

Participant 5 : Tel Aviv University



Established 1955

9 Faculties: Sciences, Engineering, Humanities, Arts, etc.

30,000 students

Faculty of Engineering

95 Academic staff

3,000 students

Electrical Eng

Mechanical Eng

Industrial Eng

Bio-Medical Eng

Environmental Eng

Materials Sci & Eng

Eng + Physics

Eng + Computer Sci

Eng + Management





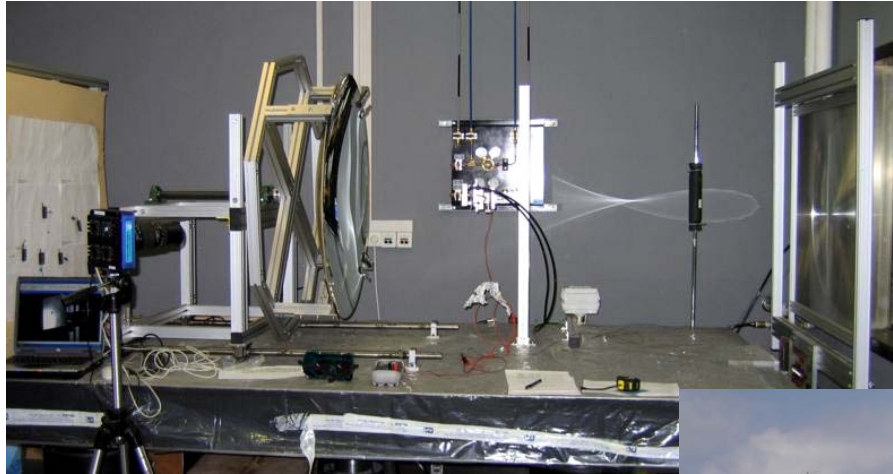
The Solar Energy Group

- Leader: Prof. Avi Kribus
- Staff
 - Dr. Yuri Flitsanov
 - Gil Shelef
 - Yosef Meller
- Students
 - 2 Ph.D.
 - 3 M.Sc.
- Collaboration with others at TAU:
 - Prof. J. Appelbaum:** PV systems
 - Dr. D. Shmilovich:** Power conversion
 - Dr. A. Dayan:** Thermal energy storage
 - Prof. A. Seifert:** AFC for wind turbinesPorter School of Environmental Studies
Gordon Center of Energy Studies





The Solar Energy Laboratory



Indoors Lab

- 7 kW Solar Simulator
- Point focus or parallel beam
- Flux measurement
- Remote temperature measurement
- High temperature electric furnace

Outdoors Lab

- Parabolic dish collector
- BISC
- Control & Data acquisition
- Meteorological station



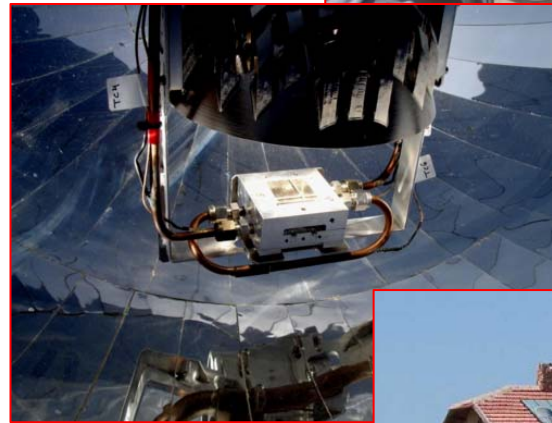


Projects: BISC

M. Arenson (Ph.D.), G. Shelef

Building Integrated Spherical Collector

- Unit size 1 m
- Concentration $\times 200$ —400
- Triple Junction cells
- Active cooling
- Two-axis tracking
- Co-generation



Participants

Tel Aviv University
Di.S.P.
University of Florence
SHAP

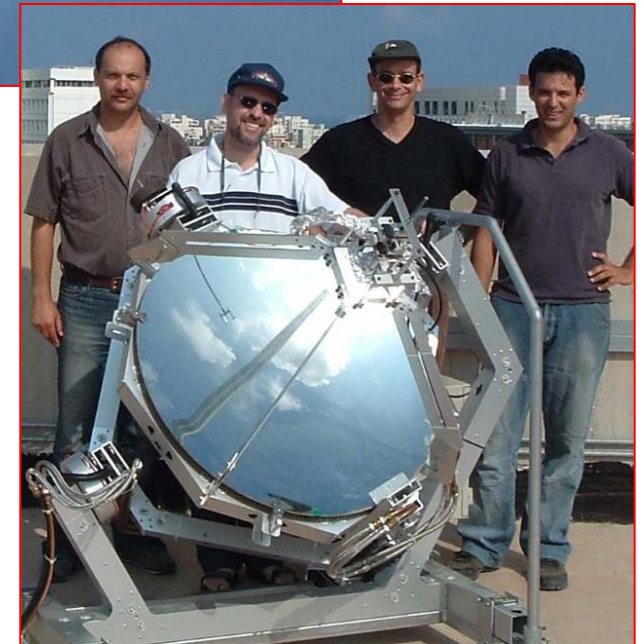




Projects: Miniature Dish

A. Hirshfeld (M.Sc.), Y. Flitsanov

- Unit size 1—2 m
- Concentration $\times 400$ —1,000
- Triple Junction cells
- Active cooling
- Two-axis tracking
- Co-generation when possible



