



# **Medgrid, a co-development project for the exchanges of electricity in the Mediterranean basin**

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## An industrial initiative

- ✦ **A consortium of 20 EU & SEMCs companies**
  - (TSOs, generators, manufacturers, financing institutions, investors)
  - from both rims of the Mediterranean
- ✦ **To design the Mediterranean interconnection grid**
- ✦ **To assess the conditions of its feasibility, technical, economical, regulatory**

# The programme

- **Design the Mediterranean 2020 MasterPlan,**  
enabling exchanges within S-E Med / with EU
- **Promote evolutions of the regulatory framework** to enable exchanges of (green) electricity
- **Study best financing conditions**
- **Assess the return on grid investment under various conditions**
- **Promote HVDC and cables technologies**
- **Develop technical cooperation with SEMCs**

# The Background

## ✦ The climate change and renewables (RES)

- more transmission long distance,
- more interconnections /supergrids

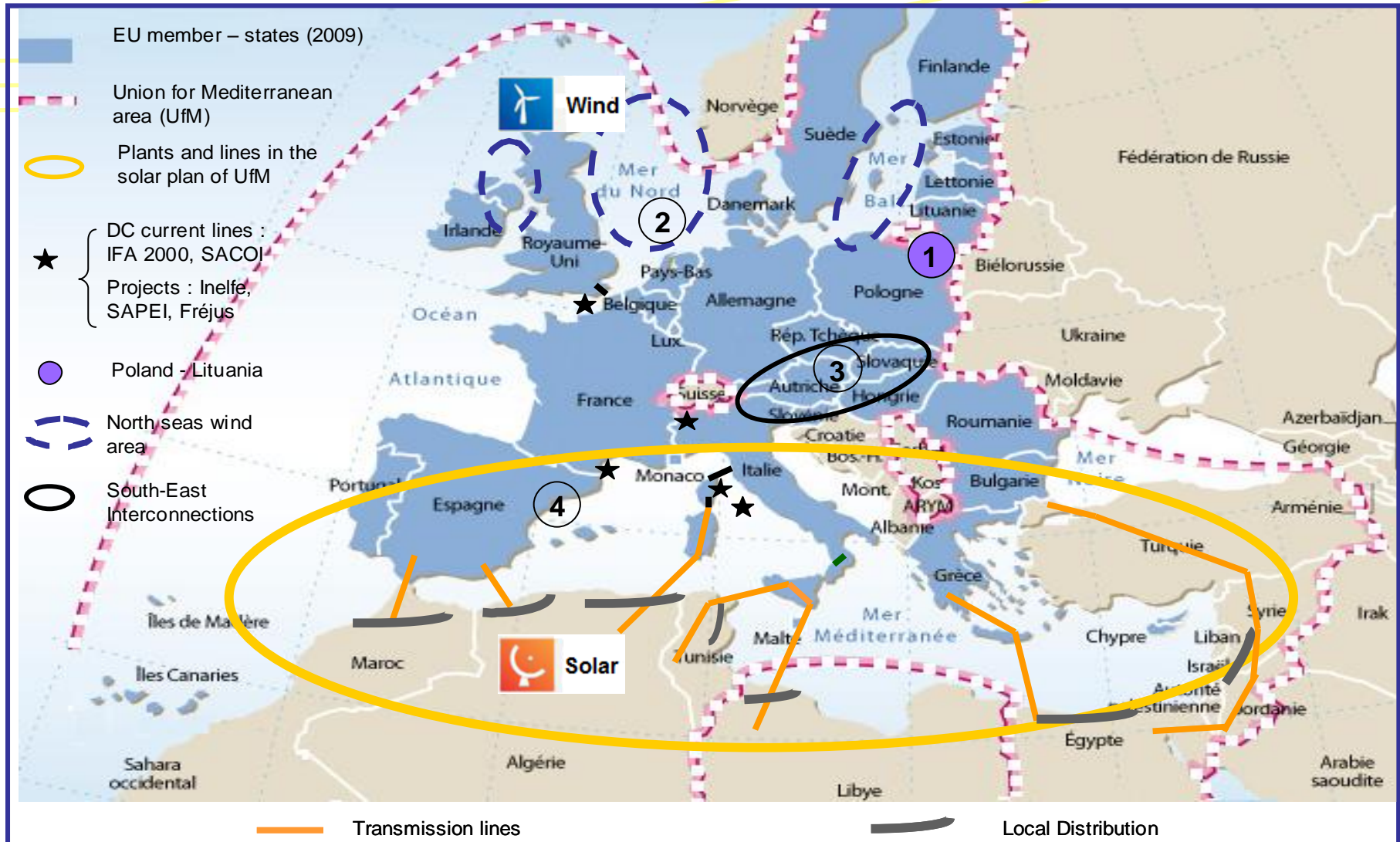
## ✦ EU look for more secure energy supply

