



Regulation aspects

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EU Directive 2009/28

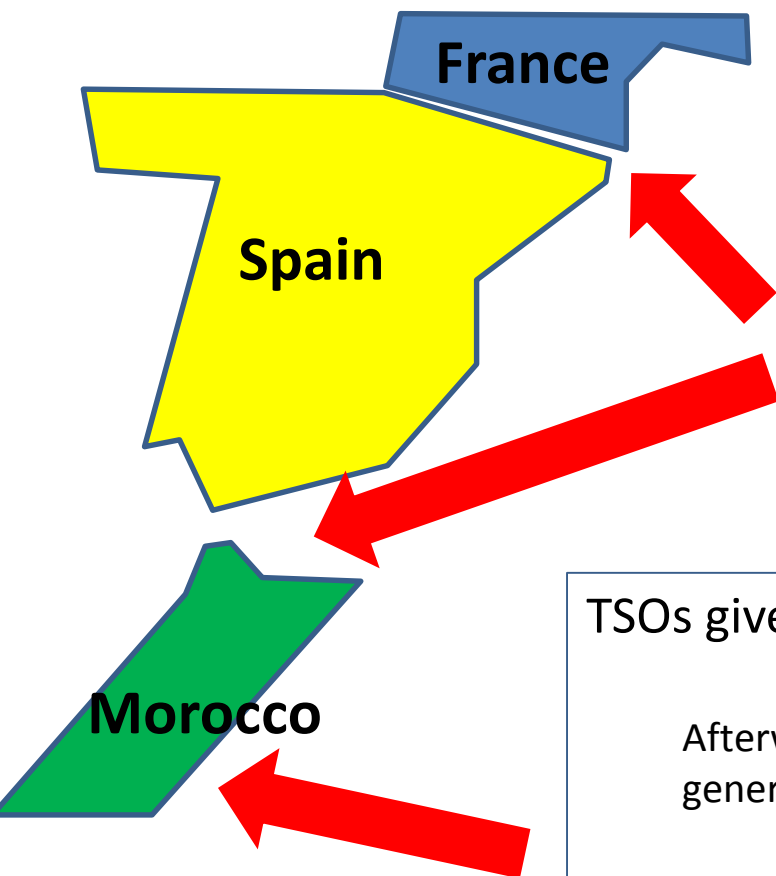


- | **Sets mandatory national targets for the use of renewable energy**
 - ▶ Overall, in 2020, 20% of energy consumed in Europe shall be renewable.

- | **Authorizes member states to cooperate with third countries on « joint projects » (article 9)**
 - ▶ Renewable electricity from these projects can be taken into account in the compliance with the 20% target.
 - ▶ Subject to verification conditions (on the transfer of energy to Europe).

- | **Requires EU member states and TSOs (article 16) :**
 - ▶ To develop infrastructure to accommodate renewable production of electricity,
 - ▶ To give guarantee / priority to electricity from renewable sources.

Transfer Morocco to France



TSOs give access to interconnections

Afterwards, cross-border schedules are fixed. Imbalances between generation and export are to be solved locally.

What is needed



- **Transmission of RES from generator to Morocco-Spain border:**
 - ONEE responsible
 - Requires agreement for IPP

- **Compensate imbalances between generated RES power and delivered power**
 - TSO should be responsible
 - Requires agreement for IPP

What is needed



- **Definition of the net capacity on the cable**
 - ONEE and REE responsible
 - Requires information on the available capacity (1 year ahead)

- **Access to the capacity**
 - Allocation rules
 - Priority for renewable ?
 - Ahead reservation possible – one year only

- **Same process applies for France-Spain border**

What for RES exchange



- **Prove that the exchanged power**
 - **Has actually been produced (certification)**
 - **That it has been produced at the time the interconnector has been reserved for**
 - **If RES is produced in non-neighbouring third country, this condition applies for the cross border lines**

Regulation issues are complex



- **The problem of exchanges is only one face of the dice**
- **There are many other problems (possible answers)**
 - property guarantees, renewable incentive, tariffs..
- **Medgrid and OME have issued a book on the topic**
 - **Objective: how to move towards a real cooperation**



TOWARDS AN
INTERCONNECTED
MEDITERRANEAN GRID
Institutional Framework and
Regulatory Perspectives



THREE BLOCKS OF RECOMMENDATIONS



□ How to build a Pre Market design

- NRA, Unbundling

□ Fostering development of new interconnectors

- Regulatory Measures
- Interconnection Development
- Operational measures

□ Supporting trading of renewable



VOLUME I: THE EURO-MEDITERRANEAN ELECTRICITY SECTOR - PERSPECTIVES, POLICIES, INSTITUTIONS AND REGULATION

Chapter 1. The Euro-Mediterranean energy context: economic outlook, electricity demand perspectives and transmission requirements.

- 1.1 Economic outlook: strong demographic and GDP growth in the South
- 1.2 OME's "conservative" and "proactive" scenarios: from a business as usual to a more proactive approach
- 1.3 Electricity demand perspectives and future generation mix: natural gas and renewable era
- 1.4 The Euro-Mediterranean transmission infrastructure: still very fragmented. Major benefits expected from more interconnections



Chapter 2. Towards Euro-Mediterranean cooperation: a political impetus.

