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Large-Scale (Utility-Scale) Photovoltaic Power Plants 1980-2015, Literature Survey

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Introduction

INTRODUCTION

After the successful implementation of PV systems in space programmes, rich experiences were used for the realisation of terrestrial PV systems. The most common applications in the early beginnings of terrestrial PV applications included small rural PV power plants, PV systems for telecommunication purposes, PV systems for water supply and similar applications. Based on national and international PV R&D programmes, first large scale PV power plants (>100 kW) were constructed at the end of the 1970's and commissioned in the early 1980's. After the first successful projects, based on R&D projects in the USA and Europe, the second phase of market development driven by feed-in tariffs and initiated by the German 1,000 roofs solar programme followed in the 1990's. The next important milestone in market development was the German 100,000 roof programme, substituted later by the FIT law and used also as an example for similar programmes in Italy, Spain and in some other countries.

Over the last forty years, a lot of scientific papers and other publications related to large scale PV power plants were published. The main goal of the survey was the compilation of publication titles and other important references related to large-scale PV power plants that includes not only scientific papers but also other publications with scientific or significant technical relevance, thus targeting not only the scientific audience but also, at least to a minor extent, the broader technical community.

This literature survey includes publications and studies of more than 220 grid-connected PV projects worldwide, whereas the main motivation was to compile an overview or list of publications that can serve researches in field of large-scale grid connected PV systems as a time saving tool in case of searching for particular project related information.

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keywords: program overview
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keywords: program description
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keywords: project overview
projects: Mead, NE; Mt. Laguna Air Force Station, CA; Natural Bridges National Monument, UT; Newman Power Station, El Paso, TX; Oklahoma Center for Science and Arts, Oklahoma City, OK; Lovington Square Shopping Center, Lovington, NM; Beverly High School, Beverly, MA; Phoenix Sky Harbor International Airport, Phoenix, AZ; Dallas-Fort Worth airport, Dallas, TX; BDM Office Building, Albuquerque, NM; Wilcox Memorial Hospital, Kauai, HI; Sea World Park, Orlando, FL; Mississippi County Community College, Blytheville, AR; Georgetown University Campus Building, Washington, DC, USA
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projects: Mead, NE; Mt. Laguna Air Force Station, CA; Natural Bridges National Monument, UT; Dallas-Fort Worth airport, Dallas, TX; Phoenix Sky Harbor International Airport, Phoenix, AZ; Wilcox Memorial Hospital, Kauai, HI; Oklahoma Center for Science and Arts, Oklahoma City, OK; Beverly High School, Beverly, MA, USA

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keywords: project evaluation, alpine region
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keywords: project evaluation, alpine region
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keywords: project description, case study, concentrator

project: Plate River PV Pilot Plant, CO, USA
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keywords: project description, case study

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keywords: project description

project: Blackberry Farm, Park Aurora, Illinois, USA
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keywords: project overview

projects: Aghia Roumeli, Crete, Greece; Chevetogne, Belgium, Fota Island, Ireland; Giglio Island, Italy; Hoboken, Belgium; Kaw, French Guyana; Kythnos Island, Greece; Marchwood, UK; Mont Bouquet, Nice, France; Pellworm Island, Germany; Rondulinu, Corsica, France; Terschelling Island, the Netherlands; Tremiti Island, Verona, Vulcano Island, Italy
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keywords: project description, Florida Solar Energy Center, FSEC
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keywords: project evaluation, northern latitudes
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keywords: project overview

projects: Kythnos Island, Greece; Vulcano Island, Italy
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keywords: project evaluation

project: Carissa Plains, CA, USA
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keywords: project evaluation

project: Carissa Plains, CA, USA

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keywords: project description, project evaluation, case study, concentrator

project: 3M facility, Austin, Texas, USA
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keywords: project description
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keywords: project description, project evaluation, concentrator

project: 3M facility, Austin, Texas, USA
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keywords: preliminary study
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keywords: project description, project evaluation, concentrator

project: villages Al-Jubaylah, Al-Oyaynah, Al-Hijrah, Riyadh, Saudi Arabia
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keywords: project overview, project evaluation
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keywords: project description, case study

project: Matsushita Battery Industrial Company, Shizuoka Prefecture, Japan
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keywords: project evaluation, water disinfection, cold store

project: Fosso di Valle Ortona, Giglio Island, Italy
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keywords: project evaluation

project: Paomia-Rondolinu, Corsica, France

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project: Pellworm Island, Germany
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keywords: project description, project evaluation, case study
project: Pellworm Island, Germany
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projects: Davis, California; Carissa Plains, California, USA
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keywords: project description
project: Dairy Farm, Fota Island, Ireland
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keywords: project description, case study
project: Vulcano Island, Italy
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keywords: project description, battery storage, heat pump, Berlin, Germany
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keywords: preliminary study, design recommendations
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keywords: design recommendations, BoS
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keywords: project description, case study, sound barriers
project: PV sound barrier N13/A13 motorway, Domat-Ems, Switzerland
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keywords: project evaluation
project: Dallas-Forth Worth Airport, Dallas, Texas, USA
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keywords: project description, project evaluation, case study
project: Emilio Usaola Training School, Hidroeléctrica Española, San Agustín de Guadalix, Madrid
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keywords: project description, case study
project: Lugo, Hesperia, California, USA

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keywords: project evaluation, case study

project: Lugo, Hesperia, California, USA
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keywords: project evaluation, case study

project: Lugo, Hesperia, California, USA
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keywords: project description, case study, battery storage

project: Aghia Roumeli, Crete, Greece
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keywords: project overview, project description
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doi: <http://dx.doi.org/10.1109/PVSC.1988.105909>

keywords: project description

project: Oakland Community College, Auburn Hills, Michigan
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keywords: project description

project: Ginostra Village, Island Stromboli, Italy
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keywords: project description

project: Pellworm Island, Germany
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keywords: project description, project overview

project: Lugo, Hesperia, CA, Carrisa Plains, CA, USA
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keywords: project evaluation, concentrator

project: villages Al-Jubaylah, Al-Oyaynah, Al-Hijrah, Riyadh, Saudi Arabia; Sky Harbor Airport, Phoenix, Arizona, USA
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keywords: project description, project evaluation, case study, concentrator

project: villages Al-Jubaylah, Al-Oyaynah, Al-Hijrah, Riyadh, Saudi Arabia
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keywords: project description, project evaluation, economics, case study

project: Carrisa Plains, California, USA
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keywords: project description

project: King Abdulaziz International Airport, Jeddah, Saudi Arabia
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keywords: project evaluation, BoS

- **SOLERA, J. S.** 1985. 100 kWp Experimental PV Power Plant In: Sixth E.C. Photovoltaic Solar Energy Conference Proceedings, London, 15–19 April 1985, 504–508.

keywords: project description, case study

project: Emilio Usaola Training School, Hidroeléctrica Española, San Agustín de Guadalix, Madrid
- **SOMA, N., E. INADA, Y. EGUCHI, O. KURODA and K. NISHINOIRI.** 1989. Long Term Actual Operation of the Seawater Desalting by 25 kW Photovoltaic Cells on a Small Island. In: Clean and Safe Energy Forever, Proceedings of the 1989 Congress of the International Solar Energy Society, Kobe City, Japan, 4–8 September 1989, 307–311.

keywords: project description, project evaluation, case study
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keywords: project description, case study, water pumping

project: Zambelli, Italy
- **SOROKIN, A. and D. BRAGGION.** 1989. Zambelli Photovoltaic Pumping Station (70 kWp) - Optimization and Monitoring. In: Photovoltaic Power Generation, European Research and Development, Participating Contractors. Report EUR 12359, 157–158.

keywords: project evaluation, water pumping

project: Zambelli, Italy
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keywords: preliminary study
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keywords: project overview, literature survey
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keywords: project overview, literature survey
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keywords: project description, project evaluation, case study

project: Carissa Plains, California, USA
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keywords: project description, case study

project: Saijo City, Ehime Prefecture, Japan
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keywords: project description, case study

project: Rokko Island, Kobe, Japan
- **TER HORST, E. W., J. H. BOUMANS and K. BLOK.** 1988. The Terschelling PV/Wind after Five Years of Operation. In: Eighth E.C. Photovoltaic Solar Energy Conference Proceedings, Firenze, 9–13 May 1988, 275–279.

