



# 2024



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# Introduction

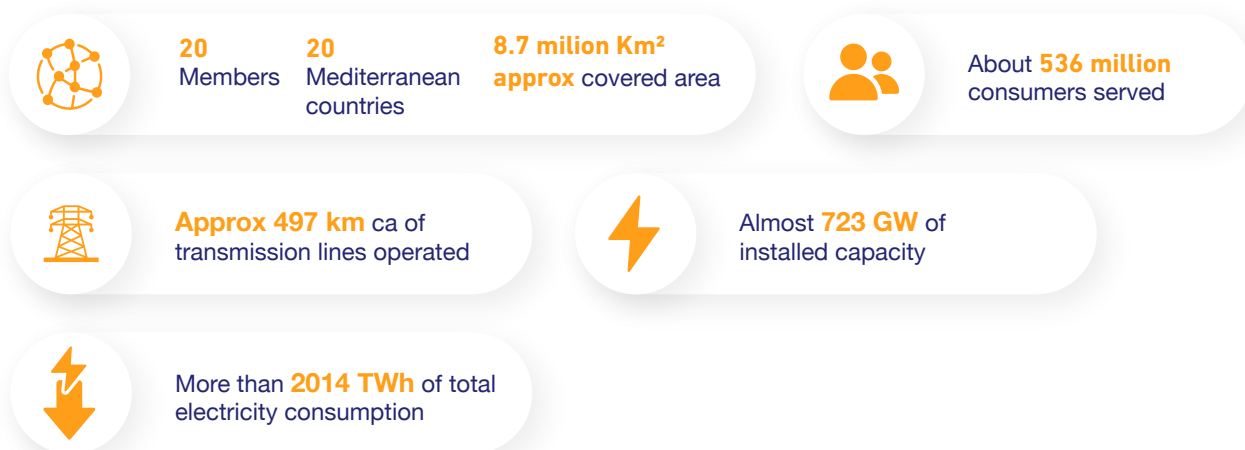
Med-TSO is the Association of the Mediterranean Transmission System Operators (TSOs) for electricity, operating the High-Voltage transmission networks of 20 Mediterranean countries.

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 an intense working method to achieve its goal of becoming the 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



### 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



# President's Message

*Dear Members, Dear Readers,*

*Reflecting on recent years, we can say that despite the geopolitical crisis that has notably impacted the Euro-Mediterranean Region, and the profound climatic and economic challenges facing the energy sector today, our commitment to fostering a more integrated, secure, and sustainable Mediterranean electricity system has remained steadfast.*

*The enormous, anticipated growth in global electricity requires a proactive stance in the face of accelerating investments in networks and infrastructure for the production and transportation of green electricity. We still passionately believe in the power of knowledge sharing and mutually beneficial cooperation both among our members and with our stakeholders.*

*The European Commission, our primary institutional partner, is co-financing the ongoing TEASIMED 2 project, while our dynamic exchange with the League of Arab States culminated in the signing of a Memorandum of Understanding at the end of 2024, underscoring our shared commitment to overcoming regulatory and operational challenges, and to driving the energy transition in the Euro-MENA region.*

*Our natural partnership with the European Network of Transmission System Operators (ENTSO-E) has continued to flourish, with the release of an updated Map of the Interconnected Electricity Transmission Networks. This also highlights six key interconnection projects assessed in our Mediterranean Masterplan of Interconnections 2022. Similarly, our cooperation with the Association of Mediterranean Energy Regulators (MEDREG), ongoing since 2014, was particularly active within the framework of the Regional Energy Market (REM) Platform promoted by the UfM, while also supporting our members through the Pan Arab Electricity Market initiative.*

*We have maintained a particular focus on adequacy studies: with the release of the Summer Outlook 2024 and the Winter Outlook 2024-25 reports, our association provided in-depth analyses of regional power system adequacy. These reports, presented in public webinars, represent an important milestone for our association, covering critical aspects such as capacity requirements under different climate scenarios and the role of interconnections in mitigating potential shortages.*

*Med-TSO's operational efficiency is underpinned by our blended approach of intensive remote work, utilizing the best technologies for frequent technical meetings, and periodic physical meetings to consolidate progress. This effective working method is supported by the dedicated efforts of all the staff working at the Secretariat, who have contributed to the successful running of seven institutional meetings, thirty-one technical meetings, two webinars, and six workshops, demonstrating our active and collaborative approach.*

*In closing, I want to express my sincere appreciation to all Med-TSO members, from the freshly renewed pool of our Vice-Presidents to the Secretary General and to everyone involved in our activities, for their continued, precious collaboration and support and for their excellent work.*

*While we are proud of the achievements of 2024, we are eager to continue our progress. We invite you to explore our current initiatives for 2025 by following us on our website and social media channels.*

*Thank you for your interest,  
Sabah Mashaly*

# 1 Med-TSO's 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 Med-TSO's Promotions to Achieve its Objectives

Coordination among Med-TSO Members on National Transmission Network Development Plans and Power System operation, promoting an integrated, secure and sustainable Mediterranean Power System, also through the development of new cross-border projects

