



Solergy High Concentrating Photovoltaic (HCPV) System 40
Year Upgradeable Solar

See Solergy HCPV in action in many applications and environments

In this issue, we want to share several examples of Solergy HCPV in operation in various contexts and environments. Whether at an airport, olive grove, winery, open field, or integrated within a smart microgrid, Solergy HCPV generates electricity reliably and also cogenerates heat where applicable. We hope it will inspire you to consider where Solergy HCPV can be applied in your applications!

EPRI (Electric Power Research Institute) at SolarTAC - Colorado- USA	<i>In operation since 2015</i>
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The Solergy system was selected by **EPRI from among many competing technologies** for a comparative performance test taking place at the **Solar Technology Acceleration Center (SolarTAC)** in Aurora, Colorado. The Solergy system was commissioned in September, 2015.



With assistance from the National Renewable Energy Laboratory, EPRI is closely monitoring electrical output, thermal output, tracking precision, and ambient conditions such as wind speed, temperature and DNI. Since commissioning, the Solergy system has operated without interruption despite severe weather, registered Performance Ratios above 90%, and has maintained high tracking precision with error below 0.1°.

			<p>Installation Highlights:</p> <ul style="list-style-type: none"> • Performance ratio > 90% • Virtually no maintenance required through first 16 months of operation • Reliable performance despite temperatures from -25 ° to + 30 °, winds up to 90km/h, and multiple snowstorms •
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Fiumicino International Airport - Rome- Italy	<i>In operation since 2015</i>
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A Solergy HCPV System is powering the smart microgrid system adjacent to Terminal 1 of Rome-Fiumicino International Airport. With over 40 million passengers per year, this installation is an excellent showcase of leading edge solar energy applications that make use of the latest technology.



Aeroporti di Roma (ADR), the Fiumicino Airport management company, is applying the unique cogeneration capabilities of Solergy HCPV System. (electricity and heat cogeneration).

The electricity is used to charge zero-emission electric service vehicles that run on batteries and the cogenerated heat is used to preheat domestic hot water for use in Terminal-1 nearby

(pictured above). The thermal performance of Solergy-Cogem HCPV, is currently the subject of a specific study conducted in collaboration with the National Renewable Energy Laboratory (NREL) and the Colorado School of Mines, Golden (CO), USA. Study results will be announced as soon as the analysis will be concluded.

			<p>Installation Specific:</p> <ul style="list-style-type: none"> Smart Grid Integration Electricity & Heat Cogeneration Integration with local utility networks (e-grid and water-grid)
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ENAC (Italian National Civil Aviation Authority) Pantelleria Airport - Sicily- Italy	<i>In operation since 2014 (confirm with Giuseppe)</i>
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The Island of Pantelleria is noted for its unique environmental characteristics and challenging climactic conditions. The high saline content and steady winds often gusting beyond 100 km/h presents a challenge to any outdoor equipment. Solergy HCPV has ‘weathered’ the challenge quite well, maintaining tracking precision below 0.1° and continuing to operate under all conditions.

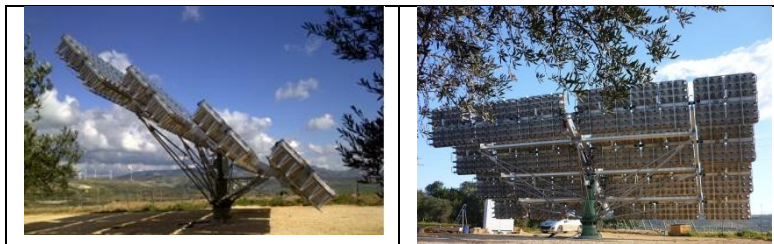
		<p>Installation Specific:</p> <ul style="list-style-type: none"> Seafront installation Highly saline environment Strong wind gusts Independent microgrid
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Vinery Farm- Menfi Agrigento- Sicily - Italy	<i>In operation since 2012</i>
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This installation has been operating reliably since 2012 and highlights the versatility of Solergy CPV within the agricultural context. The plant illustrates dual-land use and optimization of space by occupying a small, rocky unproductive area between, a vineyard and an olive grove.

The system was recently challenged by a small tornado. Various farm structures suffered extensive damage, but Solergy HCPV continued to operate despite the extreme conditions.




Installation Specific:

- Integration with agriculture
- Dual land-use optimization
- Reliable and robust operation over many years

The **High Efficiency Solar and Solar Cogeneration (HESCO)** Special Interest Group is growing! This group, formed as part of Solergy Italia’s COGEM CPV - Horizon 2020 project, aims to promote collaboration among renewable energy industry stakeholders who wish to develop energy efficiency projects based on Solergy HCPV technology. Special emphasis is placed 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.

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

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