



MEDENER

***A unique Association for facilitating networking,
exchange of experiences and joint regional EE and
RE projects in the Mediterranean***

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**International Workshop “Cooperation between EU and Mediterranean Partner Countries
in the Energy Sector: Challenges and Opportunities”
Athens, 22 February 2016**





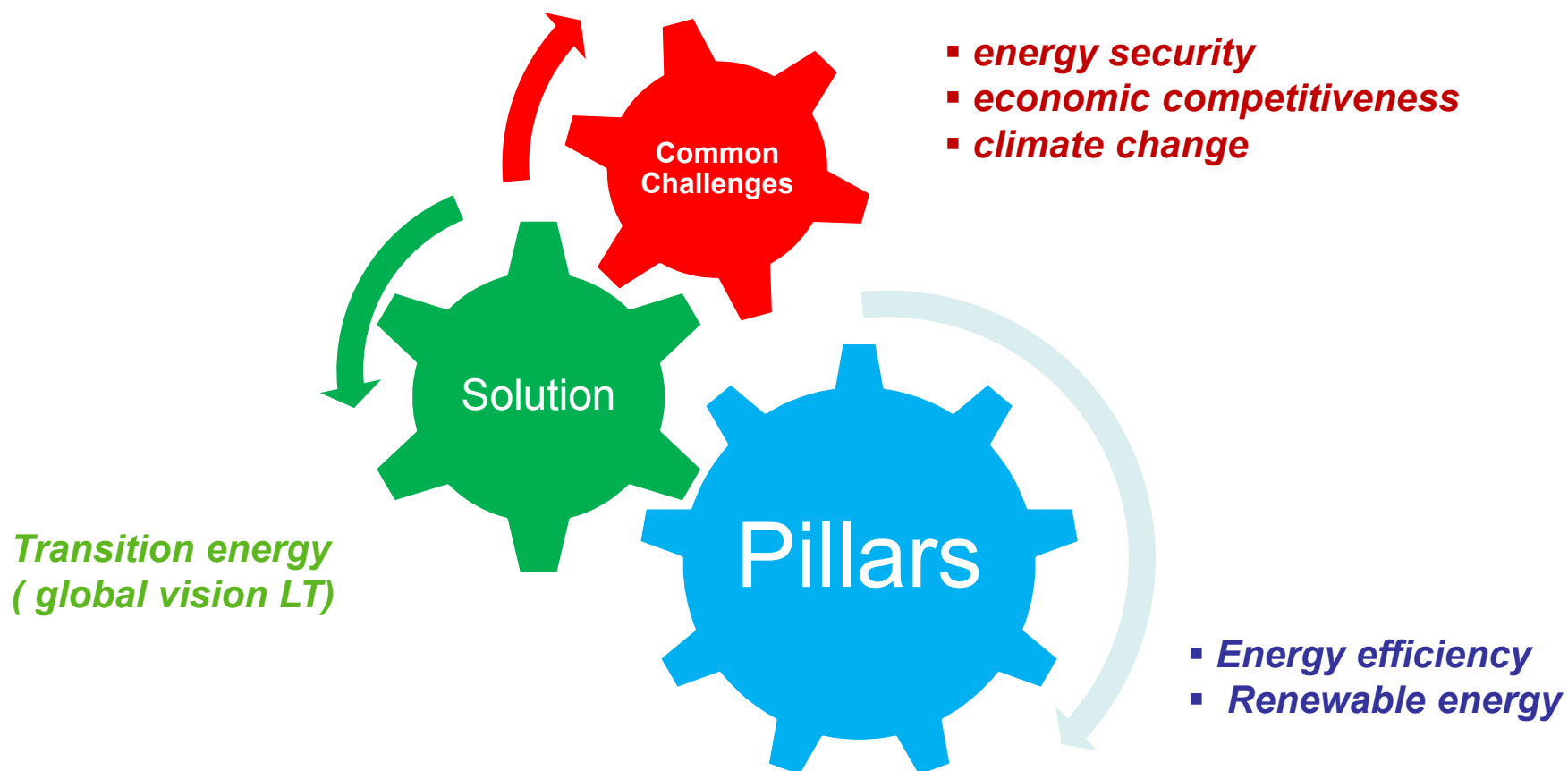
Summary



- ❖ *Energy transition for the Mediterranean*
- ❖ *The role of **MEDENER***
- ❖ *Synergies & joint projects*



Why an energy transition for the Mediterranean?





