING AND KNOWLEDGE SHARING PROGRAMMES**  
to facilitate the harmonisation and strengthening of the Mediterranean electricity markets.

These reflect a **bottom-up approach** based on TSO perspectives.

## 2 The Action Plan 2025-30

The decade ahead will be crucial for the Mediterranean region's energy transition, ensuring it becomes a **model of energy cooperation**, meets **renewable energy targets**, and contributes to **global sustainability goals**.

In its **Action Plan for 2025-2030**, Med-TSO lays the groundwork for a more interconnected and sustainable energy future. This plan builds on the successes of the 2020-2025 Action Plan and outlines key strategies for overcoming the **technical, regulatory, and financial challenges** that lie ahead.

Key focus areas include:

### LONG-TERM PLANNING STUDIES

Ensuring the development of robust planning frameworks for the Mediterranean energy grid.

### PREPARATION FOR MASSIVE RES INTEGRATION

Focusing on technical and organisational solutions.

### PROMOTING POWER SYSTEM INTEGRATION

Targeting the creation of Interconnected Electricity Exchange Zones (IEEZs) and the enhancement of communication.

### ENHANCING DATA AND KNOWLEDGE SHARING

Improving Med-TSO centralised Mediterranean database and organising training programs.

### ENHANCING MED-TSO'S POSITIONING

Strengthening the role of the Association as a regional leader, focusing on advocacy, member support, and strategic communication.

This Action Plan not only outlines a vision for the Mediterranean's sustainable future but also provides a **detailed framework for collaboration and development**. It is a call to action for all Mediterranean stakeholders to collaborate on creating an energy system that is not only sustainable but also resilient, secure, and integrated.

# 3 Achieving the Objectives

To achieve its objectives, Med-TSO has, over the years, counted on the financial contributions from the European Commission and put in place a coherent technical organisation to maximise the received support. In 2025 we completed TEASIMED 2, the fourth project co-funded by the European Commission, running from 2023 to 2025, structured along five activity streams managed by five technical committees, which gathered experts from all the members of the Association.



### 3.1 The TEASIMED 2 project

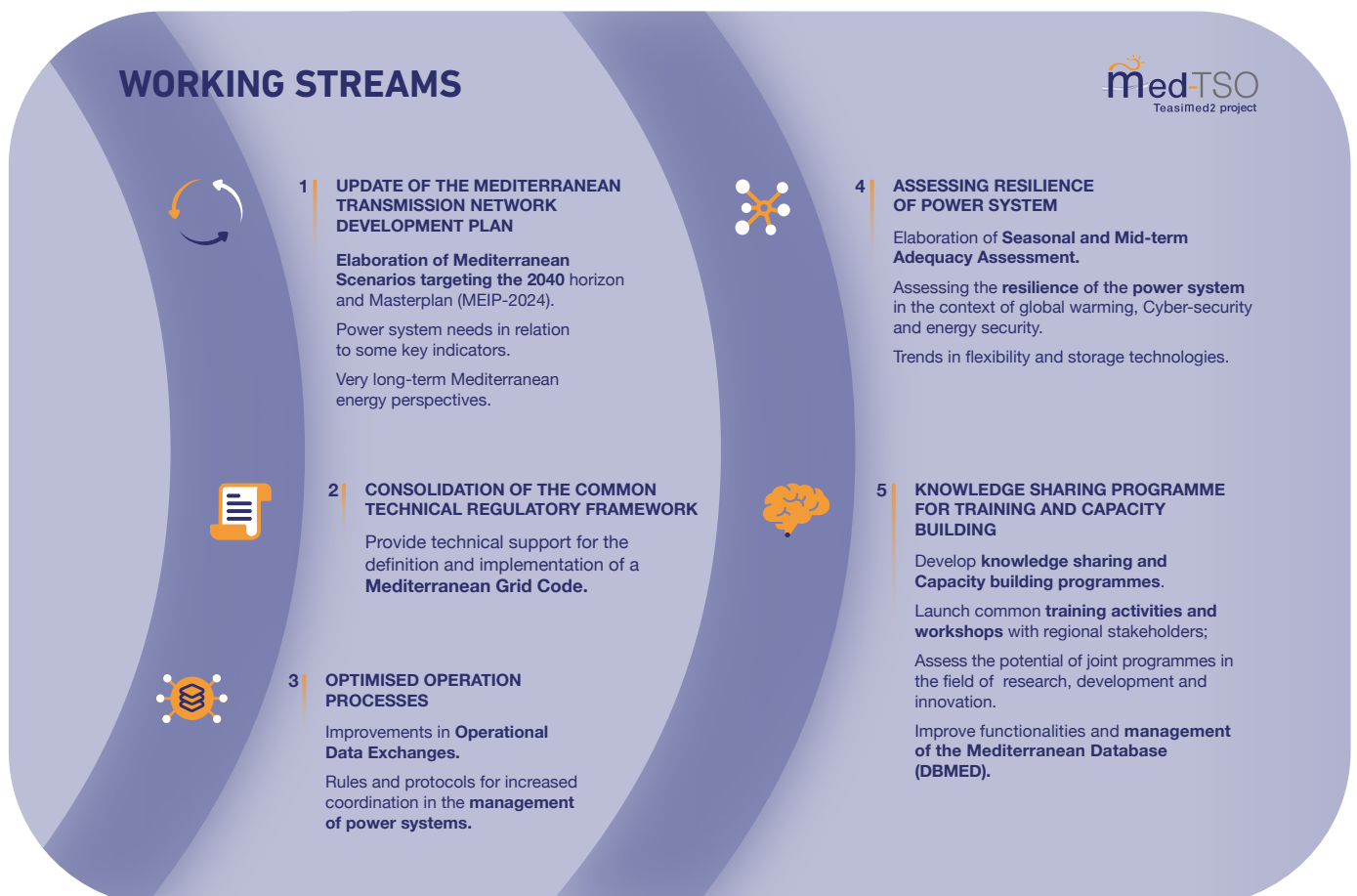
The TEASIMED 2 project—Towards an Efficient, Adequate, Sustainable, and Interconnected Mediterranean Power System—represents the fourth grant co-funded by the European Commission, serving as the direct continuation of the TEASIMED project that concluded in March 2023. Launched in January 2023 and scheduled for completion in December 2025, the project serves as the operational framework for the Association’s technical activities, aiming to promote the progressive integration of Mediterranean transmission networks while addressing adequacy requirements and the massive rollout of renewable energy sources.

