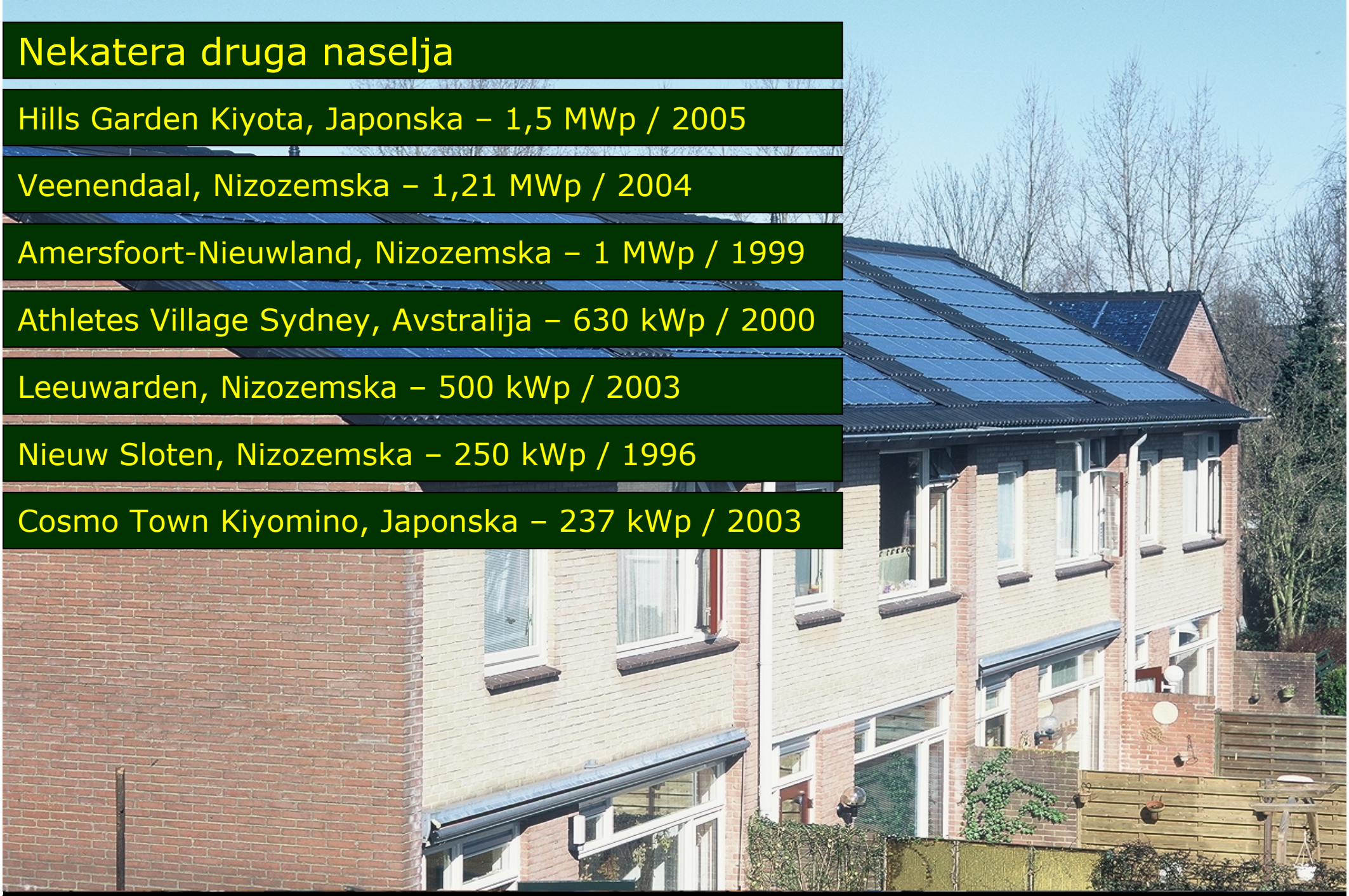
Sončne elektrarne po svetu

Denis Lenardič

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1. slovenska fotovoltaična konferenca
SLO-PV 2006, Ljubljana
21. 9. 2006