Facilitate the integration of new energy sources (especially from RES), increase security and quality of Power Supply

Use of common criteria and harmonised, transparent and non-discriminatory technical rules

Guarantee the interoperability of the interconnected Power Systems

Training, knowledge sharing and technical assistance in the region

Facilitate the exchange of information, analyses and experiences among the Members

Enhanced communication and consultation with stakeholders

Promote transparency to improve the TSO's activity and facilitate public acceptance of new transmission infrastructures

Cooperation among the Mediterranean TSOs and a coordinated approach towards the institutions

Increased collaboration with MEDREG (the Association of Mediterranean Regulators for Energy) and ENTSO-E, the European Network of TSOs for electricity

Assert the role of TSOs at regional level, by analysing and taking common positions on relevant issues

Promote TSOs as reliable actors on the energy scene and positively impact on their activities

# 3 How Med-TSO Achieves its Objectives

To achieve its objectives, Med-TSO has, over the years, received four grants from the European Commission: TEASIMED 2 is the ongoing co-funded project, running from 2023 to 2025, structured along five activity streams managed by five technical committees (TC), which gathers experts from each TSO member of the Association.



Update of the Mediterranean transmission network development plan



Consolidation of the common technical regulatory framework



Optimised operation process



Assessing resilience of power system



Knowledge sharing programme for training and capacity building

## 3.1 The TEASIMED 2 project

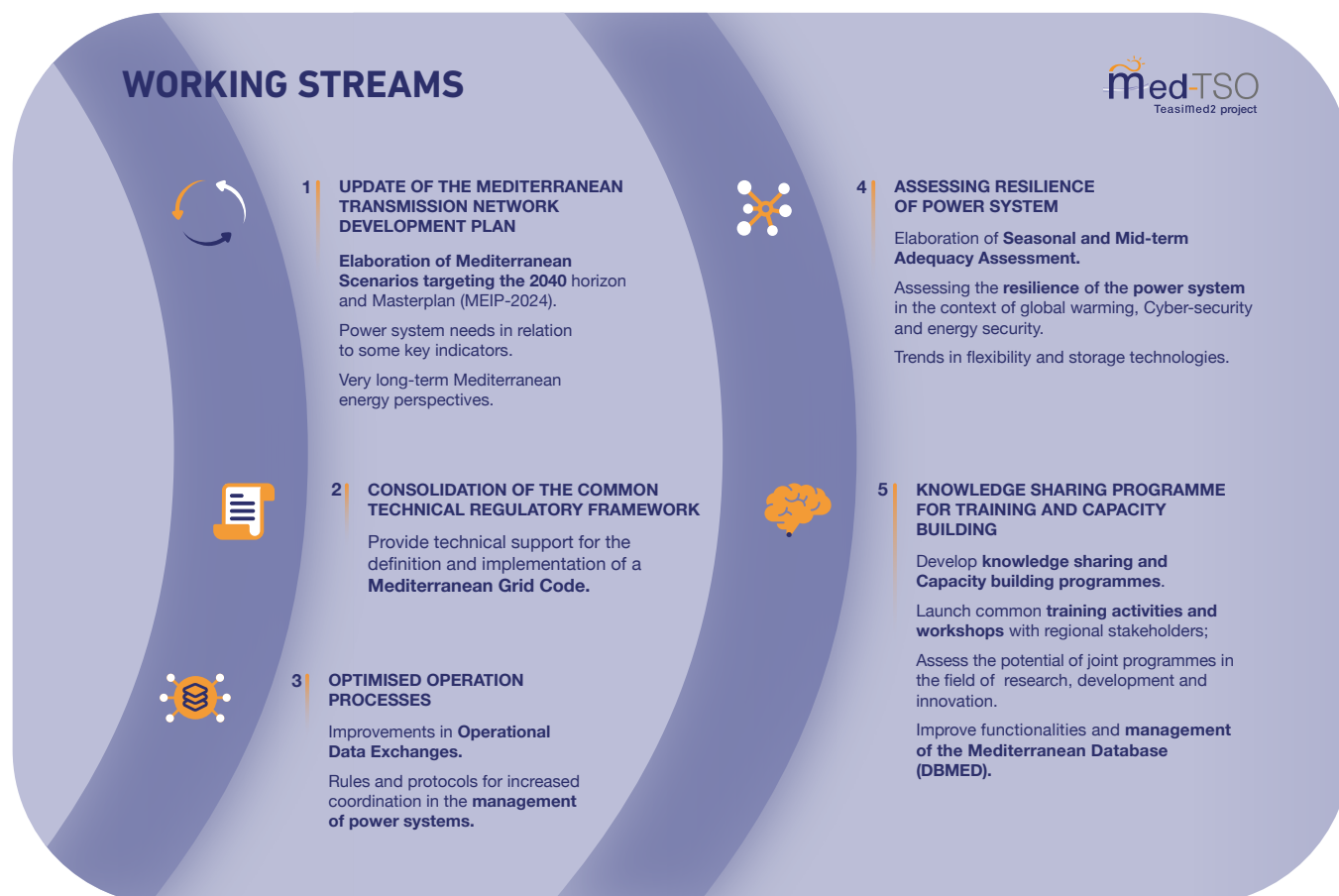
Launched in January 2023, **TEASIMED 2—Towards an Efficient, Adequate, Sustainable, and Interconnected MEditerranean Power System**—is, to a certain extent, the follow-up of the TEASIMED project that concluded in March 2023.