Throughout 2025, TEASIMED 2 has played the role as a catalyst for regional cooperation, facilitating the synchronization of national transmission development plans with a unified regional perspective. The project’s objectives are aligned with the European Union’s Neighbourhood Policy on Energy and Climate Change, reflecting a strategic intent to create a resilient energy corridor between Europe and its southern neighbors.

2025 | 3 Teasimed 2 Project steering & coordination meeting

#### Structure and Activity Streams of TEASIMED 2

The implementation of TEASIMED 2 is organized into **five specialized activity streams**, each managed by a dedicated Technical Committee comprising experts from the member TSOs. These work streams cover the entire lifecycle of power system development, from long-term scenario building and grid planning to regulatory harmonization and real-time operational coordination.



## 3.2 Technical Committees

Med-TSO achieves its strategic objectives through the activities of its five Technical Committees, which represent as the technical engine of the Association. Each committee is responsible for a specific domain of power system management, and their collaborative efforts ensure that regional grid planning is consistent with regulatory frameworks and operational realities.

In 2025, Med-TSO delivered three key advancements in its technical activities:

- A significant expansion of the planning horizon to 2040 and 2050
- A deep dive into the regulatory mechanics of EU-non-EU interconnections
- A focus on the operational resilience of the grid under extreme climate conditions.



### 3.2.1 Technical Committee Planning

The Technical Committee Planning (TC Planning) has focused its 2025 efforts on defining the long-term infrastructure needs of the Mediterranean transmission system. The primary achievement of this committee in 2025 has been the delivery of a dual-horizon planning framework: the update of the Mediterranean Master Plan (MMP) for 2030 and the inaugural Mediterranean Electricity Interconnection Perspective (MEIP) for the 2040 horizon.

2025 | 2 meetings, 2 joint meetings

#### MAJOR OUTCOMES

##### 1. The 2025 Mediterranean Master Plan of Interconnections (MMP 2030)

Released in November 2025, the updated MMP 2030 provides a strategic roadmap for cross-border projects that are mature enough to be operational within the next five years. This edition assessed 10 specific interconnection projects promoted by TSOs from 16 different countries, organized across five primary geographical corridors.

The MMP 2030 assessed projects using a robust cost-benefit methodology (CBA) aligned with ENTSO-E's TYNDP 2024 standards, ensuring that Mediterranean projects are evaluated with the same rigor as European internal interconnections. The analysis confirmed the strategic role of these projects in enabling renewable energy integration, increasing the security of supply, and enhancing regional socio-economic welfare.

The findings of the MMP 2030 emphasize that the realization of these interconnections is the first indispensable step toward a broader integration of the Mediterranean region. These projects facilitate the exploitation of geographical complementarities, allowing countries with high renewable potential to export green electricity to high-demand centers.

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## 2. The Mediterranean Electricity Interconnection Perspective 2040 (MEIP)

For the first time in Med-TSO's history, the TC Planning has conducted a comprehensive assessment of interconnection needs up to the 2040 horizon. The MEIP 2040, published in late 2025, complements the MMP 2030 by identifying additional infrastructure requirements that will emerge as energy systems evolve beyond current national development plans. On 10 December, Med-TSO held a dedicated webinar to present this outcome.

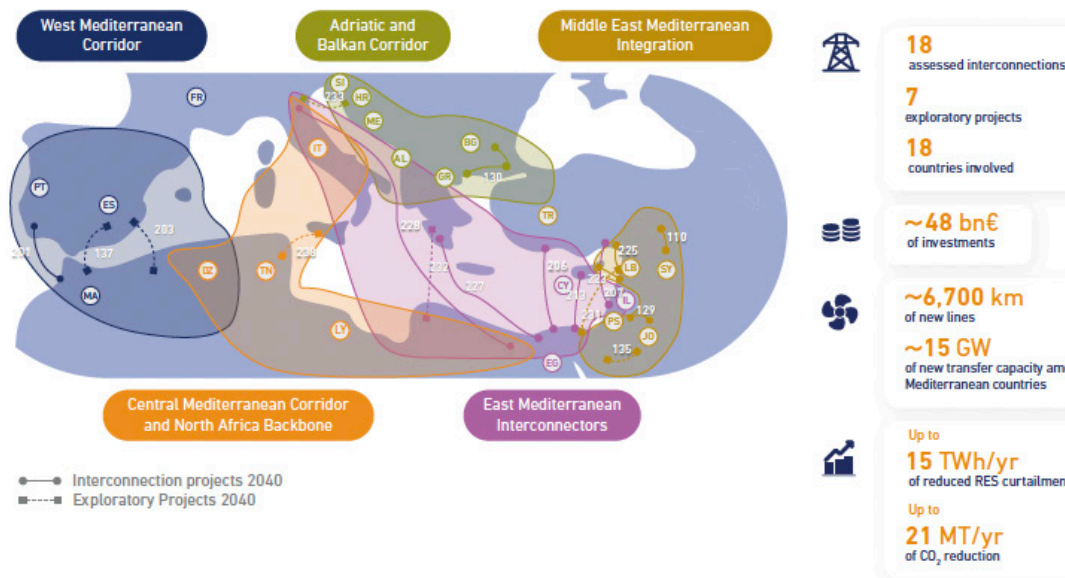
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The MEIP analysed 18 interconnection projects, including 11 real projects inherited from previous plans and 7 exploratory ones. The exploratory projects represent visionary links that could redefine energy flows across the three synchronous zones of the region: ENTSO-E's Continental Europe, the Southwestern Mediterranean Block, and the Southeastern Mediterranean Block. *Results are summarized in the image below:*



## 3. Coordinated Planning Methodology and System Needs Identification

The evolution of TC Planning's methodology in 2025 has been characterized by the introduction of the "Identification of System Needs" (IoSN) process. Unlike previous projects that focused primarily on individual network reinforcements, the TEASIMED 2 approach adopts a system-wide view, considering projected demand, storage capacities, and generation adequacy.

The committee conducted an "IoSN dry-run" in mid-2025 to refine the tools used for identifying optimal grid expansions. This process assesses potential investments against associated system losses and flexibility requirements, helping TSOs determine where cross-border collaboration delivers the highest socio-economic benefit. The joint workshop held in Istanbul in April 2025 was pivotal in aligning these system needs findings with the scenario development work of TC ESS.

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## 3.2.2 Technical Committee Economic Studies and Scenarios

The Technical Committee Economic Studies and Scenarios (TC ESS) provides the data-driven foundation for all planning activities, specializing in the development of regional energy scenarios and market modelling.