Nekatera druga naselja

- Hills Garden Kiyota, Japonska – 1,5 MWp / 2005
- Veenendaal, Nizozemska – 1,21 MWp / 2004
- Amersfoort-Nieuwland, Nizozemska – 1 MWp / 1999
- Athletes Village Sydney, Avstralija – 630 kWp / 2000
- Leeuwarden, Nizozemska – 500 kWp / 2003
- Nieuw Sloten, Nizozemska – 250 kWp / 1996
- Cosmo Town Kiyomino, Japonska – 237 kWp / 2003

Apeldoorn, Nizozemska – 1 MWp / 2002 - 2003

Obnova stanovanjskega naselja Apeldoorn

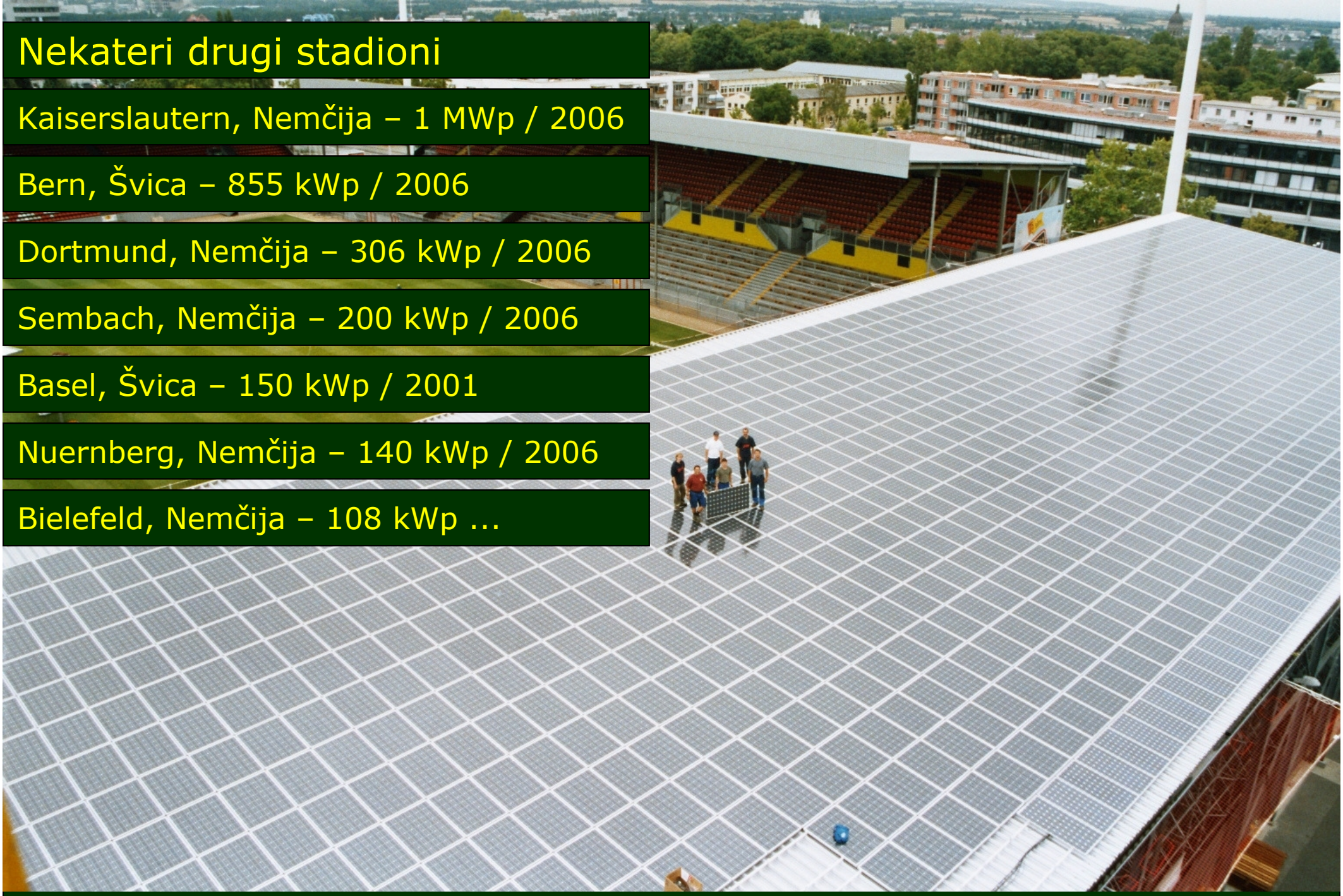
Foto: Lafarge



Freiburg, Nemčija – 283 kWp

Solarsiedlung am Schlierberg

Foto in grafika: Solarsiedlung GmbH



Nekateri drugi stadioni

- Kaiserslautern, Nemčija – 1 MWp / 2006
- Bern, Švica – 855 kWp / 2006
- Dortmund, Nemčija – 306 kWp / 2006
- Sembach, Nemčija – 200 kWp / 2006
- Basel, Švica – 150 kWp / 2001
- Nuernberg, Nemčija – 140 kWp / 2006
- Bielefeld, Nemčija – 108 kWp ...

Mainz, Nemčija – 240 kWp / 2004
Nogometni stadion

Foto: juwi GmbH



Muenchen, Nemčija – 2,1 MWp / 1997 – 2002

Sejmišče v Muenchnu – 1016 kWp 1997 / 1058 kWp 2002

Foto: Messe Muenchen



