Sistem Tigo energy

Luka Vidmar d.i.e.



Tigo®
energy

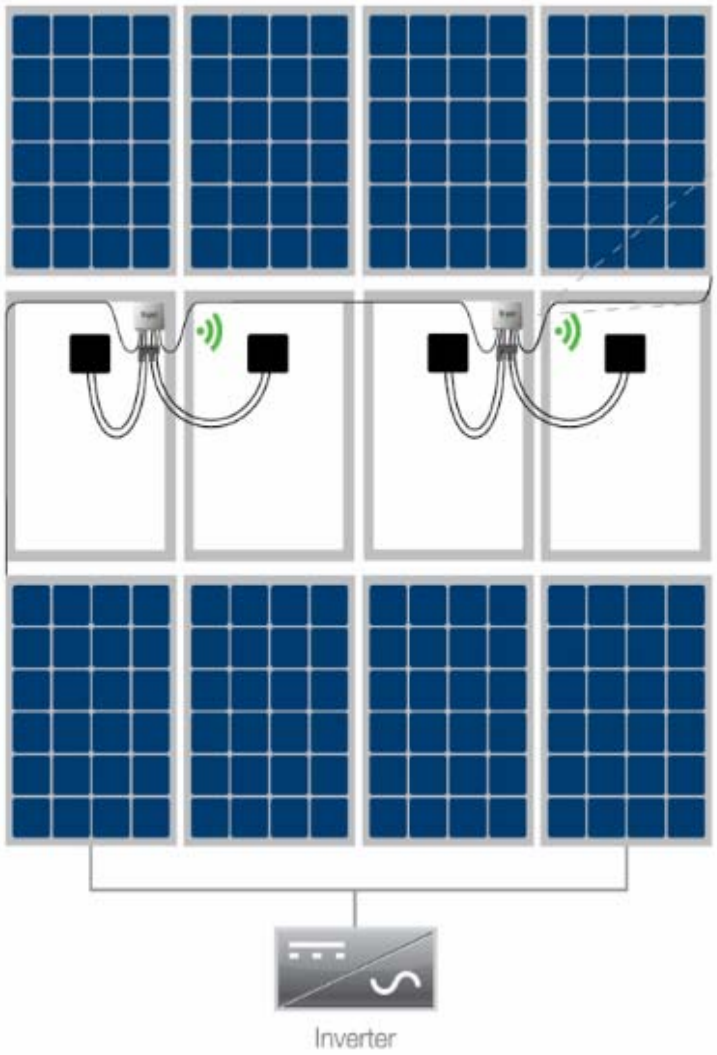
PLANET SOLAR

Tigo Energy Maximizer :



