A satellite-style map of the Mediterranean region, showing the sea in dark blue, green landmasses, and yellowish-brown desert areas. The text is overlaid on the map.

Mediterranean Renewable Energy Initiative

*Infrastructure Development,
Capacity Building*

Work programme

APAS – MEDENERGIE
achieved 1996 - 4 partners

Analysis of technologies
Assessment of RE potential

INTERSUDMED
achieved 1998 - 18 partners

Pre-feasibility studies
1 technology -
1 country - 1 project

IRESMED
achieved 2000 - 21 partners

Integration of PV and wind
large scale (regions)

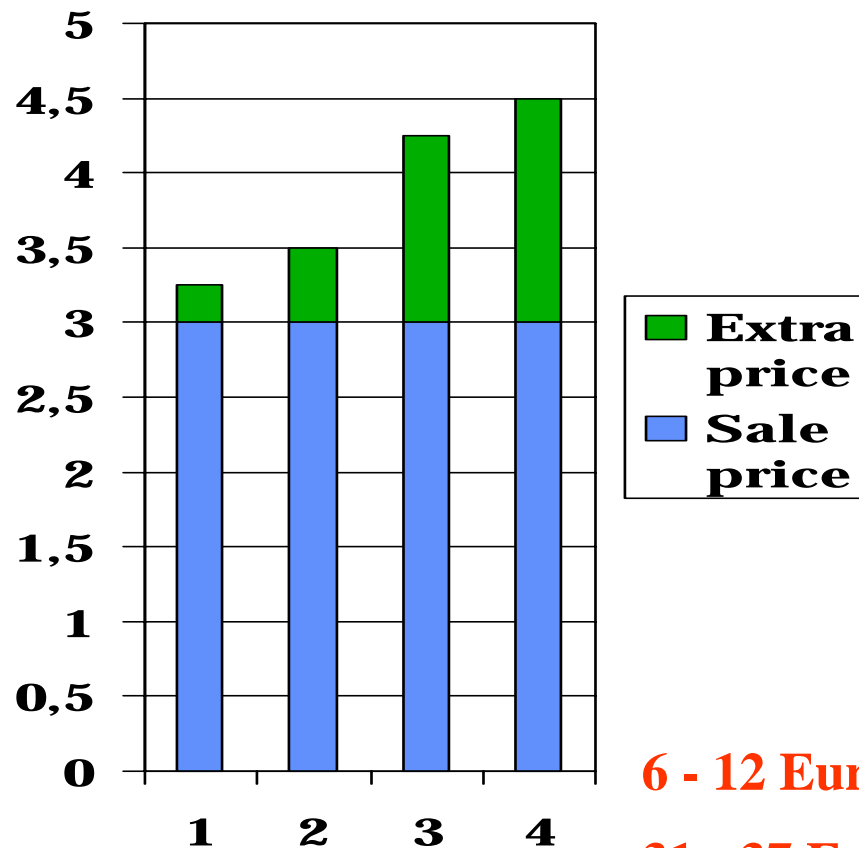
MED2010
ongoing - 14 partners

Integration of PV and wind
large scale - targets

CDMED
achieved 2001 - 5 partners