The project is ongoing until December 2025, aimed at promoting the progressive integration of Med-TSO countries' transmission networks, considering adequacy requirements and energy security, enhancement of cross-border electricity exchanges as well as renewable energy sources' integration in the Mediterranean Region through the coordination of national development plans and the corresponding rules for operating the grids.

TEASIMED 2 is the fourth project co-funded by the EC. Its objectives are in line with the objectives of the EU's Neighbourhood Policy on Energy and Climate Change, and the objectives of the European Green Deal. It also takes into consideration the actions promoted by the REPowerEU Plan through energy savings, diversification of energy supplies, and accelerated roll-out of renewable energy.

**In 2024:** four Teasimed 2 Project steering & coordination meeting

The TEASIMED 2 project is structured along the following activity streams:





## 3.2 Technical Committees



### 3.2.1 Technical Committee Planning

This committee has established key objectives focused on regional electricity infrastructure planning and coordination. The committee aims to define transmission infrastructure planning criteria and facilitate the coordinated assembly of diverse national development plans. A crucial part of this process involves sharing priorities based on the timescale of expected benefits. The committee will assess the regional scenario, drawing upon the plans of each Transmission System Operator (TSO). Furthermore, they will evaluate short-term projects, establishing specific criteria for such projects and considering the development of a Mediterranean Reference Grid. Finally, the group will assess the impact of Renewable Energy Source (RES) introduction on the safety and functioning of regional electricity systems.

**In 2024:** 4 meetings, 1 internal workshop, 1 joint meeting



### 3.2.2 Technical Committee Economic Studies and Scenarios

This committee has the main objective of sharing a common vision for the future of power systems in the Mediterranean area and to build mid- and long-term scenarios for electricity.

The committee is also involved in assessing the benefit of Med-TSO interconnection projects: Med-TSO implements a common methodology for assessing the cost and benefits (CBA) of interconnection projects, aiming to improve the electricity exchange capacities among the Mediterranean countries.

**In 2024:** 7 meetings, 1 internal workshop, 1 joint meeting

### Scenario Development

The Technical Committee Economic Studies and Scenarios (TC ESS) conducted the development of **three future scenarios** – **Inertial, Proactive, and Mediterranean Ambition**. These scenarios were built on the outcomes of the TEASIMED 2 project. Following an intensive

data collection phase that concluded in December 2023, the Inertial scenario simulation was executed using the ANTARES software. The simulation provided forecasts for the 2030 and 2040 horizons, offering to members and stakeholders a robust tool for understanding the potential evolution of the regional energy landscape.

In February 2024, a two-day workshop hosted by STEG (the Tunisian Company of Electricity and Gas) in Tunis allowed members and external stakeholders to explore these scenarios in detail. High-level participation—including that of STEG’s PDG, Faycel Tarifa—underscored the importance of collaborative planning and highlighted STEG’s commitment to renewable energy integration and cross-border interconnections.

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full news



Another significant event was held in Casablanca from 9–13 December 2024, where TC ESS and the Planning Committee further discussed the scenario updates, laying the groundwork for future planning studies including the kick-off of the e-highway 2050 activity and new cooperation with ENTSO-E for the Ten-Year Network Development Plan 2026.

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full news



Finally, the TC ESS has launched the process to provide members with **possible scenarios beyond 2040**. With the support of a consultant the committee has kicked off this initiative targeting not only the elaboration of the studies but also, more importantly, to provide members with the capability to perform such analysis.

## Analysing the Grid of Tomorrow at the 2030 and 2040 Horizons

TC Planning, in collaboration with an external consultant, advanced the coordinated planning studies that will culminate in two major reports scheduled for publication in 2025. The first report will update the **Masterplan of Interconnections at the 2030 Horizon** and focus on mature projects expected to be operational by 2030. The second report, titled the **Mediterranean Electricity Interconnection Perspectives (MEIP)**, will provide a forward-looking analysis of projects with a 2040 target. These studies are central to ensuring that the Mediterranean region is well-prepared for future challenges and opportunities.

Finally, TC Planning and TC Economic Studies & Scenarios have started up a process to identify the **system needs of the Mediterranean power systems**. This report will be published in 2025.

## Mapping Grid Development

Med-TSO, in close collaboration with ENTSO-E, released an updated **Map of the Interconnected Electricity Transmission Networks in 2024**. This comprehensive map spans nearly 500,000 km of high-voltage lines and provides a detailed overview of the three synchronous zones operating within the region: ENTSO-E's Continental Europe zone, the Southwestern Mediterranean Block, and the Southeastern Mediterranean Block. The map not only depicts existing infrastructure but also highlights six **key interconnection projects derived from the Mediterranean Masterplan of Interconnections 2022**. Enhanced zoom sections offer stakeholders valuable insights into regional grid developments, underlining the strategic importance of cross-border connectivity.