- Višja proizvodnja energije
- Aktiven nadzor
- Večja varnost

Tigo Energy Maximizer





Več Energije

Do 20% večji izplen proizvedene električne energije







Aktiven nadzor

Zelo dober pregled nad vsemi moduli

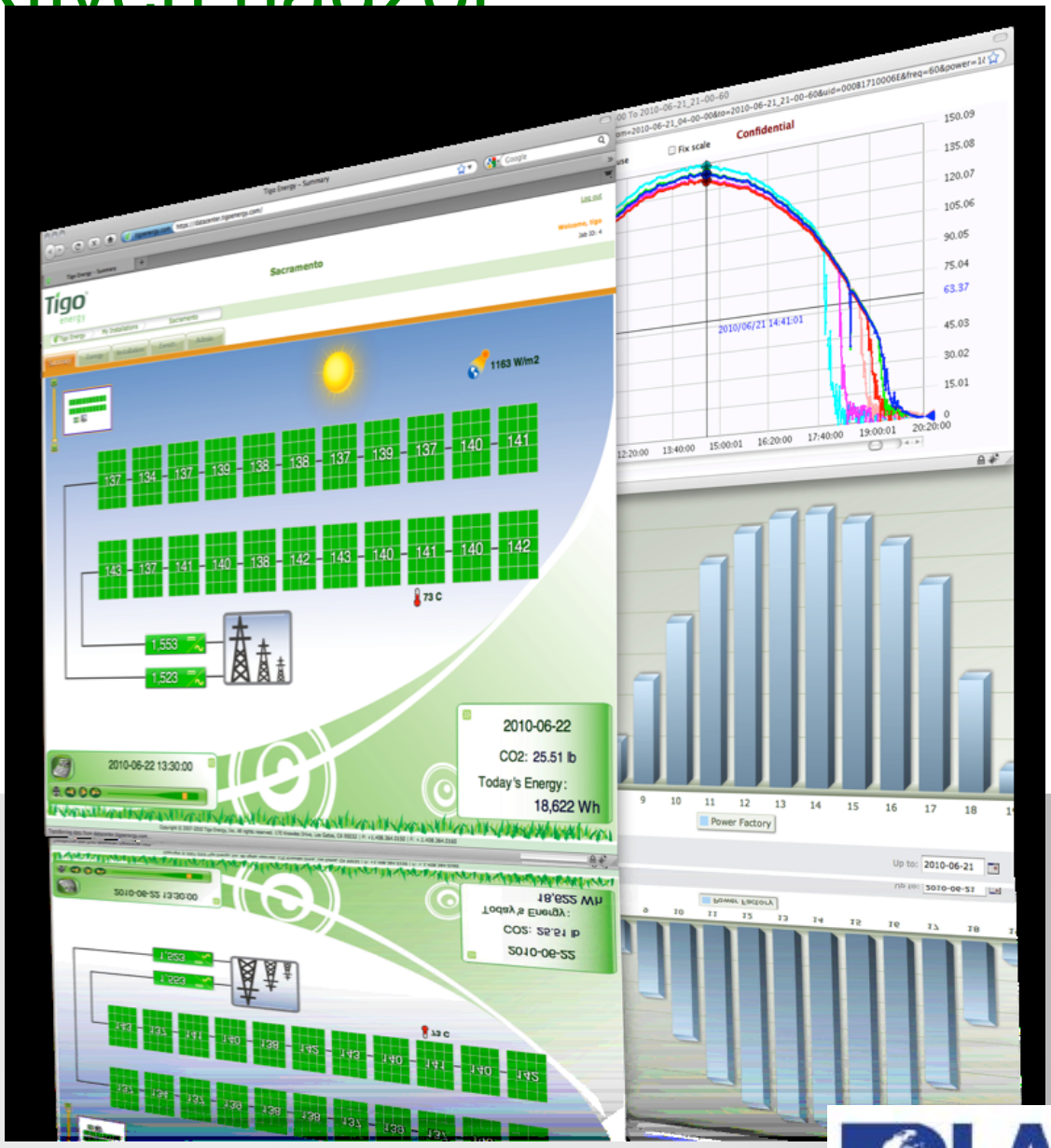


Večja varnost

Večja varnost in lažji posegi na celotnem sistemu

Aktiven nadzor

- Omogoča obratovanje sistema z najvišjim izkoristkom z vsemi alarmi in obvestili
- Dostop do podatkov o modulih preko spleta
- Visoka učinkovitost nižji stroški obratovanja