In 2025, TC ESS achieved a major milestone with the publication of the “2040 Mediterranean Energy Scenario Report” and the “Very Long-Term Mediterranean Energy Perspectives” report for the 2050 horizon.

2025 | 7 meetings, 2 joint meetings

### 1. Scenario Frameworks for 2030 and 2040

TC ESS developed three strategic scenarios for the 2030 and 2040 horizons, designed to capture a range of possible pathways for the Mediterranean region’s energy evolution: Inertial, Proactive, and Mediterranean Ambition. These scenarios were modeled using ANTARES simulation software, enabling high-resolution analysis of system behavior and cross-border energy flows.

The 2025 update of these scenarios integrated the impact of emerging technologies that were previously modelled only at a high level. A dedicated focus was placed on modeling green hydrogen production in North Africa and assessing the impact of smart electric vehicle (EV) charging strategies on the residual load profiles. The modeling results highlight that the Mediterranean Ambition scenario requires the highest level of cross-border coordination to balance the massive influx of variable solar and wind power.

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### 2. The E-highway Activity: Energy demand projections to 2050

The E-highway activity, initiated under TEASIMED 2, expanded the committee’s reach to the 2050 horizon. Supported by consultants Nomisma and RCREEE, the committee developed a specialized tool to project energy demand across the 11 Middle East, North Africa, and Turkey (MENAT) countries.

The primary output, the “Very Long-Term Mediterranean Energy Perspectives” report, that will be published in February 2026, presents three contrasted paths up to 2050, including a dedicated Net-Zero (NZ) scenario aligned with the 1.5°C objectives of the Paris Agreement. The building of the Net-Zero scenario involved deriving a CO<sub>2</sub> budget for each country from a global greenhouse gas (GHG) budget

E-highway  
explained



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### 3.2.3 Technical Committee Regulation and Institutions

This committee has the main target of advancing in the definition of common rules for the Mediterranean region from a TSO perspective, particularly in the field of the connection of users to the grid, of the operation of the interconnected power systems, and of system services.

The committee's activity is also focused on contributing to the institutional cooperation with other multinational entities in the Mediterranean Region, sharing regulatory guidelines and best practices at the national level, and developing position papers.

2025 | 4 meetings

#### 1. Consolidating the Common Technical Regulatory Framework

In October 2025, TC R&I released its cornerstone deliverable for the year: “Rules applied to the interconnections between EU and extra-EU countries: capacity allocation and management of interconnection congestion”. This report provides an exhaustive analysis of the technical and institutional frameworks governing critical links, including:

- Italy–Montenegro (MONITA)
- Türkiye–ENTSO-E Network
- Spain–Morocco

The report identifies best practices for regional market integration, such as the use of explicit and implicit auction systems and the application of the “Use It or Sell It” (UIOSI) principle to prevent the hoarding of transmission capacity.<sup>14</sup> by showcasing these practical experiences, the publication supports the harmonization of electricity trade mechanisms across the entire Mediterranean basin, aligning with Med-TSO's vision for a fully interconnected and resilient power system.

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#### 2. Support for Regional Market Initiatives

TC R&I supports its members in the implementation of regional market initiatives, such as the Pan-Arab Electricity Market (PAEM) and the East-Med Interconnected Electricity Exchange Zone. These initiatives aim to transition the region from bilateral exchange agreements toward multilateral, competitive wholesale markets.

#### 3. Guarantees of Origin (GOs) and CBAM

In October, Med-TSO and MEDREG convened a joint workshop in Milan to explore how GOs can evolve from simple consumer recognition tools into essential instruments for renewable grid integration.

The event presented a strategic four-step roadmap to enhance technical harmonization and

coordination among Mediterranean TSOs regarding GOs:

- **Standardization:** Establishing common definitions and standards for renewable electricity certificates across EU and non-EU countries.
- **Implementation:** Leveraging regulatory insights from North Macedonia, Jordan, and Portugal to build robust national certification systems.
- **Interoperability:** Ensuring that regional GO registries are technologically compatible to allow for seamless cross-border transfers.
- **Carbon Policy Alignment:** Exploring the interplay between GOs, Emission Trading Systems (ETS), and the EU Carbon Border Adjustment Mechanism (CBAM).

The discussions highlighted concerns among TSOs and regulators regarding the treatment of renewable energy certificates under CBAM and the urgent need for clear regulatory frameworks to ensure transparency and reliability in the burgeoning green energy market.

Learn  
more about  
CBAM



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### 3.2.4 Technical Committee Operation

This committee focuses on creating tools for sharing electricity resources through exchanges based on inter-grid complementarities and efficient use of infrastructure, in particular interconnections between grids. A key objective is the development of Reference Projects, designed to demonstrate the feasibility of regional initiatives by integrating grids and increasing electricity exchanges. The committee also aims to apply, within operational contexts, schemes for a shared code for the management of transport grids, along with procedures for coordinating interconnected grid operations. Ultimately, their efforts are geared towards fostering enhanced cross-border cooperation in the region.

2025 | 10 meetings

#### 1. Operational Coordination and Data Integration

Med-TSO's operational activities were a focal point in 2025, particularly within the framework of the TEASIMED 2 project. The work stream focused on improving capacity calculation, real-time management, and operational coordination across interconnections. One of the key outcomes was the presentation of a comprehensive report on existing Supervisory Control And Data Acquisition (SCADA) systems. This report assessed the operational readiness of Med-TSO countries for efficient data exchange and highlighted ongoing improvements in power system operations.

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## 2. Mediterranean Adequacy Studies: Seasonal and Mid-term Outlooks

In 2025, Med-TSO continued its practice of assessing the adequacy of electricity supply for non-ENTSO-E members, releasing the Summer Outlook 2025 and the Winter Outlook 2025/2026. These studies provide TSOs with a detailed assessment of the risk of electricity shortages using probabilistic Monte Carlo criteria.

For the first time, these assessments fully integrated the Pan-European Climate Database (PECD) v4.2 dataset, which allows for more robust simulations of electricity demand and renewable output under changing climate conditions. The study perimeter included Morocco, Tunisia, Libya, Egypt, Jordan, and Lebanon.