See the  
map



### 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.

**In 2024:** 4 meetings

## Consolidating the Common Technical Regulatory Framework

In 2024, TC Regulation focused on the regulatory frameworks that govern interconnections between EU and extra-EU countries. The Committee has organised a workshop in Madrid, whose sessions examined system security, sustainability, and market integration. In-depth discussions addressed key interconnections—such as Spain-Morocco, Italy-Montenegro, and Türkiye-Greece-Bulgaria—and tackled emerging topics like the EU Carbon Border Adjustment Mechanism (CBAM). These topics are being grouped in a report.

Additionally, innovative initiatives such as the 'Interconnected Electricity Exchange Zone

East-Med' and the Pan-Arab Electricity Market (PAEM) initiative were discussed, highlighting Med-TSO's commitment to enhancing regional interconnection management by supporting members concerned in implementing such initiatives.

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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. other multinational entities in the Mediterranean Region, sharing regulatory guidelines and best practices at the national level, and developing position papers.

**In 2024:** 8 meetings, 2 internal workshop, 1 joint meeting

### Operational Coordination and Data Integration

Med-TSO's operational activities were a focal point in 2024, 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.



## Digital Platforms and Statistical Reporting

In addition to operational improvements, Med-TSO unveiled its second Statistical Factsheet. This publication provides transparent, data-driven insights into key statistics, such as electricity demand, generation, and installed capacity across the Mediterranean Region as of December 31, 2023. The updated Power Statistics Data Platform now offers country-specific database access and facilitates real-time visualisation of electricity exchange data. These tools are essential for TSOs and policymakers as they navigate the complexities of an evolving energy landscape.

See the  
Factsheet



Power Statistics  
Data Platform



## Mediterranean Adequacy Studies - Seasonal Outlooks

In 2022, Med-TSO started to assess adequacy studies on the situation among non-EU Med-TSO members for the summer and winter seasons. With this assessment, Med-TSO aligns with the world-wide best practices and the latest developments of EU regulation. These investigations consider the security of electricity supply to consumers through a detailed power system adequacy assessment, using probabilistic criteria. This approach is necessary due to the stochastic nature of renewable energy systems (RES) and their intermittency, and also because of the power system operation, more and more based on open market conditions; all these aspects call for the assessment of power system adequacy in the short, mid, and long run. Moreover, the integration of huge amounts of RES must be closely followed by the commissioning of devices that can provide adequate power system flexibility.

The main adequacy indicators that have been assessed in these reports are:

- **Loss of Load Duration (LOLD)** in a given geographical zone for a given period is the number of hours during which the zone experiences ENS during a single Monte Carlo sample/simulation year.
- **Loss of Load Expectation (LOLE)** in a given geographical zone for a given period is the expected (average) number of hours per year when there is a lack of resources to cover the demand needs, within a sufficient transmission grid operational security limit.
- **Expected Energy Not Served (EENS)** in a given geographical zone for a given period is the expected (average) value of energy not to be supplied due to lack of resources while complying with the transmission grid operational security limit.
- **Relative EENS:** is a more suitable indicator to compare adequacy across geographical



scope as it represents the percentage of annual demand that is expected to not be supplied.

The adequacy situation is assessed using a two-step approach:

1. Evaluation of adequacy under the isolated system operation
2. Assessment of adequacy under the interconnected system operation to quantify the importance of interconnections. For the interconnected mode, we identify the exchange needed to overcome the adequacy situation.

Furthermore, a sensitivity analysis has been conducted to identify the most severe Monte Carlo Climatic Year (MCY) for each country.

Recognising the critical importance of ensuring that power systems remain robust under varying demand and climate conditions, Med-TSO placed a strong emphasis on adequacy studies in 2024.

A public webinar held on May 20, 2024, marked the release of the **Summer Outlook 2024** report. This contains an in-depth analysis of the regional power system's adequacy over the summer period. It covers key issues such as capacity requirements under ordinary and severe climate conditions, and evaluates the role of interconnections in mitigating potential shortages. Similarly, in November, the Association presented the results of the **Winter Outlook 2024-25**.

The webinars showcased the methodologies used by the Adequacy Study Team, which include probabilistic assessments. The study's findings, which spanned six Med-TSO countries, such as Morocco, Tunisia, Libya, Egypt, Jordan, and Lebanon, offer TSOs' valuable insights into the capacity and adequacy of their power systems. This data-driven approach not only supports TSOs in making balanced decisions but also reinforces Med-TSO's commitment to advancing regional energy security.

[Read all the Adequacy studies](#)





### 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 2024, 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.

Engagement with a wide range of stakeholders was the hallmark of 2024.

