BSW Solar Off-Grid Power Forum – Intersolar 2015

PHOTOVOLTAIC PUMP DRIVE SOLUTION - CASE STUDY NAMIBIA
Case study Namibia

Application

Sorry, wrong picture…
Case study Namibia
Application: Agricultural - Drop irrigation for vegetables farm
Target – Cost effective water supply

- Transportsed diesel costs on-site are very high and should be avoided -> PV system

- No power grid available -> complete off-grid solution needed

- Low price level as well as local maintenance requested -> no batteries

- Pump already existent -> manufacturer independent pump controller required

Our solution:
IBC SOLAR PV pump drive controller, powered by SIEMENS frequency inverter
Case study Namibia
Connection scheme – Most simple system possible

Modular PV array:
Up to 4 pcs module strings, each consisting of:
Up to 17 pcs PV modules
IBC PolySol 260 CS
Summing up to 17,68 kWp
Case study Namibia
System pictures
Case study Namibia
Application
SIEMENS solar pump drive controller
Overview of your benefits

- MPPT tracking function
- Available in different power classes: 3, 7.5, 15 kW - bigger units upon request
- Adjustable pump motor parameter settings
- Standard SIEMENS product – worldwide spare part availability given
- Suitable for all 3ph-motor pumps
IBC SOLAR AG
Am Hochgericht 10
96231 Bad Staffelstein
www.ibc-solar.com

Dieter Miener
Technical Applications Engineer
Dieter.Miener@IBC-SOLAR.de

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