

UNITED SOLAR OVONIC – Short Summary of Monitoring Results of Installations in Italy

Overview

1. Installation at the Autogrill Somaglia Nord in Lodi, Milano
2. Installation in Bolzano
3. Installation the University Di Urbino

1. Lodi, Milano

Installation of 3 kWp UNI-SOLAR® SHR 17 shingles (no more supplied)

Tilt: 70°

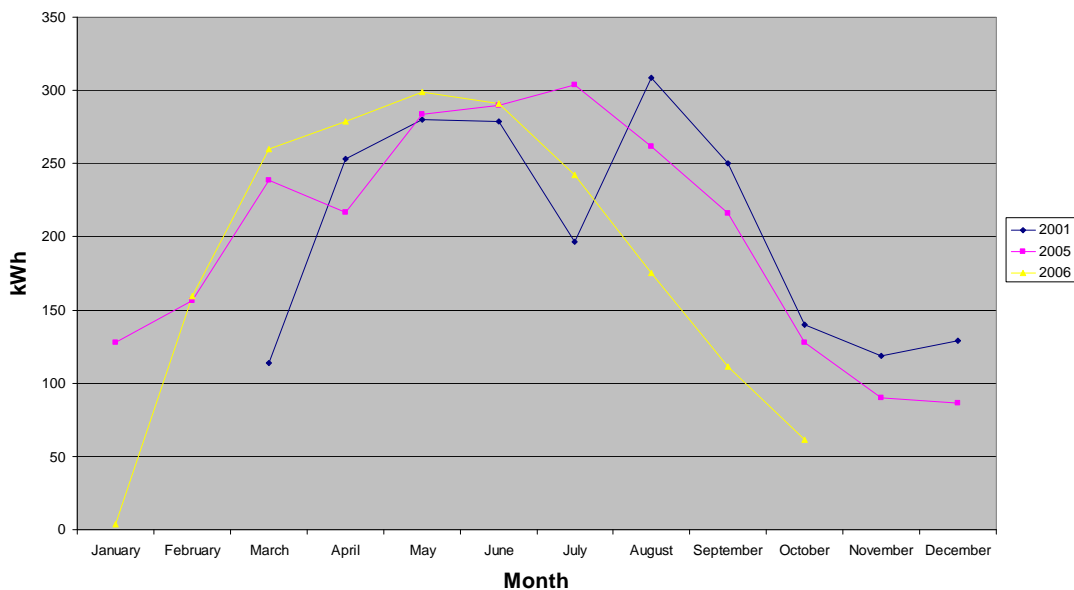
Azimuth: 45°

Inverter: ASP TCG III

Pn: 2,5 kW



DC Energy Yield at Lodi, Milano



Note: in 2001 the system was only 100 % available in April, May, August and September. In 2005 the system was 100 % available over the whole period. In 2006 the system was only 5 % available in January, 65 % in February, 80 % in October and 0 % in November and December.