REPORT TITLE	KEY FINDINGS Isolated Mode	KEY FINDINGS Interconnected Mode
SUMMER OUTLOOK 2025 	High risk in Libya/ Lebanon due to heat waves.	Significant risk reduction via regional exchanges.
WINTER OUTLOOK 2025/2026 	Severe challenges in Lebanon and Libya; Morocco/Tunisia stable.	Jordan high reliability via Egypt link; Libya notable improvement.
MID-TERM ADEQUACY ASSESSMENT (2027 & 2030) 	Long-term vulnerabilities identified in fuel diversity.	Interconnections shown as the most cost-effective risk mitigation tool.

The 2025 outlooks reinforced the value of regional cooperation, proving that while individual systems may face severe stress, the interconnected Mediterranean grid significantly enhances regional reliability. The methodology used for these studies—calculating indicators such as Loss of Load Expectation (LOLE) and Expected Energy Not Served (EENS)—is now fully aligned with EU Risk Preparedness Regulation (2019/941), allowing non-EU TSOs to adhere to global best practices.

## 3. Flexibility

TC Operation worked for the first time on the topic of flexibility that will be presented in the report “Flexibility needs assessment for selected Southern and Eastern Mediterranean countries TSOs”, the first of its kind study among six not-EU countries: Morocco, Tunisia, Libya, Egypt, Jordan and Lebanon.

The study assessed three future scenarios 2025, 2027, and 2030, each reflecting progressive increases in variable renewable capacity revealing a substantial rise in both flexibility and ramping needs over this period, underlining the scale of transformation required to maintain system resilience. The study quantified the flexibility requirements necessary to support this evolving system landscape.

An important aspect of this study is the evaluation of the potential of enhanced interconnections with neighbouring countries to mitigate operational challenges and optimize resource use: it showed how regional integration significantly reduces the system’s flexibility requirements by

smoothing variability and optimizing resource deployment across borders. Hence, investing in new interconnections and maximizing the efficiency of their use through greater coordination among TSOs represents a crucial step toward building a resilient, secure, and fully decarbonized Mediterranean Power System.

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[Read the full report](#)



### 3.2.5 Technical Committee Knowledge Sharing

This committee aims to establish a forum of knowledge sharing among relevant professionals working in the fields related to the project's scope. It makes the work developed by all technical committees available to the general public.

Throughout 2025, Med-TSO emphasised the importance of continuous learning and collaboration among TSOs. The Knowledge Sharing Programme included a series of workshops, technical visits, and interactive sessions designed to facilitate the exchange of best practices and innovative approaches in power system operations.

It also included participation in numerous high-level events, conferences, and workshops to promote regional energy integration and discuss strategic challenges facing the Mediterranean power system.

2025 | 1 meeting

## WORKSHOPS, TECHNICAL VISITS, AND INTERACTIVE SESSIONS

### Electricity Highway Training (February 2025)

The first Med-TSO E-Highway Training, was organised by the Technical Committee Economic Studies and Scenarios. The session focused on equipping members with essential skills for long-term scenario development within the TEASIMED 2 project.

This training was a major step towards improving data analysis and modelling, benefiting both Med-TSO initiatives and national-level studies.

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### Summer Outlook 2025 Implementation Workshop (February 2025)

The Implementation Workshop brought together Med-TSO experts to assess the energy system's adequacy for Summer 2025. Key Focus Areas included reviewing and validating collected data, providing updates on software and modelling tools, refining modelling processes, and scenario adjustments.

The model was re-run after the workshop, incorporating all decisions made during the sessions. This refined analysis will contribute to the drafting and approval of the final Summer Outlook 2025 report.

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### **Workshop on Regional Energy Planning (April 2025)**

The Istanbul workshop was instrumental in ensuring consistency between the scenario results and the infrastructure planning exercises, especially as the committees worked closely to finalise methodologies for identifying system needs – a new component introduced under TEASIMED 2.

Unlike previous projects, TEASIMED 2 adopts a comprehensive approach that goes beyond network reinforcements. It includes system-wide considerations such as projected demand, storage capacities, and generation adequacy, offering a complete overview of future grid requirements.

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### **Webinar Mediterranean Interconnections at 2030 Horizon – Master Plan – 2025 Edition (November 2025)**

Med-TSO presented the 2025 edition of the Mediterranean Master Plan of Interconnections, updating its strategic vision for cross-border electricity interconnections across the region.

During the webinar “*Mediterranean Interconnections at 2030 Horizon*”, an event that brought together experts and system operators from across the region. The session highlighted technical progress, long-term planning perspectives, and the transformative regional benefits expected from new and upgraded cross-border links across Europe, North Africa, and the Middle East.

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### **Webinar Mid-Term Adequacy, Winter Outlook & Flexibility Needs (November 2025)**

Med-TSO in this webinar presents the reports focusing on power system adequacy and flexibility across the Mediterranean region for the horizons of Winter 2025–26, 2027, and 2030. The session provided a comprehensive overview of how Mediterranean countries are expected to respond to increasing electricity demand, higher renewable penetration, and evolving interconnection capacities in the coming years.

The webinar introduced a regional flexibility assessment analysing residual load variability and ramping behaviour. Flexibility needs rise significantly towards 2030 across all countries due to increased renewable integration. Importantly, the study shows that strong regional

interconnections can reduce flexibility needs by roughly 30%, underscoring their strategic importance.

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### **Webinar Mediterranean Electricity Interconnection Perspective (MEIP) 2025 (December 2025)**

Med-TSO held a dedicated webinar to present the Mediterranean Electricity Interconnection Perspective (MEIP) 2025, offering a long-term outlook of regional interconnections towards the 2040 horizon. The session brought together transmission system operators and experts from across Europe, North Africa, and the Middle East to discuss the strategic corridors that will underpin the future Mediterranean power system.

The webinar highlighted how the Mediterranean electricity system is expected to undergo profound changes over the coming decades, driven by rising electricity demand, accelerated electrification, increased renewable penetration, and climate-related challenges. Against this backdrop, regional interconnections were presented as a cornerstone to ensure security of supply, system flexibility, and cost-efficient decarbonisation.

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## **HIGH-LEVEL EVENTS, CONFERENCES, AND WORKSHOPS**

### **Med-TSO participation in IRENA - Assembly (January 2025)**

Secretary-General Angelo Ferrante participated in two side events on the Pre-Assembly Day organised by IRENA, the International Renewable Energy Agency, also taking part the day after to their 15th Assembly in Abu Dhabi. During the event “Key Enablers For The Energy Transition: Grid and Storage”, Mr Ferrante addressed how to accelerate the grid expansion in the MENA Region and the role that anticipatory investments should play.

