

Research proposal (STREP)

Clean and Renewable Energy in the EU Neighbouring countries: cost effective and social acceptability issues

Dr Houda BEN JANNET ALLAL

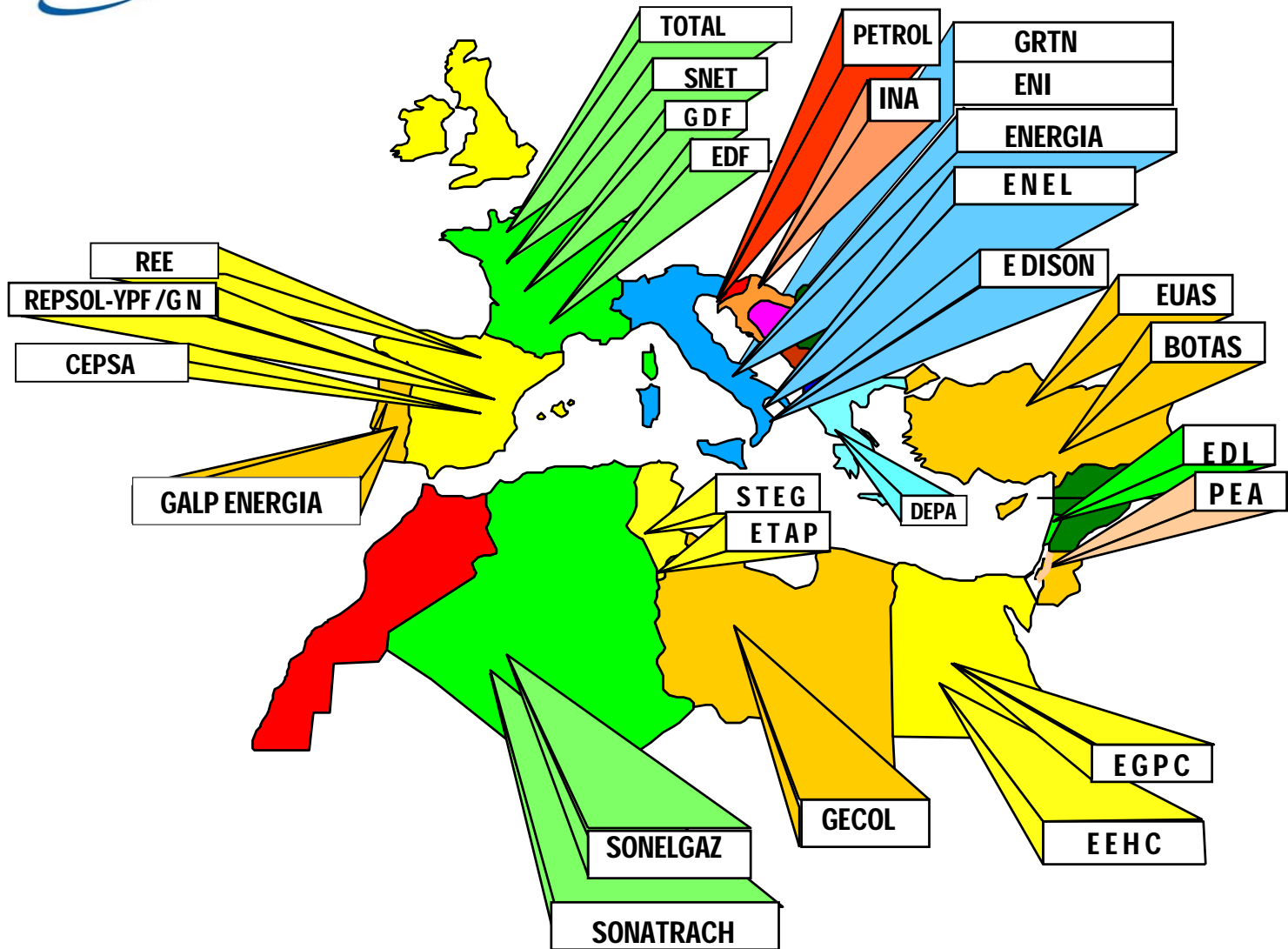
Deputy Director MEDREC

Scientific Officer RESDC - OME

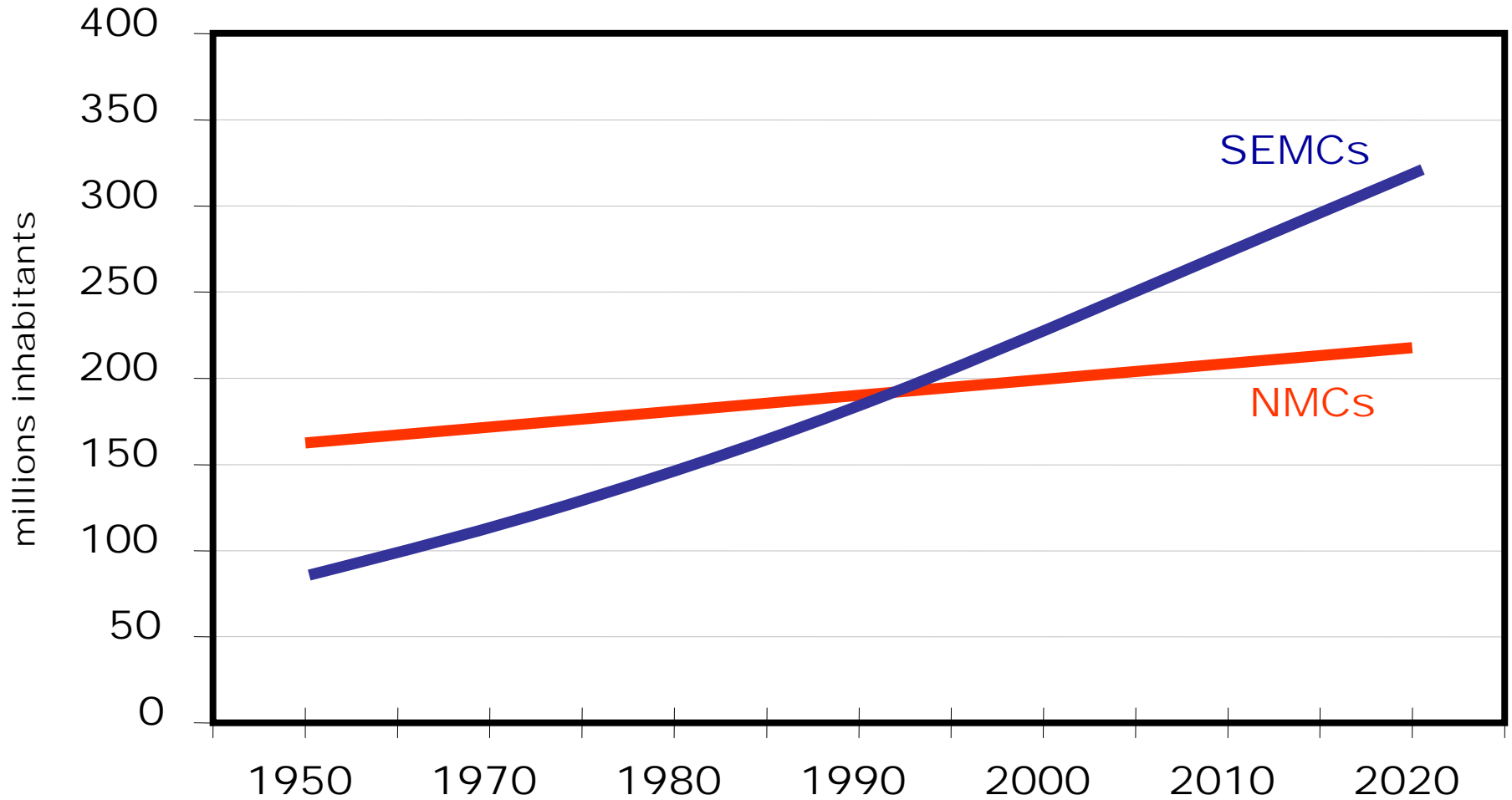
Content



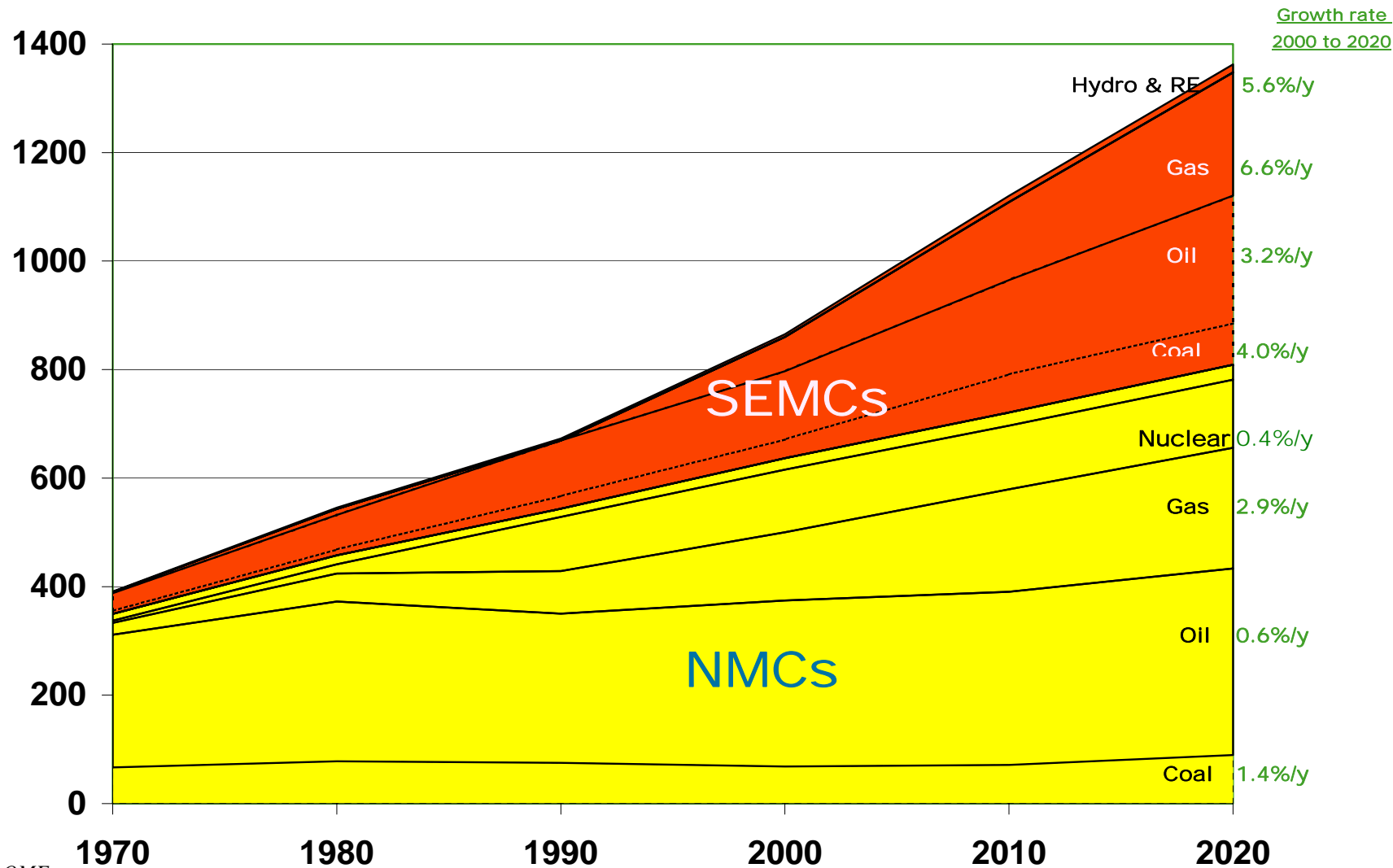
- **Energy and RE Context in the Mediterranean Partner countries**
- **RE prospects and initiatives**
- **MEDREP/ MEDREC**
- **The proposal: objectives and approach**