Geographic coverage



NORTH

Cyprus

France

Greece

Italy

Malta

Portugal

Slovenia

Spain

Other

Albania

Bosnia

Croatia

Macedonia

Montenegro

Serbia

Approach

- **Working group: OME / MEDENER**
- **Data sources: OME members/ MEDENER, national and international**
- **MEM model**
- **Base year: 2013**
- **Projection: 2020, 2030 and 2040**
- **Scenarios: 1. socio-economic scenario
2. energy scenarios**

SOUTH EAST

Israel

Jordan

Lebanon

Palestine

Syria

Turkey

SOUTH WEST

Algeria

Egypt

Libya

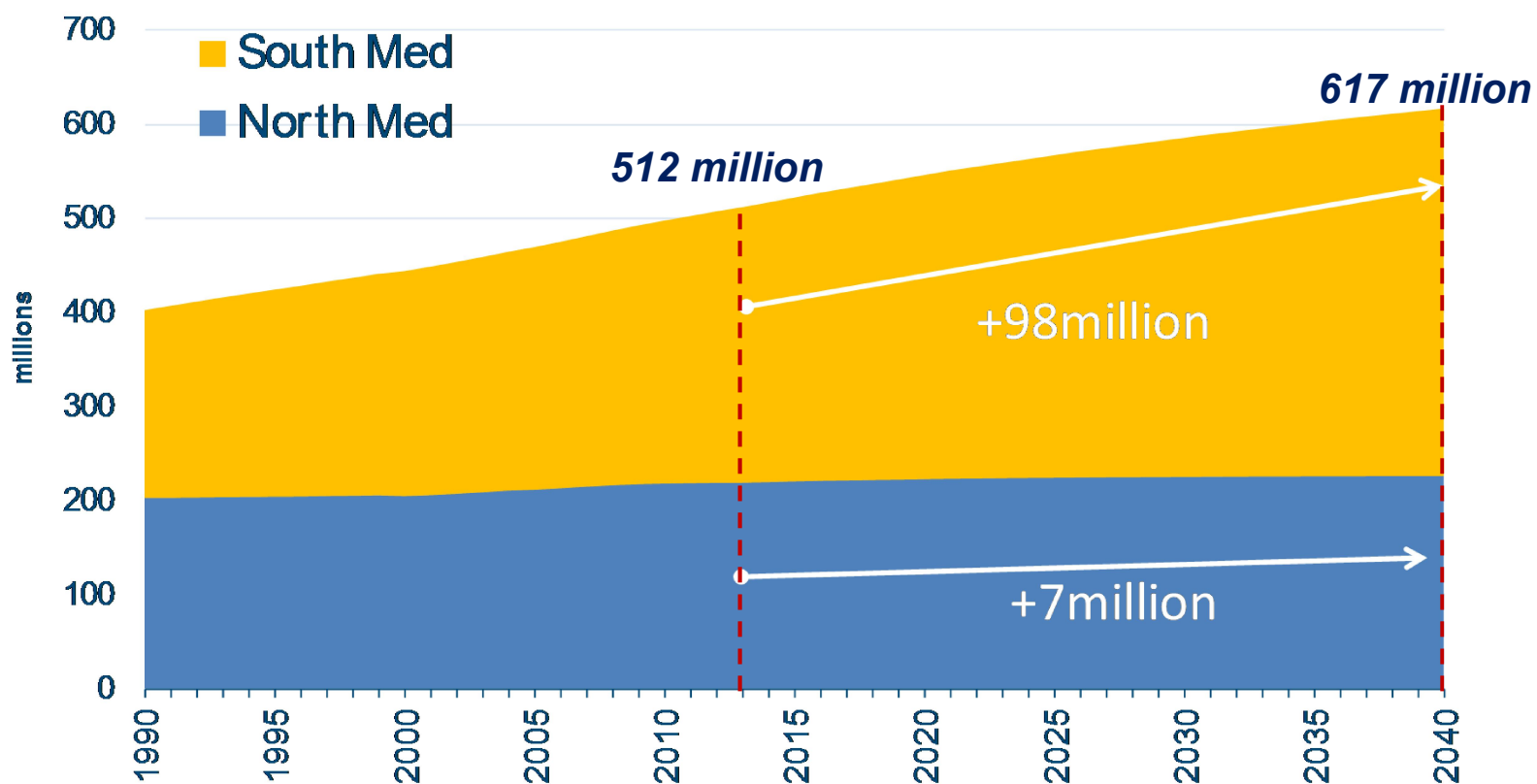
Morocco

Tunisia

**25 countries covered
19 individual country models**



Population prospects



Nearly all additional population to occur in the South

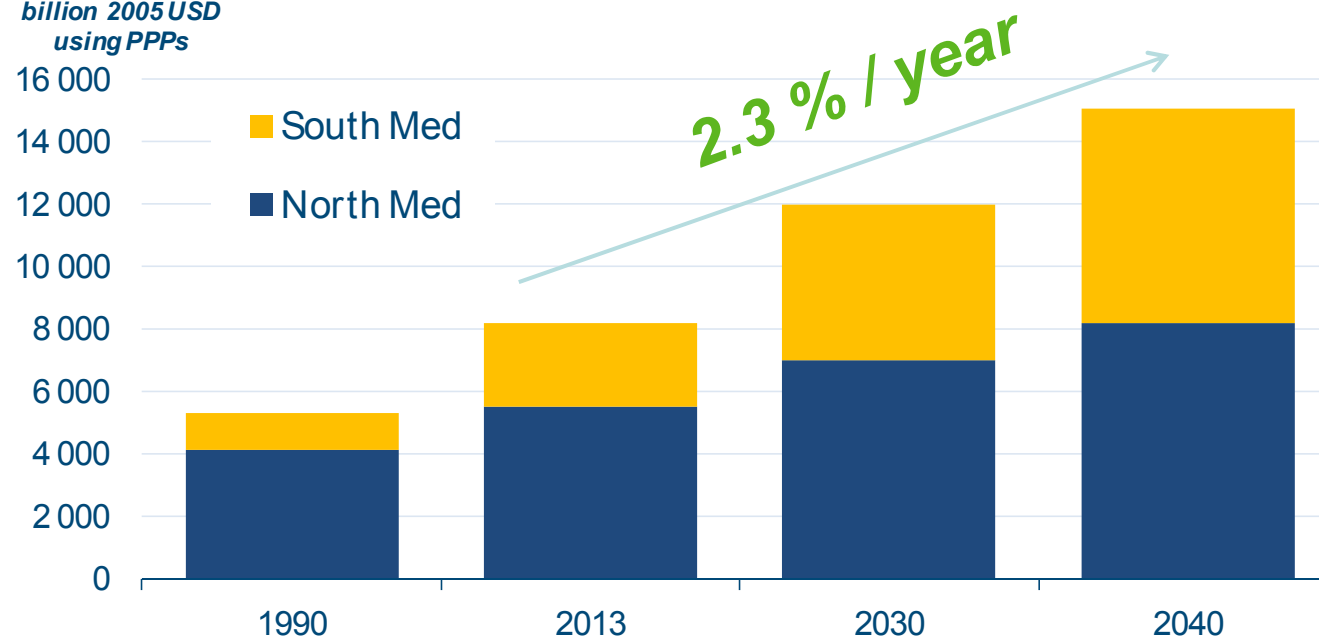


Economic growth



	1990-2013	2013-2040
