

PHOTOVOLTAIC



SGS REFERENCE PROJECTS PHOTOVOLTAIC

CLIENT	PROJECT	SCOPE OF SERVICE	FOCUS	EXECUTION COUNTRY	YEAR
BELGIUM					
Different Energy provider and installer	approx. 3,500 residential plants < 10kVA	Electrical Conformity Green Certificate (CWAPE, VREG)	Controll of electrical conformity to required standards	Belgium	2009–2011
Different Energy provider and installer	approx. 20 PV-plants > 10kVA	Electrical Conformity Green Certificate (CWAPE, VREG)	Controll of electrical conformity to required standards	Belgium	2009–2011
BULGARIA					
Interservice Uzunov	Ravna Gora	Construction Supervision	5 MW PV-power plant	Bulgaria	2010–2011
CHINA					
Martifer Solar		Pre-Shipment Inspection & Load Inspection	3 Container Thin Film PV-modules	China	2011
Solvo Solar ET Solutions Windsheimer PV Technologie Swisse Soleil	Different Locations	Pre-Shipment Inspection & Load Inspection	Crystalline and Thin Film PV-modules	China	2009–2010

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CZECH REPUBLIC					
Solaria Energia	Benátky nad Jizerou	Health and Safety Coordination	4.5 MW PV-power plant	Czech Republic	2010
Solaria Energia	Cejetice	Health and Safety Coordination	2.5 MW PV-power plant	Czech Republic	2010
San Jose Tecnologias	Stráž pod Ralskem	Health and Safety Coordination	4.3 MW PV-power plant	Czech Republic	2010
GERMANY					
Sun Power	Partner Qualification	Quality Inspection	70 different roof installations	Germany	2011
Prefa Solar Beijing Time Valiant Zhejiang Guangyi Sanxi guorun Solar Energy Jingchen Yanggu new Energy Tamesol Desa	Certificate	PV-Module Certification	Crystalline PV-Module IEC 61215/61730	Germany/ China	2010– 2011
Avancis Calyxo China Hisun PV Technology	Certificate	PV-Module Certification	Thin Film PV-Module IEC 61646/61730	Germany	2010– 2011

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Aleo Solar Solarworld Solarwatt Conergy Bosch REC Solar ET Solutions IBC Solar Solcontec SBE SpA Würz Energy Bull Holding Sunstar IB Maus Arise Technol. Calyxo Heckert Solar AC Energy Sunfilm Masdar Heckert Solar Signet Solar DOW Corning Avancis Heliosphera Applied Materials Odersun Solibro Asola Hofbräuhaus München Rusol, etc.	Pre-Qualification	Characterisation of PV-Module Performance Mechanical Load Testing Climate Simulation Light Induced Degradatin Characterisation Hot Spot Test Low-Light-Behavior Temperature Coefficients Salt Mist Resistance Testing Gel Content Testing EVA/PVB/Backsheet Material Testing and Retesting Junction box/Connector Testing Electroluminescence and IR Testing Consulting Service for Manufacturer/System House	Power Measurement to Standard Test Conditions (STC) IEC 61215 IEC 61215 Load 5400 Pa Damp Heat Temperatur Cycle Humidity Freeeze Special Profiles Light Soaking Performance Measurement Monthly production quality test Thin Film Modules IEC 61701 IEC 61730-2 PV-modules Production Management System	Germany	2009–2011