#### Workshops, Technical Visits, and Interactive Sessions

##### Workshop on Energy System Operations and Control in the Spanish System | 7 March 2024

In collaboration with Red Eléctrica, Med-TSO organised a workshop that focused on the Spanish model of power system operations. This event provided participants with detailed insights into the functioning of control centres, market interactions, system balancing, and international interconnections. A tour of the Control Center allowed attendees to witness real-time operations, deepening their understanding of how advanced control systems maintain system security.

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##### Resilient Grids in the Mediterranean | 12 June 2024

At the TERNA Academy in Rome, experts from various TSOs converged to address the challenges posed by climate change on electricity infrastructure. The workshop, titled “Resilient Grids in the Mediterranean – Mitigating Climate Risks in Electricity Infrastructure,” featured presentations on vulnerability assessments, risk-based resilience methodologies, and real-world case studies. Sessions led by experts from TERNA, RTE, ELES, and IPTO

detailed adaptation strategies that TSOs are deploying to enhance grid resilience against extreme weather events and other climate-related risks.

[Read the full news](#)



### **Visit to the SELENE Regional Coordination Center | 1 October 2024**

The Knowledge Sharing Programme also featured a technical visit to the SELENE Regional Coordination Center in Thessaloniki, organised in collaboration with IPTO. This visit offered a behind-the-scenes look at how regional coordination centres operate and manage the daily challenges of ensuring grid reliability and security. The session provided valuable insights into innovations in grid coordination and set the stage for future collaborative initiatives.

[Read the full news](#)



## **High-level Events, Conferences, and Workshops**

### **RES4AFRICA – Scaling-Up Sustainable Electrification in Africa | 29 February 2024**

At the RES4Africa side event held during the Key Energy Expo in Rimini, Secretary General Angelo Ferrante presented insights on pivotal interconnection projects such as ELMED. His presentation emphasised the project's importance for system security, sustainability, and market integration. This event underscored Med-TSO's commitment to enhancing regional energy cooperation and advancing sustainable electrification initiatives in Africa.

[Read the full news](#)



### **meetMED – Together We Switch to Clean Energy Week | 22-24 April 2024**

During this key conference in Hammamet, Tunisia, Secretary General Ferrante represented Med-TSO and discussed the importance of improving technical interoperability within Mediterranean power systems. The event brought together regional experts, stakeholders, and development partners to explore energy efficiency and renewable energy measures,

reinforcing Med-TSO's role in the energy transition.

[Read the full news](#)



## **Knowledge Sharing with the League of Arab States | 12–14 May 2024**

Med-TSO representatives participated in the second meeting of the PAEM Committees organised by the League of Arab States and the World Bank in Dammam, Saudi Arabia. The session focused on sharing expertise on regional electricity market integration and highlighted ongoing synergies between Med-TSO and the League of Arab States. Discussions covered topics such as the development of the Mediterranean Grid Code and the coordination of Integrated Electricity Exchange Zones (IEEZ).

[Read the full news](#)



## **Istanbul UfM Energy Week | 15-16 May**

Med-TSO participated in the Istanbul Energy Week organised by the Union for the Mediterranean. The Association showcased its activities in support of the Action Plan in the framework of the Ministerial Declaration for 2021-2024.

[Read the full news](#)



## **MENA Europe Future Energy Dialogue (MEFED) | 8–9 September 2024**

In Thessaloniki, Greece, Med-TSO President Sabah Mashaly and Secretary-General Ferrante took part in MEFED24. The event featured high-level discussions on cross-regional energy infrastructure, including sessions on financing energy projects and the technical interoperability of Mediterranean power systems. The Thessaloniki Declaration, endorsed by Med-TSO, reflects the Association's commitment to driving regional collaboration.

[Read the full news](#)



## **International Forum on Advancing the Energy Transition Toward Net Zero | 27–28 October 2024**

Co-organised with the GCC Interconnection Authority, EPRI, and GO15, this forum in Al Khobar, Dammam, brought together global leaders to discuss grid planning, market reforms, and the deployment of advanced grid technologies. Med-TSO's leadership shared insights on enhancing cross-border cooperation and the critical role of storage and flexibility in supporting the energy transition.

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## **COP29 Side Event – Building a Shared Vision for a Sustainable Mediterranean | 15 November 2024**

During the COP29 side event organised by the UfM, Angelo Ferrante joined other regional leaders to address critical investment priorities and regulatory challenges for clean energy. The roundtable discussion laid the groundwork for a collaborative clean energy roadmap for 2025-2027 and reinforced the necessity of a shared regional vision for energy integration.

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## **Egypt Energy 2024 – Med-TSO Focus on Egypt | 26–28 November 2024**

At Egypt Energy 2024, Med-TSO's Power System Advisor Naglaa Khattab presented the Mediterranean Master Plan of Interconnections. Emphasising Egypt's emerging role as a central energy hub, her presentation highlighted the country's strategic interconnections with neighbouring nations and its contribution to a resilient Mediterranean electricity market.

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## 4 Our partners



### European Commission - DG MENA

The European Commission is the primary institutional partner of the Association. Since 2015, the Commission has supported the actions delivered by the Association through its Directorate General for Neighbourhood and Enlargement Negotiations (DG NEAR), now Directorate-General for the Middle East, North Africa and the Gulf (DG MENA), by co-financing Med-TSO through four grants: the Mediterranean Project, its follow-up, the Mediterranean Project 2, TEASIMED and the ongoing TEASIMED 2, started in January 2023.