He pointed out that the successful expansion and decarbonisation of the electricity grid require a coordinated effort involving TSOs, regulators, policymakers, and investors and how anticipatory investments are essential to align grid expansion with long-term policy goals. He underlined that Regulators have a crucial role to play in this transition as they must review and amend regulatory frameworks to consider wider societal benefits beyond just economic efficiency, encouraging a more proactive role of international financial institutions (IFIs) and development finance institutions (DFIs) is crucial for mobilising the necessary capital.

The second side-event dealt with “Energy Transitions across the Mediterranean: Enabling Infrastructure for a Sustainable Future”. Talking about how realistic the plans and visions for enabling infrastructures in the region are, the SG stated that regional integration and establishing a Mediterranean Electricity Market are key measures to promote energy transition. And this will be possible only through regional cooperation and targeted financial tools.

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### **Med-TSO - MEDREG Joint Workshop – Towards an Interconnected Mediterranean Electricity Market: Overcoming Technical and Policy Barriers (May 2025)**

In a joint effort to advance cross-border electricity cooperation, Med-TSO and MEDREG—the Association of Mediterranean Energy Regulators—held a high-level workshop titled “Towards an Interconnected Mediterranean Electricity Market: Overcoming Technical and Policy Barriers”, hosted by Türkiye’s Energy Market Regulatory Authority (EMRA) and the Turkish national Transmission System Operator, TEİAŞ.

The event gathered regulators, TSOs, EU institutions, and representatives from the renewable energy sector to address the key challenges and opportunities related to electricity interconnections across the region.

Participants discussed the need to enhance the use of existing infrastructure, streamline regulatory frameworks, and accelerate the development of new interconnections. Cross-border cooperation was highlighted as essential to supporting the integration of renewable energy sources, strengthening grid flexibility, and ensuring energy security across the Mediterranean.

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### **10<sup>th</sup> edition of the Summer School on Smart Grid (July 2025)**

Med-TSO representatives participated in the 10th edition of the Summer School on Smart Grid, organised by the University of Salerno, Italy, from 7 to 10 July, focusing on “Grid Interconnections for Flexibility, Security and Resilience”.

In this framework, they provided a comprehensive presentation of our ongoing Teasimed 2 project, describing its tasks and technical activities, with a focus on the Adequacy and Flexibility assessments

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### **MED – Mediterranean Dialogues (October 2025)**

Med-TSO participated in the 11th edition of the MED – Mediterranean Dialogues Conference, organised by the Italian Ministry of Foreign Affairs and International Cooperation (MAECI) in collaboration with ISPI (Italian Institute for International Political Studies), took place from 15 to 17 October 2025 at the historic Royal Palace in Naples.

President Sabah Mashaly engaged in high-level discussions on regional integration and the future of the Mediterranean energy landscape.

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### **Med-TSO - MEDREG Joint Workshop on Guarantees of Origin for Renewable Electricity in the Mediterranean (October 2025)**

Together with MEDREG, Med-TSO organised a joint workshop in Milan, Italy, focused on the role of Guarantees of Origin (GOs) in enabling green electricity trading across the Mediterranean. GOs are electronic certificates that verify when electricity is produced from renewable sources. They are key to fostering transparent, reliable, and interoperable renewable electricity markets across the Mediterranean.

The event brought together regulators, transmission system operators, and energy experts to exchange views on how these instruments can support the region's energy transition.

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### **Med-TSO Roadshow “Connecting Grids, Securing the Future: the TEASIMED2 project effort for an Integrated Mediterranean Power System” (December 2025)**

The regional roadshow “Connecting Grids, Securing the Future,” hosted by NEPCO in Amman, Jordan, was a landmark event for TEASIMED 2. The roadshow brought together energy ministers, EU ambassadors, and representatives from Arab financing institutions to discuss the realization of Eastern Mediterranean interconnections.

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### 3.3 Teasimed2 Closing Conference

Under the theme “**Connecting Grids, Securing the Future**”, the TEASIMED 2 Closing Conference took place on 11 February 2026 in Brussel, bringing together the Mediterranean electricity community after three years of intensive technical work to move from results to action and explore the future of regional cooperation in power systems.

The conference was kindly hosted at the premises of the **European Commission’s Directorate-General for the Middle East, North Africa and the Gulf**, providing an emblematic setting to discuss the future of Mediterranean cooperation.

The event opened with welcome remarks by **Sabah Mashaly**, President of Med-TSO and Deputy Minister of Electricity and Renewable Energy of Egypt, who highlighted the strategic importance of multilateral cooperation among Mediterranean TSOs, the need to make better use of existing interconnections, and the role of Med-TSO in fostering a shared, bottom-up vision for regional system integration.

A high-level keynote by **Mathieu Briens**, Director responsible for the Gulf region at the European Commission (DG MENA), underlined the strategic importance of deepening Euro-Mediterranean energy cooperation, scaling up investment in renewable energy and interconnection infrastructure under the T-MED initiative, and reinforcing regulatory convergence and regional integration as key pillars for energy security and the clean energy transition.

**Simone Biondi**, TEASIMED 2 Project Manager, presented an overview of the project outcomes, showcasing the technical roadmap developed to support future Mediterranean interconnections.

The conference discussions were organised around two panels, reflecting the main challenges identified by the TEASIMED 2 project.

**The first panel**, “From Blueprints to Policy: Securing Political Commitment for Grid Integration”, was preceded by introductory remarks by **Matteo Fumerio**, Team Leader Energy Security at the European Commission (DG ENER), who framed the discussion within broader EU engagement under the Pact for the Mediterranean and the T-MED initiative, highlighting the need to combine technical cooperation, regulatory convergence and political commitment to strengthen Euro-Mediterranean energy integration. Moderated by **Roberta Boniotti**, Secretary General of MEDENER, the panel brought into dialogue representatives including **Abderrahman Belhout**, Acting Director of the Energy Department of the League of Arab States; **Jasmine Trhulj**, Head of Electricity Unit at the Energy Community; **Carlos Alvarez Aguilera**, Policy and International Relations Officer at the European Commission (DG ENER); and **Gabriele Casseti**, Senior Researcher on Energy Systems at ECCO. The discussion highlighted the need for sustained political commitment, regulatory convergence and stable market frameworks to translate technical plans into concrete regional integration.

