Experiences and challenges for solar energy in MENA Region

6th AIEE Energy Symposium on Energy Security
Session 19 - Pathway to transition: the cooperation role

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Experiences in MENA Region

R&I Collaborative projects

Technical Assistance through tender or grant

MATS
ORC-PLUS
STS-MED
MED-DESIRE
PWMSP
TAKA NADIFA
meetMED I & II
Technical Assistance - Capacity Building & Transfer of Knowledge Projects
ENPI 2010/248-486 Tender for Technical Assistance

It assisted from September 2010 to August 2013 the MPCs to create conditions that are conducive to greater use of sustainable energy based on RE, combined with EE.

**Activities**

- Harmonization of Legal and Regulatory Framework
- Support to Investment
- **Transfer of Knowledge and Capacity Building**
- Sustainable Energy Policy
- Infrastructure Requirements for the MSP
  - Master plan for the Mediterranean electricity interconnections

Middle East and North Africa (MENA)

- 1. Morocco
- 2. Algeria
- 3. Tunisia
- 4. Libya
- 5. Egypt
- 6. Jordan
- 7. Syria
- 8. Lebanon
- 9. Iraq
- 10. Iran
- 11. Saudi Arabia
- 12. Kuwait
- 13. Bahrain
- 14. Qatar
- 15. UAE
- 16. Yemen
- 17. Oman
- 18. Israel

* Libya: joined last year
* Syria: activities suspended
**MED-DESIRE Strategic Project**

**Capacity building**
- Technical visits/meetings
- Workshops/Seminars
- Study Tours
- Training of Trainers (ToT)

**Studies**
- Regional SWOT Analysis and barriers
- Certification procedures for Solar Energy Technologies
- Feasibility study for the creation/upgrading of new(existing) testing laboratories
EuropeAid Tender for Technical Assistance
Contrat N° EuropeAid/138560/DH/SER/DZ

Programme d’Appui de l’Union européenne aux secteurs des énergies renouvelables et de l’efficacité énergétique en Algérie (PAEREE)

TAKA NADIFA has three vertical axes of intervention:
Axis 1: Institutional, policy and regulatory support, and cross-cutting aspects
Axis 2: Renewable energy
Axis 3: Energy efficiency

TAKA NADIFA also includes horizontal activities, including training and capacity building.
Technological Transfer and Demonstration Plant Building Projects
Multipurpose Applications by Thermodynamic Solar

Demo plant built close to City for Science and Technology (SRTA-City) nearby Alexandria (Egypt)
MATS demonstration plant is built in a North Africa desert area, inside the City for Science and Technology, Borg El Arab, Alexandria in Egypt.
STS-Med focuses on the development, implementation and diffusion of pioneering solar technologies to improve energy efficiency in public buildings.

4 polygenerative solar plants

Cyprus

Egypt

Italy

Jordan
Organic Rankine Cycle
Prototype Link to Unit Storage Solar Power Plant

Solar plant at
*Green Energy Park - Ben Guerir* desertic area of Morocco
Tools to remove barriers preventing solar energy uptake by local markets

Harmonised policies & regulations

Common standards

Qualified/certified products

Certified competences

R&I technological infrastructures

Local stakeholders engagement

Project financing

Impact investing

Is there enough?

We need a strong commitment from local authorities before to fully exploit solar energy potential as key enabler of social and economic development
Thank you!

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