

Activities and Plans of the: Desertec University Network

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Chronology for RE deployment: 3 main periods

1- Before 1980's

Oil crisis:1973-1979

2- Decades:1980's & 1990's

National programmes

3- Years2000's:

**International initiatives & National
roadmaps Implementations**

DESERTEC VISION



Studies by DLR for EUMENA region

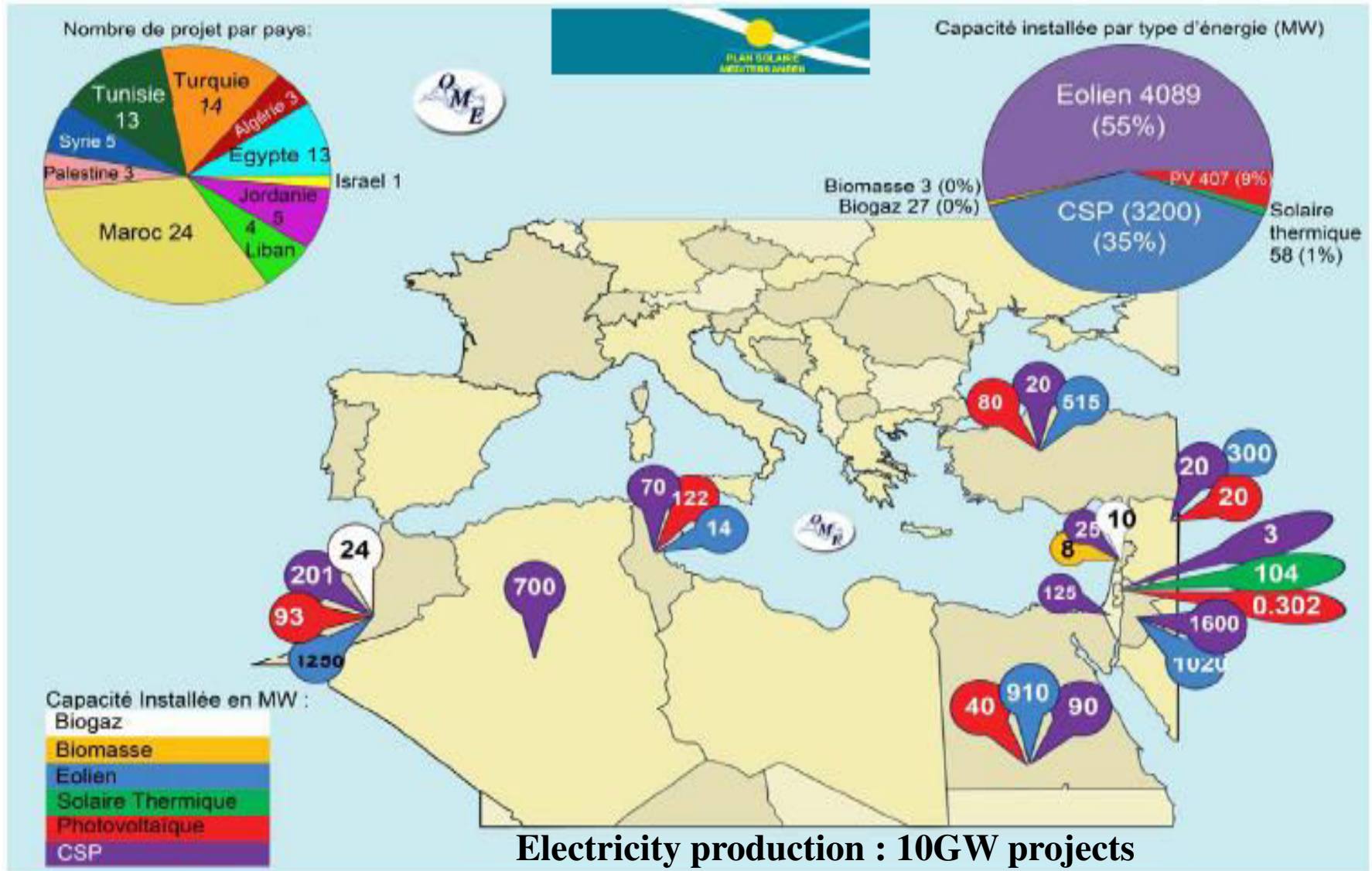
MED-CSP TRANS-CSP for German gov't

CLUB OF ROME
White Paper 2009
www.desertec.org

The Mediterranean Solar Plan

Union for the Mediterranean

Projects Overview



Sahara Solar Breeder Model

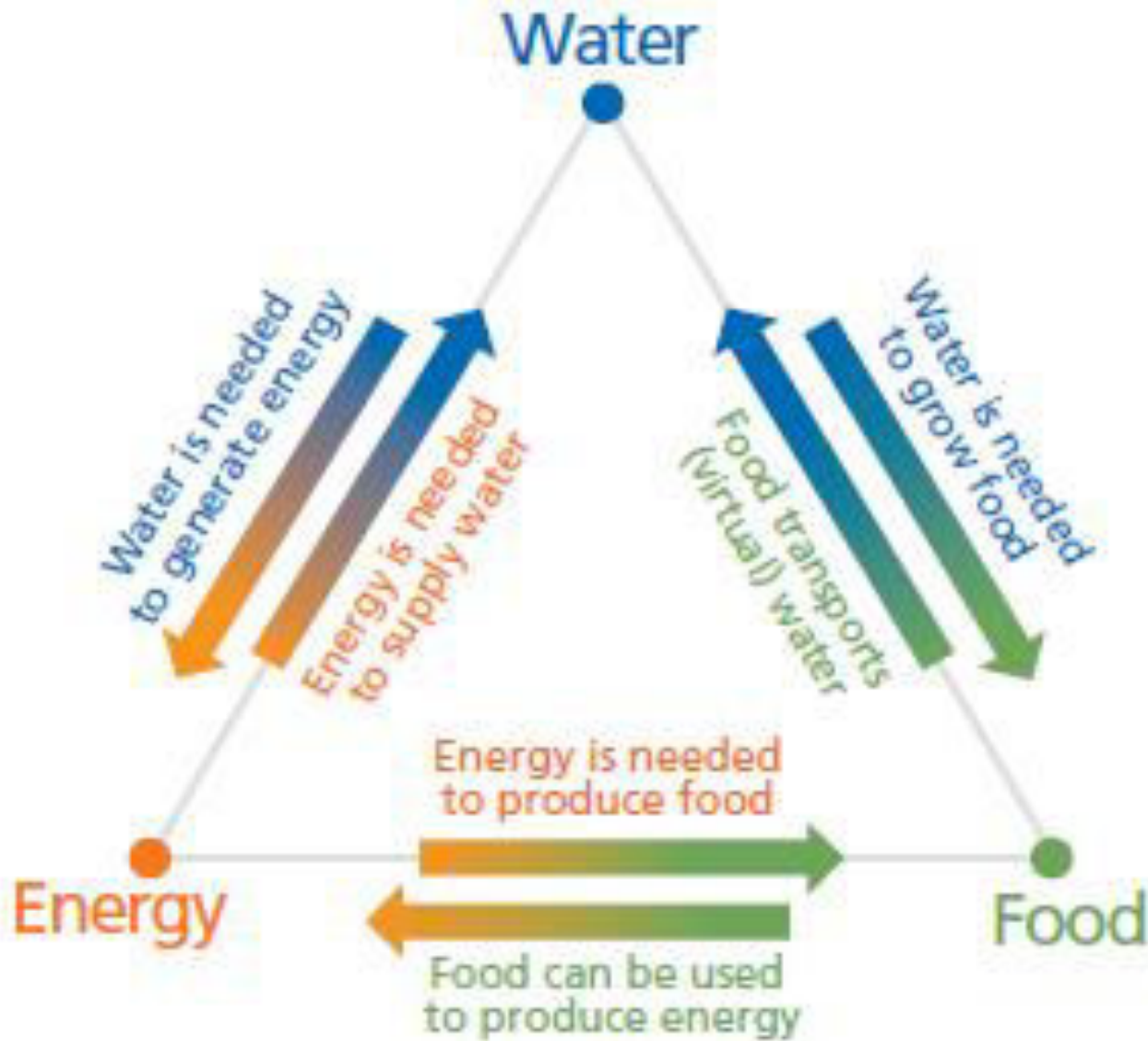


Greenpeace



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conference 2015- Uni-Giessen -
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Source: The Water-Energy-Food nexus (UNU 2013)



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Opportunities

- ✓ Comprehensive long term vision: Roadmaps (x%/YY)
- ✓ Positive economic effects and economic growth: employment, industries, technology transfer
- ✓ Addressing Energy security and sustainable development: less dependancies on fossil fuels and exposures to external risks
- ✓ Contribution to « Climat protection »
- ✓ Kick-off research activities
- ✓ Education and 'Capacity Building'

Q: DUN's actions? - A: 5 basic fields

- 1- Improving knowledge transfer and enhancing capacity building
- 2- Promoting new energy solutions and improving technology: Generation, grids, energy storage, adaptation to local conditions (water scarcity, sand storms..)..
- 3- Addressing socio-economic impact of RE energy deployment
- 4- Developing scientific and industrial partnerships based on demonstration projects