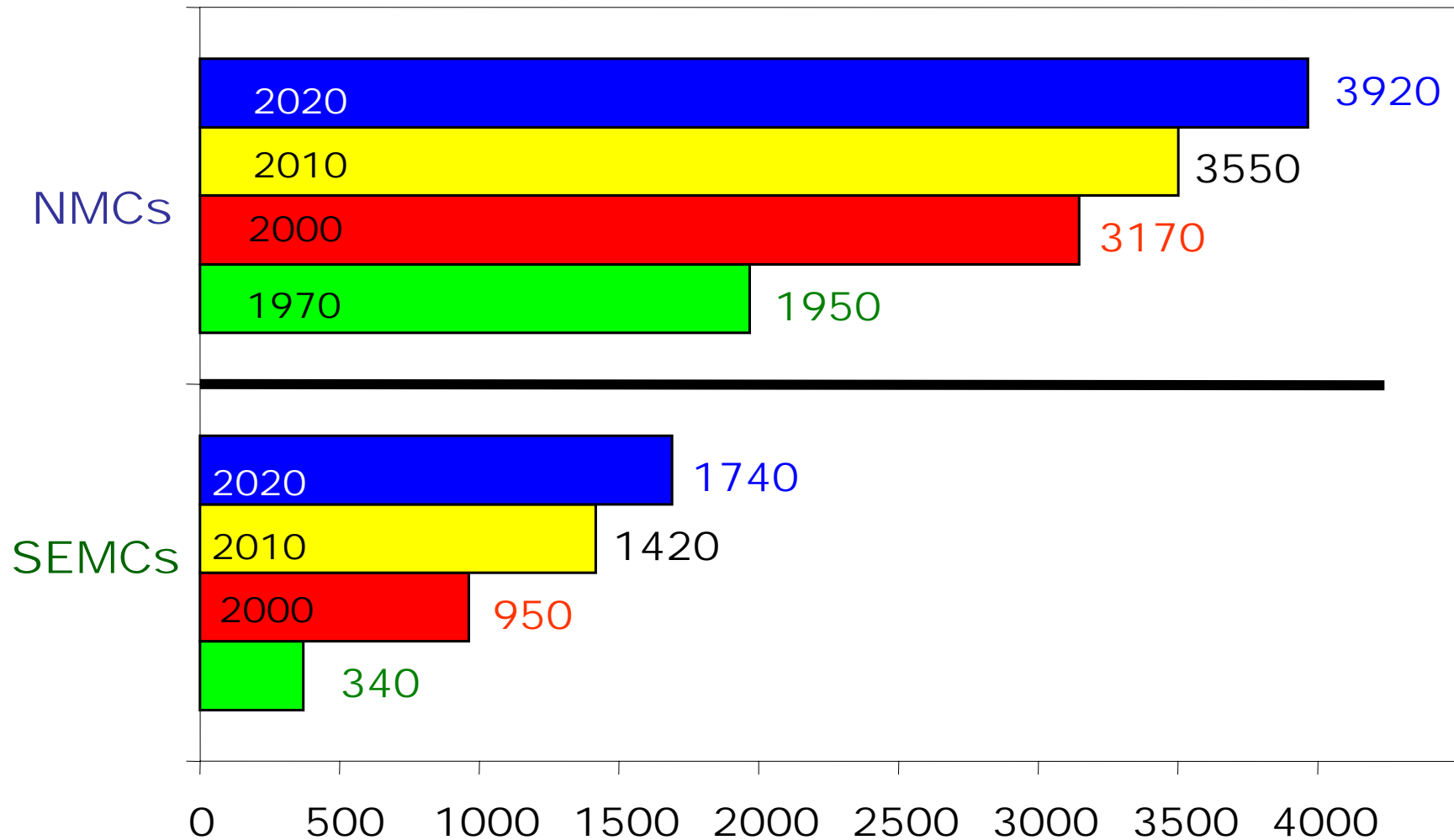
Demography in the Mediterranean Basin



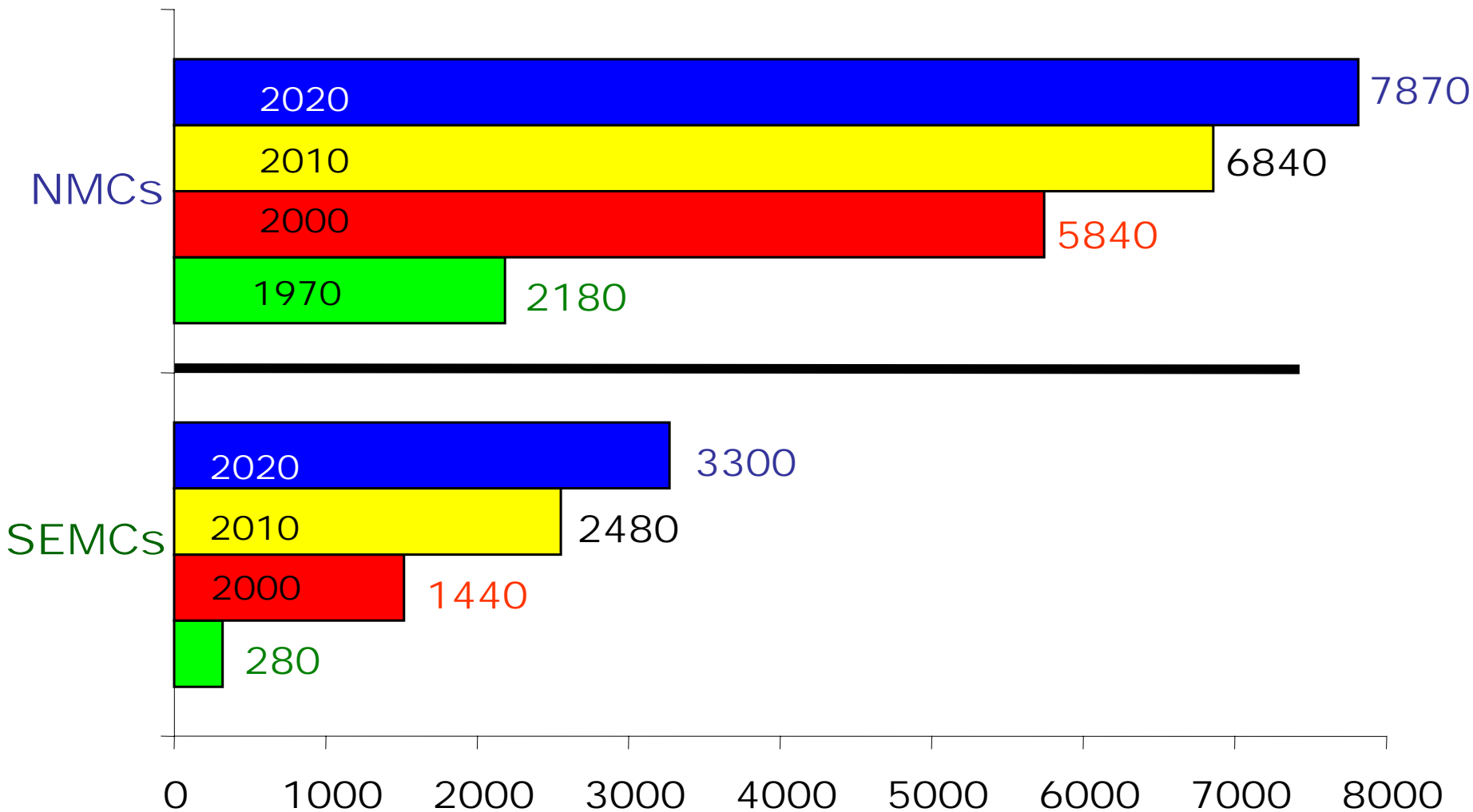
Primary Energy Consumption by source



Energy per Capita in the Mediterranean (koe per capita)