Višja varnost

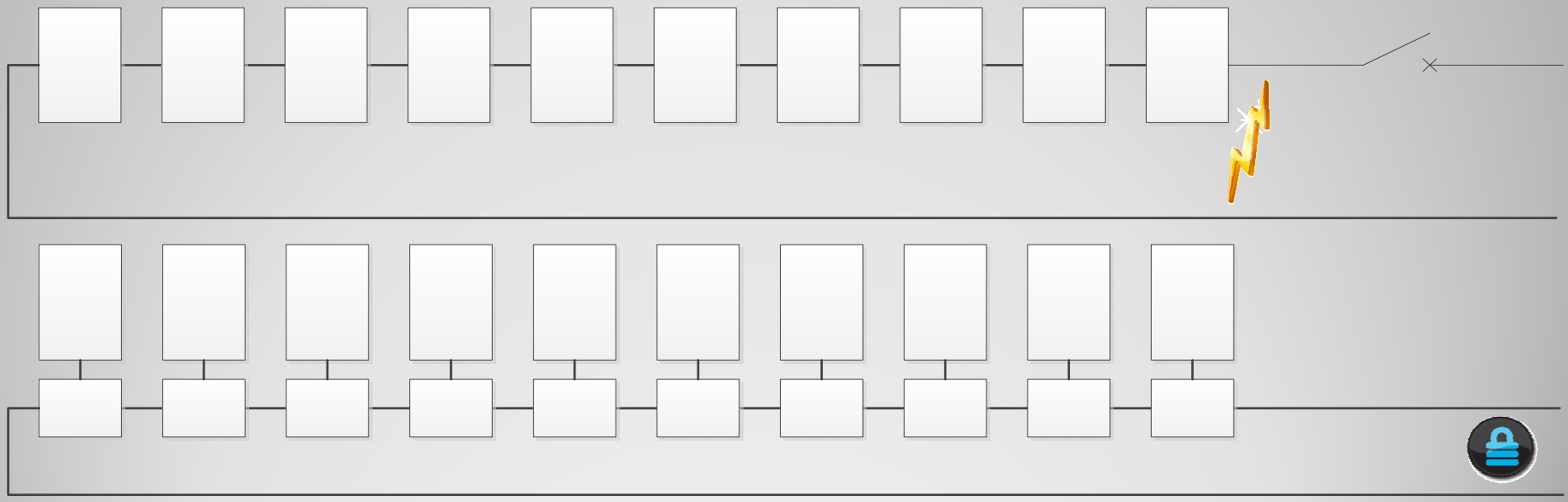


- Odklop DC napetosti s pritiskom na gumb
- Izklop vseh modulov v primeru požara na objektu
- Izboljšana varnost med obratovanjem in posegi na generatorju

Odklop in obveščanje



- Odklop PV modulov:
  - Pritisnemo rdeč gumb na MMU sistemu
  - Odklop pri izpadu na AC strani
- Pošiljanje alarmov elektrarne



Priznanja proizvajalcev razsmernikov

Tigo Energy je pridobil priznanja vseh večjih proizvajalcev razsmernikov



Fronius inverters and Module Maximizers

Wels, October 11th 2010

Manufacturer's Declaration

KACO new energy

ance for the operation of Kaco new energy
tion with Tigo Energy Module Maximizers

KACO new energy GmbH
Carl-Zeiss-Str. 1
74172 Neckarsulm, Germany

Photovoltaic feed-in inverter

power system ensures that the permitted operating range of all components
of Tigo Energy Module Maximizers in combination with KACO new energy
warranty conditions of these products. The specification of the operating
nted in the respective manuals or installation instructions.

warranty claim is:

e of the inverter is not exceeded at any time by the operation of the Tigo

responsibility for the achieved yield of the PV power system because the
no longer controls the operation of the PV panels.
responsibility for the compliance of the complete system in terms of EMC

e operation of its products with the according KACO new energy products.

Renewable Energy Application Note

power-one
Changing the Shape of Power

lote: Compatibility of Power-One Inverters
rgy Module Maximizers

verter and the Tigo Energy Module Maximizer: if all of the of system compo-
ystem design fall within the manufacturers' stated operating range, Tigo
void the warranty of Power-One inverters. Operating ranges of Power-One
pplicable data sheets and installation manuals.

gent on the following:

ltaic system voltage does not exceed the maximum input voltage of the in-

es no responsibility for compliance to EMC regulations for the complete sys-

es no responsibility for the total energy yield achieved as the MPP tracking is
anel rather than the inverter with a Tigo Energy Maximizer.
ts have been approved by Tigo to operate with the Tigo Energy Maximizer
g range of all specified system components.

l services department if you have any questions at 877.261.1374.

rth America
rgy Solutions, LLC

SMA

SMA Solar Technology AG
Sonnenallee 1
34266 Niestetal
Tel.: +49 561 9522-0
Fax: +49 561 9522-100
E-Mail: info@SMA.de
Internet: www.SMA.de

Niestetal, 2 November 2009

Document of compliance for the operation of SMA inverters in combination with "Module Power Maximizers"

Applies exclusively to the following products: *Module Maximizer by Tigo Energy.*

In case the design of a solar power system with e.g. "Sunny Design" (www.SMA.de/SunnyDesign) ensures that the permitted operating range of all components is kept to at all times, the operation of the above mentioned module power maximizers in combination with the SMA products Sunny Boy, Sunny Mini Central and Sunny Tripower poses no breach of the warranty conditions of these SMA products. The specification of the operating range of the inverters is documented in the respective manuals or installation instructions.