2.1 From the Euro-Mediterranean Partnership (EMP) to the European Neighbourhood Policy (ENP).

2.2 The European Neighbourhood Policy (ENP) and the evolutionary integration process: energy infrastructures at the heart of regional cooperation

2.3 The European energy policy and the partnership with the Southern Mediterranean: recent developments



Chapter 3. Institutions and stakeholders at work

3.1 Euro-Mediterranean regional institutions and sectorial organizations

3.2 Euro-Mediterranean cooperation initiatives

3.3 Euro-Mediterranean financing institutions and tools

Chapter 4. Regulation of the electricity sector in the European Union and in South and East Mediterranean countries: a contrasted situation.

4.1 Regulation of the electricity sector in the European Union: a 20-year process

4.2 Regulation of the electricity sector in the SEMCs: a young process



Chapter 5. Towards a more integrated electricity sector around the Mediterranean: new regulations are necessary

5.1 Regulation for international trade of electricity through interconnections across the Mediterranean: towards market integration

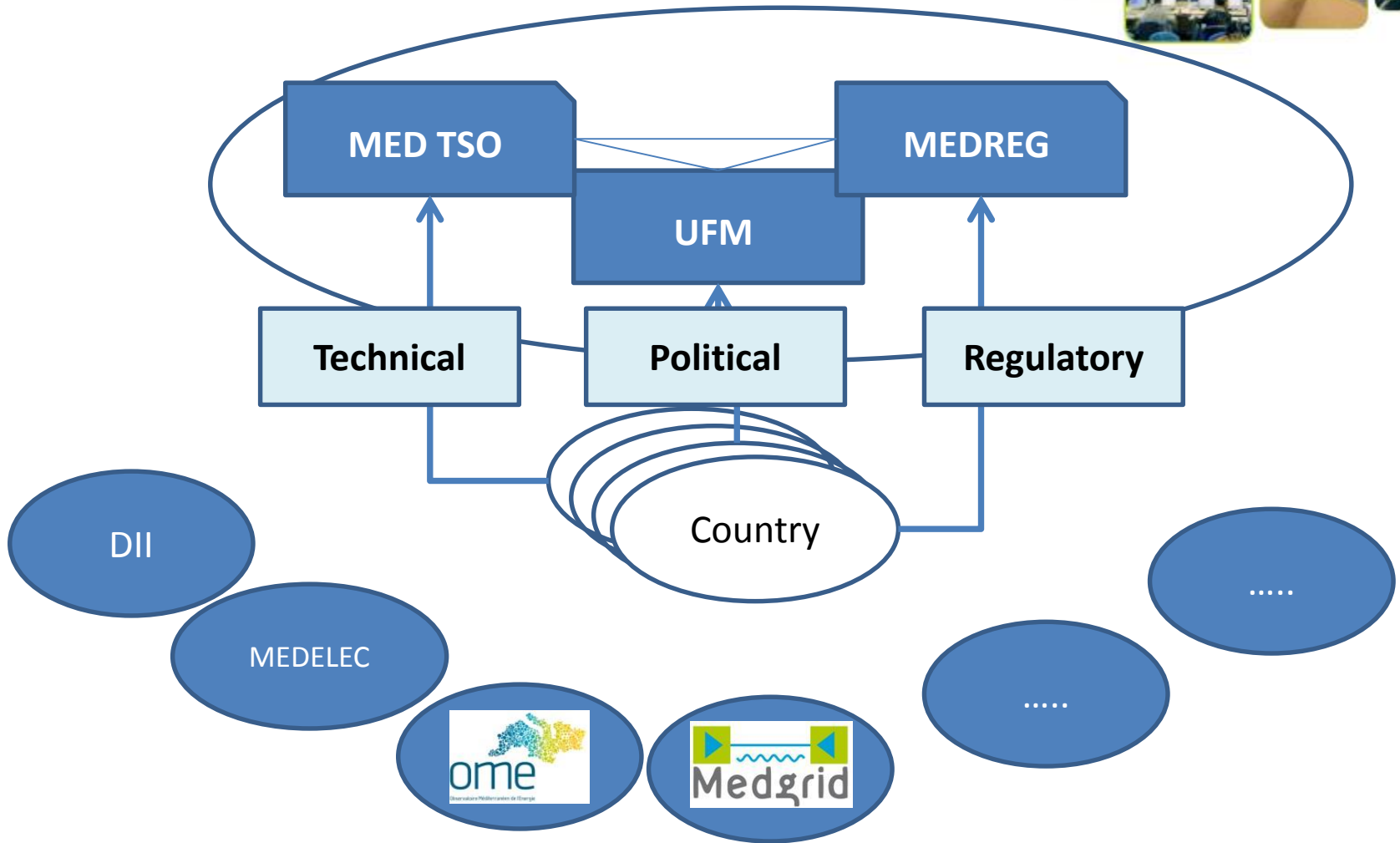
5.2 Regulation for new north-south interconnectors.

5.3 Compensation of national grids around the Mediterranean for cross-border transits

Chapter 6. Conclusions and recommendations for a progressively integrated Mediterranean Grid

6.1 The Twelve Recommendations

6.2 From recommendations to implementation





Thanks for your attention

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