Buerstadt, Nemčija – 5 MWp / 2005

Streha logističnega podjetja

Foto: Manfred Gose

Erlasee/Arnstein, Nemčija – 12 MWp / 2006
Solarpark Gut Erlasee

Pocking, Nemčija – 10 MWp / 2006
Solarpark Pocking

Muehlhausen, Nemčija – 6,3 MWp / 2004
Bavaria Solarpark

Miegersbach, Nemčija – 5,27 MWp / 2005
Solarpark Miegersbach

Buerstadt, Nemčija – 5 MWp / 2005
Streha logističnega podjetja

Espenhain, Nemčija – 5 MWp / 2004
Solarpark Leipziger Land

Springerville, ZDA – 4,59 MWp / 2001 - 2004
Springerville Generating Station Solar System

Največji delujoči fotovoltaični sistemi
September 2006

Geiseltalsee, Nemčija – 4 MWp / 2004
Solarpark Geiseltalsee

Goettelborn, Nemčija – 4 MWp / 2004
Solarpark Zeche Goettelborn

Saarbruecken, Nemčija – 4 MWp / 2005 - 2006
Solarpark Saarbruecken

Sembach, Nemčija – 4 MWp / 2005 - 2006
Solarpark Sembach

Hemau, Nemčija – 4 MWp / 2003
Solarpark Hemau

Rancho Seco, CA, ZDA – 3,9 MWp / 1984 - 2000
Elektrarna Rancho Seco

Kronwieden/Dingolfing, Nemčija – 3,7 MWp / 2005
Fotovoltaični sistem na strehah družinskega podjetja Fischer