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### League of Arab States

In 2024, the relationship between Med-TSO and the League of Arab States was marked by a dynamic exchange of expertise and collaborative initiatives aimed at fostering regional energy integration. During the second meeting of the PAEM Committees in Dammam, organised jointly by the League of Arab States and the World Bank, Med-TSO representatives shared valuable insights into Mediterranean electricity market integration, emphasising knowledge sharing and coordination between Integrated Electricity Exchange Zones.

This engagement not only reinforced mutual understanding but also paved the way for a Memorandum of Understanding that has been signed at the end of 2024 between Med-TSO and the LAS Energy Department. The partnership underscores a shared commitment to overcoming regulatory and operational challenges thereby strengthening the strategic bond between Med-TSO and the League of Arab States in driving the energy transition forward in the Euro-Mena regions.

[Read the full news](#)





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

## Union for the Mediterranean

In 2024, cooperation with the Union for the Mediterranean (UfM) deepened as both entities worked closely to shape a shared vision for a sustainable regional energy future.

This collaboration not only underscored the strategic importance of integrating diverse national energy agendas but also paved the way for actionable plans aimed at reinforcing a resilient, interconnected Mediterranean power system.

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## ENTSO-E

Med-TSO and the European Network of Transmission System Operators (ENTSO-E) are natural counterparts and partners, as the two organisations share the membership of 13 TSOs.

Med-TSO has cooperated with ENTSO-E since 2016 with two non-disclosure agreements for providing Med-TSO with an extract of the Ten-Year Network Development Plan (TYNDP) data and market study results, furthered in 2017 when the Secretaries General of the two organisations signed the first memorandum of understanding. Thanks to this cooperation Med-TSO is a contributor to the TYNDP 2024 for Mediterranean projects.

In 2024, relations between the two Associations were strengthened by the mutual participation of representatives in events.

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## MEDREG

Med-TSO has been cooperating with the Association of Mediterranean Energy Regulators (MEDREG) since 2014 when the two organisations signed a Memorandum of Understanding under the auspices of the European Commission's Directorate-General for Energy. During 2024, the two Associations mainly worked within the framework of the activities developed within the action plan of the Regional Energy Market (REM) Platform promoted by the Union for the Mediterranean — an intergovernmental institution bringing together 43 countries to promote dialogue and cooperation in the Euro-Mediterranean Region.

The two Associations are contributing to support their members in developing activities that are part of the Pan Arab Electricity Market initiative.

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## OMEC

The collaboration with the Organisation Méditerranéenne de l'Énergie et du Climat proved highly productive throughout 2024, marked by our mutual engagement in various events centred around scenario building.

This partnership has facilitated fruitful exchanges and fostered substantial advancements in our shared objectives regarding energy studies. Through active participation and joint efforts, we have contributed significantly to developing innovative strategies and solutions to address the complex challenges in these critical domains.

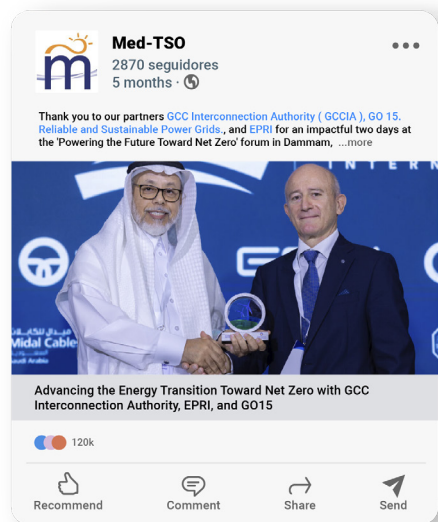
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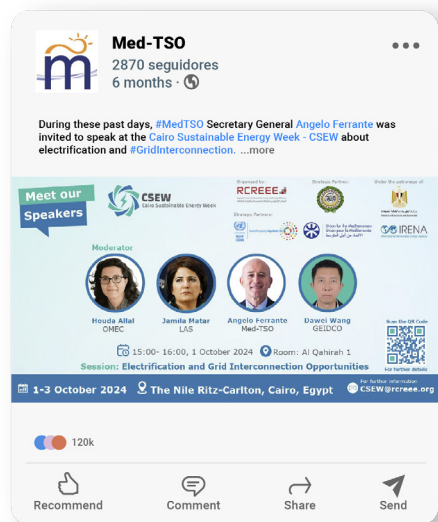
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Other important collaborations



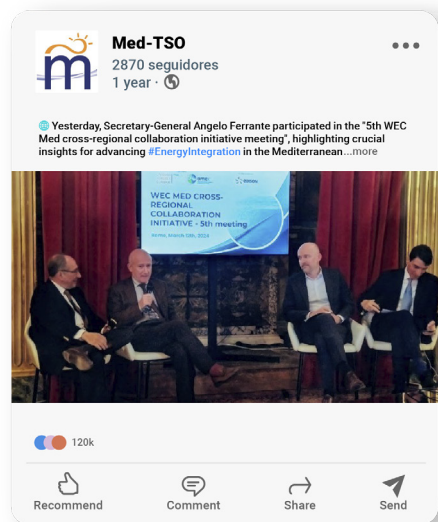
“Powering the Future Toward Net Zero” forum in Dammam, Saudi Arabia