A requirement for obtaining the warranty claim is:

1. The maximum input voltage of the inverter is not exceeded at any time by the operation of the module power maximizers
2. SMA takes no responsibility for the achieved yield of the PV power system because the MPP tracking of the inverter no longer controls the operation of the PV panels
3. SMA takes no responsibility for the compliance of the complete system in terms of EMC regulations
4. The manufacturer of the installed module power maximizers has approved the operation of its products with the according SMA products

SMA Solar Technology AG

ppa. Dr. Bernd Engel
Senior Vice President Technology

i. V. Tobias Henne
Director Product Management

SMA Solar Technology AG
Headquarters: 34266 Niestetal
District Court: Kassel HRB 3972

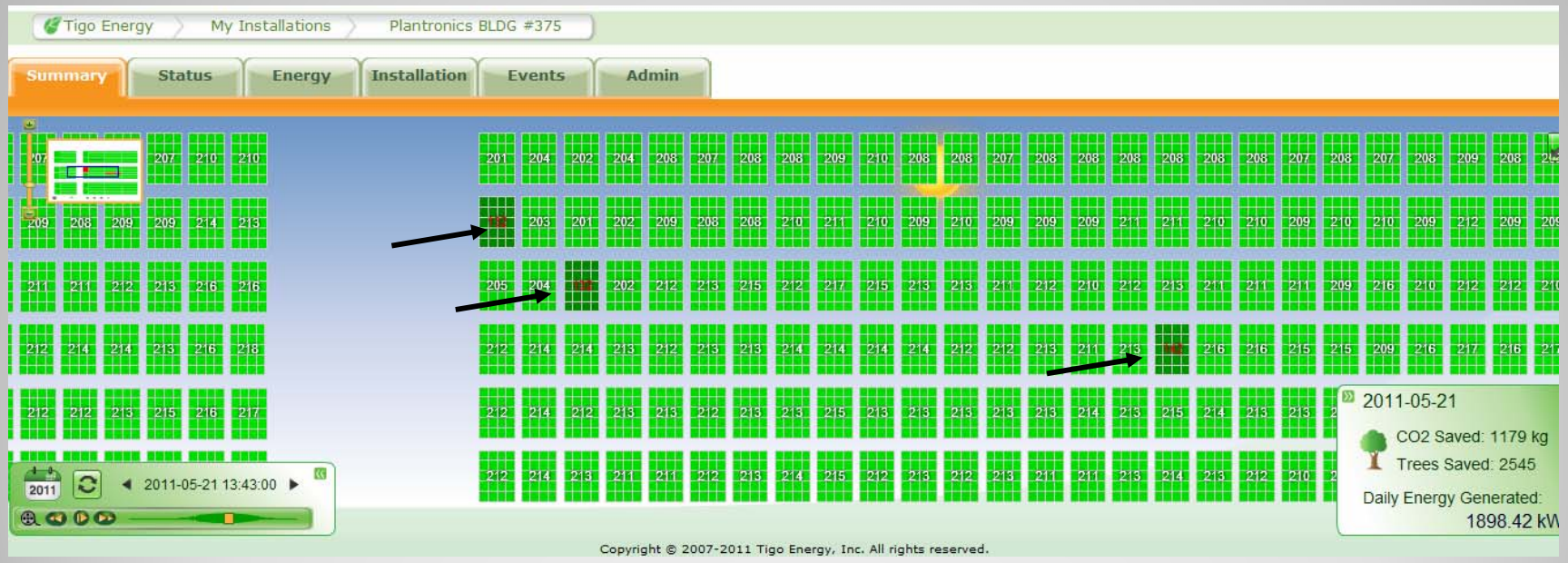
Chair of the Supervisory Board: Dr. Erik Ehrentraut
Executive Board: Günther Cramer, Peter Drews, Roland Grebe, Pierre-Pascal Urbon, Marko Werner
VAT-Number: DE 113 08 59 54 • WEEE-Reg.-Number: DE 95881150

Primer iz prakse:
800kWp sistem Santa Cruz, California

- Elektrarna je bila montirana na podjetje in parkirišče

- S pomočjo TIGO sistema je bilo odkritih 11 pokvarjenih modulov med 2500





Primer iz prakse 2

- Sistem Tigo Energy je bil instaliran na sončno elektrarno moči 100 kWp, ki ni dosegala predvidene proizvodnje električne energije.

