



Medio Oriente La regione dei destini incrociati

Panel

*“Risorse energetiche e sviluppo tecnologico:
quale impulso per rafforzare le dinamiche cooperative della Regione»*

Prof. ssa Valeria Termini

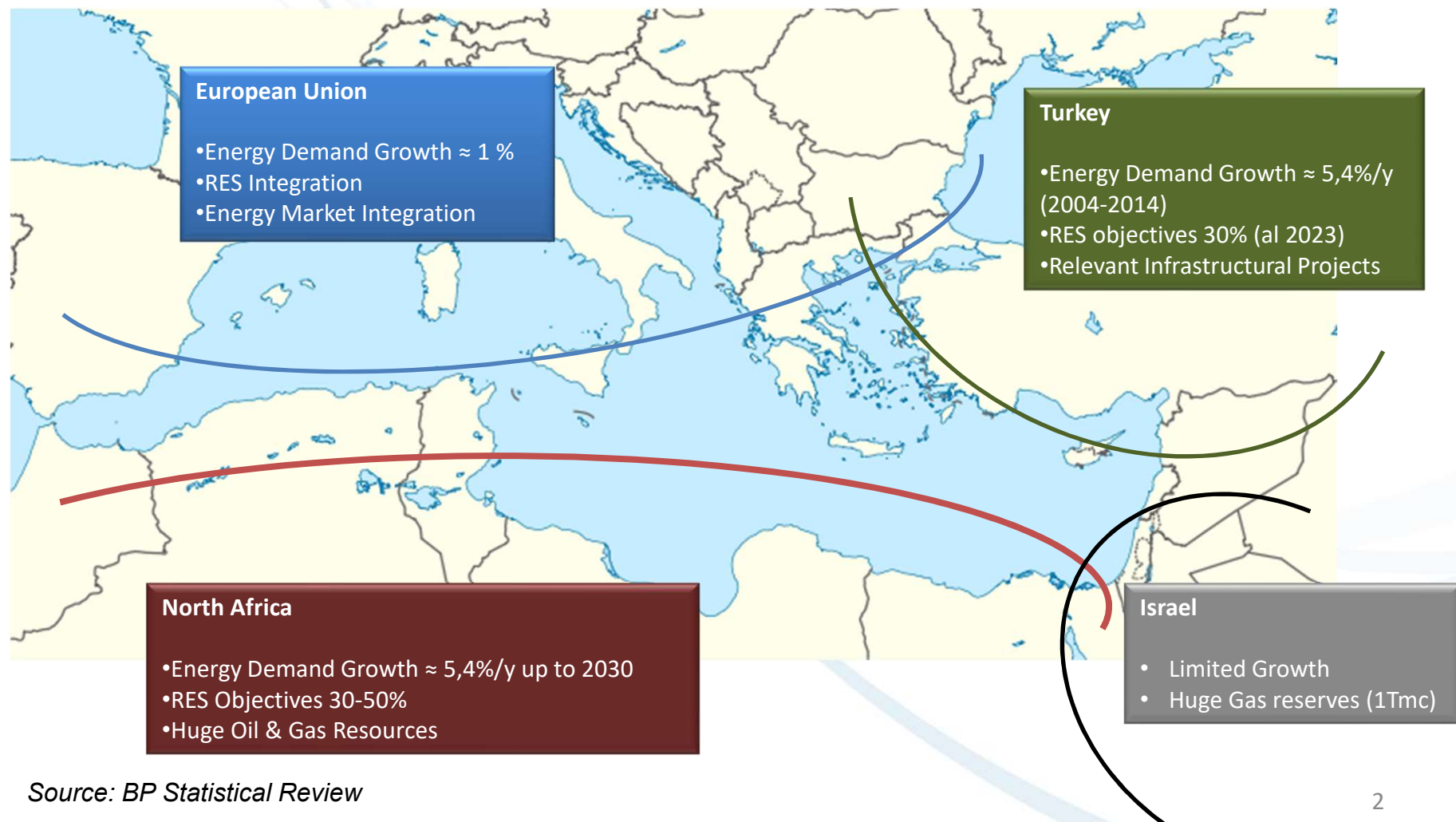
Professore di Economia e Governance dei Mercati dell'Energia Università di Roma Tre
Commissario Autorità per l'Energia Elettrica, il Gas e il Sistema Idrico (AEEGSI)
Vicepresidente *Mediterranean Energy Regulators* (MEDREG)



Roma – Senato Sala Zuccari, 26 Ottobre 2017



The Context



Game Changers

Renewables Energy Sources

- Ambitious plans to satisfy a growing demand and to mitigate global warming

Digital Revolution

- Increasing use of ICT in the energy industry (smart city, smart meters, etc.)