North Med	1.3%	1.5%
South Med	3.7%	3.5%
Total Med	1.9%	2.3%

billion 2005 USD
using PPPs



Despite the current crisis, robust economic growth expected in the South



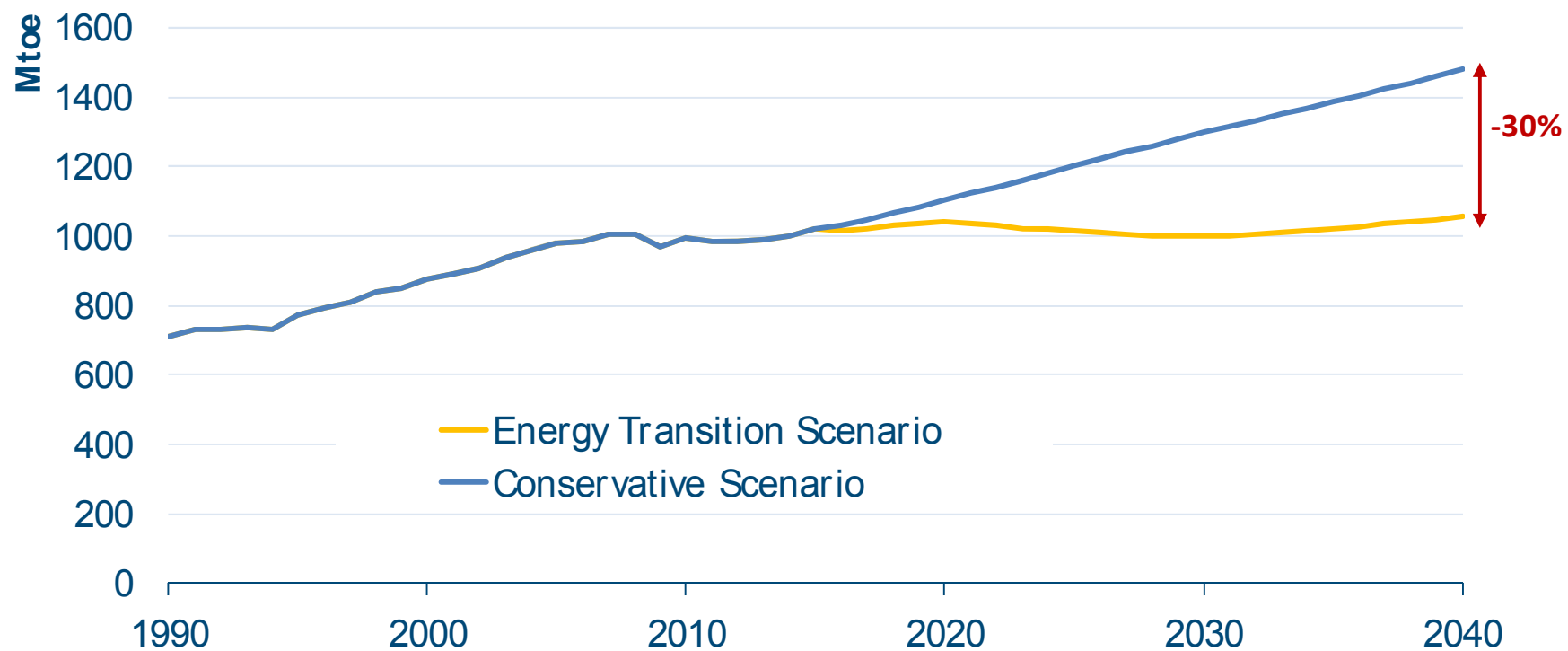
Energy scenarios



- ***BAU Scenario : Continuation of current policy***
- ***ET scenario: Development of energy efficiency and renewable energy (OME / MEDENER scenario)***



