

German Egyptian Year of Science & Technology Closing Event Cairo - November 12th,2007

Renewable Energy Expert Group

Activities and Prospects

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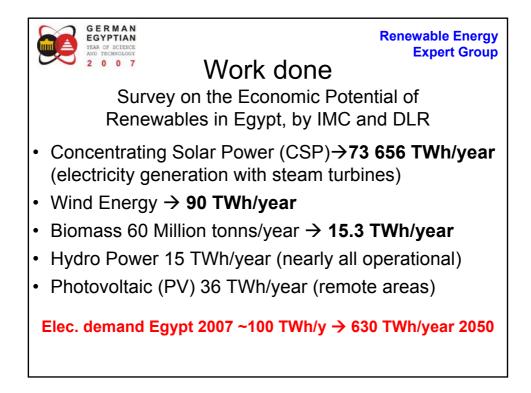


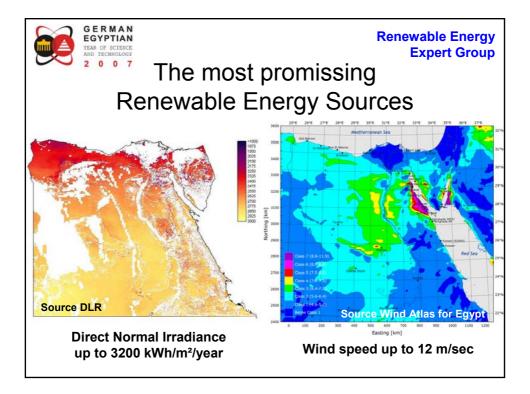
Our Goal

Is it Possible to shift Egypt's Electricity Generation to be

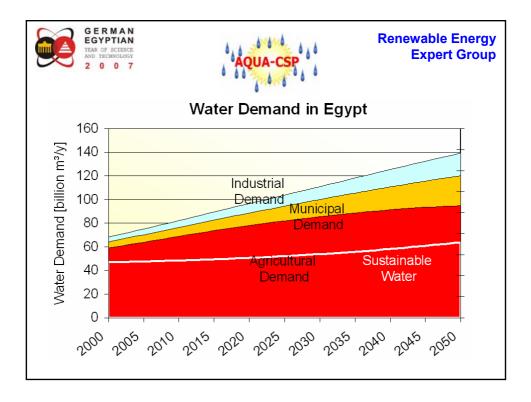
100% Renewables?

by When? What about Water demand? How far is local manufacturing involved?

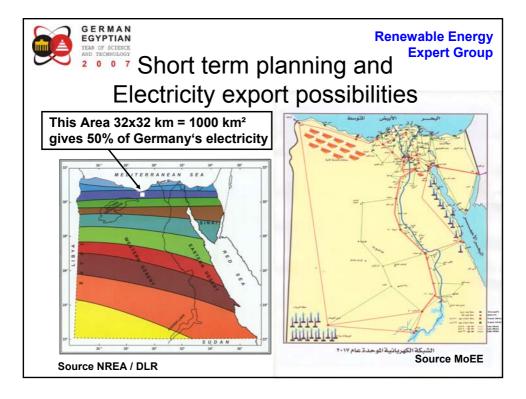




Egyptian 2 0 0 7 Poten Local Manufactu	itial of	Renewable Energy Expert Group
Technology	Reactive Policy	Pro-active Policy
Concentrated solar power	30%	50%
Wind energy	40%	60%
Biomass	50%	95%
Photovoltaic systems	20%	30%
Solar water heaters	70%	95%