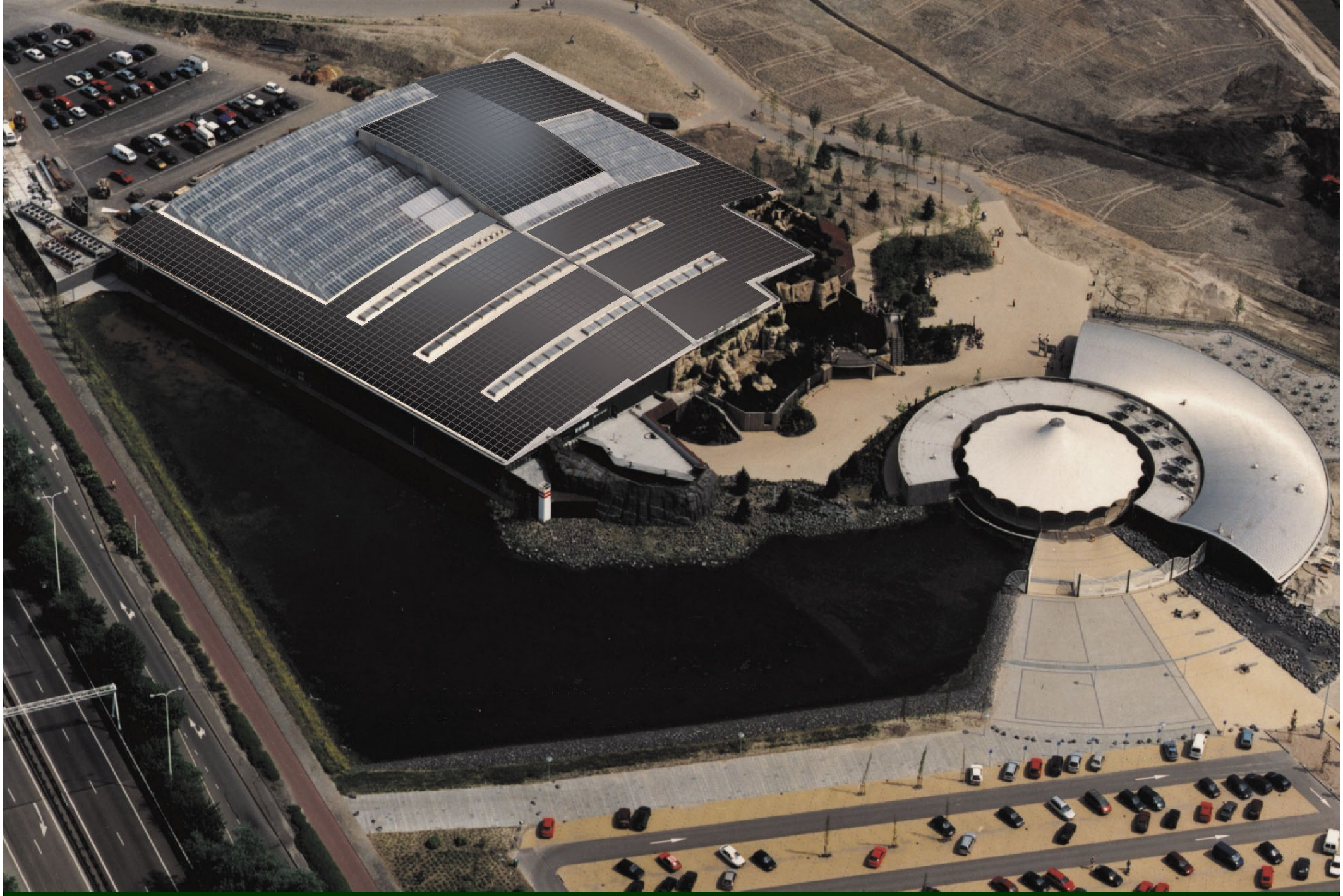
Največji delujoči fotovoltaični sistemi - nadaljevanje
September 2006