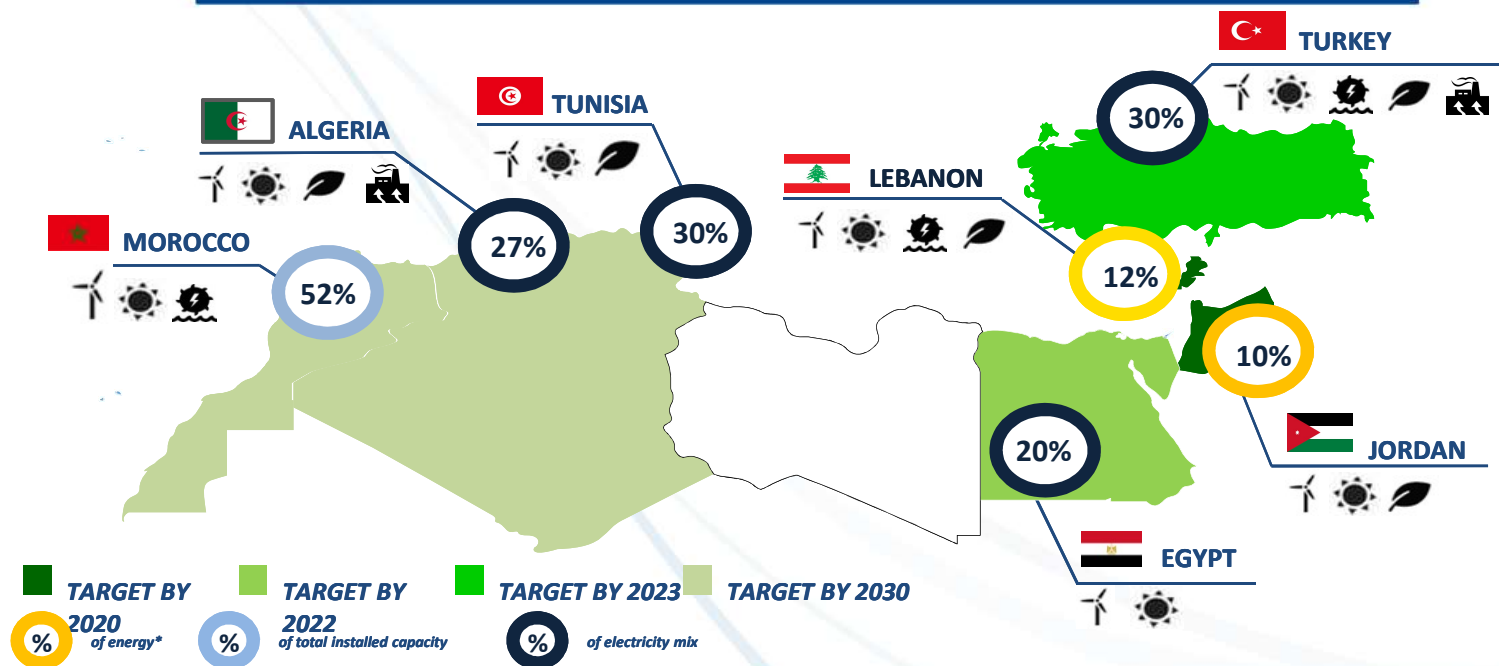
Gas Discoveries

- Huge gas reserves
- Geo-political challenges

LNG new approach

- From Large to small scale Infrastructures

Renewable Energy Sources



RENEWABLE ENERGY INVESTMENTS** Cumulative public and private investment in RES power plants to reach country targets



Source: RES4MED

*Target as % of: total electricity and thermal energy (Lebanon); primary energy (Jordan), RES4MED elaboration. Investment figure for Tunisia (STEG data)