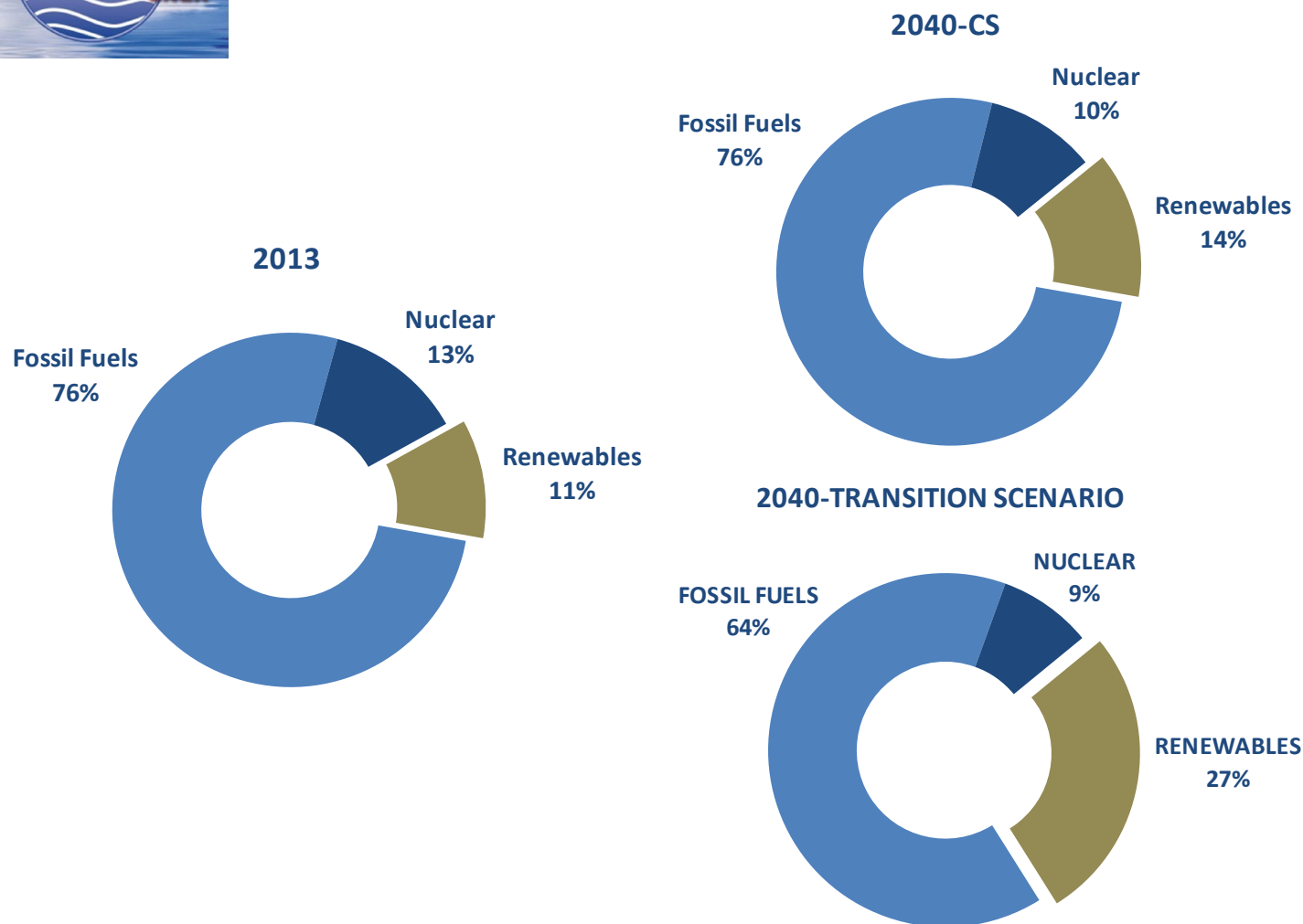
Primary energy demand



30% energy saving by 2040 (23% in 2030)
7% increase from current levels compared to more than 50% increase in the CS