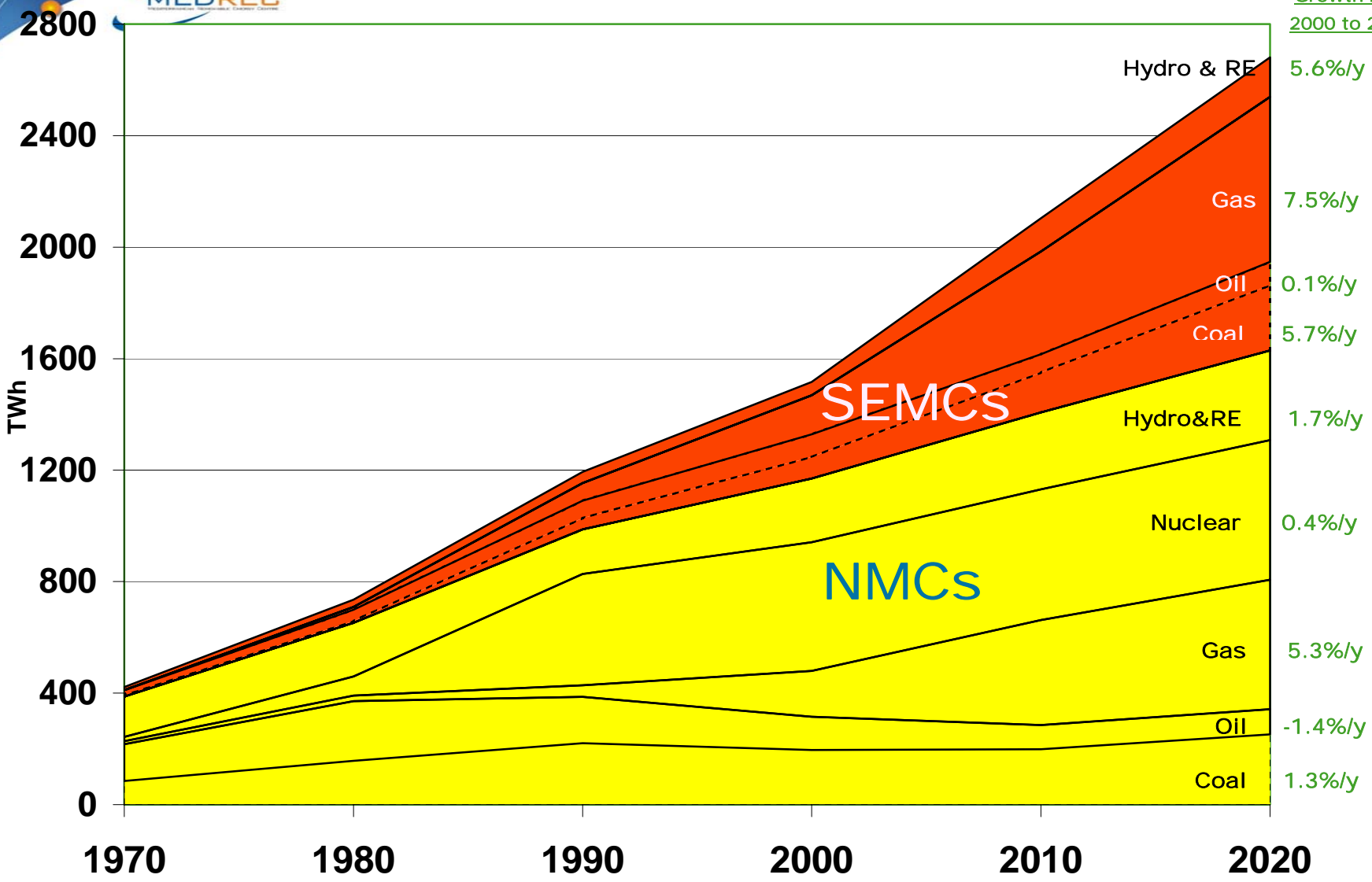
Electricity per Capita in the Mediterranean (kWh per capita)



Power Production by source (TWh)