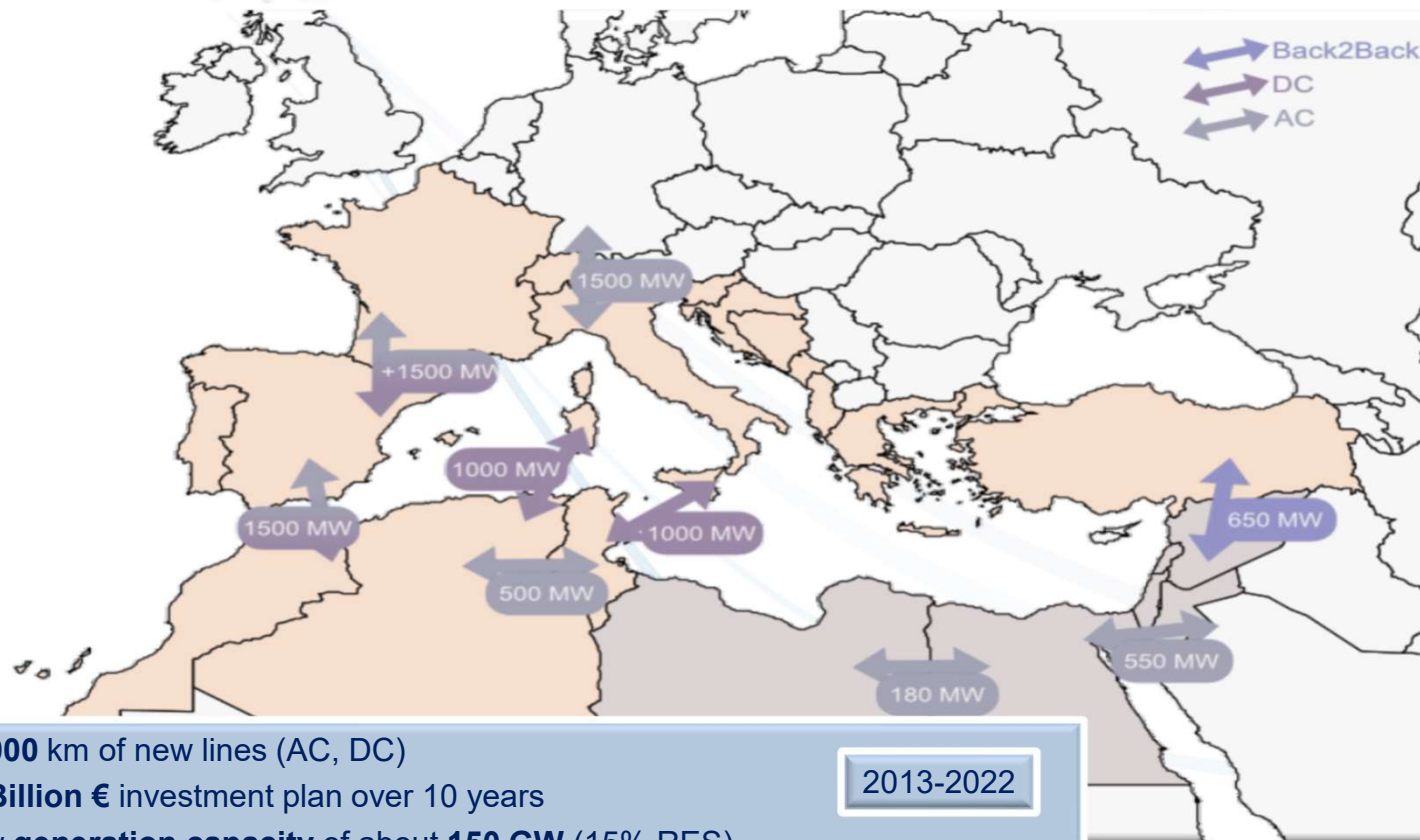


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The Context: Electricity



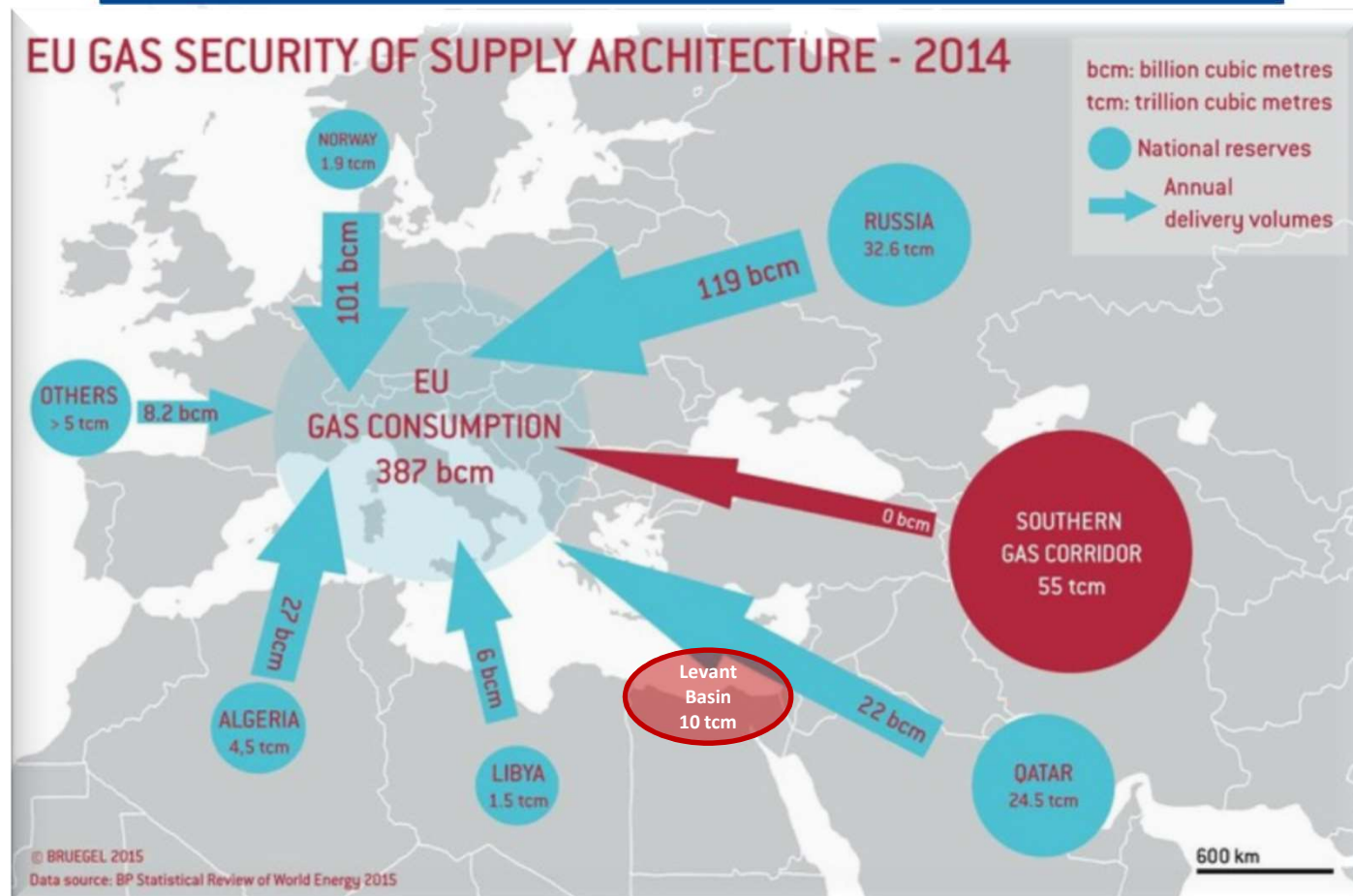
- **33,000** km of new lines (AC, DC)
- **30 Billion €** investment plan over 10 years
- New **generation capacity** of about **150 GW** (15% RES)
- Planned investment of **220-250** Billions € in 10 years
- Priority: developing interconnections South-North & South-South, jointly with reinforcement of internal network