keywords: project description, project evaluation, case study

project: Terschelling Island, the Netherlands
- **TER HORST, E. W.** 1989. Power Supply to a Marine Training School, Terschelling Island, The Netherlands. In: Photovoltaic Power Generation. European Research and Development, Participating Contractors. Report EUR 12359, 151–152.

keywords: project description

project: Terschelling Island, the Netherlands
- **TREBLE, F. C.** 1985. The CEC Photovoltaic Pilot Projects. In: Sixth E.C. Photovoltaic Solar Energy Conference Proceedings, London, 15–19 April 1985, 474–480.

keywords: project overview, project evaluation

projects: Pellworm Island, Germany; Vulcano Island, Giglio Island, Tremiti Island, Italy; Marchwood, UK; Fota Island, Ireland; Terschelling Island, the Netherlands; Kythnos Island, Aghia Roumeli, Crete, Greece; Chevetogne, Belgium; Mont Boquet, Nice, Rondulinu Cargese, Corsica, France; Hoboken, Belgium

1985 - 1989

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keywords: project description

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keywords: project description, project evaluation, case study

project: Dairy Farm, Fota Island, Ireland

1990 - 1994

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- **GUIMARÃES, L. Ed.** 1992. Eleventh E.C. Photovoltaic Solar Energy Conference, Montreux, Switzerland, 12–16 October 1992. Brussels: Commission of the European Communities, Routledge, ISBN 371865380X.
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keywords: project description, economics, cost

project: Kerman City, California, USA
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keywords: project description, case study, project evaluation

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keywords: project evaluation

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keywords: project description, case study, project evaluation

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keywords: project evaluation

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keywords: project description, case study

project: ELIO 1, Vasto, Italy
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keywords: project description, case study, BoS

project: La Puebla de Montalban, Toledo, Spain

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doi: <http://dx.doi.org/10.1109/WCPEC.1994.520147>

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keywords: project description, case study

project: Loser PV power plant, alpine region, Austria
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keywords: project description, project evaluation, case study

project: PV sound barrier N13/A13 motorway, Domat-Ems, Chur, Switzerland
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keywords: project description, project evaluation, case study

project: PV sound barrier N13/A13 motorway, Domat-Ems, Chur, Switzerland
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keywords: project description, case study

project: Helsinki University of Technology, University of Turku experimental project, northern latitudes
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keywords: project description, project overview, concentrator

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keywords: project description, project overview, concentrator, PVUSA

projects: 3M facility, Austin, Texas; Davis, California, USA
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keywords: project description

projects: ELSA building, JRC, Ispra, Italy
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keywords: project description, case study, battery storage, desalination

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keywords: project description, case study

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keywords: project description, concentrator

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keywords: project description, case study

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keywords: project description, battery storage

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keywords: project description

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keywords: project evaluation, case study, economics, BIPV, facade

projects: La Puebla de Montalban, Toledo, Spain; Northumberland Building, University of Northumbria, Newcastle, UK
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keywords: project evaluation, battery storage

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keywords: project description, project evaluation, case study, roof mounted

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keywords: project description, case study, BIPV, facade, coloured solar cells

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keywords: project description, project evaluation, BIPV, facade

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keywords: project description, telecommunications

project: RAI, Pratomagno, Italy
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keywords: project description, application description, roof integrated, BIPV, railway, train station

project: train station Morges, Lake Geneva, Switzerland
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keywords: project description, project evaluation, case study, hybrid

project: Terschelling Island, the Netherlands
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keywords: markets, BIPV, economics

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keywords: project description, project evaluation, BIPV, facade

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keywords: project description

project: Pinnacles National Monument, California, USA
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keywords: project description

project: Elba Airport, Elba, Italy
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keywords: project description, case study, roof mounted

project: Munich Trade Fair, Munich, Germany
- **CUNOW, E., B. GIESLER and G. MAIER.** 1999. Megawatt-Solar-dach Neue Messe München - Erste Betriebserfahrungen und -ergebnisse - Systemtechnische Optimierung. In: 14. Symposium Photovoltaische Solarenergie, Staffelstein, 10–12 March 1999, 106–113.

keywords: project description, project evaluation, roof mounted, case study

project: Munich Trade Fair, Munich, Germany
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doi: <http://dx.doi.org/10.1109/PVSC.1997.654345>

keywords: project description, case study, project evaluation

project: University of Wyoming, Laramie, WY, USA
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keywords: project description, case study, distributed, roof mounted, BIPV

project: Nieuw Sloten, Amsterdam, the Netherlands
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keywords: project description, project evaluation, BIPV, roof integrated

project: Nuevo Horizonte Association's center for autistic children, Las Rozas, Madrid
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keywords: project description, BIPV

project: ADAC Office Building, Hannover-Laatzen, Hannover, Germany
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keywords: project description, case study, roof mounted

project: HELIOTRAM, Hannover-Leinhausen, Hannover, Germany

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keywords: project description, project evaluation, case study, BIPV, solar hydrogen
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keywords: project description, project evaluation, case study, solar hydrogen

project: Neunburg vorm Wald, Germany
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keywords: project description, project evaluation, case study, solar hydrogen

project: Neunburg vorm Wald, Germany
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keywords: project description

project: Hugh MacMillan Rehabilitation Centre Photovoltaic Project, Toronto, Ontario, Canada
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doi: <http://dx.doi.org/10.1109/PVSC.1997.654317>

keywords: project description, case study

project: US Army Yuma Proving Ground, AZ, USA
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keywords: project description, case study, solar hydrogen

project: Neunburg vorm Wald, Germany
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keywords: project description, case study

project: US Army Yuma Proving Ground, AZ, USA
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keywords: program overview
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keywords: project description, project evaluation, case study

project: Xcalak, Quintana Roo, Mexico
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doi: <http://dx.doi.org/10.1109/PVSC.1996.564388>

keywords: project evaluation, concentrator

project: STAR facility, Tempe, Arizona; Davis, California, USA
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keywords: project description, distributed, roof mounted

project: Olympic Solar Village, Sydney, Australia

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keywords: project description, PHOEBUS project

project: Research Centre Jülich, Central Library
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keywords: project description, project evaluation, case study, alpine region

project: Jungfrauoch, Switzerland
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keywords: project description, project evaluation, case study, alpine region

project: Jungfrauoch, Switzerland
- **HÄBERLIN, H. and C. BEUTLER.** 1995. Highest Grid-Connected PV Plant in the World at Jungfrauoch (3454 m): Excellent Performance in the First Two Years of Operation. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 969–972.

keywords: project description, project evaluation, case study, alpine region

project: Jungfrauoch, Switzerland
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keywords: project description, project evaluation, case study, alpine region

project: Jungfrauoch, Switzerland
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keywords: project proposal, the Netherlands
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keywords: project description, project evaluation, case study, BIPV, facade, thin-film

project: ELSA building, JRC, Ispra, Italy
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keywords: project description, project evaluation, case study, BIPV, facade, thin-film

project: ELSA building, JRC, Ispra, Italy
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keywords: project description, distributed, roof mounted

project: Solgaarden Kolding, Danmark
- **HELMKE, C., M. JANTSCH and H. A. OSSENBRINK.** 1995. The Large Amorphous Silicon PV Façade in Ispra, Experience and Results after One Year of Operation. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 695–698.

keywords: project description, project evaluation, case study, BIPV, facade, thin-film

project: ELSA building, JRC, Ispra, Italy
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keywords: project description, distributed, housing estate, BIPV, roof mounted, Germany

project: Marzahn housing estate, Berlin, Germany

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keywords: project overview
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keywords: project overview
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keywords: project overview, military applications

project: US Army Yuma Proving Ground, AZ, USA
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keywords: project description, roof mounted

project: Munich Trade Fair, Munich, Germany
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keywords: project description, project evaluation

project: Neurather See, Germany
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keywords: project description, project evaluation, case study

project: Kobern-Gondorf, Mosel Valley, Germany
- **ILICETO, A. and F. PALETTA.** 1998. Modular Photovoltaic Plants for LargeScale Power Generation. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2496–2500.

