MEDGRID, a co-development project for the exchanges of electricity in the Mediterranean basin (Part 1)

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Contents

❖ MEDGRID : an industrial initiative
❖ Missions and vision
❖ Objectives
An industrial initiative...

- A consortium of 21 companies (transmission system operators, generators, manufacturers, financing institutions, investors) from both rims of the Mediterranean Sea, registered in January 2011.

- Created to support the implementation of the Mediterranean Solar Plan (20 GW of solar generation in MENA countries, 5 GW exports to Europe in 2020).

- Complementary to the Desertec Industrial Initiative.
Associates in 2012
(21 + 1 from 9 countries)
MEDGRID missions

- To promote and facilitate the development of power interconnections between Europe and the countries of the South and East of the Mediterranean.

- To support the actors of the market in the pre-competitive phases and involve stakeholders in Medgrid discussions.

- To become a reference point bringing together key industry players who will initiate the future North-South interconnections.
MEDGRID vision of the Mediterranean grid

✦ The export of renewable energy from the South and East of the Mediterranean Countries (SEMC) to Europe will be one of the drivers of the development of the trans Mediterranean interconnections.

✦ The fast growth of the power demand in the SEMC also justifies stronger interconnections with the European electricity system, which offers opportunities for exchanges from North to South and East.

✦ The extension of the European transmission grid towards the SEMC will improve the security of supply of the interconnected countries.
Objectives (1/3)

- Assessing the opportunities for power exchanges based on renewable energy export needs, and for economical exchanges resulting from the generation and demand profiles on both rims of the Mediterranean in 2020 - 2025.

- Assessing the technical, economical and environnemental feasibility of the infrastructures necessary to support the power exchanges, using adequate and properly located transmission capacities.
Objectives (2/3)

- Proposing a global optimized programme of infrastructure projects for the 2020-2025 horizon, in terms of size, location and timing, for interconnectors and national grids.

- Assessing the performances and benefits of the transmission technologies to be used for interconnectors in the fields of submarine power cables and Extra High Voltage Directe Current.
Objectives (3/3)

- Assessing the necessary minimum changes in the regulatory frameworks of the countries involved, including the European regulations, to allow power exchanges.

- Proposing business models and financing architectures adapted to the required infrastructures and regulations.
Thank you for your attention.

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