2013-2022

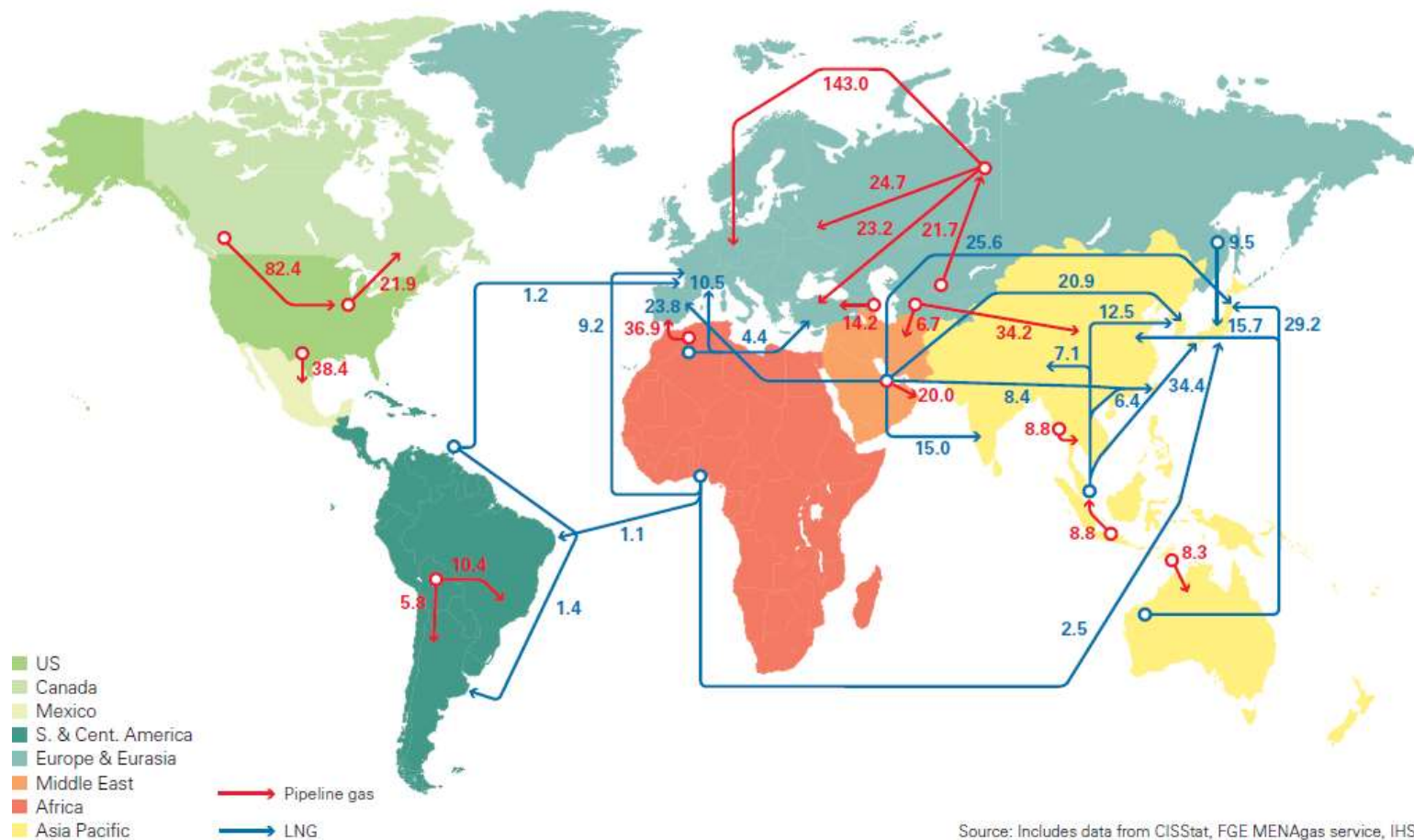
Source: MEDTSO

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The Context: Gas



Scambi di gas nel mondo – gasdotti (in rosso) e per nave (in blu)



Fonte: BP Statistics 2017

Source: Includes data from CISStat, FGE MENAgas service, IHS.