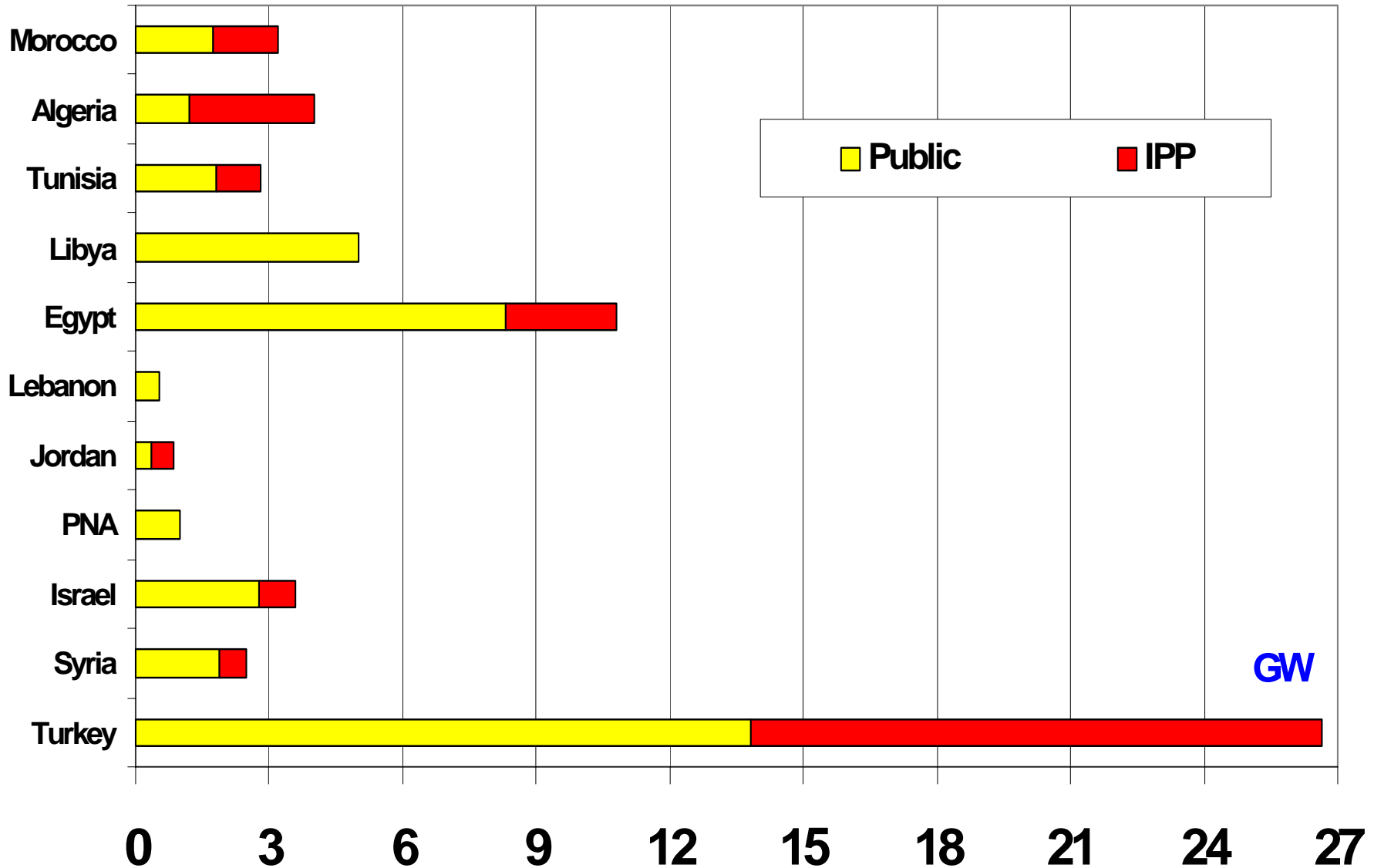


Growth rate
 2000 to 2020



Source: OME

Additional GW in the SEMCs (2000-2010)



- **High potential for RUE**
- **High potential for RE**
- **Achievements today fall below expectations**
- **Many barriers**
- **But also many initiatives and optimistic signals**

Barriers



- **Institutional**
- **Financial**
- **Lack of information and awareness, i.e. social acceptability**
- **Environmental**

Renewable energy Prospects in the MEDREC region: the outcome of the Bonn Conference

- **RES Targets from 3 countries: Egypt, Morocco, and Tunisia (also Jordan) + MEDREP**
- **Tunisia: 300 MW wind farms, using CDM, GEF and private sources**
- **Morocco: 550 MW wind parks, solar-thermal project of 250 MW, 400,000 m² solar panels, 150,000 off-grid households**
- **Egypt: 14% of electricity from renewables**
- **Jordan: 5% of electricity from renewables (wind, CSP, waste)**