keywords: project overview, project evaluation

projects: Altanurra, Casaccia, Vulcano Island, Mandatoriccio, Delphos 1, Delphos 2, Carloforte, Lamezia, Vasto, Serre, Italy; Miyako, Saijo City, Japan; Ho Island, South Korea; Kg Marak Parak, Malaysia; St. Agustin, Toledo, Spain; Chur, Disentis, Giebenach, Magadino, Mt. Soleil, Switzerland
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doi: [http://dx.doi.org/10.1016/S0960-1481\(98\)00135-9](http://dx.doi.org/10.1016/S0960-1481(98)00135-9)

keywords: project description

project: Serre, Salerno, Italy
- **ISHIKAWA, N., A. KANNO, H. YAMASHITA, Y. HATANAKA and I. HIDE.** 1998. Installation Cases with Design Oriented PV Systems in Japan. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2501–2506.

keywords: project overview, project evaluation

project: Hooh High School, Kagoshima, Japan
- **ITO, T., N. ISHIKAWA and T. NII.** 1997. Architectural Evaluation of PV Glass Curtain Wall System. In: Fourteenth European Photovoltaic Solar Energy Conference Proceedings, Barcelona, Spain, 30 June – 4 July 1997, I, 690–693.

keywords: project description, BIPV, facade, transparent
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doi: <http://dx.doi.org/10.1109/PVSC.1996.564424>

keywords: project evaluation

projects: Kerman City, California; Davis, California, USA
- **JUST, O.** 1999. Bewertung der Betriebsergebnisse der PV-H2-Anlage PHOEBUS, Weiterentwicklung durch Bidirektionale Gleichstromwandler für Brennstoffzelle und Elektrolyse. Poster. In: 14. Symposium Photovoltaische Solarenergie, Staffelstein, 10–12 March 1999, 346–350.

keywords: project description, solar hydrogen

project: PHOEBUS project, Germany

- **KALAGIA, H., P. BALTAS and J. NIKOLETAOS.** 1998. New Photovoltaic System in the Greek Island of Sifnos. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2829–2832.

keywords: project description

project: Sifnos Island, Greece
- **KIEFER, W., Th. KÖRKELE, E. RÖSSLER, E. WIEMKEN and A. REINDERS.** 1995. 2250 PV-Roofs in Germany - Operating Results from Intensive Monitoring and Analysis through Numerical Modelling. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 575–579.

keywords: program overview, project evaluation, distributed, Germany
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keywords: project description, project evaluation, BIPV, facade

project: Parkhouse in Chemnitz, Germany
- **KOÏTA, Z. and A. M. DAHOUNENON.** 1997. Diaoulé and Ndiébel Photovoltaic Plants: 6 Years of Experiences. In: Fourteenth European Photovoltaic Solar Energy Conference Proceedings, Barcelona, Spain, 30 June – 4 July 1997, II, 1665–1670.

keywords: project description, project evaluation

projects: villages Diaoulé, Ndiébel, Senegal
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keywords: project description, project evaluation

projects: villages Diaoulé, Ndiébel, Senegal
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keywords: project description, project evaluation

projects: village Diaoulé, Senegal
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keywords: preliminary study
- **LAUKAMP, H.** 1995. Eine "Structural-Glazing" Photovoltaik Fassade: Das "Solarzentrum Freiburg". In: 10. Symposium Photovoltaische Solarenergie, Staffelstein, 15–17 March 1995, 151–160.

keywords: project description, BIPV, facade

project: Solarzentrum Freiburg, Freiburg, Germany
- **LEPLEY, T., B. HAMMOND and A. HARRIS.** 1997. Evaluation of Tracking Flat Plate and Concentrator PV Systems. In: Conference Record of the Twenty Sixth IEEE Photovoltaic Specialists Conference, Anaheim, CA, USA, 29 September – 3 October 1997, 1257–1260.

doi: <http://dx.doi.org/10.1109/PVSC.1997.654316>

keywords: project evaluation, concentrator, Arizona Public Service Company
- **LEPLEY, T. and P. NATH.** 1997. Photovoltaic Covered-Parking Systems Using Lightweight, Thin-Film PV. In: Conference Record of the Twenty Sixth IEEE Photovoltaic Specialists Conference, Anaheim, CA, USA, 29 September – 3 October 1997, 1305–1308.

doi: <http://dx.doi.org/10.1109/PVSC.1997.654328>

keywords: project description, car ports
- **LEUNG, S.** 1998. Canadian Coast Guard Status Report of Photovoltaic Applications. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 3051–3054.

keywords: application overview, telecommunication, Canada
- **LIBBY, L.** 1997. Austin's Solar Explorer Program. In: Proceedings of the 1997 American Solar Energy Society Annual Conference, Washington, DC, 25–30 April 1997, 161–163.

keywords: program overview
- **LLORET, A., O. ACEVES, J. P. BERRY, A. MARTINEZ and L. SABATA.** 1998. Large Grid Connected PV System Integrated in Two Buildings of the Barcelona Municipality. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2659–2662.

keywords: project description, case study, BIPV, facade, coloured solar cells

project: Pompeu Fabra, Library of Mataró, Barcelona, Spain

- **LLORET, A., O. ACEVES, J. P. BERRY, A. MARTINEZ, L. SABATA and R. D. W. SCOTT.** 1998. The Construction of a Grid-Connected Coloured PV Façade. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2663–2665.

keywords: project description, case study, BIPV, facade, coloured solar cells

project: Pompeu Fabra, Library of Mataró, Barcelona, Spain
- **LLORET, A., O. ACEVES, J. ANDREU, J. MERTEN, J. PUIGDOLLERS, M. CHANTANT, U. EICKERT and L. SABATA.** 1997. Lessons Learned in the Electrical System Design, Installation and Operation of the Matáro Public Library. In: Fourteenth European Photovoltaic Solar Energy Conference Proceedings, Barcelona, Spain, 30 June – 4 July 1997, II, 1659–1664.

keywords: project description, case study, BIPV, facade, coloured solar cells

project: Pompeu Fabra, Library of Mataró, Barcelona, Spain
- **LLORET, A., J. ANDREU, J. MERTEN, O. ACEVES, L. SABATA, F. SEN, J. PUIGDOLLERS, C. PERSON, M. CHANTANT and J. M. SERVAN.** 1995. The Matáro Public Library: A 53 kWp Grid Connected Building with Integrated PV-Thermal Multifunctional Modules. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 490–493.

keywords: project description, BIPV, facade, coloured solar cells

project: Pompeu Fabra, Library of Mataró, Barcelona, Spain
- **LLORET, A., J. ANDREU, J. MERTEN, J. PUIGDOLLERS, O. ACEVES, L. SABATA, M. CHANTANT and U. EICKERT.** 1998. Large Grid-Connected Hybrid PV System Integrated in a Public Building. In: Progress in Photovoltaics: Research and Applications, 6, 6, 453–464.

doi: 10.1002/(SICI)1099-159X(199811/12)6:6<453::AID-PIP234>3.0.CO;2-P

keywords: project description, case study, BIPV, facade, coloured solar cells

project: Pompeu Fabra, Library of Mataró, Barcelona, Spain
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keywords: project description, case study, roof mounted

project: Georgia Tech Aquatic Center, Atlanta, Georgia, USA
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keywords: project description, project evaluation, tracker

project: La Puebla de Montalban, Toledo, Spain
- **LUQUE, A., G. SALA, J. C. ARBOIRO, T. BRUTON, D. CUNNINGHAM and N. MASON.** 1997. Some Results of the EUCLIDES Photovoltaic Concentrator Prototype. In: Progress in Photovoltaics: Research and Applications, 5, 3, 195–212.