- S pomočjo sistema Tigo Energy je bilo odkrita vrsta napak:
  - Deset modulov je delovalo samo z 10% predvidene moči,
  - Dvanajst modulov je delovalo samo s 50% predvidene moči.

- Z odpravo napak je elektrarna dosegala 35% večji izplen
- S pomočjo sistema Tigo so bili okvarjeni moduli odkriti zelo hitro

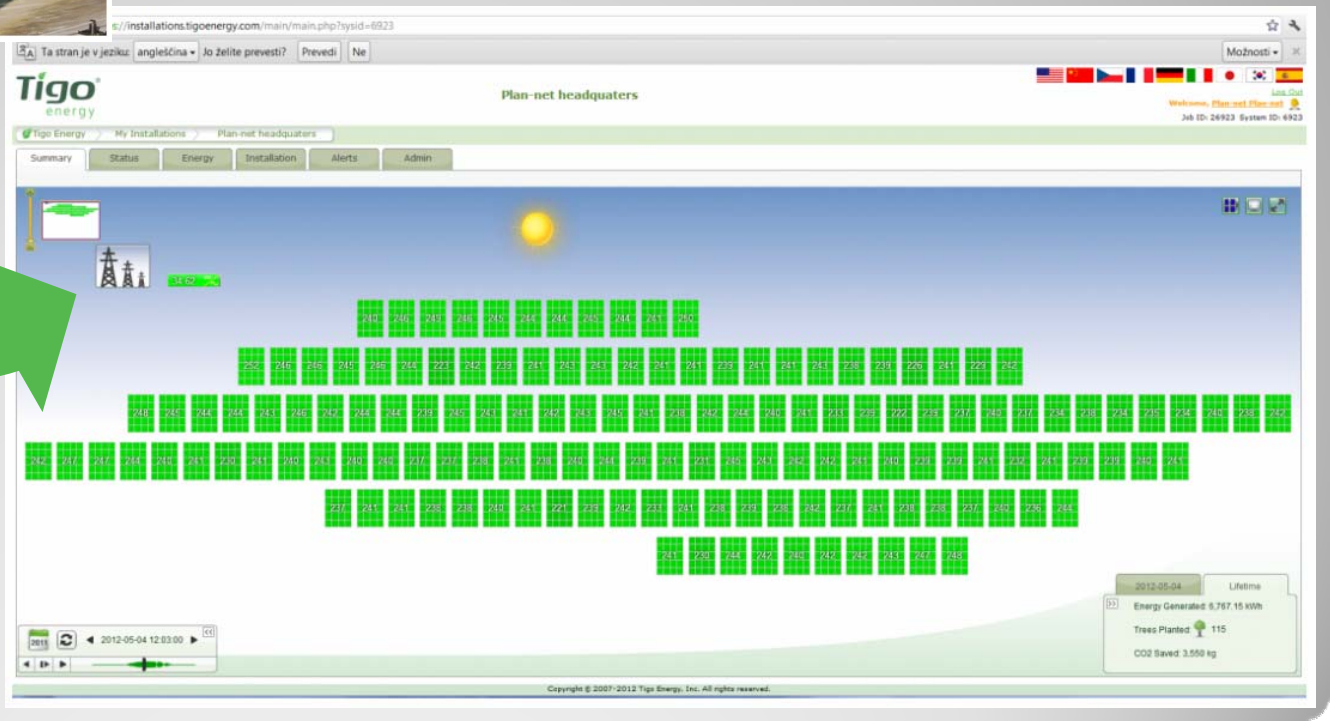


- Commercial system, Germany
- August 20, 2010, 12:13 pm
- System ID: 313

Plan-net II



Sončno elektrarno Plan-net II sestavlja 144 modulov Upsolar. S pomočjo sistema Tigo je bil odkrit en pokvarjen modul.



Vprašanja ?



Kontakt:

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