- 5- Winning 'Public Acceptance'

Guidelines for the success of the visions

- 1- Enhancing the socio-economic development and growth for the populations
- 2- Building win-win partnerships in : Education and R&D, business, culture.
- 3- Be open minded and free regarding the technology, the systems architecture and the R E sources.
- 4- Addressing 'Climat Change' mitigation
- 5- Set-up successful pilot projects

Achievements as of today:

High level Awareness:

- National strategies (x% / YY)
- New regulatory framework established or on the way
- Projects implemented or programmed

Educational projects:

- REMENA Uni-Kassel/University of Cairo/ENIM
- CSP teaching material dissemination

Demonstration project decided (Re-agri)

Networking & communications

- Conferences, workshops, visits
- Bilateral cooperation: applications for international calls

Plans

- **Develop human resources and Skills**
 - Multidimensional education
 - Research/development & Demonstration
 - Promote mobility
- **Improve regulatory framework: Impulse investments**
- **Observatory for 'calls for cooperative projects' and build partnerships** (European level / international level)
- **Co-promote and implement pilot projects**
- **Focus on Economic -Sectors applications:** agriculture, buildings, cities, education, etc..
- **Open membership and programs to sub-saharian candidates**

Pilot Project: Integrated business model

Addressing the nexus: Energy-Water-Food

PILOTE PROJECT SITE

Localization: 33°30'55.81"N; 10°53'26.08"E



The site localization in South of Tunisia



The site's map

- Total Surface: 24 ha
- 200 Olive trees (12 ha)
- Lease Agreement (25 years)

***Thank you for
your Attention***

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