doi: 10.1002/(SICI)1099-159X(199705/06)5:3<195::AID-PIP166>3.0.CO;2-J

keywords: project description, project evaluation, concentrator

project: EUCLIDES, Canary Islands, Spain
- **MAIER, G.** 1999. Die 1 MW-Photovoltaikanlage Neue Messe München. In: 14. Symposium Photovoltaische Solarenergie, Staffelstein, 10–12 March 1999, 77–78.

keywords: project description, case study, roof mounted

project: Munich Trade Fair, Munich, Germany
- **MENCKE, D., B. DECKER, F. WERWITZKI, D. HUSEMANN, M. HINTZ, U. HUSEMANN, E. KINDEREIT and P. ZICKEL.** 1998. 55 kWp PV Façade and 23 kWp Roof PV Generator at the ADAC Administration Building. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2678–2681.

keywords: project description, case study, BIPV

project: ADAC Office Building, Hannover-Laatzten, Hannover, Germany
- **MOSCHELLA, U. and W. BERGNA.** 1995. 1560 kW Hybrid (PV+Wind) Power Plant at Carloforte. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 1045–1048.

keywords: project description, case study, hybrid

project: Carloforte, Sardinia, Italy
- **MUKADAM, K., F. CHENLO, M. C. ALONSO, M. A. ALONSO-ABELLA and P. VALERA.** 1995. Analytical Monitoring Results of the 1 MWp Toledo PV Plant. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 755–758.

keywords: project evaluation

project: La Puebla de Montalban, Toledo, Spain

- **MUKADAM, K., F. CHENLO, L. REBOLLO, A. MATAS, P. VALERA and P. GARCIA.** 1997. Three Years of Operation and Experience of the 1 MW Photovoltaic Plant; Toledo PV Spain. In: Fourteenth European Photovoltaic Solar Energy Conference Proceedings, Barcelona, Spain, 30 June – 4 July 1997, I, 705–708.

keywords: project description, project evaluation, case study

project: La Puebla de Montalban, Toledo, Spain
- **NORDMANN, T., T. BÄHLER and A. GOETZBERGER.** 1995. Photovoltaik-Schallschutz-Integration: Neue Konzepte und erste Messresultate. In: 10. Symposium Photovoltaische Solarenergie, Staffelstein, 15–17 March 1995, 173–177.

keywords: project evaluation, sound barriers

project: PV sound barrier N13/A13 motorway, Domat-Ems, Chur, Switzerland
- **NORDMANN, T. and A. GOETZBERGER.** 1995. Motorway Sound Barriers: The Bifacial North/South Concept and the Potential in Germany. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1995, I, 707–709.

keywords: preliminary study, sound barriers

project: PV sound barrier N13/A13 motorway, Domat-Ems, Chur, Switzerland
- **NORDMANN, Th., A. FRÖLICH and L. CLAVADTSCHER.** 1997. Eight Years of Operation Experience with Two 100 kWp PV Soundbarriers. In: Fourteenth European Photovoltaic Solar Energy Conference Proceedings, Barcelona, Spain, 30 June – 4 July 1997, I, 1124–1127.

keywords: project evaluation, case study

project: PV sound barriers, N13/A13 motorway, Domat-Ems, Chur, Graubünden; N2 motorway, Giebenach, Switzerland
- **NORDMANN, Th., K. REICHE, G. KLEISS, A. FRÖLICH and A. GOETZBERGER.** 1998. Integrated PV Noise Barriers: Six Innovative 10 kWp Testing Facilities - A German/Swiss Technological and Economical Success Story! In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 2486–2491.

keywords: project overview, case study

project: PV sound barriers, A1 motorway, Wallisellen, Switzerland, A96 motorway, Munich Germany
- **NORDMANN, Th., A. FRÖLICH, K. REICHE, G. KLEISS and A. GOETZBERGER.** 1998. Sechs 10 kWp Testanlagen für integrierten PV-Schallschutz. Erste Betriebserfahrungen und Meßresultate aus Deutschland und der Schweiz. In: 13. Symposium Photovoltaische Solarenergie, Staffelstein, 11–13 March 1998, 175–180.

keywords: project description, project overview, case study, sound barriers, Switzerland, Germany

project: PV sound barriers, A96 motorway, Walchstadt am Ammersee, Germany
- **O'NEILL, M. J. and A. J. McDANAL.** 1996. The 25 kilowatt Solar-Row: a Building Block for Utility-Scale Concentrator Systems. In: Conference Record of the Twenty Fifth IEEE Photovoltaic Specialists Conference, Anaheim, CA, USA, 13–17 May 1996, 1529–1532.

doi: <http://dx.doi.org/10.1109/PVSC.1996.564428>

keywords: project description, concentrator

projects: Ft. Davis, Texas, USA
- **OSBORN, D. E. and D. E. COLLIER.** 1996. Utility grid-Connected Photovoltaic Distributed Power Systems. In: Proceedings of Solar '96 - the 1996 American Solar Energy Society Annual Conference, Asheville, NC, 13–18 April 1996, 338–346.

keywords: project overview, SMUD
- **OSBORN, D.** 1997. Commercialization of Utility PV Distributed PV Power Systems. In: Proceedings of the 1997 American Solar Energy Society Annual Conference, Washington, DC, 25–30 April 1997, 153–159.

keywords: project overview, SMUD, PVUSA
- **PEARSALL, N. M., A. R. WILSHAW, M. SHAW, A. PARR, F. CRICK and R. HILL.** 1995. Installation and Operation of the Northumberland Building Photovoltaic Facade. In: Thirteenth European Photovoltaic Solar Energy Conference Proceedings, Nice, France, 23–27 October 1997, II, 1800–1803.

keywords: project description, BIPV, facade

projects: University of Northumbria
- **PANYEKEOW, S.** 1998. PV System for Aqua Farm Applications. In: 15th European PV Solar Energy Conference, 27th US IEEE Photovoltaics Specialists Conference, 10th Asia/Pacific PV Science and Engineering Conference Proceedings, Vienna, Austria, 6–10 July 1998, III, 3047–3050.

keywords: project description, application description

project: Burium province, Surat-Thani province, Thailand
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keywords: project description, project evaluation, case study

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keywords: project description, distributed, BIPV, roof integrated

projects: Solarsiedlung Hettstadt, Germany; Solarsiedlung Auf dem Krüge, Bremen, Germany; Amersfoort, the Netherlands; Solarsiedlung Gelsenkirchen, Germany

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keywords: project overview

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keywords: project evaluation, distributed

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keywords: project description, case study, car port

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keywords: project description, case study

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keywords: project description, case study

project: UNIVER Project, Jaén University Campus, Jaén, Spain
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keywords: project description, case study

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keywords: project description, case study

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keywords: project description

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keywords: project description

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keywords: project description

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keywords: project description

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keywords: project description, distributed

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keywords: project description, BIPV

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keywords: project description, BIPV

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keywords: project description, BIPV
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keywords: project description, shading

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keywords: project description, project evaluation
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keywords: project evaluation

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keywords: project description, BIPV, roof integrated, facade integrated

project: Akademie-du-Mont-Cenis, Herne, Germany
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keywords: preliminary study, sound barriers
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keywords: project description, BIPV, roof integrated, facade integrated

project: Lehrter Bahnhof, Berlin, Germany
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doi: <http://dx.doi.org/10.1109/PVSC.2002.1190945>

keywords: project description, project evaluation

project: Oberlin College's Adam Joseph Lewis Center, Oberlin, Ohio, USA

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keywords: project description

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keywords: project description, concentrator

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keywords: project overview

project: Olympic Solar Village, Sydney; Kogarah, Sydney, Australia
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keywords: project overview
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keywords: project description, BIPV, roof integrated, facade integrated

project: Akademie-du-Mont-Cenis, Herne, Germany
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keywords: project description, project evaluation

project: Daimler-Benz, Mercedes, Bad Canstatt, Stuttgart, Germany
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keywords: project description, education

project: Munich Trade Fair, Munich, Germany
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keywords: project evaluation, roof mounted, BIPV, roof integrated, facade integrated

project: Akademie-du-Mont-Cenis, Herne; Munich Trade Fair, Munich; Dainler-Benz, Mercedes, Bad Canstatt, Stuttgart, Germany
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keywords: project description