**The second panel**, “*From Blueprints to Bankability: Closing the Investment Gap for Interconnections in the Mediterranean*”, was introduced by EC representative **Leonetta Pajer**, Deputy Head of Unit

at DG MENA, who emphasised that while interconnections are strategically vital for renewable integration, cost reduction and energy security, the key challenge now lies in securing financing through stronger regional coordination, regulatory predictability and early engagement with financial institutions under the T-MED framework. Moderated by **Hasan Ozkoc**, Director General of MEDREG, the panel included **Audrey Givone** (Country Lead Morocco, European Investment Bank), **Mattieu Craye** (Team Leader Energy, EC DG MENA) and **Corinna Klessmann** (Director, Guidehouse Energy). The discussion focused on aligning political commitment, regulatory frameworks and financial instruments to unlock bankable interconnection projects, bridge the investment gap and mobilise both public and private capital across the region.

In the concluding session, **Angelo Ferrante**, Secretary General of Med-TSO, stressed that TEASIMED 2 marks a turning point for Mediterranean power system integration, having delivered a robust and technical roadmap demonstrating the benefits of improved efficiency, resilience and large-scale renewable integration.

With TEASIMED 2 successfully concluded, the journey continues with **TEASIMED 3**, running through 2029. The priorities of the new project will be to turn technical results into concrete regional actions, strengthen Mediterranean power system cooperation and expand collaboration to neighbouring regions. Building on the 2025-2030 Action Plan, TEASIMED 3 will focus on renewable energy integration, long-term grid planning, infrastructure interoperability, enhanced data exchange and reinforced knowledge sharing.



*Teasimed 2 Closing Conference in Brussel, 10 February 2026*

## 4 Relations with Stakeholders in 2025

In 2025, partnerships with European and Mediterranean institutions continued to be strategic for carrying forward the association's initiatives to improve international energy integration and cooperation.



### European Commission: DG MENA and the Pact for the Mediterranean

On February 1, 2025, the European Commission established the Directorate-General for the Middle East, North Africa, and the Gulf (DG MENA) to coordinate a targeted approach toward Mediterranean energy security and economic stability. Throughout 2025, Med-TSO has served as a primary technical advisor to DG MENA, specifically supporting the “Pact for the Mediterranean” launched in Barcelona in November 2025 to mark the 30<sup>th</sup> anniversary of the Barcelona Process. Med-TSO has been identified as a key regional platform enabling the **Trans-Mediterranean Renewable Energy and Clean Tech Initiative (T-MED)**, a central pillar of the Pact designed to mobilize tens of billions of euros in private investment for electricity grids and clean energy. At the TEASIMED 2 Road Show in Amman in December 2025, the EC representatives emphasized the strategic importance of Med-TSO's technical roadmaps for bridging the investment gap for interconnections under the T-MED Investment Platform.



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### League of Arab States (LAS): Operationalizing Regional Integration

Cooperation with the League of Arab States (LAS) reached a new milestone in 2025 following the signing of a Memorandum of Understanding in late December 2024. This agreement established a robust framework for harmonizing initiatives between the **Mediterranean power system and the Pan-Arab Electricity Market (PAEM)**.

In December 2025, the joint Amman Roadshow served as a practical application of this partnership, where LAS representatives highlighted their role in driving integration across the Eastern Mediterranean. The collaboration has focused on technical assistance and knowledge sharing to ensure that the development of regional interconnections aligns with the strategic objectives of Arab countries.

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Union for the Mediterranean  
Union pour la Méditerranée  
الاتحاد من أجل المتوسط

### The Union for the Mediterranean (UfM) and REM Platform

During 2025 Med-TSO continued its active cooperation with the Union for the Mediterranean

(UfM) in the frame of Regional Electricity Market (REM) Platform. As a technical partner, Med-TSO provided the underlying data and technical analysis necessary for the UfM to define its shared Mediterranean energy agenda.

Med-TSO work was instrumental to the preparation of the UfM High-level Ministerial meeting in 2025, where Member States reaffirmed their commitment to regulatory convergence and regional integration. The updated Master Plan of Interconnections, one of Med-TSO's technical outputs, was presented to the 43 member states of the Union for the Mediterranean (UfM). The UfM leveraged this work to illustrate the socio-economic advantages of interconnected power grids.



### **ENTSO-E: alignment with the European Planning**

In 2025, Med-TSO significantly strengthened its technical alignment with ENTSO-E, the European Network of Transmission System Operators for Electricity. A cornerstone of this collaboration was the synchronization of the **Mediterranean Master Plan (MMP 2025)** and the **MEIP 2040** with ENTSO-E's 2024 Ten-Year Network Development Plan (TYNDP) scenarios.



### **MEDREG: Joint Regulatory and Technical Milestones**

The partnership between Med-TSO and MEDREG (Mediterranean Energy Regulators) is developed to build the backbone of regional market development. Two major joint initiatives were developed in 2025:

- **Antalya Workshop on CBAM (May 2025)** | Focused on overcoming technical and policy barriers to an interconnected Mediterranean electricity market, involving stakeholders from the EC and the private sector.
- **Milan Workshop on Guarantees of Origin (October 2025)** | A significant event where TSOs and regulators developed a shared roadmap for green electricity certificates to support cross-border Power Purchase Agreements (PPAs) between the EU and Southern Mediterranean partners.



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### **OMEC: Strategic Dialogue and Energy Security**

Med-TSO keeps a strategic dialogue with OMEC (Organisation Méditerranéenne de l'Énergie et du Climat) throughout 2025, focusing on enhancing the bankability of regional energy projects. OMEC is a think tank platform that connects energy industry with system operators to facilitate better communication. This partnership continues to explore new spaces for cooperation between

Europe and North Africa, particularly regarding the integration of green gases and the evolution of energy infrastructure to meet 2040 climate goals.

# Other important collaborations

Stay updated



**Med-TSO - Mediterranean Transmission System Operators**  
21 marzo 2025 · 🌐


This week, our Secretary General, **Angelo Ferrante**, participated in two important events in Berlin, contributing to key discussions on the **#EnergyTransition**.

18-19 March | Berlin Energy Transition Dialogue (**#BETD25**)  
Mr Ferrante engaged with experts and decision-makers on topics such as:

- The crucial role of **#Renewables** in ensuring a just transition
- Africa's **#Energy** future and sustainable development opportunities
- The economic potential of **#CleanEnergy** and the profitable growth of the renewables sector

19 March | MENA-Europe Future Energy Dialogue  
He also participated in the MEFED Advisory Group meeting, which brings together a diverse group of experts and stakeholders from the private and public sectors and European, international, and regional organisations. The MEFED Advisory Group is committed to fostering synergies, sharing knowledge, and advancing EU-MENA energy cooperation.

