

Solar PV & thermal applications for hotel sector

Cairo, Egypt, May 22nd

Rana El-Guindy



RCREEE 

Regional Center for Renewable Energy and Energy Efficiency
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة



Implemented by :

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Outline

- Why the hotel sector?
- What does the manual offer?
- A brief presentation of the manual content
- Conclusion

Why the hotel sector?

- Key dynamic industry
- A labor intensive industry
- Energy security
- Decentralized diesel based technologies as a primary solution for off-grid facilities
- Removal of fuel subsidies



Solar hybrid systems

- Stabilization of energy expenses
- Independence from unreliable grid-connections
- Tourism relies on a clean environment and solar energy serves as a basis for protecting natural heritage
- Unpredictability of the costs of conventional energy sources

What does the manual offer?

- Discusses the opportunities for solar Photovoltaic (PV) and solar thermal applications for the hotel sector in the MENA region as one of the labor and energy intensive sectors
- Supports the decision making process for a solar PV hybrid system of end users on the most cost effective PV solution
- Gives a special focus on Egypt as a pilot area to serve hoteliers, solar companies and investors in the MENA region
- Supports the Egyptian and regional cross-border cooperation and knowhow transfer on employment promotion through RE/EE in the MENA region under the RE-ACTIVATE project



Implemented by



Chapter 1

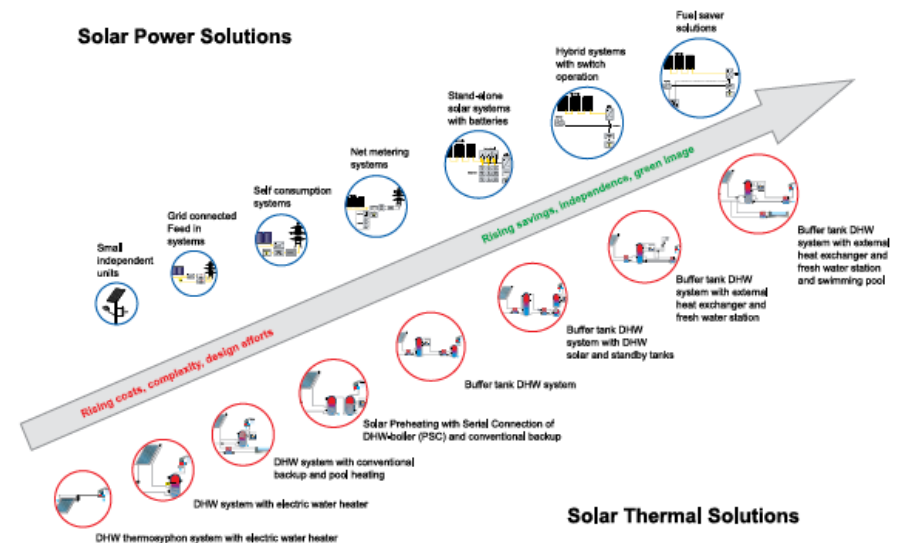


- Basics of solar energy
- Potential of solar energy in hotels
- Hotel types and solar energy
- Architectural integration
- Challenge for hotels



Chapter 2

- Solar power systems
- System solutions for solar power and heat
- Heat and power hybrid co-generation



Chapter 3

- Typical consumers
- Basic and peak demands
- Energy saving technologies



Chapter 4

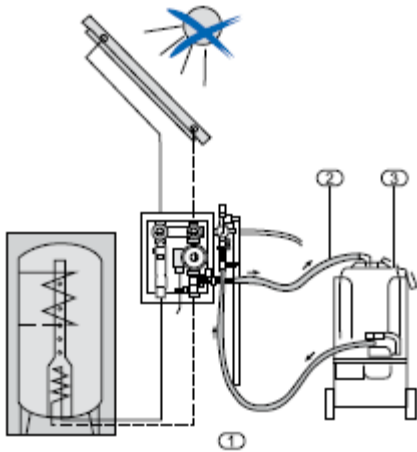
- Design and sizing of solar power for hotels
- Technical specifications for solar power systems
- Installation of solar power systems



Chapter 5



- Design and sizing of solar thermal systems
- Technical specifications for solar thermal systems
- Installation of solar thermal systems



Chapter 6

- Hotel in Gouna:
 - The hotel specifications
 - What went wrong?
 - Suggested solutions



Thank you !

Rana El-Guindy
Senior Specialist – Energy Economist

**Regional Center for Renewable Energy and Energy Efficiency
(RCREEE)**

Hydro Power Building (7th Floor)
Block 11 - Piece 15, Melsa District
Ard El Golf, Nasr City, Cairo, Egypt

Tel: +20 2 2415 4755 ext. (277)

Mob: +20 10 0510 5222

Fax: +20 2 241 54661

Rana.elguindy@rcreee.org

www.rcreee.org