Participants

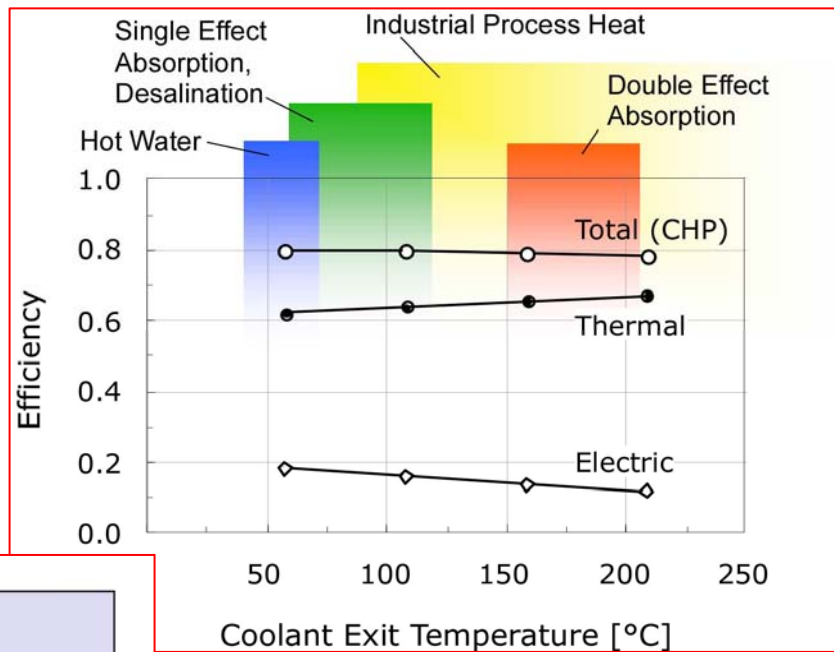
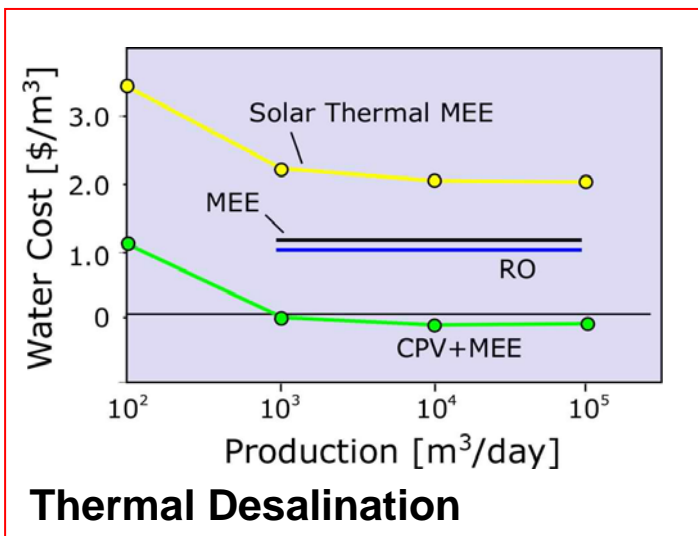
Tel Aviv University
Distributed Solar Power Ltd.



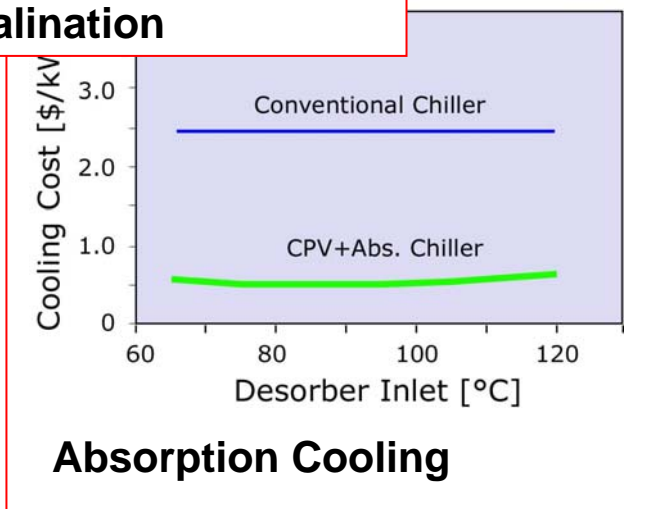
Projects: CPVT

G. Mittelman (Ph.D.)

Cogeneration: PV electricity + heat



Thermal Desalination



Absorption Cooling



Roles in UPP-Sol

- ❖ Scientific & Technical Coordinator
- ❖ WP1, WP2 Leader
 - ❖ System analysis & simulation
 - ❖ Solar collector design
 - ❖ System level design
 - ❖ Testing & data analysis