A big thanks to the organisers of both events for providing such valuable platforms. We look forward to continuing our contributions to the global energy dialogue.



Egyptes Strategic Conference, Cairo

**Med-TSO**  
3,547 followers  
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Secretary General **Angelo Ferrante** participated in 5th South-East European Regional Council of **CIGRE** Conference in Sarajevo, Bosnia and Herzegovina, which focused on accelerated decarbonization and the transition to ...more



With Angelo Ferrante

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CIGRE Conference, Sarajevo

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Next week, our Secretary General, **Angelo Ferrante**, will represent **#MedTso** at the Renewable Energy Leadership Conference, part of **Egypt Energy 2025**, taking place in Cairo from 14 to 16 October. ...more

**Egypt Energy**  
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Renewable Energy Leadership Conference, Panel Discussion  
Topic: Powering Africa's future: Energy investment and economic growth  
When: 14 October 2025 · Egypt Energy 2025 ...more



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Renewable Energy Leadership Conference, Cairo



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SITE 2025,  
Tunis



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We're pleased to share that tomorrow our Secretary General [Angelo Ferrante](#) will take part in the upcoming Renpower Maghreb 2025 conference, organised by [Euroconvention Global](#). The event will bring together key actors from ...more

**RENPOWER MAGHREB 2025**  
SPOTLIGHT ON TUNISIA'S CLEAN ENERGY & POWER MARKET TRANSFORMATION  
THE 10TH ANNIVERSARY!

**SPEAKER**  
**ANGELO FERRANTE**  
Secretary General, Med-TSO

**Med-TSO**  
MEDITERRANEAN TRANSMISSION SYSTEM OPERATORS

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**4 DECEMBER 2025**  
**TUNIS, TUNISIA**  
RENPOWERing a cleaner future

Naglaa Khattab and 17 others

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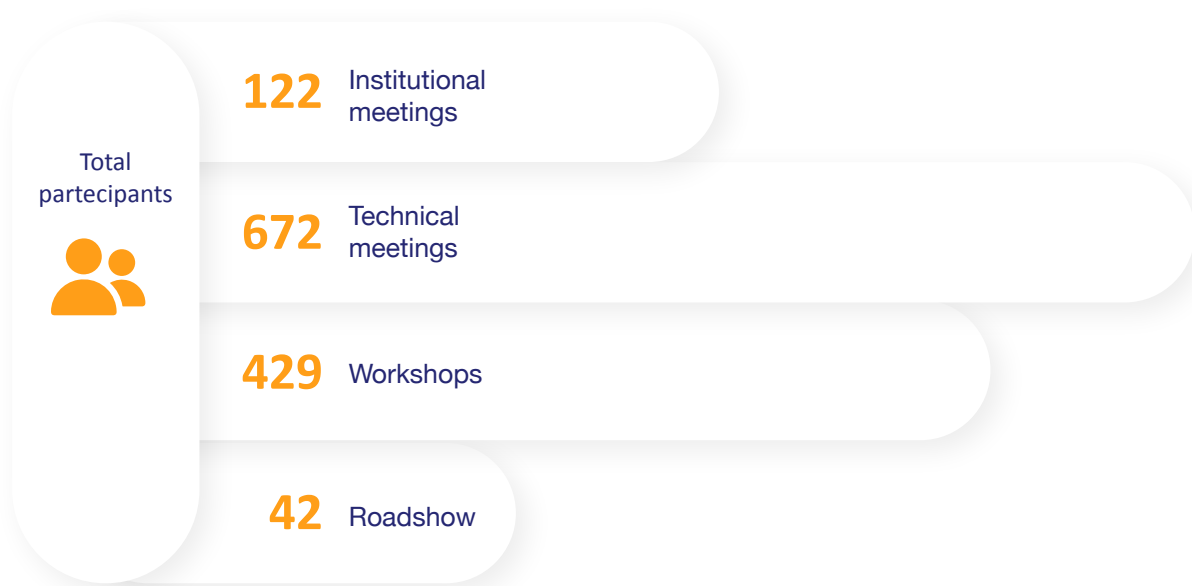
Renpower  
Maghreb  
Conference

# 5 Our way of working

Med-TSO’s way of working has consolidated in the past few years in the intensive use of the best technologies to allow working both remotely, with frequent technical meetings of the technical committees, task forces and small groups, and physically, with periodic meetings to track and consolidate the progress.

The effectiveness of this working method is guaranteed by the efforts of the Secretariat.

## MEETINGS IN 2025



# 2025 TIMELINE

## JANUARY

- 14-16 | 🇹🇳 Med-TSO E-Highway Internal Webinar
- 15 | 🇹🇳 TC Regulation Meeting
- 30 | 🇹🇳 TC Operation Meeting

## MARCH

- 3 | 🇹🇳 TC Operation Meeting
- 5 | 🇹🇳 TC Regulation Meeting
- 26 | 🇹🇳 TC Operation Meeting

## FEBRUARY

- 6 | 🇹🇳 Steering & Coordination Meeting
- 20 | 🇹🇳 TC ESS Meeting
- 25 | 🇹🇳 Tunis Med-TSO E-highway Internal Training
- 26 | 🇹🇳 Tunis Executive Board Meeting
- 26, 27 | 🇹🇳 Tunis Med-TSO Adequacy Study Team Internal Workshop

## APRIL

- 8 | **Istanbul** TC ESS Meeting
- 9 | **Istanbul** TC ESS and TC Planning Joint Meeting
- 10, 11 | **Istanbul** TC Planning Meeting
- 15 |  Steering & Coordination Meeting
- 17 |  TC Operation Meeting

## JUNE

- 12 |  TC ESS Meeting
- 16 |  Med-TSO Webinar  
“Cybersecurity for Power Systems: Challenges and Best Practices”
- 18 |  TC Operation Meeting
- 23 | **Tunis** TC ESS Trapunta Internal Workshop
- 24, 25, 26 | **Tunis** Med-TSO E-highway Internal Training

## MAY

- 5, 6 | **Cairo** Med-TSO Adequacy Study Team Internal Workshop
- 7 | **Cairo** TC Operation Meeting
- 8 | **Cairo** TC Operation Workshop  
Visit to EETC's Control Center
- 20 |  Med-TSO “Summer Outlook 2025 Presentation” Internal Webinar
- 27 | **Antalya (Türkiye)** Med-TSO and MEDREG Joint Workshop  
“Towards an Interconnected Mediterranean Electricity Market”
- 28 | **Antalya (Türkiye)** TC Regulation Meeting
- 28 | **Antalya (Türkiye)** General Assembly Meeting