## ✦ The EU objectives - the 20/20/20 plan

## ✦ The Mediterranean Solar Plan (MSP)

- 20 GW new RES - 5 GW exported to EU

# The four power infrastructure major strategic projects of the EU





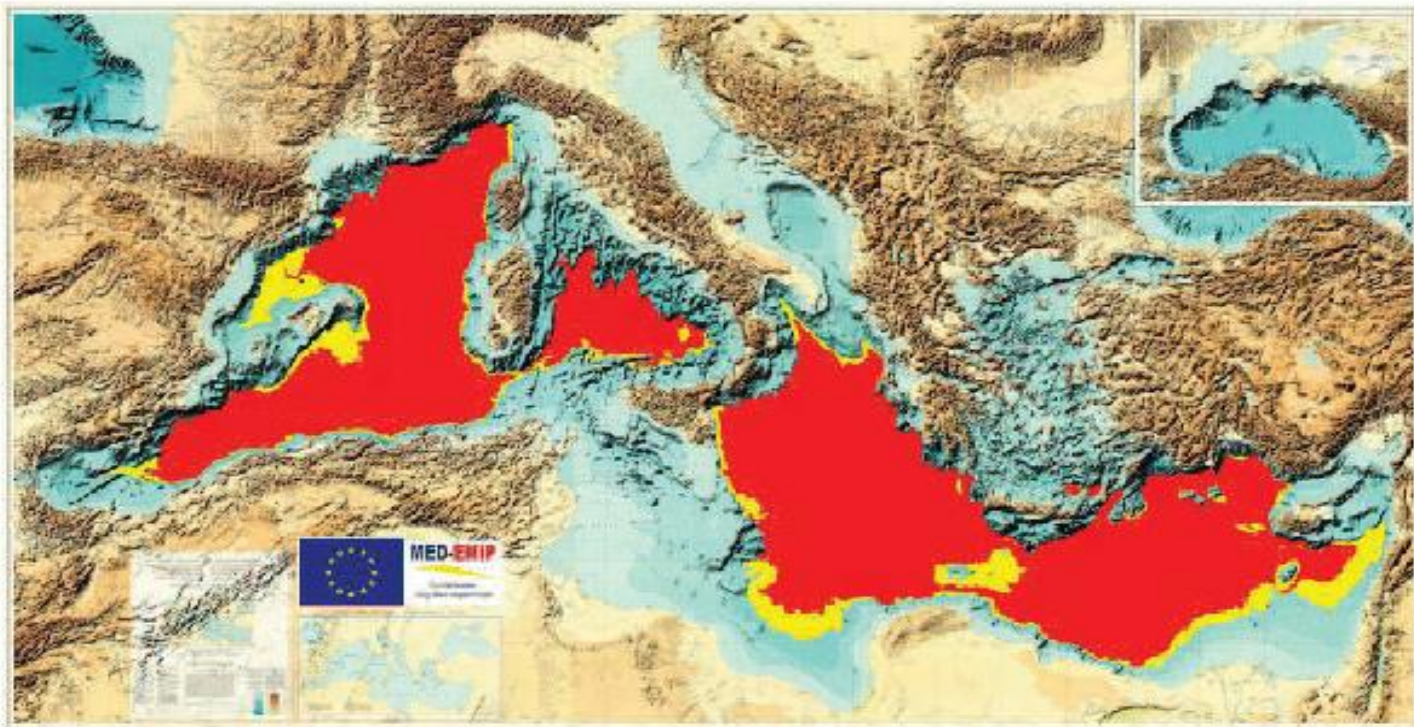
# The present interconnections



# Possible routes

**MED-EMIP**

## North-South corridors crossing the Mediterranean Sea

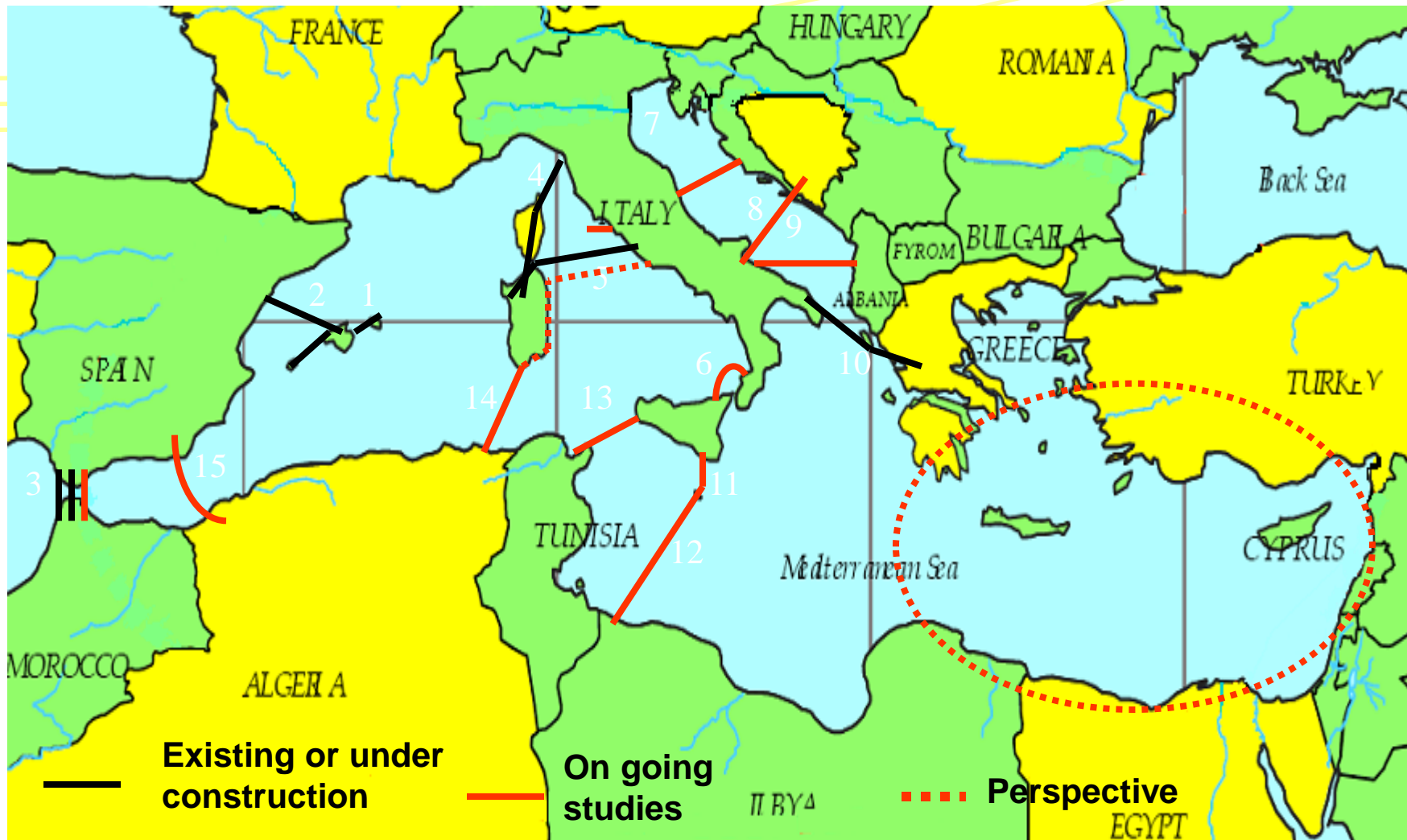


This project is funded  
by the European Union

Red painted areas are below 2000 meter depth



# Existing submarine links and potential transmission projects





# The Challenges

- ✦ **Today technical answers exist** - with limitations : submarine cables; DC technologies
- ✦ **The design of the grid is an issue** – impacts on existing grids, generation locations
- ✦ **Minimal regulations for exchange are to be achieved**
- ✦ **Return on investment in interconnections**
  - possible models for operation of the interconnections?
- ✦ **Importance of financing conditions**

- ✦ **We need to set the machine in motion**
- ✦ **Medgrid will cooperate with other initiatives (EU, ENTSOE, Desertec..)**
- ✦ **SEMCs will be associated : Co-development**
- ✦ **Medgrid prepare 2020-25 and the stage after**

Thank you

[www.medgrid-psm.com](http://www.medgrid-psm.com)