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keywords: project description, roof mounted

project: Bad Oeynhausen, Germany
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keywords: project description, case study

project: Kythnos Island, Greece
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keywords: project description, case study

project: Sanlúcar la Mayor, Sevilla, Spain

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keywords: project description, case study

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keywords: project description

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keywords: project description

projects: Amersfoort Nieuwland, the Netherlands
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keywords: project description, distributed, housing estate, BIPV

project: Amersfoort, the Netherlands
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keywords: project description

project: Church St. Konrad, Linz, Austria
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keywords: project description, BIPV

project: Museum of fine Arts, Leipzig, Germany
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keywords: project description

project: Andou, Tibet, China
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keywords: project description

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keywords: project description, BIPV
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keywords: project description, BIPV

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keywords: project description

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keywords: project description

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keywords: project description, project evaluation

projects: Solarpark Lubmin, Solarpark Nentzelsrode, Solarpark Rote Jahne, Solarpark Leipziger Land, Solarpark Borna, Solarpark Meerane I, Solarpark Kappel-Grafenhausen, Solarpark Waltenhofen II, Solarpark Bad Grönenbach, Germany
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keywords: project evaluation, trackers

projects: Solarpark Borna, Solarpark Penig, Germany; Huerta Solar Alqueria, Huerta Solar Ventanas, Huerta Solar Guadix, Spain
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keywords: project description

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doi: <http://dx.doi.org/10.1109/PVSC.2013.6744952>

keywords: preliminary study
- **KOMOTO, K., J. S. SONG, N. ENEBISH and H. XU.** 2013. Very Large Scale PV Systems for North-East Asia: Potential of VLS-PV Super-Grid in the Mongolian Gobi Desert. In: 28th European Photovoltaic Solar Energy Conference Proceedings, Paris, France, 30 September–4 October 2013, 4655–4657.

doi: <http://dx.doi.org/10.4229/28thEUPVSEC2013-6BV.8.12>

keywords: preliminary study
- **KONISHI, H.** 2013. A study of large-scale PV system design considering PV generation distribution. In: Conference Record of the 39th IEEE Photovoltaic Specialists Conference, Tampa, FL, USA, 2315–2319.

doi: <http://dx.doi.org/10.1109/PVSC.2013.6744940>

keywords: preliminary study
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doi: <http://dx.doi.org/10.4229/28thEUPVSEC2013-5BV.7.40>

keywords: project evaluation

projects: Hokuto Mega-Solar Project, Yamanashi Prefecture, Japan
- **KONISHI, H., T. IWATO and M. KUDOU.** 2010. Development of Large-Scale Power Conditioner in Hokuto Mega-Solar System. In: 25th European Photovoltaic Solar Energy Conference Proceedings, Valencia, Spain, 6–10 September 2010, 4823–4827.

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keywords: project description

projects: Hokuto Mega-Solar Project, Yamanashi Prefecture, Japan
- **KONISHI, H., T. IWATO and M. KUDOU.** 2011. Evaluation of Large-Scale Power Conditioner in Hokuto Mega-Solar System. In: 26th European Photovoltaic Solar Energy Conference Proceedings, Hamburg, Germany, 5–9 September 2011, 3908–3912.

doi: <http://dx.doi.org/10.4229/26thEUPVSEC2011-5AO.5.5>

keywords: project evaluation

projects: Wakkanai, Mega-Solar Demonstration Project, Wakkanai, Japan
- **KUWAYAMA, A., Y. SAITO, N. MATSUNO, T. ITO, R. HARA, H. KITA, N. MATSUOKA and K. TAIRA.** 2010. Grid Connected 5MW PV Plant with Battery Storage System: Results from Four Years Operation of Wakkanai Mega Solar Project. In: 25th European Photovoltaic Solar Energy Conference Proceedings, Valencia, Spain, 6–10 September 2010, 5038–5042.

doi: <http://dx.doi.org/10.4229/25thEUPVSEC2010-5BV.4.27>

keywords: project evaluation

projects: Wakkanai, Mega-Solar Demonstration Project, Wakkanai, Japan
- **LI, H., F. LU, Y. ZHAI, S. SANG, Y. ZHANG and S. WANG.** 2014. Evaluation of the Performance of Large Scale PV Plant in West China. In: 6th World Conference on Photovoltaic Energy Conversion, Proceedings of the International Conference, Kyoto, Japan, 23–27 November 2014.

keywords: project description, project evaluation
- **MALLINENI, J., B. KNISELY, K. YEDIDI, S. TATAPUDI, J. KUITCHE and G. TAMIZHMANI.** 2014. Evaluation of 12-year-old PV power plant in hot-dry desert climate: Potential use of field failure metrics for financial risk calculation. In: Conference Record of the 40th IEEE Photovoltaic Specialists Conference, Denver, CO, USA, 8–13 June 2014, 3366–3371.

doi: <http://dx.doi.org/10.1109/PVSC.2014.6925656>

keywords: project evaluation
- **MALLINENI, J., K. YEDIDI, S. SHRESTHA, B. KNISELY, S. TATAPUDI, J. KUITCHE and G. TAMIZHMANI.** 2014. Soiling losses of utility-scale PV systems in hot-dry desert climates: Results from four 4–16 years old power plants. In: Conference Record of the 40th IEEE Photovoltaic Specialists Conference, Denver, CO, USA, 8–13 June 2014, 3197–3200.

doi: <http://dx.doi.org/10.1109/PVSC.2014.6925615>

keywords: project evaluation

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url: <http://pennwell.websds.net/2014/kl/rewa/papers/t1s803-paper.pdf> (28 April 2016)

keywords: project description

project: Tambol Huawai, Amphur Takli, Nakornsawan, Thailand
- **MARINOPOULOS, A., P. BAKAS and K. PAPASTERGIU.** 2012. Overview of Alternative System Configurations for Very Large Scale PV Power Plants. In: 27th European Photovoltaic Solar Energy Conference Proceedings, Frankfurt, Germany, 24-28 September 2012, 3805-3810.

doi: <http://dx.doi.org/10.4229/27thEUPVSEC2012-5CO.8.1>

keywords: project evaluation

projects: Pocking, Germany; Totana, Spain; Tucson, Arizona, USA
- **MEYER, T.** 2013. Größtes PV-Kraftwerk Süd- und Mittelamerikas Herausforderungen und Chancen von Großanlagen in Wüstenregionen. In: 28. Symposium Photovoltaische Solarenergie, Bad Staffelstein, 6-8 March 2013, 44-45.

keywords: project description
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doi: <http://dx.doi.org/10.1109/PVSC.2013.6744303>

keywords: project evaluation
- **MONTES, C., B. GONZÁLEZ-DIAZ, A. LINARES, E. LLARENA, O. GONZÁLEZ, D. MOLINA, A. PIO, M. FRIEND, M., CENDAGORTA-GALARZA, J. P. DIAZ and F. J. EXPÓSITO.** 2010. Effects of the Saharan Dust Hazes in the Performance of Multi-MW PV Grid-Connected Facilities in the Canary Islands (Spain). In: 25th European Photovoltaic Solar Energy Conference Proceedings, Valencia, Spain, 6-10 September 2010, 5046-5049.

doi: <http://dx.doi.org/10.4229/25thEUPVSEC2010-5BV.4.29>

keywords: project evaluation

projects: Finca Roja, Arico, Canary Islands, Spain
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doi: <http://dx.doi.org/10.1109/PVSC.2011.6186433>

keywords: project evaluation
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keywords: preliminary study
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keywords: project evaluation
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keywords: project evaluation

project: Phoenix, Arizona, USA
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doi: <http://dx.doi.org/10.1109/PVSC.2011.6186435>

keywords: project evaluation

project: Blythe, California, USA
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doi: <http://dx.doi.org/10.1109/PVSC.2011.6186344>

keywords: project description, project evaluation

project: Sarnia, Ontario, Canada
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keywords: project evaluation

