GREEN COMPANY

RESPONSIBLE MANUFACTURING

HANPLAST SOLAR

2008
ISO 14001 certification

2009
IKEA Energy Audit

PHILIPS 2010
Philips Electronics Energy Audit
SEEP implementation

PHILIPS 2011
Thermomodernisaton Philips Lighting
Energy Audit

IKEA 2012
IKEA Energy Audit

2014
IKEA Energy Assessment

SUSTAINABLE DEVELOPMENT

IKEA 2015
Green Industry Innovation Programme Poland
THE NEXT GENERATION IN PRODUCTION OF PV MODULES BASED ON THE HIGHEST EFFICIENT CELLS (SWCT) SMARTWIRE CONNECTION TECHNOLOGY
NEW GENERATION SWCT MODULES PRODUCTION®

Production Hall: 2600 sqm
Technology Partner: Meyer Burger
Capacity per year: 100 MW
Quality tests: 100% Flash, EL Test & Hi-Pot Test
Launch of production 4Q 2015

In Partnership with

Meyers Burger
CERTIFIED QUALITY

ISO 9001:2008
PN-N-18001:2004
ISO 14001:2004
TUV Rheinland
US 82160019.01
TUV Rheinland
PV 60112211_61215_61730
Fully Automated Glass/Backsheet SWCT Modules line at Hanplast in Bydgoszcz, Poland
LONGER MODULE LIFE TIME

EXCELLENT RESISTANCE TO MICRO CRACKS

HIGHER ENERGY EFFICIENCY UP TO 6% COMPARED TO TRADITIONAL BUS BAR TECHNOLOGY
According to TÜV Rheinland micro-cracks are the main cause of significant reduction in the efficiency and safety of PV installations.

Interruption of flow - inactive productive zone due to silicon cell cracks

Active cell area, despite the micro cracks
SWCT- no cells thermal stress, no soldering

**Bus Bar Technology**

- Low homogenous temperature (below 160°C)
- No stress/cracking on cells

**SmartWire Technology**

- Elimination of the time consuming soldering process - soldering and the lamination processes are coupled

**Reduction** of the thermal stress to the cells - the temp. during the connection process step is homogenous and kept below 150°C

**Energy saving** during the manufacturing process
YOUR BENEFITS

- Increased productivity of PV module and PV system
- Cost optimized module design
- Longer lifetime and higher reliability
- Full compatible with new generation HJT cells
- Extreme resistance to micro cracks
- Increased absorption of light due to wires architecture
- Higher resistance to mechanical & thermal stress in the production process
- ARC glasses for higher energy yield
Hanplast roof top PV installation
Size, 1.4 MW

The biggest roof top installation in Poland.
Wałcz 960kW, zachodnio-pomorskie, Poland, SWCT PV Modules.

HANPLST SOLAR REFERENCES

Bydgoszcz 1.4 MW  Piotrków Kujawski 400kW
Wałcz 960 kW  Drzonowo 850 kW
Turowo 950 kW
Białystok 1 1MW
Białystok 2 1MW
Gruzja 37,5MW under EPC
Ukraina 17,5 MW under EPC
The next step for Hanplast Solar is to launch a line of glass / glass dual-layer modules that find many applications from the desert to photovoltaic components used in the building industry. This type of technology using SmartWire Bifacial HJT cells allow for more than 20% energy yield.

Choosing SmartWire technology, we paid special attention to the future unlimited possibilities of using high-performance of photovoltaic cells, an example of such as technology is the HJT Heterojunction solar cells.
Thank you

Mariusz Potocki
Business Development Director
SWCT SmartWire Connection Technology
Phone: +48 (52) 323 42 64
fax: +48 (52) 232 42 99
mobile +48 572 333 550
m.potocki@hanplast.com
www.hanplast.com