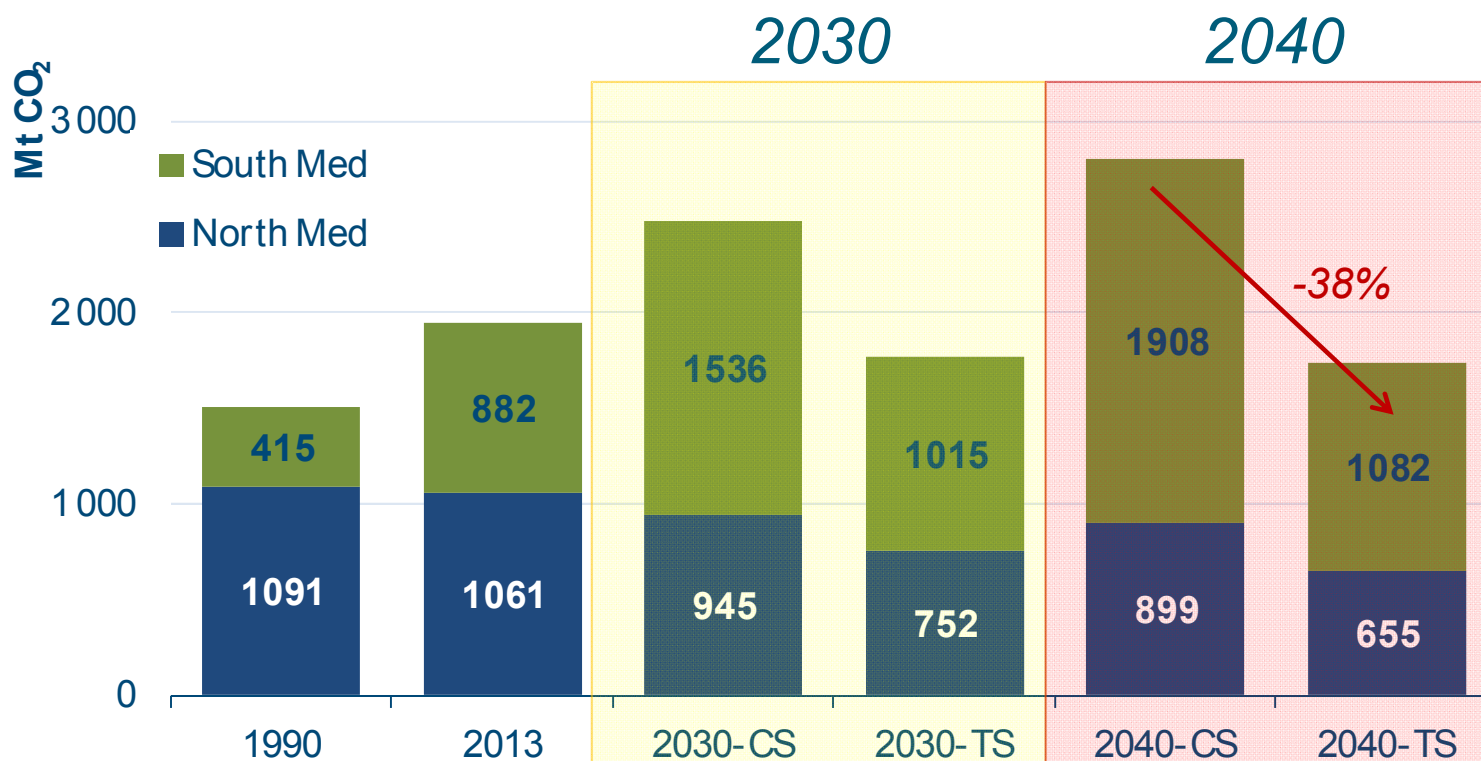
MED energy demand shares



The mix remains fossil-fuel based



CO₂ emissions by region



As a result, CO₂ emissions to explode in the South by 2040 while decreasing in the North in the CS. In TE, more moderate increase in the South





Prospects



- **2040 Targets :**
 - **Demand reduction : 30%**
 - **Share of renewable energy: 27%**
 - **CO₂ emissions reduction: 38%**
- **TE scenario: an opportunity for a new development model**
- **Energy transition support: an innovative cooperation**



MEDENER



A Mediterranean platform to support energy transition

- The unique Association in the field of EE & RE grouping Southern and Northern Mediterranean Agencies
- Established in 1997
- 12 Member Agencies, 5 from North, 7 from South
 - *And soon, enlargement to new Members (TR, EG, CY)*
- ~ 1000 experts working on EE and RE
- New opportunities and strengths
 - coming from the new Statute allowing *Permanent Secretariat, General Secretary, Possibility to associate new stakeholders as “Associate members”*
- National Energy Agencies:
 - *A deep knowledge on EE and RE context in their countries*
 - *Links with Ministries*
 - *Interface between public administration, private sector, Local authorities*
 - *Links with IFI's*
 - *Implement EE and RE Action Plans and Programmes*
- Good understanding and involvement in EU legislation elaboration
- Large experience and involvement in EU projects, individually or grouped





Some key achievements



Observatory of energy efficiency policies for the Mediterranean region

- *Setting and training of national teams in 4 countries (Algeria, Morocco, Lebanon, Tunisia) to monitor EE indicators (national databases, and a regional database), based on the EU-ODYSSE methodology*

➤ Vocational training programmes for the development of skills and knowledge transfer

- *Building and industry sectors especially*

➤ Organising a regional dialogue

- *MEDENER annual conference to assess the progress of energy transition in the Mediterranean*
- *Next one should be organised in Algeria in 2016*



➤ Development of a shared long term vision of the energy future in the Mediterranean region