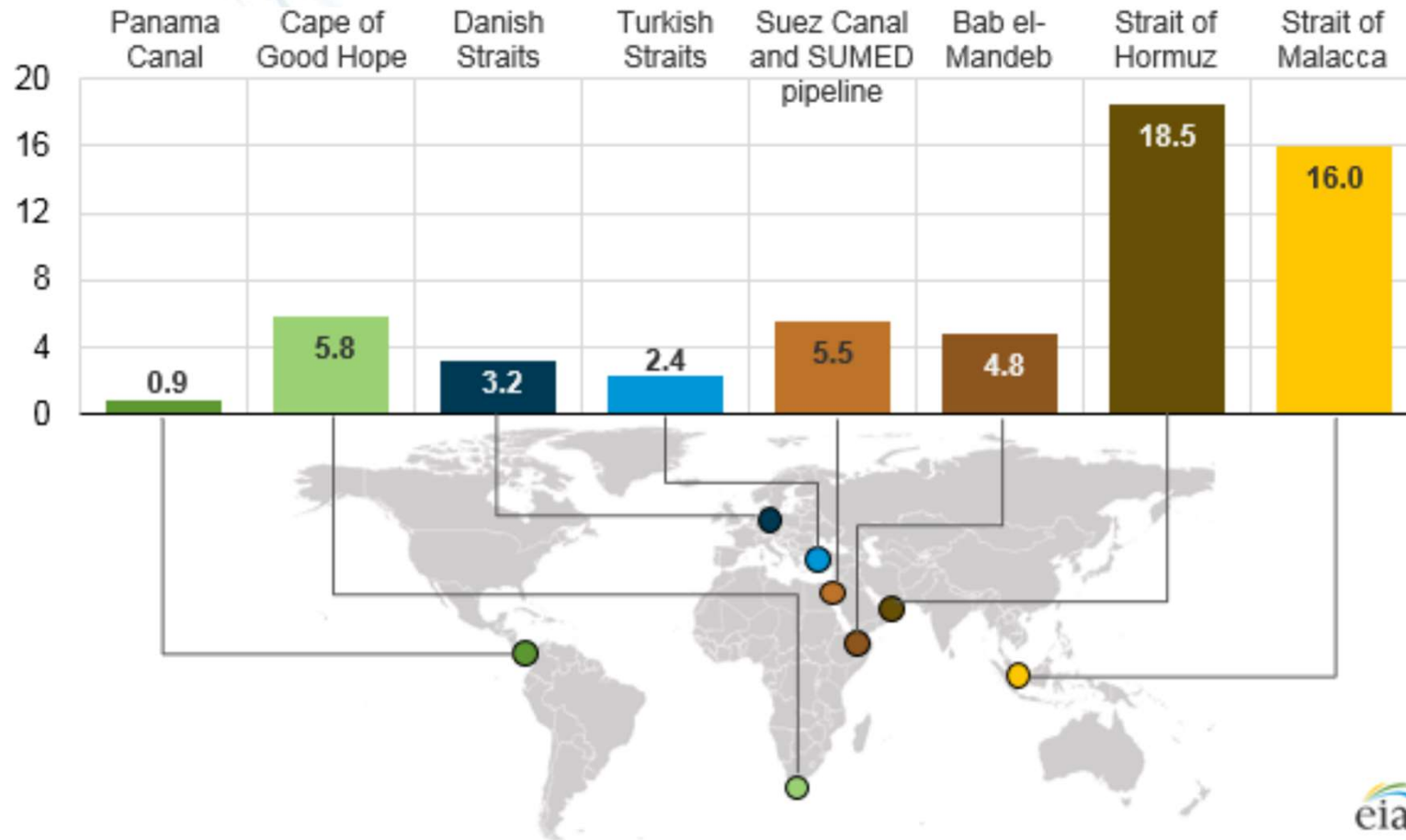
Arabian Peninsula maritime chokepoints



Source: U.S. Energy Information Administration

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Petroleum transit volumes through select maritime routes (2016) – milion barrels per day



Source: US Energy Information Administration, 2017 World Oil Transit Chokepoints

MEDREG

Association of Mediterranean Energy Regulators

Mission

to implement the conditions for the establishment of a future **Mediterranean energy community**

Objectives

- **stable and harmonized regulatory framework**
- **markets and systems integration**
- **infrastructure investments**
- **consumer protection**
- **enhanced energy cooperation**



Tools

- **Capacity building**
- **Institutional building**
- **Intense dialogue with external partners (EU, LAS, PAM. UfM..)**

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UfM Energy Platforms

In November 2014, during the Italian Presidency of the Council of the EU, a Conference in Rome launched:

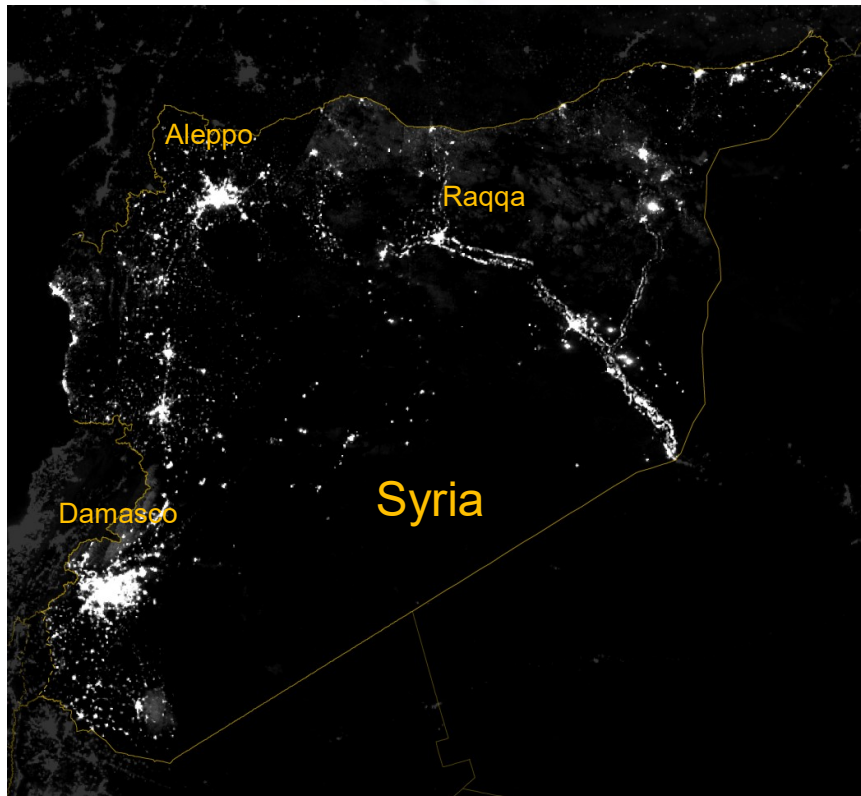
“three thematic platforms to provide a permanent high level forum for discussing energy policy objectives and measures, with a view to identify specific and concrete actions” aiming at promoting:

- **Gas:** a Euro-Mediterranean gas market to deliver secure, affordable and sustainable natural gas supplies
- **Electricity:** a gradual integration of markets in the UfM region by gradually removing financial, technical, physical and regulatory barriers
- **Renewable Energy and Energy Efficiency:** the deployment of renewable sources and energy efficiency technologies and projects.