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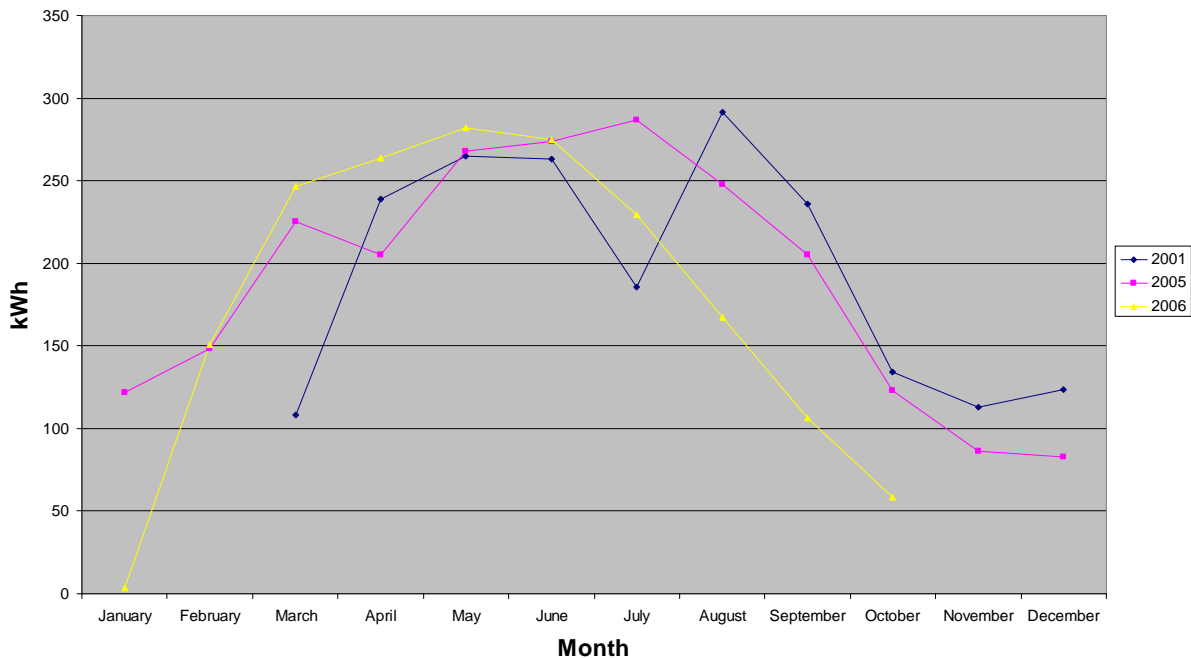
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AC Energy Yield at Lodi, Milano



Note: in 2001 the system was only 100 % available in April, May, August and September. In 2005 the system was 100 % available over the whole period. In 2006 the system was only 5 % available in January, 65 % in February, 80 % in October and 0 % in November and December.

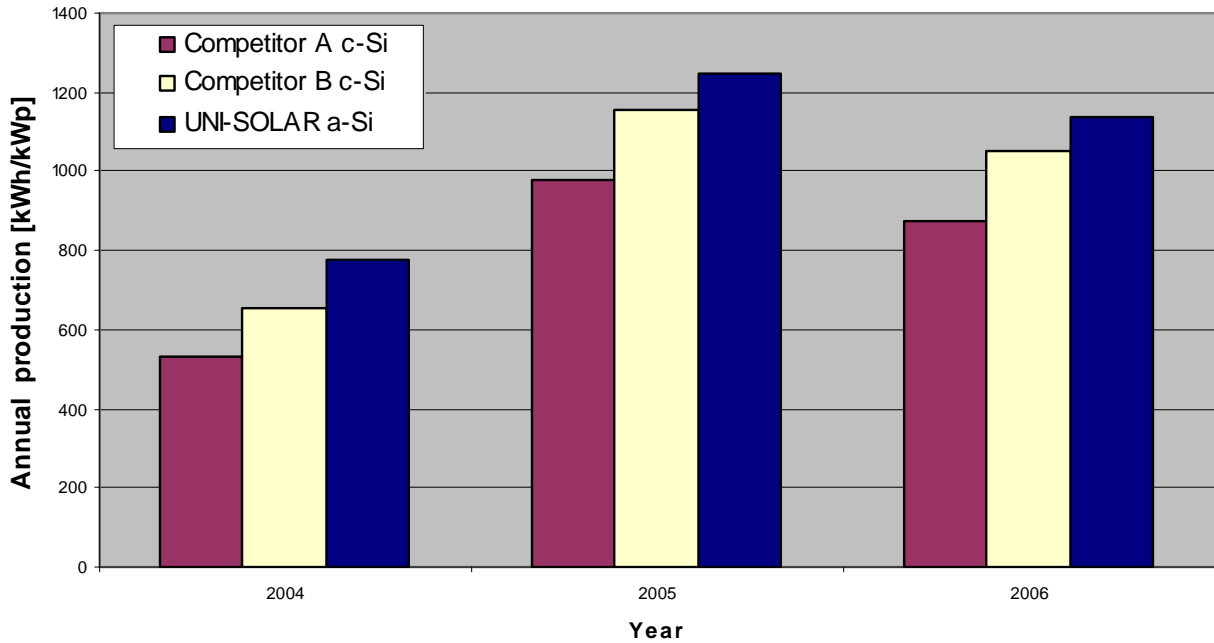
2. Bolzano, Italy

Installation in Bolzano, Italy, employing:

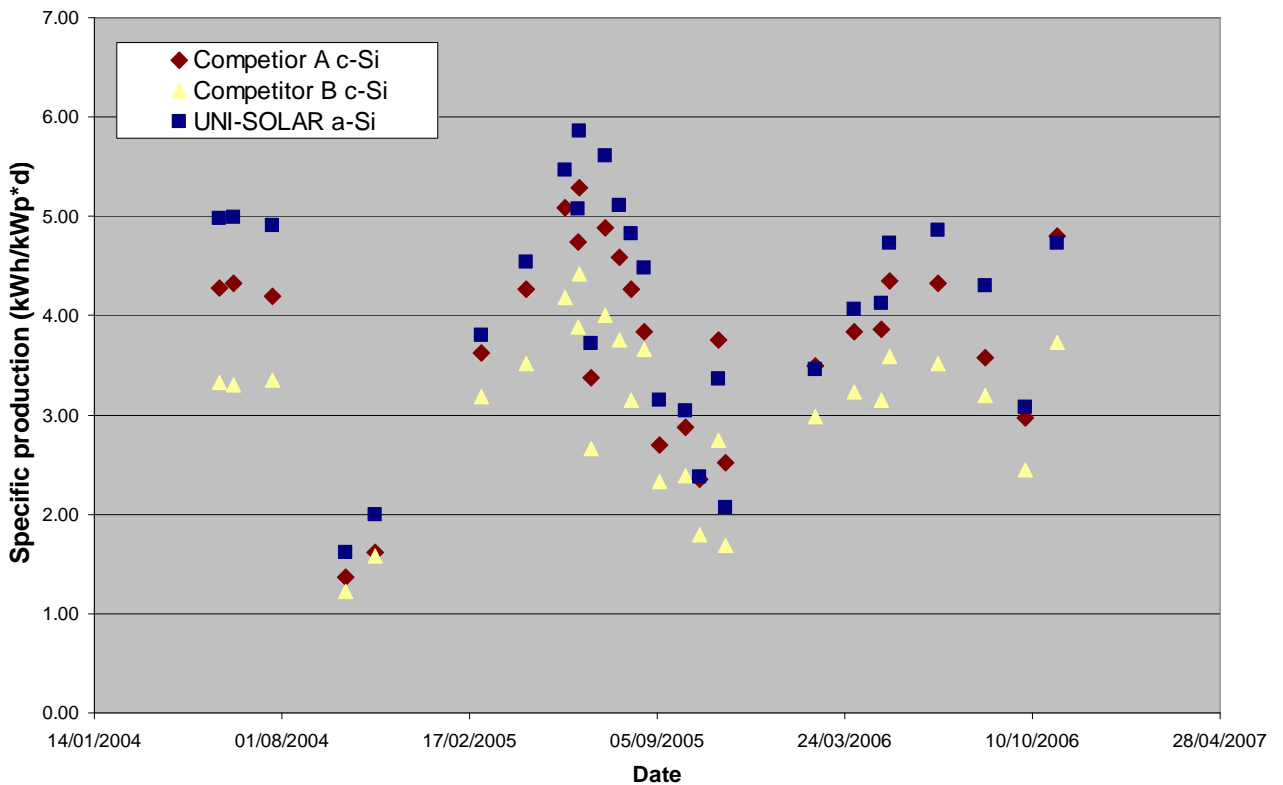
- Mono-crystalline cell technology from Helios
- Multi-crystalline Si cells from Schüco
- Triple-junction a-Si cells from UNITED SOLAR OVONIC



Annual energy production of different technologies at Bolzano



Specific energy production at Bolzano



3. University Di Urbino

Comparison of various mono c-Si, poly c-Si and a-Si modules over the years 2003 and 2004

Source: FV FotoVoltaici 4/2006

Modules tested and Pmax installed

Mono c-S:

- BP Solar BP585 1.785 Wp
- Isofoton I-100 2.100 Wp
- Solterra SOL140 2.246,8 Wp
- Helios Tech. H-900 2.160 Wp

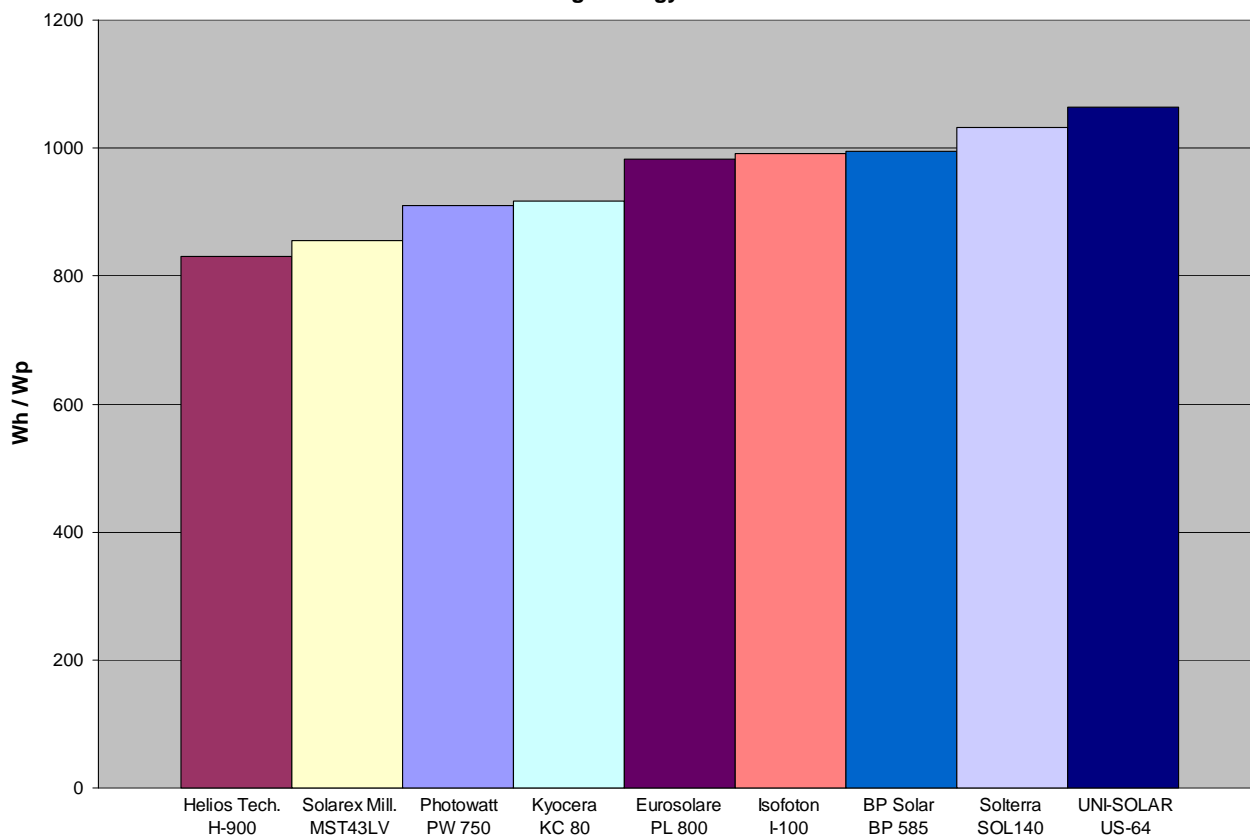
Poly c-Si:

- Photowatt PW 750 1.800 Wp
- Eurosolare PC 1.976,7 Wp
- Kyocera KC 80 2240 Wp

a-Si:

- Solarex Mill. MST43LV 1.890 Wp
- UNI-SOLAR® US-64 1.792 Wp

Average Energy Yield 2003 /2004



Note: In 2004 technical problems occurred leading to downtimes of 110 days of the BP Solar installation, 32 days of the Isofoton installation and 50 days of the Kyocera installation.