



SMART SOLAR

Renewable Energy Solutions

מבית נתיבי רוח לישראל

SmartSolar Israel



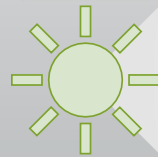
Established in 2009 in Israel as Windil (wind lanes of Israel)



Based in north Israel -sea of galilee area



Over 20 years of combined experience in renewable energy project management and integration



We supply reliable solar systems comprised of the best equipment parts with good prices



"Hands on" knowledge - participation in all the project's phases



Company website: www.smartsolar.co.il



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Selected Projects

Solar Generator

- » Built as a transportable no- fuel less generator for the “midburn” festival in Israel may 2018
- » Mounted on a trailer, fully licensed
- » Total weight approx. 2.5 ton
- » Supplies approx. 20 KWh per day
- » Connects to any pickup truck - Solar power everywhere you go





Solar Generator- Components



Battery – 500Ah 48V –traction batteries -
manufactured by TAB (Poland)



Solar Panels – 15 units of 360W – manufactured by
Hanwha Q-cells (Germany). Total 5.5KW



8KVA Inverter, manufactured by Victron Energy,
Netherland



Custom built AC and DC circuit boards
Metal construction with hydraulic pistons

Solar Generator- Components

Victron Energy system components

- ✓ Victron Quattro 8 KVA - Inverter Charger
- ✓ Victron SmartSolar charge controllers with Bluetooth connection for local monitoring
- ✓ Includes CCGX – monitoring unit connected to cloud for remote control and data monitoring
- ✓ AC input – shore power\ generator power for back up



Solar Generator

Project timescale:
2 months

Project cost:
55,000\$ USD

The solar generator was deployed at midburn in the Negev desert working for 2 weeks without any need to use fuel generators or any AC shore power



Grid tied Solar system in Ghana

- Smartsolar managed the project as EPC for client in Ghana
- Project was established for an agricultural business in Dwanyha Ghana, 40 KM north of Accra
- Solar plant is designed to power water pumps at an agricultural site inc. near by living facilities and agriculture school
- Plant will produce over 200,000 KWh per annum

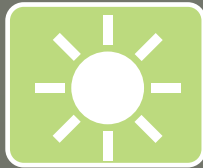




Grid tied Solar system in Ghana - Components



140KW solar system



Solar Panels - 412 solar PV modules of 340W each –
Manufactured by Hanwha Q-cells



Aluminum mounting construction custom built for project



5X Solaredge 25KW grid-tied DC – AC inverters with
optimizers (produced in Israel)

Grid tied Solar system in Ghana



IRR – 25%



PROJECT COST:
175,000\$ USD
(NOT INC. SHIPPING COSTS
FROM ISRAEL)



PROJECT TIMESCALE:
5 MONTHS.
DUE TO BE COMPLETED AND
FULLY WORKING BY
THE END OF NOV. 2018

150KW grid-tied system in
Beit-shemesh with SMA
inverters and Hanwha q-cell
370W modules using sub-
contractor



42KW system in Rosh-pina
grid- connected with
Solaredge – installed by an
in-house team





Multiple home grid- connected systems

- Installed using in-house teams with certified electrician
- Including projects installed for other solar companies

Off-Grid project for a small factory in Jerusalem Area - Israel



24 PV panels
of 325W
Hanwha
Q-cells



3X Schneider
8KW inverters
(connected as 3
phase)



9 meter
tower
including
foundations



1000A 48V
deep cycle
batteries



Grid
connected for
back up



Off-Grid project for a small factory in Jerusalem Area - Israel

Project timescale:
3 Months

Project cost:
85,000\$ USD

System working since 2016 minimizing grid use



Solar Street Lighting

- Smartsolar connected hundreds of streetlights in Israel and Africa
- Various models and capacity for all needs
- Projects include Ghana airport, Municipalities in Israel and more
- Solar streetlights reduce installation and operation costs significantly