Kronwieden/Dingolfing, Nemčija – 3,7 MWp / 2005

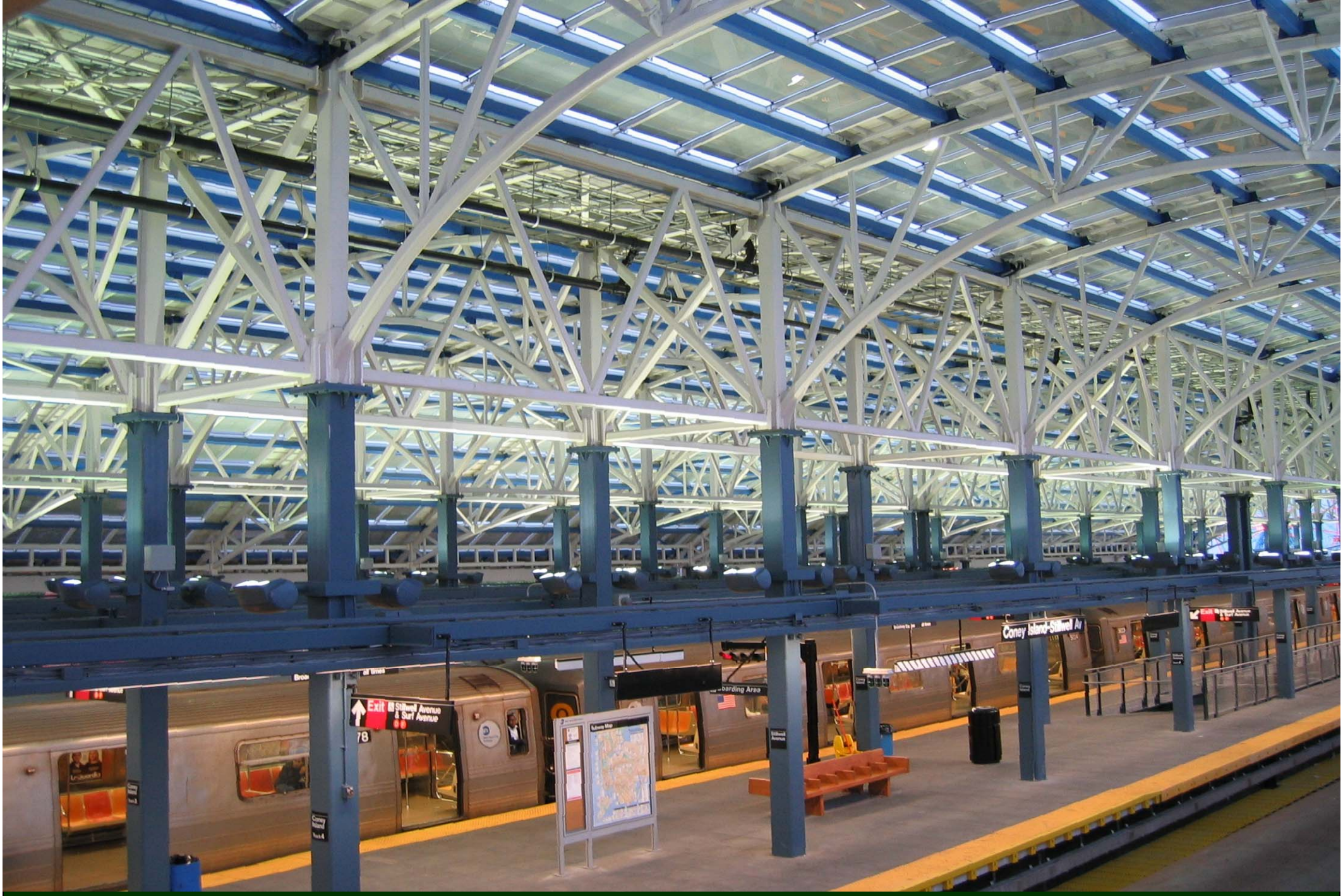
Fotovoltaični sistem na strehah družinskega podjetja Fischer

Foto: Deutsche BP AG



Blijdorp, Nizozemska – 589 kWp / 2005
Blijdorp ZOO

Foto: Siemens Nederland N.V.