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Sillia Energie	PV-Module Manufacturing	Factory Inspection	PV-Module Manufacturing qualification to IEC 61215	Germany	2010
Sunfilm		Final Acceptance Test (FAT)	Thin Film manufacturing lines	Germany	2010
Sun Power	Partner Qualification	Quality Inspection	35 Roof installations	Germany	2010
Malibu Solar Masdar PV		Final Acceptance Test (FAT)	Thin Film manufacturing lines	Germany	2010
Sillia Energie	PV-Module Manufacturing	Factory Inspection	PV-Module Manufacturing qualification to IEC 61215	Germany	2009
Sillia Energie	Certification	PV-Module Certification	Crystalline PV-Module IEC 61215/61730	Germany	2009
Schmid Technologies	Manufacturing line	PV-Module Certification	Crystalline PV-Module IEC 61215/61730	Germany	2009
Signet Solat	Manufacturing line	Final Acceptance Test (FAT)	Thin Film manufacturing lines	Germany	2009
Solvo Solar	Purchasing	Pre-Shipment Inspection & Load Inspection	2 Container PV-modules	Germany	2009
INDIA					
Enerpon	XL Telecom Project	Visual Inspection	PV-modules	India	
ITALY					
HSB Solomon	Cantore/Ginosa Marinella/Ginosa Stornara/Ginosa Gamascia/Galatina	Technical Due Diligence	4 PV-power plants with 9.31 MW; 4.37 MW 5.92 MW; 9.69 MW	Italy	2011
Fotovolt Italia S.r.l.	200 kWp PV plant	PV-Plant Inspection Performance Testing PV-Module Failure Analysis	PV-Plant Failure Analysis Crystalline PV-modules	Italy	2011
HSB Solomon	Cariina & Serenissima	Technical Due Diligence	2 PV-power plants	Italy	2011
HSB Solomon	Raggio di Puglia	Technical Due Diligence	72 MW PV-power plant	Italy	2011
Solaria	8 different locations	Construction Coordination Safety Coordination	PV-power plants	Italy	2010

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Tozzi Holding	Alfonshine in Ravenna	Final Test and Certification	35 MW PV-power plants	Italy	2010
	S. Alberto in Ravenna	Final Test and Certification	35 MW PV-power plants		2010
ENEL	11 PV-power plants in Puglia	Technical Due Diligence	11 PV-power plants	Italy	2008–2009
Sun Power	Montalto di Castro	Structural and Welding Check	PV-modules	Italy	2008
SPAIN					
Solomon Ass.	9 different locations	Technical Due Diligence	PV-power plants from 1.5 until 34.2 MW	Spain	2011
REC Solar	3 different projects	IR-Inspection	PV-modules	Spain	2009
Construcciones Crespo	1 PV-power plant	IR-Inspection	PV-modules	Spain	2008
Sun Power	Almuradiel Manzanares	Quality Assurance Construction Supervision Technical Assistance in Health and Safety Purchase Management	3 MW PV-power plant 6 MW PV-power plant	Spain	2007
Sun Power	Olivenza	Construction Supervision	18 MW PV-power plant	Spain	2007
Gahelios	Puertollano	Construction Supervision	PV-power plant	Spain	2007
Sunergy-INEL	Juneda Borges Blanques	Construction Management Quality Assurance Health and Safety Coordination Erection Supervision	PV-power plants	Spain	2006
Sun Power	Llerena Vegas de Poza Muñoz	Construction Management Quality Assurance Health and Safety Coordination Erection Supervision	PV-power plants	Spain	2006
Sun Power	Tinajeros	Purchase Management Construction Management Quality Assurance Health and Safety Coordination Erection Supervision	12 MW PV-power plant	Spain	2006

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Isofoton Guascor Foton Olivar Solar Baena S.L. Sky Global Solar S.A. INEL 2000 S.L. Masco Solar SL Fruits SECE Girona S.A. Energies Potencials S.L. Fotovoltaica del Peral S.L. Fotovoltaica del Cuco. S.L. SAEZ Solar de Barrax. S.L. Energia Solar Higuera S.L. Sejosa Gestión Y Tramitacò Capital Energy Centro Norte S.L.U. Gahelios S.L.U.	Several locations	Health and Safety Coordination	PV-power plants	Spain	2006–2008
Ferrocarriles Andaluces	Metro de Sevilla shops	Design Review	PV-power plant	Spain	2005

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UK					
Geni Capital	PV & Greenhouse & Wind Energy Projects	Technical Due Diligence	PV-plants	UK	2009
USA					
Esfera International	AAE Solar Project	Pre-Shipment Inspection & Load Inspection		USA	2010
ZIMBABWE					
Ansaldo	Several PV-plants	Visual QA Inspection Loading & Unloading Inspection Site Inspection Full Functional Test PV-plant		Zimbabwe	

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