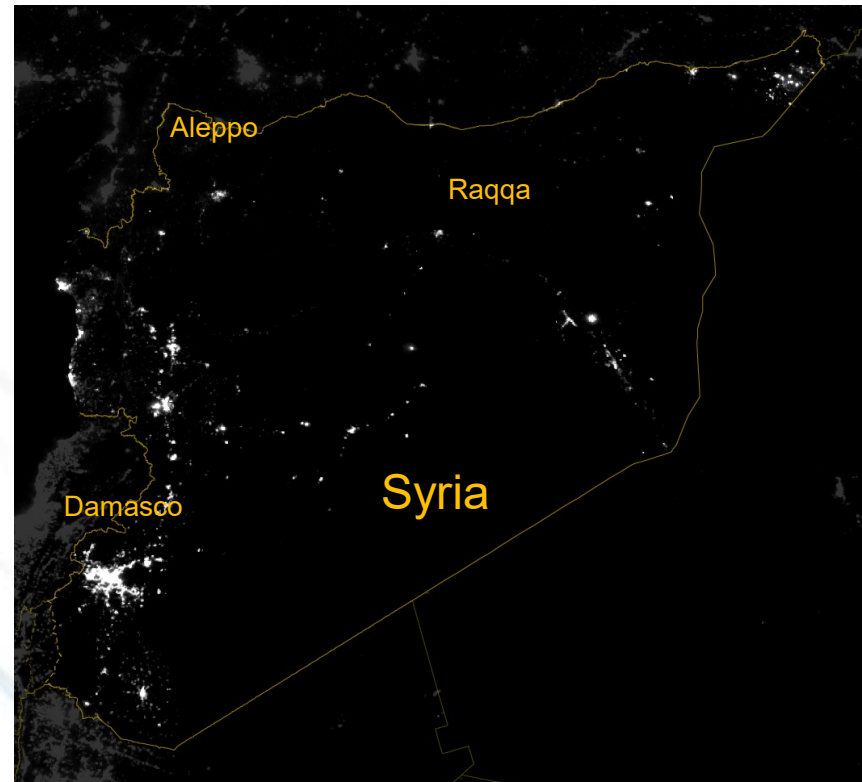


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Light & Peace



March 2012



December 2014

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Tel: +39 02 65565 557/524
Fax: +39 02 65565 342
Piazza Cavour 5, Milan 20121 (Italy)
www.medreg-regulators.org
info@medreg-regulators.org

Thank you for your attention!

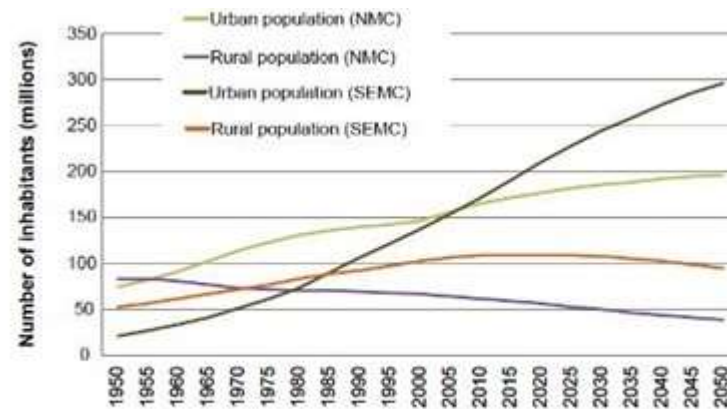
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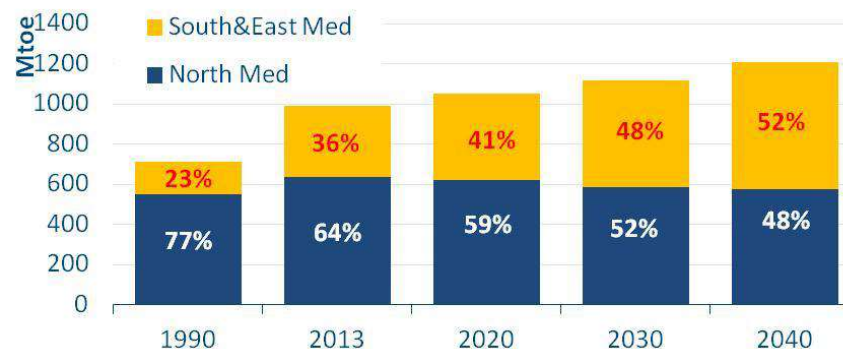
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Mediterranean Energy Scenario

- Population in the South will grow ~ **85 Mln** by 2040 (+45% vs 2015)
- A **stagnating energy demand** in the **North Med**, an **energy-intensive development** in the **South&East** (2.2% c.a.a.g.r. in 2013-2040, more than 70% energy demand in 2040 vs. 2013)
- South&East Med electricity demand to **double in 2013-2040**; an extra-capacity of 185 GW needed, most of which from RES
- CO2 emissions are expected to **increase by 400 Mt** in the South&East (+50%) even in the Proactive Scenario => need for more stringent NDCs
- Needs for **more than 400 bn USD** investments



Source: United Nations, Department of Economic and Social Affairs, Population Division, 2011.