New York, ZDA – 219 kWp / 2005

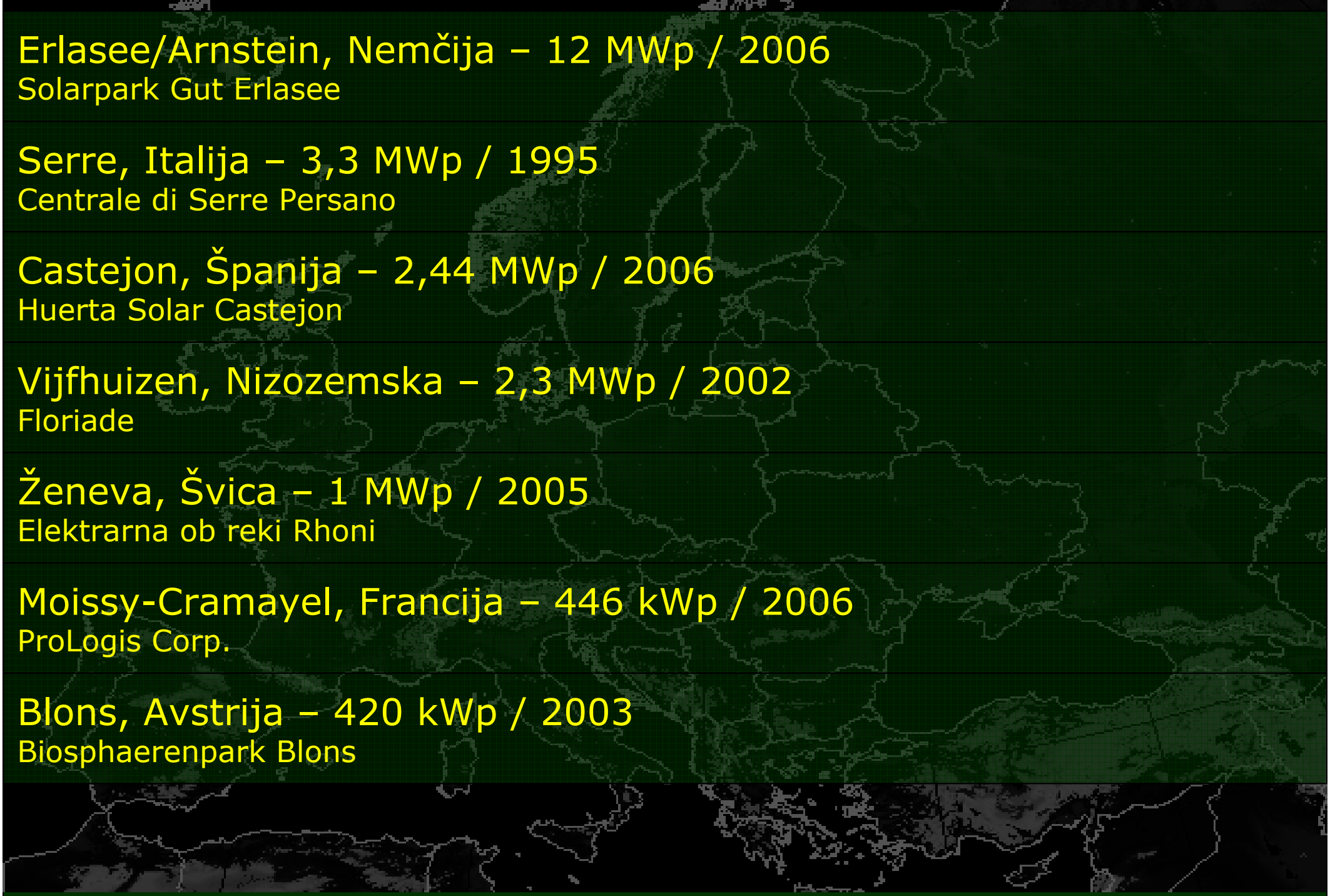
Stilwell Avenue Terminal

Foto: Glaswerke Arnold GmbH & Co.KG



Herne, Nemčija – 1 MWp / 1999
Akademie-du-Mont-Cenis

Foto: Flabeg



Največji fotovoltaični sistemi v nekaterih evropskih državah

September 2006

Springerville, ZDA – 4,59 MWp / 2001 - 2004
Springerville Generating Station Solar System

Kiyota/Saporro City, Japonska – 1,5 MWp / 2005
Stanovanjsko naselje Hills Garden Kiyota

Indahag, Filipini – 1,1 MWp / 2004
Elektrarna Cagayan Electric Power & Light Co., Inc.

Shenzen, Kitajska – 1 MWp / 2000
Shenzhen International Floral Exhibition buildings

Sydney, Avstralia – 630 kWp / 2000
Athletes Village – olimpijska vas

Mae Hong provinca, Tajska – 500 kWp
Samostojni sistem v provinci Mae Hong

Kuala Lumpur, Malezija – 362 kWp
Technology Park, Kuala Lumpur

Največji fotovoltaični sistemi v nekaterih drugih državah
September 2006



Ridge Crest CA, ZDA – 259 kW / 2004

Seleyranches

Foto: World Water & Power Corporation



Reussenkoege, Nemčija – 1,037 MWp / 2005

Freiland SonnenStrom-Anlage Reussenkoege

Foto: Phoenix Sonnenstrom AG



Buchheim, Nemčija – 1,046 MWp / 2005

Freiland SonnenStrom-Anlage Buchheim

Foto: Phoenix Sonnenstrom AG



Tudela, Španija – 1,2 MWp / 2002

Huerta Solar Tudela

Foto: EHN (Acciona Energia)



