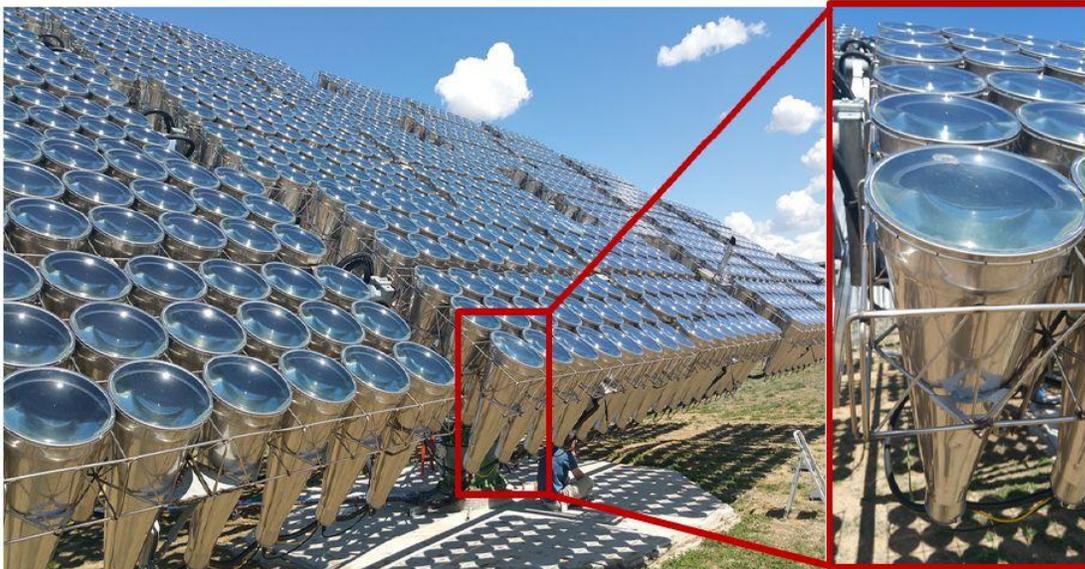




Introducing Solergy's High Concentrating Photovoltaic (HCPV) System

Announcing creation of new High Efficiency Solar and Solar Cogeneration (HESCO) Special Interest Group

[Solergy](#) develops, manufactures, and distributes solar energy systems that are efficient, reliable and generate more energy at a lower cost (LCOE) than any other traditional photovoltaic system.



Solergy has developed the world's first upgradeable, 40 year lifetime High Concentrating Photovoltaic (HCPV) System that actually increases its power output over time rather than degrade. It generates up to 3x the electricity of a traditional PV plant over its lifetime and also cogenerates heat at no additional cost.

To promote information sharing and adoption of more efficient solar energy generation technologies, and in particular applications and systems capable of simultaneously cogenerating electricity and heat, Solergy Italia is forming the High Efficiency Solar and Solar Cogeneration (HESCO) Special Interest Group. The goal of the group is to foster collaboration among renewable energy industry stakeholders to develop **energy efficiency projects** based on Solergy HCPV technology with special emphasis on **applications that involve cogeneration of electricity and heat**. The HESCO group is the place to share information about technological developments, best practices, exchange ideas, seek

solutions for energy efficiency projects, and provide feedback for how Solergy HCPV can best serve market needs.

Subscriber [here](#) to receive updates on Solergy Technology developments and new applications Click [here](#) to submit specific energy efficiency project requirements or needs,

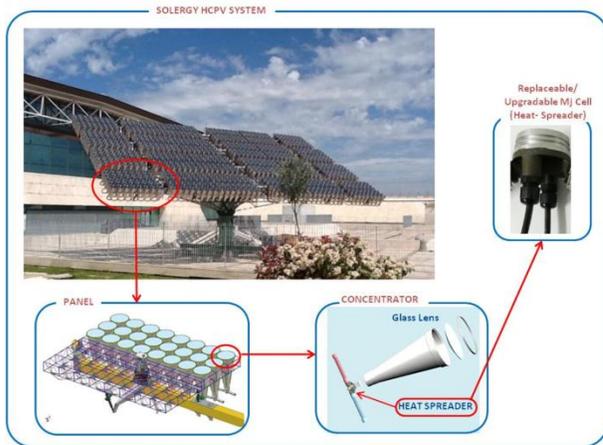
This group is being formed within the context of Solergy Italia's COGEM CPV project, a new initiative that has been funded by the European Union's Horizon 2020 research and innovation program. Solergy Italia Srl has received € 2.1M to develop an innovative heat-spreader to be integrated in its High Concentration Photovoltaic (HCPV) system. By adopting and applying new materials, particularly ceramics, a reduction of 25% in energy generation costs and an improvement of 3% in performance is expected. (please visit [COGEM CPV](#) for more information).

The project combines applied research and development activities and experimentation with market outreach, interaction with key stakeholders (users, partners, integrators), and other dissemination activities.

For this reason, within the context of COGEM CPV project, we are giving rise an International Special Interest Group (SIG) with the aim of share with main "Market Stakeholders" information on technology progress (and its market applications) and get feedback useful for improving system characteristics to better meet market/users requirements.

Solergy HCPV background

Current thinking and practice regarding the cost of solar electricity, financing schemes, and operating lifetime have been conditioned by the limitations of standard silicon PV panels. Solergy's revolutionary upgradeable, 40 year solar technology changes the economics of solar energy and enables new approaches to realize renewable energy and energy efficiency projects.



Upgradable Cell

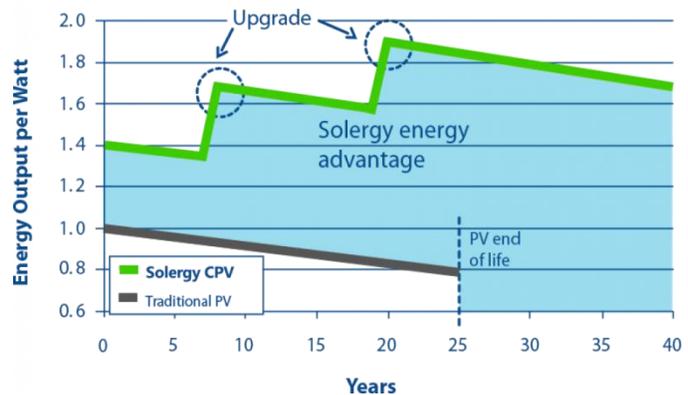
Solergy's unique Upgradeable technology takes advantage of the steadily increasing efficiency of Multijunction cells (average improvement of 1% absolute per year with theoretical limit over 70% yield more energy over a longer period of time).

Upgrades are performed directly in the field simply by swapping out the Multijunction cells located at the base of each concentrator unit; it's like changing a light bulb.

The consequence is that Solergy HCPV produces, about three times the energy produced by a fixed photovoltaic system at a lower cost per kWh.

Finally, for each electrical kW produced by the system, it also produces about 1.4kWt (thermal kW). Heat can be used for various applications such as hospitals, hotels, offices, factories, greenhouses, desalination, pre-industrial heating processes, and more. Tell us about your application

Upgradable with 40+ year lifetime



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Connect With Us



Solergy Italia Srl
 Via degli Olmetti, 46
 00060 - Formello (RM)
 P. Iva 09956951009
 Tel.: 06/98267050
 Fax 0698267052