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doi: <http://dx.doi.org/10.4229/27thEUPVSEC2012-5AV.1.50>

keywords: project evaluation
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doi: <http://dx.doi.org/10.4229/25thEUPVSEC2010-5BV.4.13>

keywords: project evaluation
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keywords: project evaluation

project: Solarpark Waldpolenz, Brandis, Germany
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doi: <http://dx.doi.org/10.1109/PVSC.2010.5617015>

keywords: project evaluation

project: TK Davis Justice Center, Lee County, Alabama, USA
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keywords: project evaluation

project: University Autonomous Metropolitan, Mexico City, Mexico
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doi: <http://dx.doi.org/10.1109/PVSC.2010.5617021>

keywords: project evaluation
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doi: <http://dx.doi.org/10.1109/PVSC.2011.6186637>

keywords: project evaluation
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keywords: project evaluation, economics

project: Munich Trade Fair, Parcdeck, Munich, Germany
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keywords: project description, project evaluation

project: Arizona State University, Tempe, Arizona, USA
- **SIRISAMPHANWONG, C., N. KETJOY, K. MANSIRI and R. NGONMEESRI.** 2014. Techno-economic of Commercial PV Power Plant: Case Study 3 MWp CIS PV Power Plant in Thailand. In: 6th World Conference on Photovoltaic Energy Conversion, Proceedings of the International Conference, Kyoto, Japan, 23–27 November 2014.

keywords: project description, project evaluation
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doi: <http://dx.doi.org/10.1109/PVSC.2014.6925313>

keywords: project description, project evaluation

project: Jayapura, Papua, Indonesia
- **VELDHUIS, H., A. H. M. E. REINDERS, F. J. A. M. VAN HOUTEN.** 2012. Comparison of BIPV Simulation with Monitored Data: The Case of a 35 kWp PV System in Jayapura, Papua, Indonesia. In: 27th European Photovoltaic Solar Energy Conference Proceedings, Frankfurt, Germany, 24–28 September 2012, 3971–3973.

doi: <http://dx.doi.org/10.4229/27thEUPVSEC2012-5AV.1.30>

keywords: project description, project evaluation

project: Jayapura, Papua, Indonesia

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doi: <http://dx.doi.org/10.4229/25thEUPVSEC2010-4DO.11.6>

keywords: project description, project evaluation

project: Ouagadougou, Burkina Faso

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doi: <http://dx.doi.org/10.4229/26thEUPVSEC2011-5CO.11.4>

keywords: project description

project: Interporto Padua, Italy

- **WESTBROOK, O. W. and F. D. COLLINS.** 2013. Energy model validation for large-scale photovoltaic systems. In: Conference Record of the 39th IEEE Photovoltaic Specialists Conference, Tampa, FL, USA, 16–21 June 2013, 830–835.

doi: <http://dx.doi.org/10.1109/PVSC.2013.6744274>

keywords: preliminary study

- **WILK, H.** 2010. 1 MW Sonnenkraftwerk Oberösterreich. Poster. In: 25. Symposium Photovoltaische Solarenergie, Bad Staffelstein, 3–5 March 2010, 68–73.

keywords: project description

project: Eberstalzell, Wels-Land, Austria

- **WILK, H.** 2010. 66 kW Photovoltaikfassade des Power Tower, dem Aktiv-Bürohochhaus der Energie AG Oberösterreich. In: 25. Symposium Photovoltaische Solarenergie, Bad Staffelstein, 3–5 March 2010, 376–381.

keywords: project description

project: Power Tower Energie AG, Linz, Austria

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doi: <http://dx.doi.org/10.1109/PVSC.2011.6186448>

keywords: preliminary study

- **WOYTE, A., C. DIERCKXSENS and K. de BRABANDERE.** 2013. Photovoltaics in power systems: Legends, challenges and solutions. In: Conference Record of the 39th IEEE Photovoltaic Specialists Conference, Tampa, FL, USA, 16–21 June 2013, 247–253.

doi: <http://dx.doi.org/10.1109/PVSC.2013.6744140>

keywords: preliminary study, project evaluation

GIS Databases

- **Institut für Technikfolgenabschätzung und Systemanalyse (ITAS),** Karlsruher Institut für Technologie (KIT). Database includes MW-ranged PV power plants worldwide up to 2008 with focus on European countries. Database established by Ulrich Dewald, PhD, during his PhD study on RWTH Aachen. Karlsruhe: ITAS, contact person Ulrich Dewald, PhD.

url: <https://www.itas.kit.edu/>

- **LaTene.** 2014. Commercial database includes large scale PV power plants in EU. Dublin: LaTene.

url: <http://latenemaps.com/>

- **Solargis.** 2016. Database includes large scale PV power plants in Slovak Republic. Bratislava: Solargis.

url: <http://www.solargis.com/>

Other Databases

- **IEA PVPS Task 13.** Performance Database web application.

url: <http://77.245.18.90/> (10 June 2016)

- **PVdatabase.** Building integrated and urban photovoltaic solar energy projects and products.

url: <http://www.pvdatabase.org/>

IEA PVPS - Working Tasks

- **IEA PVPS Task 6** - Design and operation of modular photovoltaic plants for large scale power generation.

url: <http://www.iea-pvps.org>

- **IEA PVPS Task 8** - Study on very large scale photovoltaic power generation systems.

url: <http://www.iea-pvps.org>

- **IEA PVPS Task 13** - Performance and Reliability of Photovoltaic Systems.

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Appendix

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doi: <http://dx.doi.org/10.1002/pip.612>
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Appendix

PROCEEDINGS – Some Other ANZSES Annual Conferences

- **ISES.** 1969. ISES Conference, 7th ANZSES Conference, Melbourne, Australia.
- **ANZSES.** 1970. 8th ANZSES Conference, Sydney, Australia.
- **ANZSES.** 1971. 9th ANZSES Conference, Highett, Melbourne, Australia.
- **ANZSES.** 1972. 10th ANZSES Conference, Adelaide, Australia.
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- **ANZSES.** 1975. 13th ANZSES Conference, Canberra, Australia.
- **ANZSES.** 1976. 14th ANZSES Conference, Melbourne, Australia.
- **ANZSES.** 1977. 15th ANZSES Conference, Brisbane, Australia.
- **ANZSES.** 1978. 16th ANZSES Conference, Melbourne, Australia.
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Appendix

IMPORTANT PROJECTS included in the literature survey (selection)