Passau, Nemčija – 1,75 MW / 2002
Solarpark Sonnen

Foto: Voltwerk AG



Hoesslwang, Nemčija – 1,8 MWp / 2004
Solarpark Hoesslwang

Foto: BZG AG



Goettelborn, Nemčija – 4 MWp / 2004

Solarpark Zeche Goettelborn / trenutno dograjevanje na 8 MWp

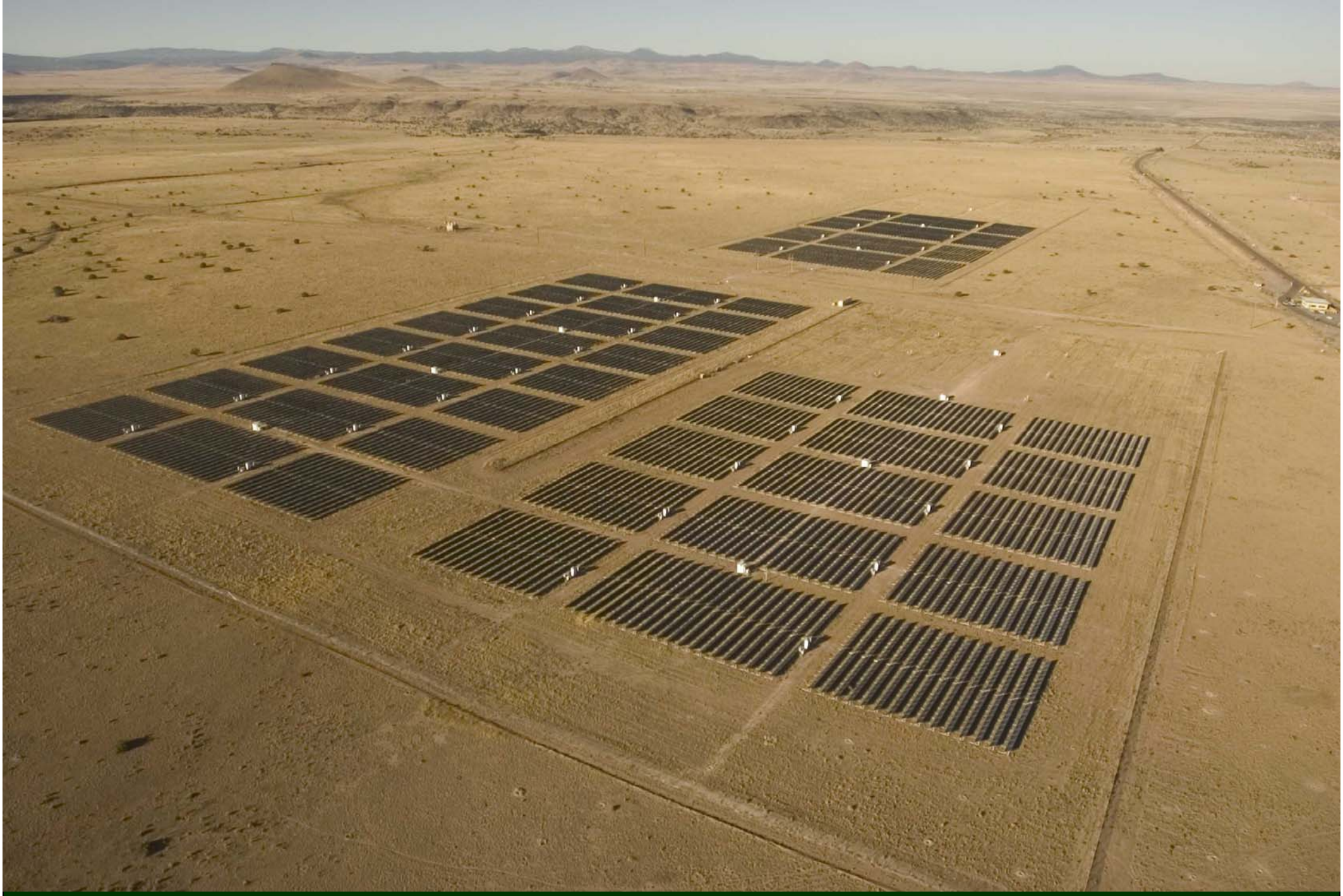
Foto: City Solar AG



Geiseltalsee, Nemčija – 4 MWp / 2004

Solarpark Geiseltalsee

Foto: Deutsche BP AG



Springerville, ZDA – 4,59 MWp / 2001 - 2004

Springerville Generating Station Solar System

Foto: Tucson Electric Power



Miegersbach, Nemčija – 5,27 MWp / 2005

Solarpark Miegersbach

Foto: Phoenix Sonnenstrom AG



Muehlhausen, Nemčija – 6,3 MWp / 2004

Bavaria Solarpark (Muehlhausen + Minihof + Guenching = 10 MWp)

Foto: K & S Consulting GmbH



Pocking, Nemčija – 10 MWp / 2006
Solarpark Pocking

Foto: Martin Bucher Projektentwicklungen

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world's most interesting photovoltaic power plants

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"We should all be concerned about the future because we will have to spend the rest of our lives there."
(Charles F.Kettering)



Solarpark Pocking
with 10 MWp is Pocking plant the largest photovoltaic power plant
(Courtesy: Martin Bucher Projektentwicklungen)

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AMANA, Iowa, US, September 6, 2006 (Refocus Weekly) The U.S. Department of Agriculture will provide US$17.5 million to projects which develop renewable energy resources.

PV systems recover embedded costs in 1.6 to 3.3 years
PARIS, France, September 6, 2006 (Refocus Weekly) Roof-top solar PV systems recover their energy content (from manufacturing and recycling) within 1.6 to 3.3 years, depending on location, concludes an assessment from the International Energy Agency.