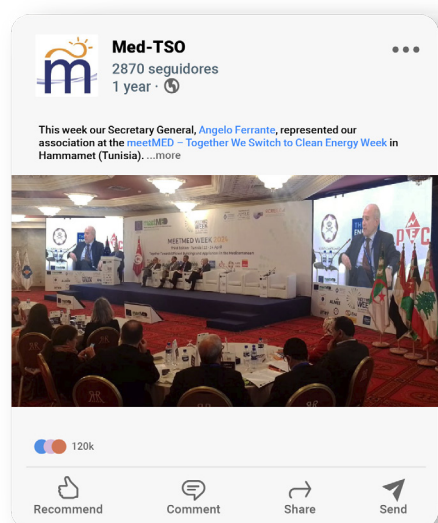
Cairo Sustainable Energy Week in Cairo



MENA Europe Future Energy Dialogue 24, Thessaloniki



5th WEC Med cross-regional collaboration initiative meeting, Rome



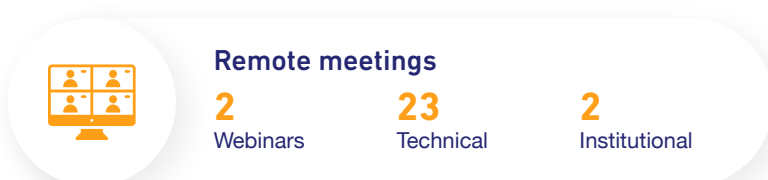
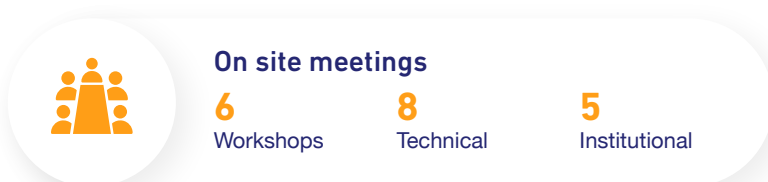
meetMED - Together We Switch to Clean Energy, Hammamet, Tunisia

# 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 2024





## 2024 Timeline

### JANUARY

- **16** | 📅 Technical Committee Economic Studies and Scenario meeting.
- **31** | **Cairo** – Med-TSO Strategic Team Workshop.

### MARCH

- **5** | **Madrid** – Technical Committee Regulation and Institution meeting.
- **6** | **Madrid** – Technical Committee Operation meeting.
- **7** | **Madrid** – Technical Committee Operation Workshop “Energy System Operations and Control in Spanish model” with VISIT to REE Control Center.
- **13** | 📅 Steering and Coordination meeting.
- **19** | 📅 Technical Committee Economic Studies and Scenario meeting.

### FEBRUARY

- **13-14** | **Istanbul** Med-TSO Adequacy Studies Internal Workshop.
- **20, 21** | **Tunis** – Technical Committee Economic Studies and Scenario Internal Workshop.
- **27** | **Rome** – Executive Board meeting.
- **28** | 📅 Technical Committee Planning meeting.

## APRIL

- **3** | 🖥️ Med-TSO Strategic Team Webinar.
- **16** | 🖥️ Technical Committee Economic Studies and Scenario meeting.
- **17** | 🖥️ Technical Committee Operation meeting.

## JUNE

- **4** | 🖥️ Steering & Coordination meeting.
- **11** | **Rome** – Technical Committee Planning meeting.
- **12** | **Rome** – Med-TSO “Resilient Grids in the Mediterranean: Mitigating Climate Risks in Electricity Infrastructure”, Technical Committee Planning and Technical Committee Operation Internal Workshop.
- **20** | 🖥️ Technical Committee Economic Studies and Scenario meeting.
- **26** | 🖥️ Technical Committee Regulation and Institution meeting.
- **27** | 🖥️ Technical Committee Operation meeting.

## MAY

- **8** | **Tunis** – Med-TSO General Assembly.
- **16** | 🖥️ Technical Committee Economic Studies and Scenario meeting.
- **20** | 🖥️ Med-TSO "Summer Outlook 2024 Presentation" Internal Webinar (AST).
- **21** | 🖥️ Technical Committee Regulation and Institution meeting.
- **28** | 🖥️ Technical Committee Operation meeting.

## JULY

- **2** | **Cairo** – Steering and Coordination meeting.
- **3** | **Cairo** – Executive Board meeting.
- **30** |  Technical Committee Operation meeting.

## SEPTEMBER

- **3** |  Video conference - Technical Committee Operation meeting.
- **10, 11** | **Cairo** – Med-TSO Winter Outlook 2024/25 Modelling Internal Workshop (AST).
- **19** |  Technical Committee Economic Studies and Scenario meeting.
- **26** |  Technical Committee Planning meeting.

