

# CG APPLICATIONS

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<b>Application Note:</b>	<b>January 2010</b>
<b>Market involved :</b>	<b>Renewable energy</b>
<b>Product :</b>	<b>Eos-Array Lite</b>
<b>Customer :</b>	<b>System Integrators</b>
<b>Subject :</b>	<b>Control system for photovoltaic plants</b>

## CUSTOMER ISSUE :

The system integrator has to provide to his customer a 150kWp ground photovoltaic plant control solution.

This company was used to manage information coming from the inverters but was not satisfied with that because people realised that this is still the weakest component of a PV solar system.

In order to be able to provide an independent control solution, the system integrator was used to buy different measuring and control devices from different suppliers, understanding that this was neither a cheap nor a complete hardware solution.

## OUR SOLUTION:

A competitive, integrated, flexible measuring and control solution "Eos-Array Lite" derived from the experience of the innovative "Eos-Array" system.

"Eos-Array Lite" as per "Eos-Array" supplies to the system integrator a modular and therefore flexible control solution, designed to be easily integrated by means of its Modbus communication system into an already available PV system management software.

## ACHIEVED BENEFITS:

Thanks to the modular concept, the system integrator can size the installation focusing on the project needs.

A further cost saving is provided by the integrated string fuse protections. The relay output can provide a failure alarm so to promptly warn the maintenance people.

The local string current and voltage are controlled locally and continuously so to provide, in case of failure, a remote, easy and fast "problem localisation" which is mandatory to keep the plant efficient and therefore profitable along the time.