- *MEDENER-OME scenario for the energy transition in the Mediterranean by 2040*

➤ Collection and publication of MEDENER good practices

- *in the field of EE and RE, to identify replicable projects and measures*



Participation of MEDENER in the Regional Dialogue to promote EE and RE



➤ Contribution to the Master Plan of Mediterranean Solar Plan of the Union for the Mediterranean (UfM)

- participation in 4 workshops (Berlin, Barcelona, Amman, Brussels)
- MEDENER position paper to enhance EE and small RE



➤ MEDENER, a crucial partner to foster EE and RE recognized during the Ministerial Declaration on December 11th, 2013 in Brussels

- A partial success for Secretariat UfM but a better notoriety of MEDENER
- A real commitment by International Donors to support EE and small RE
- A confirmation to reinforce competencies and activities of national agencies and regional activities through MEDENER





Development of Euro-Mediterranean Partnerships to influence MEDENER's vision



Conference, Workshops, Agreements... (1/2)

➤ Overview of Energy transition challenges and projects

Organization of Annual Energy Transition conferences

- 18/09/2013, Tunis - Issues, Means and Perspectives
 - 25 speakers, 200 attendees
 - <http://www.espaces-ademe.com/documents/Synthese/>
- 24/04/2014, Marseille – Synergy of actors and development projects



➤ Reinforce regional notoriety

- Agreement with Secretariat UfM to support regional dialogue and projects
- Cooperation with regional actors (MEDRED, OME, MED-TSO...)
- Development of synergies with actors from economy and business (IPEMED, SER, IMEDER...)





Development of Euro-Mediterranean Partnerships to influence MEDENER's vision



Conference, Workshops, Agreements... (2/2)

➤ Create opportunities to influence partners' vision

- International Conference to present MEDENER's activities and to develop synergies with regional partners
 - International conference (World Forum Energy Summit, Abu Dhabi 01/13, MEDGRID Parliament conference, Brussels 04/13, 13th FEMIP-BEI-OME , Brussels focus for the first time on Energy Efficiency)

- Regional workshop to debate on challenges of the Mediterranean Region
 - MEDREG-IMME Seminar , Tunis 09/13
 - IPEMED-EMCC Conference, Paris 12/13

- Thematic conferences to develop trainings
 - Covenant of Mayors, Turkey 11/13
 - National Urban Planning seminar with CES-MED, Tunis, Morocco

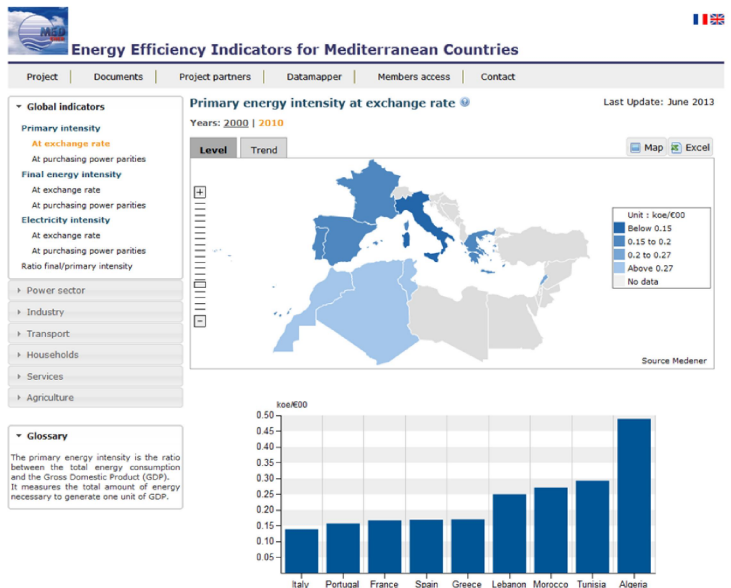




Implementation of an Observatory to monitor Energy policies MED-IEE Project



- **2012-2014 : The first project in the Mediterranean Region**
 - 4 countries : Tunisia, Algeria, Morocco, Lebanon
 - For each country :
 - Capacity Building of a national team of experts
 - Realization of national reports
 - A dedicated national database
 - A Regional database and a Regional Technical report
 - <http://medener-indicateurs.net/uk/datamapper/>