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Več informacij in seznam 500 sončnih elektrarn v svetu

INTRODUCTION

Introduction
Photovoltaic
History
Glossary

ADVANCED

Technologies
Solar cells
Software
Economics
Environment

SYSTEMS

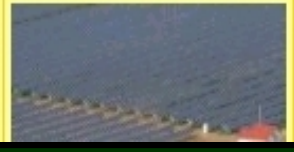
Site analysis
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Charge controllers
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Wiring

GENERAL

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Events

APPLICATIONS

General
Grid-connected
BIPV

DC Peak Power	Land/Location	Description & modules	System Type *	Constructed	MWh/year GHG reduction	Pictures
10 MW	**Germany, Pocking** Picture courtesy: Martin Bucher Projekt-entwicklungen	Solarpark Pocking 57.912 Shell Solar modules 4 x 1.600 kVA inverter units, 4 x 400 kVA MSSS each unit.	SA, GC	Shell Solar GmbH Martin Bucher Projektentwicklungen April 2006	10.000 tones CO_2 emission reduction annualy	
10 MW	**Germany, Erlasee/Arnstein, Bavaria**	Solarpark Gut Erlasee stage 1: 400 movers stage 2: 776 movers 8 kWp per mover, double axis tracking. 28.000 Solon modules.	SA, GC, TRAC	Solon AG 2006 plant consists of "Solon movers" and is still under construction		
6,3 MW	**Germany, Mühlhausen** Picture courtesy: K&S Consulting GmbH	Solarpark Mühlhausen - part of Bavaria Solarpark 15 x 340 MSS, 2 x 300 MSS Siemens Sinvert inverters.	SA, GC. part of 10 MW **Bavaria Solarpark**	K&S Consulting GmbH & Co.KG PowerLight Corp. December 2004	6750 MWh 6200 tones CO_2 emission reduction in next 30 years	
5,27 MW	**Germany, Miegersbach** Picture courtesy: Phönix Sonnenstrom	Freiland SonnenStrom-Anlage Miegersbach	SA, GC	Phönix SonnenStrom AG Part 1 June 2005	1877/3135 MWh 3.150/5.500 tones CO_2 emission	

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Seznam 500 sončnih elektrarn v svetu z natančnejšimi tehničnimi podatki