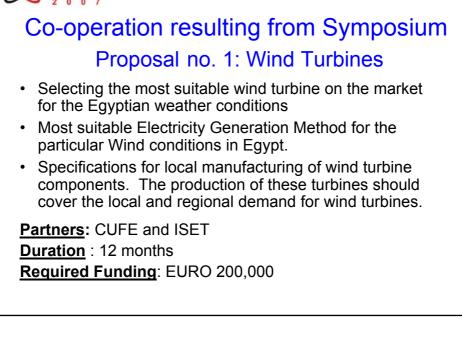


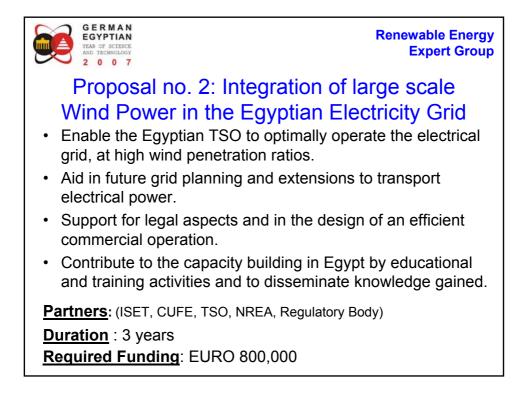






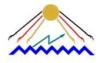




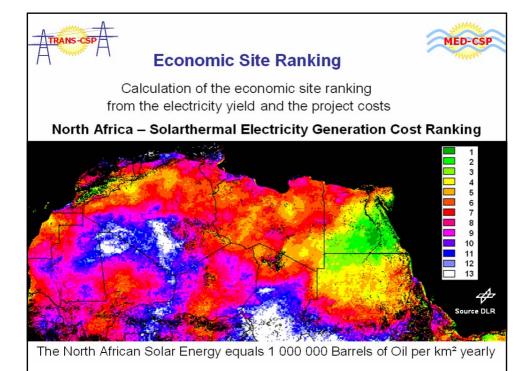


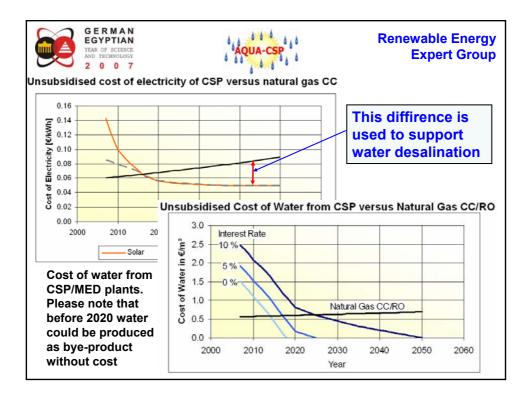


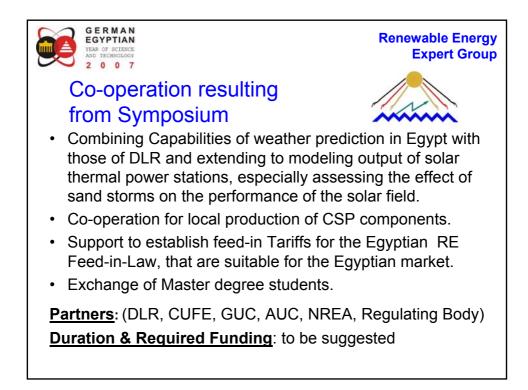
Symposium: Solar Thermal Plants and Desalination



- DLR presented an impressive map showing the outstanding position of Egypt for CSP electricity generation.
- DLR studies showed that it is extremely economic to desalinate Seawater in combination with electricity production by means of CSP.
- Promising new trends in CSP technologies, some of which enable mass production.
- Hydrogen and Oxygen production with CSP by means of the innovative HYDROSOL Technology Results soon at: www.menarec.org









Proposed Initiatives 2008

- Joint research proposals for FP7 and other funding agencies in themes related to Renewable energy.
- Researchers exchange on institutional level through bilateral agreements for periods of 2 to 6 months.
- Staff mobility to visit German institutions using FP7 funding.
- Joint supervision with German Universities on Ph.D. degrees in the Renewable Energy Field.
- Establishing a Centre of excellence in Renewable energy.
- Joint postgraduate and research programs with German Universities.





Conclusions

- · Yes it is possible to shift to Renewables
 - By 2050 to be 50-60% of Electricity Generation
 - By 2100 to be 100%
- It is possible to provide desalinated Seawater at reasonable costs using CSP
- Renewable Energy Feed-in-Law is needed. Study for applicable and justified Tariffs suggested by DLR.
- Local Production is possible, it is even a MUST