1977

Agricultural Application, Mead, NE, USA, 25 kW, 1977

1979

Bryan, OH, USA 15 kW, 1979

Mt. Laguna Air Force Station, Mt. Laguna, CA, USA 60 kW, 1979

1980

Newman Power Station, El Paso, TX, USA, 20 kW, 1980

King Abdulaziz International Airport, Jeddah, Saudi Arabia, 63 kW, 1980

Natural Bridges National Monument, UT, USA, 100 kW, 1980

Mississippi County Community College, Blytheville, AR, USA, 250 kW, 1980

1981

Dallas-Forth Worth Airport, Dallas TX, USA, 27 kW, 1981

Wilcox Memorial Hospital, Kauai, HI, USA, 35 kW, 1981

BDM Office Building, Albuquerque, NM, USA, 47 (50?) kW, 1981

Lovington Square Shopping Center, Lovington, NM, USA, 100 kW, 1981

Beverly High School, Beverly, MA, USA, 100 kW, 1981

Sea World Park, Orlando, FL, USA, 110 kW, 1981

Oklahoma Center for Science and Arts, Oklahoma City, OK, USA, 150 kW, 1981

Phoenix Sky Harbor International Airport, Phoenix, AZ, USA, 225 kW, 1981

Villages Al-Jubaylah, Al-Oyaynah, Al-Hijrah, Saudi Arabia, 350 kW, 1981

1982

Tiso 15, Locarno, Switzerland, 15 kW (10 kW + 5 kW), 1982

Aghia Roumeli, Crete, Greece, 50 kW, 1982

Solarex facility, Frederick, MD, USA, 200 kW, 1982

Lugo, Hesperia, CA, USA, 1 MW, 1982

1983

Hoboken, Antwerp, Belgium, 30 kW, 1983

Marchwood, Southampton, UK, 30 kW, 1983

Kaw, French Guayana, 35 kW, 1983

Fosso di Valle Ortona, Giglio Island, Italy, 40 kW (15 kW + 30 kW), 1983

Rondulinu, Paomia project, Corsica, France, 44 kW, 1983

Mont Bouquet, Alès, France, 50 kW, 1983

Nice Airport, Nice, France, 50 kW, 1983

Fota Island, Cork, Ireland, 50 kW, 1983

Terschelling Island, the Netherlands, 50 kW, 1983

Chevetogne, Belgium, 63 kW, 1983

Alicudi Island, Italy, 80 kW, 1983

Kythnos Island, Greece, 100 kW, 1983

Vester Bøgebjerg, Danmark, 100 kW, 1983

Pellworm Island, Germany, 300 kW, 1983

1984

Adrano, Catania, Italy, 10 kW, 1984

Tremiti Islands, Island of San Nicola, Italy, 65 kW, 1984

Vulcano Island, 80 kW, 1984

Matsushita Battery Industrial Company, Shizuoka Prefecture, Japan, 100 kW, 1984

SMUDPV1, Rancho Seco 1, Rancho Seco, CA, USA, 1 MW, 1984

Carrisa Plains, CA, USA, 6,5 MW, 1984

1985

English school in Kuwait, Kuwait, 24,2 kW, 1985

Zambelli, Lesinia mountain area, Verona Italy, 70 kW, 1985

1986

Emilio Usaola Training School, Hidroeléctrica Española, San Agustín de Guadalix, Madrid, 100 kW, 1986

Delphos 1, Foggia, Italy, 308 kW, 1986

SMUDPV2, Rancho Seco 2, Rancho Seco, CA, USA, 1 MW, 1986

Saijo City, Japan, 1,1 MW, 1986

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1987

Gavdos Island, Greece, 20 kW, 1987

1988

Platte River PV Pilot Plant, USA, 10 kW, 1988

Varnons, Alabama, USA, 75 kW, 1988*

Rokko Island, Japan, 200 kW, 1988

Kobern Gondorf, Mosel Valley, Germany, 340 kW, 1988

1989

Brunnenbach, Bavaria, Germany, 10 kW, 1989

Diaoulé, Senegal, 21,5 kW, 1989

PV sound barrier N13/A13 motorway, Domat-Ems, Switzerland, 104 kW, 1989

1990

Ndiébel, Senegal, 19,8 kW, 1989

Neunburg vorm Wald, Germany, 276 kW, 1990

3M facility, Austin, TX, USA, 300 kW, 1990

1991

Lipari Island, Italy, 63 kW, 1991

ENEA Casaccia Center, Casaccia, Italy, 100 kW, 1991

Neurather See, Germany, 330 kW, 1991

1992

Xcalak, Mexico, 11,2 kW, 1992

Marzili Funicular Railway, Berne, Switzerland, 24 kW, 1992

PV sound barrier, A1 motorway, Seewalchen, Austria, 40 kW, 1992

Ginostra Village, Stromboli Island, Italy, 100 kW, 1992

MBB Magadino, Locarno, Switzerland, 103 kW, 1992

Delphos 2, Foggia, Italy, 300 kW, 1992

Davis, CA, USA, 400 kW, 1992

Mont-Soleil, Switzerland, 560 kW, 1992

1993

Jungfrauoch, Switzerland, 1,1 kW, 1993

Burium province, Thailand, 2,4 kW, 1993

Bayerisches Staatsministerium fuer Landesentwicklung und Umweltfragen (BStMLU), Munich, 51 kW, 1993

Park & Ride, Neufeld, Bern, Switzerland, 80 kW, 1993

SMUD Hedge Substation, California, USA, 258 kW, 1993

1994

Solarzentrum Freiburg, Germany, 18,5 kW, 1994*

IES, Instituto de Energía Solar Building, Madrid, Spain, 13,5 kW, 1994

ELSA building, JRC, Ispra, Italy, 30 kW, 1994

Kirnitzschtalbahn, Bad Schandau, Saxony, Germany, 40 kW, 1994

Northumberland Building, University of Northumbria, Newcastle, UK Newcastle, UK, 40kW, 1994

Widderstall V-Trough Project, Widderstall, Germany, 40 kW, 1994

La Garrotxa, Catalonia, Spain, 51 kW, 1993–1994

Kerman City, CA, USA, 500 kW, 1994

Miyako, Japan, 750 kW, 1994

ELIO1, Vasto, Italy, 1 MW, 1994

La Puebla de Montalban, Toledo, Spain, 1 MW, 1994

1995

National Environmental Education Centre De Kleine Aarde, Boxtel, the Netherlands, 7,96 kW, 1995

Parkhouse in Chemnitz, Germany, 10 kW, 1995

BIPV facade, Kelag Office Building, Klagenfurt, Austria, 10,2 kW, 1995

Train Station Charlottenburg, Berlin, Germany, 35 kW, 1995*

PV sound barrier, A6 and A620 motorways, Saarbrücken-Güdingen, Saarland, Germany, 40 kW + 20 kW, 1995

Alta Nura, Italy, 100 kW, 1995

PV sound barrier, A27 motorway, Utrecht, the Netherlands, 52 kW, 1995

PV sound barrier N2 motorway, Giebenach, Switzerland, 104 kW, 1995

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1996

Pinnacles National Monument, California, USA, 10 kW, 1996
University of Wyoming, Laramie, WY, USA, 50 kW, 1996
Pompeu Fabra, Library of Mataró, Barcelona, Spain, 53 kW, 1996
Nuevo Horizonte Association's center for autistic children, Las Rozas, Madrid, 54 kW, 1996
Bürgerbeteiligungsanlage Konstanz, Germany, 58 kW, 1996
Elba Airport, Elba, Italy, 85 kW, 1996
Leonori, Rome, 85 kW, 1996
Essene Way, Ambergris Caye Island, Belize, 100 kW, 1996
Dangling Rope Marina, Lake Powell, Glen Canyon National Recreation Area, Utah, USA, 115 kW, 1996
Hooch High School, Kagoshima, Japan, 150 kW, 1996
Sacramento municipal Airport, car port, Sacramento, CA, USA, 158 kW, 1996
Nieuw Sloten, Amsterdam, the Netherlands, 250 kW, 1996
Georgia Tech Aquatic Center, Atlanta, GA, USA, 432 kW, 1996
Bad Canstatt, Germany, 435 kW, 1996
EUCLIDES, Canary Islands, Spain, 480 kW, 1996
Carloforte, Italy, 600 kW, 1996
Serre, Italy, 3,3 MW, 1996

1997

RAI, Pratomagno Control Centre, 14 kW, 1997
Fachhochschule Nürnberg, Nürnberg, Germany, 14,9 kW, 1997
PV sound barriers, A96 motorway, Walchstadt am Ammersee, Germany, 30 kW, 1997
Research Centre Jülich, Central Library, Germany, 43 kW, 1997
Solarsiedlung Hettstadt, Würzburg, Germany, 72,8 kW, 1997
Vulcano, Italy, 100 kW, 1997
UBS-Administration Lugano, Lugano, Switzerland, 200 kW, 1997
Auf dem Krüge, Bremen, Germany, 200 kW, 1997
Bremen, Germany, 206 kW, 1997
Mandatoriccio, Italy, 216 kW, 1997
Rancho Seco 3, Rancho Seco, CA, USA, 258 kW, 1997
Lamezia Terme, Italy, 600 kW, 1997
US Army Yuma Proving Ground, AZ, USA, 900 kW, 1997
Munich Trade Fair I, Munich, Germany, 1,016 MW, 1997

1998

PV sound barriers, A1 motorway, Wallisellen, Switzerland, 9,6 kW, 1998
Stadtwerke Ulm/Neu-Ulm, Germany, 15 kW, 1998
Sifnos Island, Greece, 60 kW, 1998
ADAC Office Building Hannover-Laatzten, Hannover, Germany, 73 kW, 1998
Anduo, Tibet, China, 100 kW, 1998
Solgaarden Kolding, Danmark, 106 kW, 1998
PV sound barrier, A9 motorway, Ouderkerk aan de Amstel, Amsterdam, the Netherlands, 205 kW, 1998