CDM and RE projects
in the SEMCs

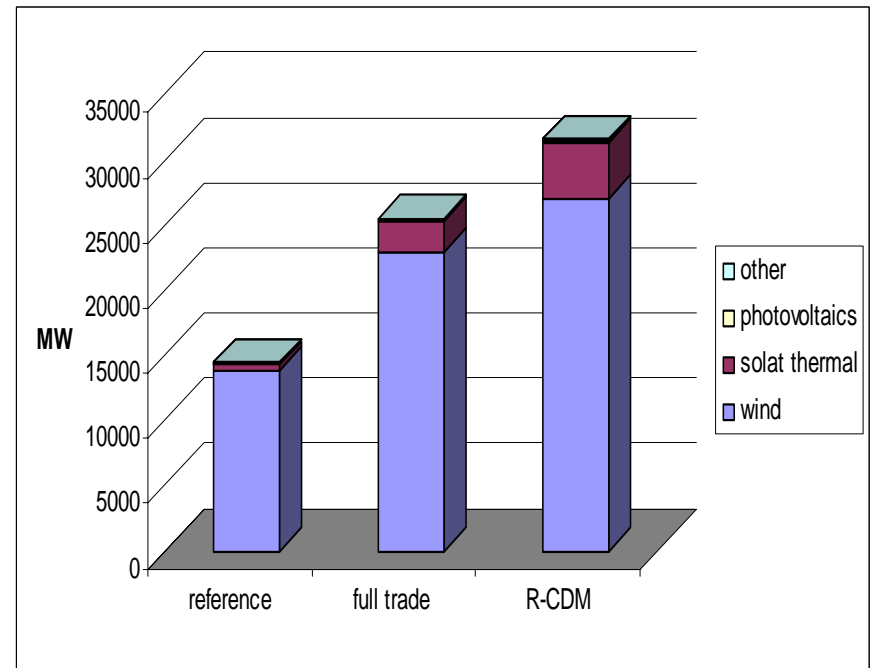
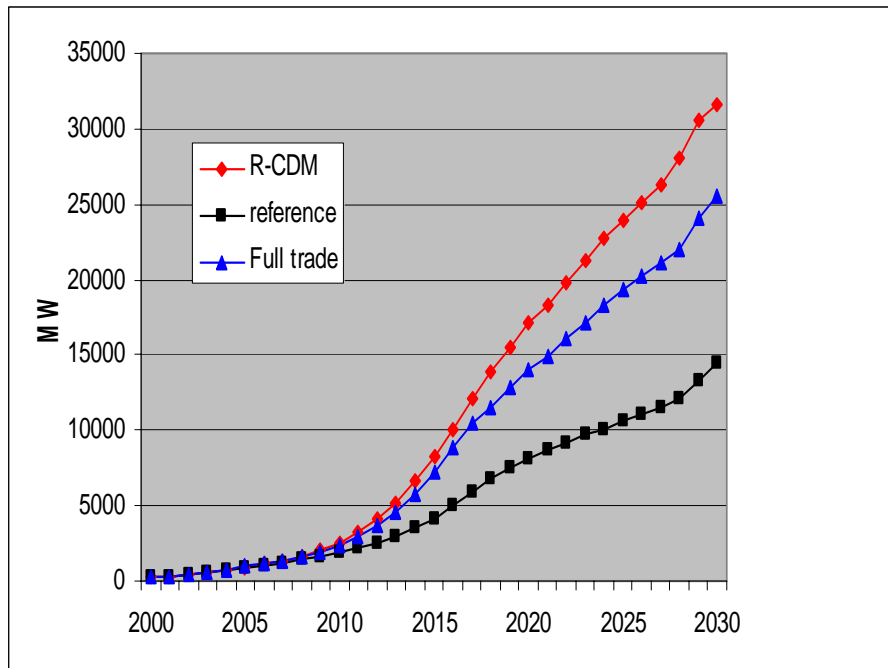
Zafarana project - Additional Income Needed for Project Profitability (Euro cents/kWh)



- **Case 1:** 10% grant, 6% interest, 900 Euro/kW
- **Case 2:** 10% grant, 6-12% interest, 1000-1100 Euro/kW
- **Case 3:** No grant, 6% interest, 900 Euro/kW
- **Case 4:** No grant, 6-12% interest, 1000-1100 Euro/kW

6 - 12 Euro/tonne CO₂ in Case 1 and 2 (with grant)
31 - 37 Euro/tonne CO₂ in Case 3 and 4 (no grant)

CDM and RE capacities



□ Scenarios:

- Reference case (Kyoto for ever)
- Maximum CDM potential / full trade
- Potential for CDM based on renewables

□ RE CDM Potential:

- 16000 MW
- Mostly wind energy

Infrastructure Development, Capacity Building

GENERAL OBJECTIVE

- **To define a portfolio of renewable energy projects allowing to achieve the target and to facilitate the implementation of these projects**
- **To support building a sustainable Mediterranean renewable energy market that will significantly contribute to the sustainable development of all the countries in the region**

SPECIFIC OBJECTIVES

- **Accelerate renewable energy markets in the Mediterranean basin**
- **Describe “best practices” on successful incentive system and good practices in developing renewable energy market**
- **Build capacity to increase the number of robust projects**
- **Create a virtual centre of excellence on integration of renewable energies in the Mediterranean region**

Work Programme

- **Phase 0: Situation analysis**
- **Phase I: Elaboration of the MEDRENI Action Plan**
- **Phase II: Implementation**

Project planning and timetable Phase 0 and Phase I

| Description | Duration / critical path | | | | | | ★: see list of deliverables |
|--|--------------------------|---|---------------|---------|--------------------|----|-----------------------------|
| | Phase 0 | | | Phase 1 | | | |
| | 2 | 4 | 6 | 10 | 14 | 18 | |
| <p>0: Situation analysis</p> <p><i>k 1: Energy prospect outlook 2010 in the region</i></p> <p><i>k 2: Comprehensive renewable energy resource maps</i></p> <p><i>k 3: Methodologies used and common approach</i></p> <p><i>k 4: Existing capacity building efforts</i></p> <p><i>k 5.: Potential projects</i></p> <p><i>k 6: Identification of new studies</i></p> | | | | | | | |
| <p>I: Elaboration of the MEDRENI Action Plan</p> <p>Task 1: Identification of the most promising renewable energy technologies on the basis of the regional technical availability and of the local needs and economic and social framework</p> <p><i>k 2: Identification of needs in terms of capacity building</i></p> <p><i>k 3: Elaboration of the MEDRENI Action Plan</i></p> | | | | | | | |
| <p>Duration, Management and Exploitation</p> <p><i>k 1.: Co-ordination and Management</i></p> <p><i>k 2.: Exploitation</i></p> | M | | ★ | | M | | |
| | | | W | | W | | C |
| | ★ | | C: Conference | | M: mission/meeting | | W: Workshop |

Phase 0: outputs

- *Official endorsement by partners*
- *Organisation of two-days workshop to better define Phase II work programme and promote successful frameworks*
- *Update Project for following phase*

Phase 1: Work Programme

Identification of the most promising renewable energy technologies_

- *Resources assessment, mapping using advanced software and GIS tools (the common adopted methodology) and selection of sites for “MEDRENI RE projects*
- *Technology assessment*
- *Socio-economic studies (to assess energy service needs, ability to pay, ...)*
- *Assessment of economic potential*
- *Review of the successful incentive system and good practices in developing renewable energy*
- *Specific R&D network on specific issues (such as combined gas and solar technology power generation, ...)*
- *Putting the European industry in contact with that of Mediterranean partners*
- *Assistance and partnership in commercial project facilitation*
- *Pre-feasibility studies including social and environmental benefits of selected projects*
- *Feasibility studies including social and environmental benefits of identified projects*

Phase 1: Work Programme
Identification of needs in terms of capacity building

- ***Training (including remote and long distance training, focus on specific issues such as software and GIS tools, commercial issues and market evaluation analysis in the field of PV, wind, ...)***
- ***Researchers exchange***

***Phase 1: Work Programme
Elaboration of the MEDRENI Action Plan***

- ***A portfolio of projects***
- ***Set of actions allowing the creation of a vibrant, sustainable renewable energy market in the Mediterranean region***
- ***A virtual centre of excellence on integration of renewable energies in the Mediterranean region***

Phase 1: outputs

- *Elaboration of the MEDRENI Action Plan*
- *Market Integration*
- *Capacity building*
- *Project facilitation*

Management and exploitation

- *OME: coordinator*
- *Task leaders*
- *Website*