MEDREP / MEDREC



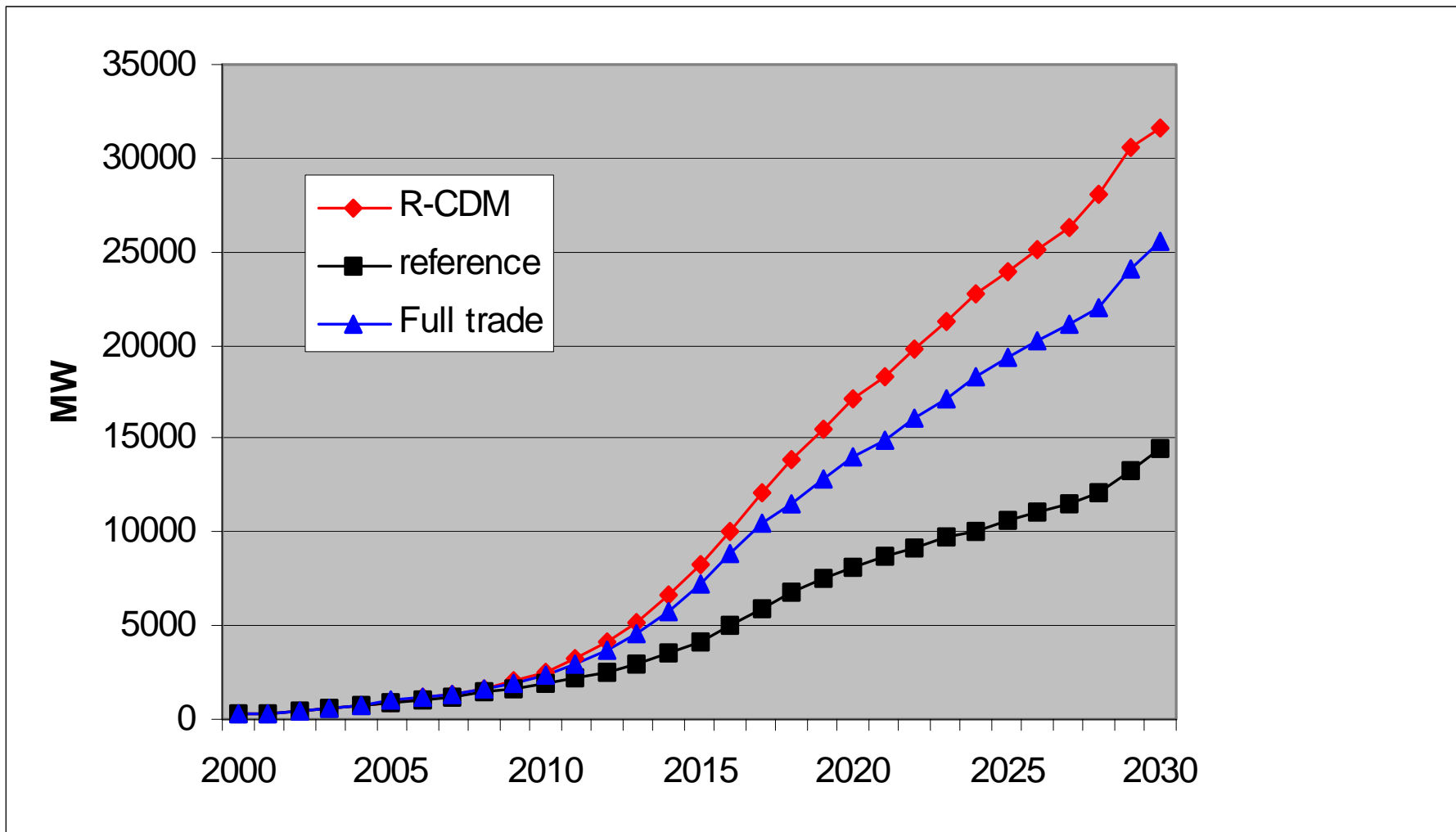
- **It has been established in the framework of the Type II initiative launched by IMET - MEDREP**
- **It is created by a MoU between IMET, TMIE and ANME (January)**
- **Regional Center for training, information, dissemination, networking and development of pilot projects**
- **It plays the role of reference point for the programmes carried out by the MEDREP partners**
- **It is member of the UNEP global Network for Energy for Sustainable Development “GNESD”**

Goal



- **To develop regional competencies in RE**
- **Investigations of the role of TRECs and CDM**
- **To contribute to the development of a Mediterranean sustainable RE market**

Prospects for renewable energy installed capacity in the SEMCs



Research is needed

- **In order to contribute to a sustainable Clean and RE market in the EU neighbouring countries**
- **Social acceptability issues are very important**
- **To support the MEDREC activities and to help achieving the MEDREP objectives**
- **Many EOIs have been sent**

The objectives

- **To assess the opportunities for cost-effective renewable energies for rural areas and villages;**
- **To assess the real effectiveness of “new” technologies through better knowledge of social and end user behaviour and acceptability for clean and efficient energy technologies and practices;**
- **To measure the impact of electrification on socio-economic development in rural areas.**

The approach

- **Selection and analysis of pilot projects;**
- **Analysis of energy efficient use, technologies and practices effectiveness: selection of local initiatives, surveys realisations and analysis of results and lessons learned;**
- **Selection of internationally recognised indicators, development and testing of measurement methods and elaboration of strategies for successful implementation;**
- **Wide dissemination of the results.**

Targeted countries

- **Algeria**
- **Egypt**
- **Libya**
- **Morocco**
- **PNA**
- **Tunisia**
- **Turkey**

***Thank you for
your attention***

allal@ome.org