Involvement in several technical workshops through regional projects



- **Institutional and policy workshops**
 - Implementation of NEEAP and monitoring of policy with indicators in support to RECREE workshop
 - Beirut - 03/13, Amman - 04/13, Morocco - 07/13, Algeria - 11/13
 - Work on Mediterranean Vision 2013 (on-going)

- **Energy efficiency and energy audit trainings in the building sector**
 - Around 300 experts already trained (MEDENEC project)
 - Development and discussion on a Regional Project for build up skills in the Mediterranean region (RCREEE, IMEDEER) (on-going)
 - Elaboration of a Regional Strategy for Renovation of Buildings (MARIE Project)

- **Development of urban tools and strategy to support local authorities**
 - Presentation of Climate and Planification tools (CES-MED project)

- **Organization of awareness campaigns to citizens**
 - Support PIME project (Tunisia)
 - Development of Energy Info Space (Morocco)



Development of communication tools



- Kit MEDENER presentation
- Project sheets for each activity
- Website of MEDENER
- Work program





MEDENER vision



➤ **Acting for Energy Transition**

- Conference
- Participation at working group during conference, UfM Meeting

➤ **Developing Energy Transition scenario**

➤ **Reinforcement of capacity building**

- EE thematic
- Solar Energy

➤ **Involvement in regional programs as MEDESIRE**



MEDENER vision

Objectives of the EE platform



1

- **To implement priority actions**

2

- **Preparation of priority energy project proposals**

3

- **To implement technical requirements**

4

- **Barriers to overcome in order to create favourable conditions for profitable investments in the Energy Efficiency sector**

5

- **To play the role of catalyst and to coordinate with the IFI's**



MEDENER EE action plan

(2016-2018)



Five strategic axes with specific Challenges

Axis I: Supporting the development and implementation of EE policies and strategies

- **Main outcomes:** 1) Update and validate the ET simulations up to 2040; (2) Enrich regional EE strategy with regional and national targets elaborated by the ETEWG

Axis II: Supporting the development, implementation and approximation of EE legislative & regulatory frameworks

- **Main outcomes:** (1) Assessment of the national/local context and legislation and definition the level of ambition for energy savings; (2) A database that provides information on EE national policies and measures in the countries of the region, in an interactive and attractive way, to decision makers and actors involved in energy efficiency; (3) A database with information on existing infrastructures and a common regional registry will be created.



MEDENER EE action plan

(2016-2018)



Axis III: Reinforcing public awareness and capacity building of stakeholders (Focus on building sector)

- **Main outcomes:** (1) Identifying and/or developing technical and vocational training packages; (2) Development of new web-based platforms on construction in UfM countries; (3) Annual conference, communication.

Axis IV : Engaging private sector to support market uptake in the EE sector and identifying projects with potential for scaling-up and facilitate their financing

- **Main outcomes:** Review of international existing and innovative financing instruments for the promotion of energy efficiency projects in Euro-Mediterranean Region, suitable for deployment and innovative actions.

Axis V : Ensuring positive impact on the local economy, in terms of local economic growth, innovation and job creation

- **Main outcomes:** Identification of the market: Demand side, supply side through the assessment of Mediterranean technology providers or manufacturers, Identification of key players.



Synergies and joint projects



MARE Project outcomes

- **Network of actors in the EuroMED area**
(MARE Pillars: RE microgrids, RE desalination, EE in buildings)
- Tackling technological challenges & promoting market uptake
- Exchange and transfer of best practices
- **Promoting future collaboration between EU and MPCs - defining joint initiatives**



Search EuroMed Energy Network By

Location

Regions



Union for the Mediterranean x

Countries

Jordan x

Sectors

Microgrids x Buildings x Desalination x

Select All

Deselect All

Technologies



Select technologies





Synergies and joint projects



MEDENER EE WG

STAKEHOLDERS:
*MARE Actors, RES4MED,
OME, MEDREG , ...)*

*Synergies, consultation and coordination
in the implementation of the action plan
Opportunities for joint projects' development*

RCREEE RE WG

- *Steering committee*
- *connection WG*
- *UfM Secretariat*
- *REM and GAS platforms*



Thank you for your attention

www.medener.org

www.cres.gr