



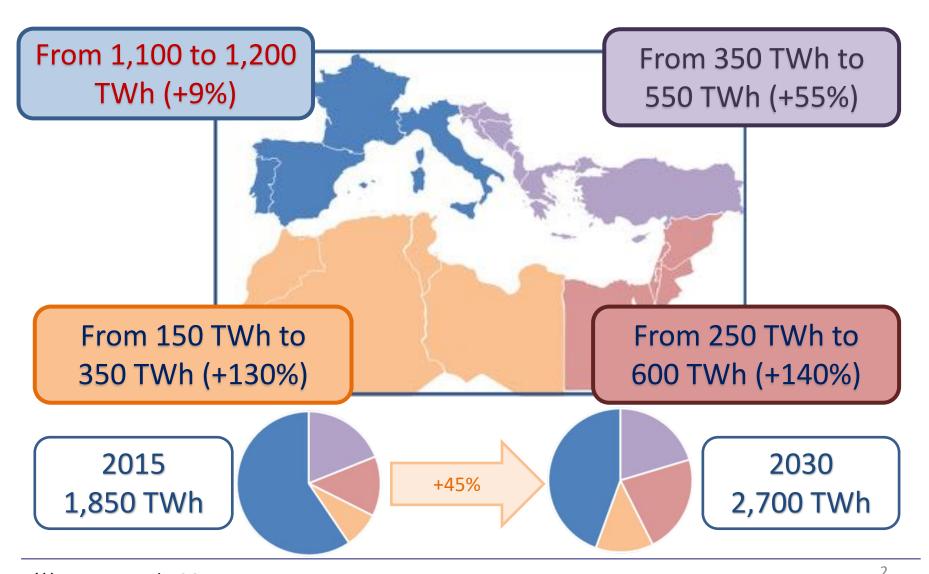




## 2030 Demand scenarios(\*)



#### Demand growth rates strongly contrasted

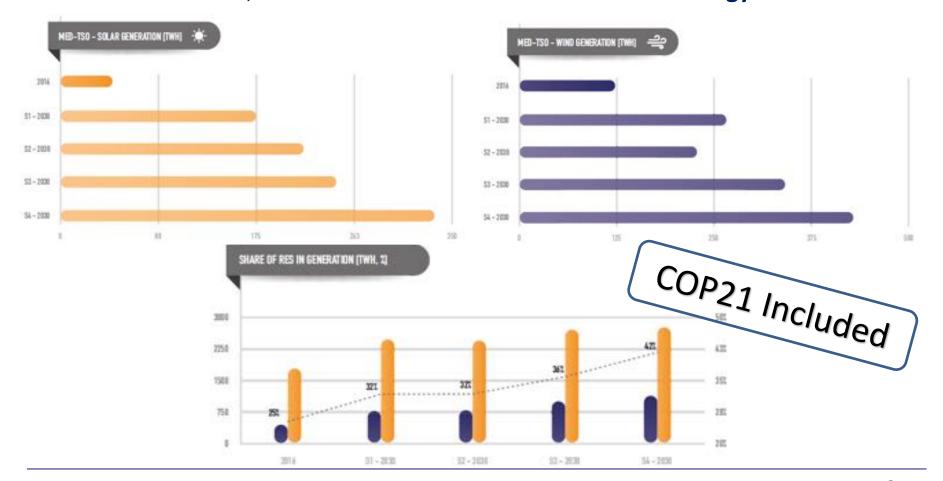




### 2030 Generation scenarios(\*)



During the 2016-2030 period, the Med-TSO Scenarios foresee an increase in the generation capacity of approximately **250 GW to 400 GW** in the Mediterranean area, of which **40% to 60% from renewable energy sources** 





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



- 1. Common technical rules (Mediterranean Grid Code) for PS interoperability: optimizing existing interconnections and support investments to favor new ones
- Coordinated planning for the Mediterranean HV transmission system development
- 3. Capacity building and knowledge sharing programs

**Bottom-up approach** based on TSOs' perspectives **EU support**: Mediterranean Project 1 (MP1) and 2 (MP2), for harmonization and strengthening of electricity markets in the Mediterranean region



#### **Mediterranean Project I outcomes**



18 Reports<sup>(\*)</sup>

7 Workshops

**DBMED** 

ENTSO-E Med-TSO Map

Roadmap for a Med Grid Code

Common Target Regulatory Framework (CTRF)

CTRF Time to implementation

Mediterranean Masterplan

14 interconnection projects identified and assessed

18.000 MW new interc. capacity

2.200 Km

reinforc.

MEUR investments

16.000



#### **Network studies, clusters and corridors**



- Network studies evaluate the technical feasibility of new interconnection capacity (as from the market studies), verifying that the increased flows maintain the system in security conditions
- 14 clusters(\*) grouped in 3 corridors (West, Central and East)
- Approach "by corridor" for "decoupling" the studies

(\*)A cluster is a set of investments necessary to allow an increase of interconnection capacity across two countries or grid portions





### **Med-TSO & RES development**



Promoting interconnectors and rules for sharing resources: two basic "ingredients" for supporting RES development in the Mediterranean

# Supporting investments in the grids

- 2030 scenarios consider RES growth
- CBA for new projects includes evaluation of their impact (CO2 reduction, RES integration level, environmental analysis)

# Increasing reliability and flexibility of the HV grids

- a technical grid code
- cooperation for sharing ancillary services

Sharing ancillary services can be enhanced by market mechanisms, if they exist, but it can be also achieved by specific TSOs agreements even where there is no market





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