## AUGUST

## OCTOBER

- **1** | Thessaloniki – Med-TSO “Role of the Regional Security Centers and visit to the SELENE Regional Security Coordinators (RSCs)” Technical Committee Operation Internal Workshop.
- **2** | Thessaloniki – Technical Committee Operation meeting.
- **16** | 📺 Executive Board meeting.
- **23** | 📺 Technical Committee Economic Studies and Scenario meeting.

## DECEMBER

- **10** | Casablanca – Technical Committee Planning meeting.
- **11** | Casablanca – Technical Committee Planning and Technical Committee Economic Studies and Scenario joint meeting.
- **17** | 📺 Steering and Coordination meeting.
- **19** | 📺 Technical Committee Operation meeting.

## NOVEMBER

- **6** | 📺 Technical Committee Regulation and Institution meeting.
- **7** | 📺 Technical Committee Operation meeting.
- **13** | 📺 Med-TSO "Winter Outlook 2024 Presentation" External Webinar (AST).
- **20** | Lisbon – Med-TSO General Assembly.

# 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.



30th General Assembly in Lisbon, 20 November 2024

## 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.



39th Executive Board meeting in Tunis, 26 February 2025



**Sabah Mashaly** | *President*

“Med-TSO remains devoted to bolstering Mediterranean electric systems. Our consolidated bottom-up approach and harmonised collaboration with TSOs lay the groundwork for a prosperous future. I extend my gratitude to our member companies for their unwavering support and look forward to continued success.”

**Faycel Tarifa** | *Vice-President*

“We, as the TSO of Tunisia, are aware of the challenges of accelerating the energy and climate transition policy. STEG has embarked on a range of projects, the most important of which is the mega project ELMED which will connect the power networks of both Mediterranean shores. ELMED tends also to position Tunisia as a regional platform for renewable energies”.





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

“Electric systems and, most notably, the transmission grids are at the core of the energy transition towards a decarbonised economy and society. In pursuing this common challenging transformation, the Mediterranean represents a strategic opportunity, whereas Med-TSO plays an important role in helping to boost the development of a secure and sustainable interconnected transnational grid based on valuable and deep cooperation between countries.”

**Vincent Thouvenin** | *Vice-President*

“The current energy, climate, and geopolitical situation incentivises rapid deployment of electrification, renewable energy, and efficient grids. Med-TSO is an important platform of cooperation and plays a key role in fostering a successful Mediterranean energy transition by connecting neighbouring countries.”



**Ramon Granadino** | *Vice-President*

“Electricity systems drive the ecological transition. Priority lies in emission-free models, electrifying economies, integrating renewables, bolstering networks, and storage. Med-TSO fosters cooperation, connecting Mediterranean TSOs, and enhancing integration, security, and sustainability. Proud to contribute through Red Eléctrica and Med-TSO toward this shared objective.”

**Yannis S. Tolias** | *Vice-President*

“The Mediterranean Region will be of strategic importance for the EU’s green energy supply in the near future. We, as the TSO of Greece are contributing to the acceleration of our energy transition through projects that maintain the strong momentum for RES investments and by advancing international interconnections which promote Greece’s role as an exporter of clean energy and as a hub that can transfer cost-efficient renewable energy from the MENA countries to the major consumption centers of Europe.”







**Guido Guida** | *Vice-President*

“Med-TSO drives Mediterranean Electricity Transmission Systems’ growth via TSO cooperation, emphasising interconnections and renewables. We plan future projects aligning with regional goals, promoting sustainable practices for a resilient Mediterranean energy landscape.”

**Mohamed Lakhdar Habib** | *Vice-President*

“Navigating the complex energy transition demands solutions to technological, economic, and societal challenges. Tackling climate change and ensuring energy security needs collective action. Sonelgaz, recognising Med-TSO’s pivotal role in Mediterranean electricity integration, aims to contribute to a cohesive approach for sustainability and resilience in energy.”



**Serhat Metin** | *Vice-President*

“The global climate crisis and geopolitical risks make energy transformation mandatory for all countries. In this transition process, the main responsibility for the uninterrupted and environmentally friendly operation of the electricity system belongs to the transmission companies. Med-TSO contributes to regional grid integration and security of supply through technical, legal and economic co-operation between the transmission companies.”

## 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*

“Managing the Secretariat since 2015, I had the opportunity to witness the long journey made and the numerous results achieved by Med-TSO in terms of projects and reputation among institutions and stakeholders. I am very proud and honored to have been confirmed as the Association’s Secretary General for my fourth mandate. In the next three years, I will dedicate all my efforts to pursuing the goal of creating a Mediterranean Energy Market.”



**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







### **Legal Headquarters**

Viale Egidio Galbani, 70  
00156 Rome – Italy

### **Operational Headquarters**

Via della Marcigliana, 911  
00138 Rome – Italy

[www.med-tso.org](http://www.med-tso.org)

[info@med-tso.com](mailto:info@med-tso.com)

@med-tso



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