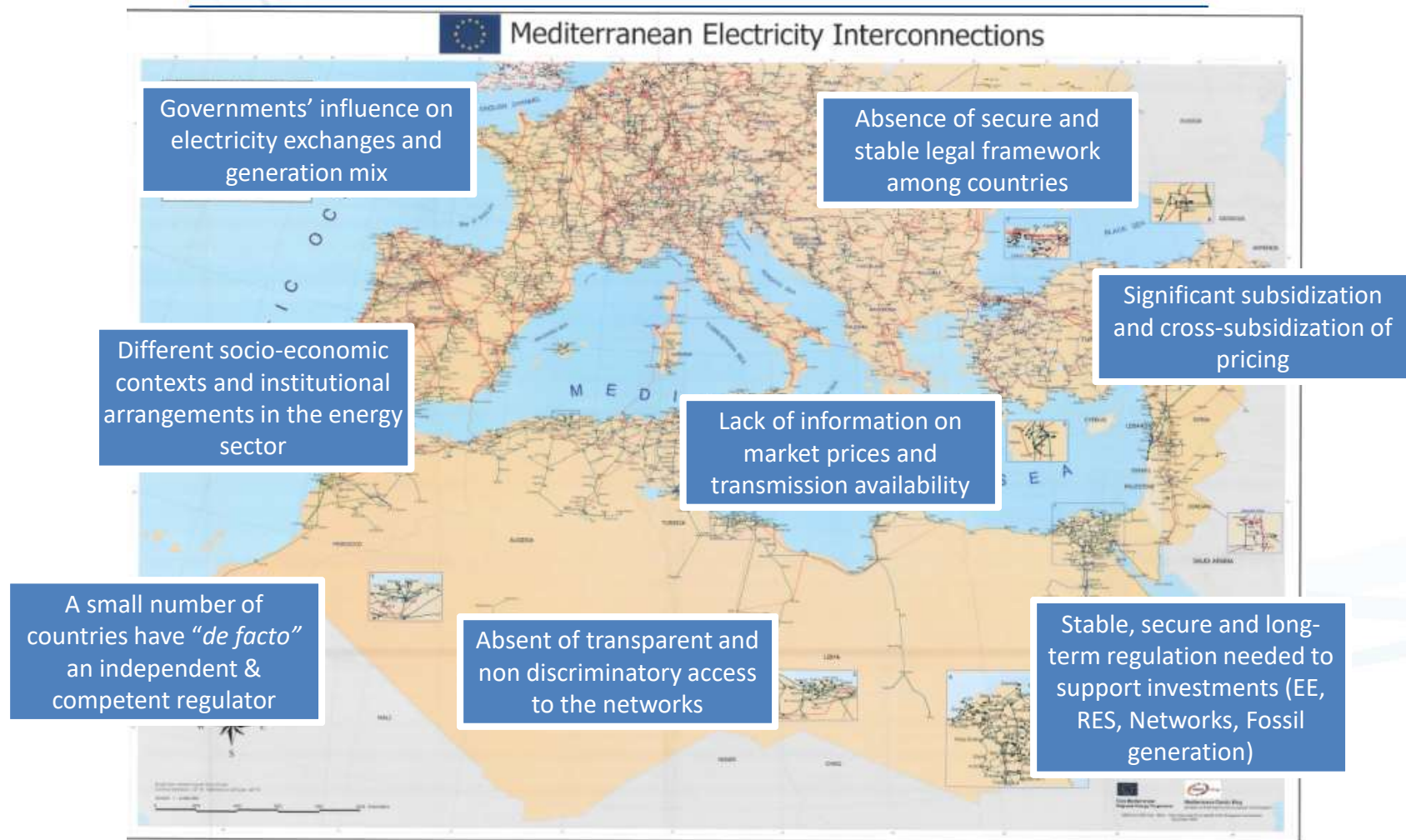
Renewable Energy Sources (1/2)

- Sustainable support for an increasing energy demand
- Decarbonisation goals
- Fossil Resources for export to support state budgets
- Distributed power generation
 - enlarged access to energy
 - isolated grid
 - increase life quality and local economy
- Job creation

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Barriers and challenges for investments



Source: MEDREG

Highlights

- Regional cooperation is crucial
- Multilateral approach, geographic and historical role are keys for Italy to confirm its leading position in the MENA Region;
- Italy holds high-level technical competences, fair diplomacy;
- National Energy Industry, Universities and Research Institutions should jointly cooperate;
- Concrete opportunities to increase Italy's role as energy hub (electricity, gas and oil);
- AEEGSI inspired energy associations, such as MEDREG and MEDTSO, and is an active participant of international projects

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MEDREG

How regulation can incentivize investments

