

System for cooling, dehumidification and air conditioning (Technion)

code: ENE-1053

Global warming, has led to an increase in air conditioning demand not only in hot and humid climates such as in Mediterranean countries, but also in European countries with no air conditioning tradition. Electric utilities have their peak loads in hot summer days, and are often barely capable of meeting the demand, struggling with brown-out situations. With suitable technology, solar cooling can help alleviate, if not eliminate the problem. We developed a technology that is capable of using industrial waste heat or low-grade solar heat from low-cost flat plate collectors as their source of power, and have the potential to provide both cooling and dehumidification, as required by the load.

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