



Deliverable Report

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Technical coordination: TULiPPS (www.tulipps.com) (NL)
Project management: TULiPPS / Uniresearch (www.uniresearch.com) (NL)



Executive Summary

IBC SOLAR offers complete systems for turning sunlight into electrical energy. Founded in 1982 by Physicist Udo Möhrstedt, we have become one of the leading global photovoltaic systems integrators, offering high quality photovoltaic solutions of all sizes. More than 150.000 implemented PV systems worldwide with a total capacity of more than 2.5 Gigawatt underline our leading position. From the beginning, we have focused on maximizing efficiency by developing and engineering integrated systems that fit together perfectly. Partners benefit from individual and detailed consulting and a wide range of professional services and support.

IBC SOLAR is internationally established, with subsidiaries and partners in important and growing international markets in and outside Europe. For the PV expert, premium partnerships have proven successful in many other markets, where IBC SOLAR has enjoyed long-standing relationships with its Premium Partners. Both parties benefit from the cooperation: Premium Partners are well-established in the local markets, they are familiar with the market's idiosyncrasies and structures, and offer solutions that meet the specific needs of the customer. In return, IBC SOLAR guarantees its partners reliable stock of high quality products, unique service, and access to the know-how and experience of one of the pioneers of the PV industry.

This report describes the installation of two Pilot-installations and the test "Erstmusterprüfbericht" which has been taken place at the IBC Solar AG test laboratory at Bad Staffelstein in Germany of four small COSMOS modules (3x6 cells). IBC Solar will test the modules in their own climate chamber and perform an electroluminescence test and IV curve performance test in the Solar Simulator.

Pilot-installation IBC SOLAR:

A real time test will be performed at the IBC-Solar test site in Schinnen, the Netherlands. To get a reliable product compare IBC Solar has a pilot installation with the new COSMOS Module on its own test site.

The installation will take place under the same conditions as the other test installations on this test site. After installation the modules shall be tested for at least 3 seasons.

In this period the installation will be monitored for 24 hours, day in - day out. The results will be evaluated and compared with the results of the other modules from the test site. In this way, the specific features of the COSMOS modules should become clear.

Pilot-installation Eindhoven University of Technology:

A functioning model was built. This was a prototype of a pitched roof. On the experience gained with the prototype a pilot-installation was built on the roof of the Eindhoven University of Technology. This pilot installation is built to test the readiness of the COSMOS modules for demonstration projects and gave a clear and practical view of the strength and weaknesses of the modules and the mounting structure.

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http://cordis.europa.eu/fp7/cooperation/home_en.html

<http://ec.europa.eu>

Project participants:

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FTG | FemtoGrid Energy Solutions B.V. (NL)
Fh-ICT | Fraunhofer-gesellschaft zur foerderung der angewandten forschung E.V. (DLD)
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