## JULY

- 8 |  Executive Board Meeting
- 16 |  TC Operation Meeting
- 17 |  Steering & Coordination Meeting
- 23 |  TC Regulation Meeting

## SEPTEMBER

- 4 |  TC ESS Meeting
- 22 | **Cairo** Med-TSO E-highway Internal Training
- 23 | **Cairo** TC ESS Meeting
- 24, 25 | **Cairo** TC ESS and TC Planning Joint Meeting
- 30 | **Casablanca** Med-TSO Adequacy Study Team Internal Workshop

## AUGUST

## OCTOBER

- **1, 2 | Casablanca** TC Operation Meeting
- **16 | Naples** Steering & Coordination Meeting
- **17 | Naples** Executive Board Meeting
- **29 | Milan** Med-TSO and MEDREG Joint Workshop "Guarantee of origin"
- **30 | Milan** TC Regulation Meeting

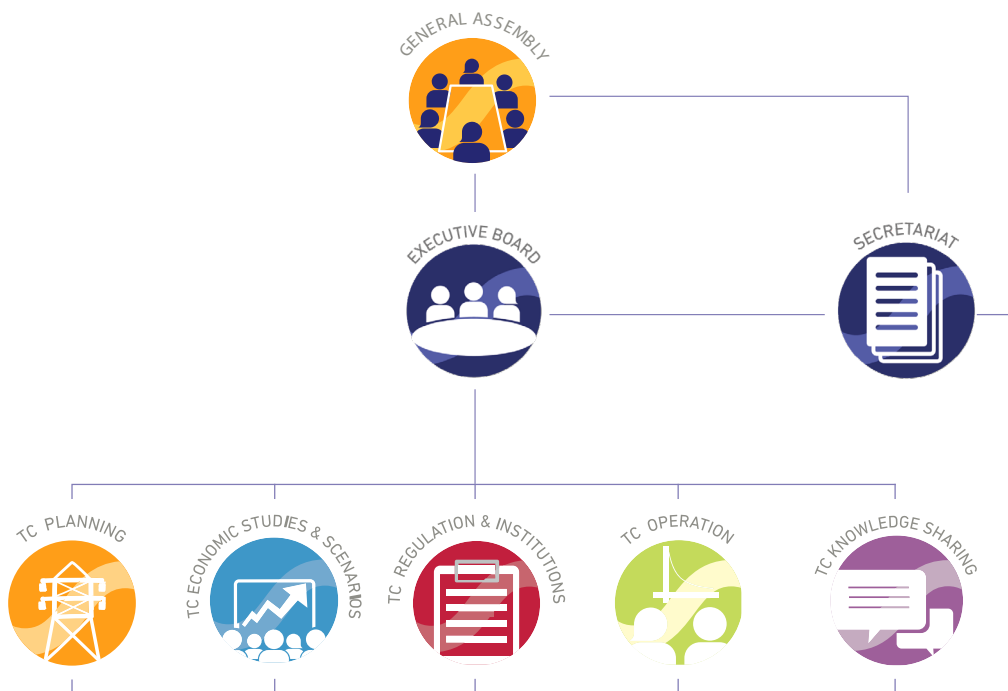
## DECEMBER

- **2,3,4 | Istanbul** TC Planning Meeting
- **10 | 🇬🇷** Med-TSO Webinar "Mediterranean Electricity Interconnection Perspective 2040 (MEIP 2025 Edition)"
- **17 | Amman** Med-TSO TEASIMED 2 Project Roadshow: "Connecting Grids, Securing the Future: The TEASIMED 2 project effort for an Integrated Mediterranean Power System"

## NOVEMBER

- **18 | 🇬🇷** Med-TSO Webinar "Mediterranean interconnections at 2030 horizon Med-TSO Masterplan - 2025 Edition"
- **19 | 🇬🇷** TC Operation Meeting
- **24 | 🇬🇷** Med-TSO Webinar "Assessing Power System Resilience Mid-Term Adequacy, Winter Outlook & Flexibility Needs"
- **24 | Madrid** - Med-TSO General Assembly
- **27 | 🇬🇷** TC ESS Meeting
- **28 | 🇬🇷** TC Knowledge Sharing Meeting

# 6 People in Med-TSO



## General Assembly

The General Assembly is composed of all the members of the association and is chaired by the President or by one of the Vice-Presidents if delegated to do so by the President. It is the supreme body of the Association and has the full power to achieve the Association's purpose.

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32nd General Assembly in Madrid, 26 November 2025

## Executive Board

The Executive Board is the executive managing body of the Association, composed of the President and eight Vice-Presidents as appointed by the General Assembly.

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*42nd Executive Board in Naples, 12 October 2025*



**Sabah Mashaly**  
*President*



**João Emanuel Afonso**  
*Vice-President*

**Jasón Besga Basterra**  
*Vice-President*

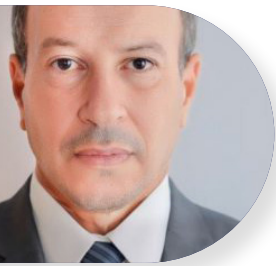




**Serhat Metin**  
*Vice-President*



**Mario Sisinni**  
*Vice-President*



**Faycel Tarifa**  
*Vice-President*



**Vincent Thouvenin**  
*Vice-President*



**Theodoros Tsakiris**  
*Vice-President*

## Secretariat

The Secretariat is the structure of the Association that assists and provides support to its bodies. The Secretariat is settled in Rome, and it is chaired and directed by the Secretary General, who is responsible for its management.



**Angelo Ferrante**  
*Secretary General*



**Simona La Cioppa**  
*Corporate Officer*



**Luca Ruffino**  
*Programme Officer*



**Gherardo  
Alfonso Vichi**  
*Finance & Treasury*



**Simone Biondi**  
*Teasimed 2 Project  
Manager*



**Sergio Notari**  
*Communication & Web  
Workplace and Safety*



**Anas El Hraiech**  
*Technical Officer*



**Emanuela Errichi**  
*Events*



**Ahmed R. Elshami**  
*Power System & Adequacy  
Studies Advisor*



**Arianna Andreoletti**  
*Assistant*



**Naglaa Khattab**  
*Power System Advisor*



**Ahmet Ova**  
*Power System Advisor*

# A year of Med-TSO in photos







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