1999

UNIVER Project, Jaén University Campus, Jaén, Spain, 200 kW, 1999
Olympic Solar Village, Sydney, Australia, 857 kW, 1999
Akademie-du-Mont-Cenis, Herne, Germany, 1 MW, 1999
Amersfoort, the Netherlands, 1,3 MW, 1999

2000

Anu 20kW PV/through Concentrator, Rockingham, Perth, Australia, 20 kW, 2000
Leghorn funicular, Montenero Sanctuary, Italy, 36,5 kW, 2000
Guglielmo Marconi Airport, Bologna, Italy, 80 kW, 2000
Bildungszentrum des Handwerkskammers, Butzweilerhof, Köln, Germany, 120 kW, 2000
Paul-Löbe-Haus, Berlin, Germany, 123 kW, 2000
HELIOGRAM, Hannover-Leinhausen, Hannover, Germany, 253 kW, 2000
Sacramento, California, Cal Expo car port, 610 kW, 2000

2001

ECN Building 42, Petten, the Netherlands, 43 kW, 2001
Munich Trade Fair II, Munich, Germany, 1,056 MW, 2001
PV sound barrier Gleisdorf, Austria, 101 kW, 2001
Glendale Airport, Glendale, AZ, USA, 100 kW, 2001

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2002

Lehrter Bahnhof, Berlin, 189 kW, 2002
Photocampa, Car Port, Tarragona, Catalonia, Spain,
318 kW, 2002
Sanyo Solar Ark, 630 kW, 2002
Solarpark Hohenfells-Markstetten, Germany, 1,6 MW, 2002
Floriade, the Netherlands, 2,3 MW, 2002

2003

CRES, Pikermi, Athens, Greece, 40 kW, 2003
Museum of fine Arts, Leipzig, Germany, 45 kW, 2003
Church St.Konrad, Linz, Austria, 50 kW, 2003
PV sound barrier, A31 Emden-Bottrop, Germany, 53,3 kW, 2003
Schulzentrum Spalterhals Barsinghausen, Barsinghausen,
Germany, 60 kW, 2003
GE Wind Energy, Salzbergen, Lower Saxony, Germany,
115 kW, 2003
Kogarah, Sydney, Australia, 160 kW, 2003
Shell Solar, Camarillo, CA, USA, 245 kW, 2003
Bad Oeynhausen, Germany, 302 kW, 2003
PV sound barrier, A92 motorway, Freising, Germany,
500 kW, 2002-2003
Tudela, Navarra, Spain, 1,2 MW, 2003
Solarpark Hemau, Regensburg, Germany, 4 MW, 2003

2004

Bioclimatic Sports Centre, Wageningen, the Netherlands,
282 kW, 2004
FORUM 2004, Barcelona, Spain, 443 kW, 2004
Munich Trade Fair, Parkdeck, Munich, Germany, 655 kW, 2004
Solarpark Waltenhofen II, Germany, 736 kW, 2004
Arguedas I, Spain, 940 kW, 2004
Sesma, Spain, 1,12 MW, 2004
Solarpark Meerane I, Germany, 1,06 MW, 2004
Solarpark Lubmin, Greifswald, Germany, 1,766 MW, 2004
Solarpark Günching, Germany, 1,9 MW, 2004
Solarpark Minihof, Germany, 1,9 MW, 2004
Springerville Solar Generating Station, SGSS, Springerville, AZ,
USA, 3,51/4,6 MW, 2001-2004
Solarpark Geiseltalsee, Germany, 4 MW, 2004

Solarpark Leipziger Land, Germany, 5 MW, 2004
Solarpark Mühlhausen, Germany, 6,3 MW, 2004

2005

Daegu City, Korea, 50 kW, 2005
Solaranlage Wilkau-Haßlau, Germany, 615 kW, 2005
Solarpark Nentzelsrode, Germany, 988 kW, 2005
Solarpark Chemnitz, Germany, 1,13 MW, 2005
Citruénigo, Spain, 1,44 MW, 2005
Arguedas II, Spain, 2,1 MW, 2005
Solarpark Bad Grönenbach, Germany, 2,388 MW, 2005
Solarpark Borna, Germany, 3,4 MW, 2005

2006

Solarpark Murcia, Spain, 230 kW, 2006
Huerta Solar Ventanas, Spain, 1,017 MW, 2006
Sanlúcar la Mayor, Sevilla, Spain, 1,2 MW, 2006
Solarpark Kappel-Grafenhausen, Germany, 1,61 MW, 2006
Solarpark Mering, Germany, 1,7 MW, 2006
Rada, Spain, 1,78 MW, 2006
Castejón, Spain, 2,64 MW, 2006
Solarpark Pocking, Germany, 10 MW, 2006

2007

EGAT's headquarters, Nonthaburi province, Thailand,
27 kW, 2007
Hokuto Mega Solar project, Yamanishi Prefecture, Japan,
600 kW, 2007
Huerta Solar Guadix, Spain, 612 kW, 2007
Solarpark Penig, Germany, 877 kW, 2007
Huerta Solar Alqueria, Spain, 1,017 MW, 2007
Solarpark Rote Jahne, Germany, 6 MW, 2007

2008

Power Tower Energie AG, Linz, Austria, 66 kW, 2008
La Laguna, Canary Islands, Spain, 100 kW, 2008*
Santa Cruz, Canary Islands, Spain, 200 kW, 2008
Puertollano, Castilla La Mancha, Spain, 200 kW, 2008

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Almoguera, Castilla La Mancha, Spain, 300 kW, 2008

La Cuesta, Canary Islands, Spain, 880 kW, 2008*

Alcolea del Tajo, Toledo, Spain, 1 MW, 2008

Talavera de la Reina, Toledo, Spain, 1 MW, 2008

Wakkanai, Mega-Solar Project, Wakkanai, Japan, 2 MW, 2008

Finca Roja, Arico, Canary Islands, Spain, 3,6 MW, 2008

Solten II, Granadilla de Abona, Canary Islands, Spain, 4 MW, 2008

Huerta Solar Lorca, Lorca, Murcia, Spain, 7 MW, 2008

Finca Verde, Arico, Canary Islands, Spain, 9 MW, 2008

Solten I, Granadilla de Abona, Canary Islands, Spain, 20 MW, 2007/2008

Brandis, Germany, 40 MW, 2007-2008

2009

Rajamangala University of Technology, Thanyaburi, Thailand, 10 kW, 2009

TK Davis Justice Center, Lee County, Alabama, USA, 16,6 kW, 2009

PV sound barrier, A92 motorway, Freising, Germany, 718 kW, 2009

Totana, Spain, 1 MW, 2009

Rothenburg, Germany, 20 MW, 2009

Sarnia, Ontario, Canada, 20 MW, 2009

Blythe, California, USA, 21 MW, 2009

2010

Ouagadougou, Burkina Faso, 80 kW, 2010

Eberstallzell, Austria, 1 MW, 2010

Busenwuth, Germany, 12 MW, 2010

Finow Tower, Germany, 24 MW, 2010

Rovigo, Italy, 70 MW, 2010

2011

Weserstadion Bremen, Bremen, Germany, 1,2 MW, 2008-2011

Arizona State University, Tempe, Arizona, USA, 10 MW, 2011

Gujarat Solar Park, India, 10 MW, 2011

Interporto Padova, Italy, 12,3 MW, 2011

2012

Jayapura, Papua, Indonesia, 35 kW, 2012

Villa Lobos Project, Sao Paulo, Brazil, 450 kW, 2012

2013

Optronics (AUO), Taichung, Taiwan, 10 MW, 2013

Golmud, Anhui, China, 50 MW, 2013

Tambol Huawai, Amphur Takli, Nakornsawan, Thailand, 90 MW, 2013

* year of commissioning not accurate

