Fraunhofer ISE – certified herewith !

42.9 % Gain

Evaluation according to standard procedure

37,1 % Gain

Evaluation according to the normalization method

Comparative measurements at the Solarpark Rexingen

System 1

Static installation
30° South facing

System 2

Single axis, DEGER TOPtraker
MLD- Control

System 3

Dual axis,
Astronomical Control

System 4

Dual axis, DEGERtracker
MLD- Control

Installation Site	:	48°26‘50‘‘ North, 8°39’48‘‘ East
Elevation	:	569 meter
Iridiation at Site in Rexingen	:	1010 kWh/kWp (PVGIS)
Modules	:	36 Sanyo HIP-215NKHE1 modules per unit/ system
Nominal power in kWp	:	7,74
PV Inverter	:	One SMA SMC 8000TL per unit/ system
Nominal power in kW	:	8.0

The difference between the four units/ systems is the way of tracking.

The Fraunhofer ISE results have been determined by standard method

Results for the year 2012

System	1	2	3	4
Technology	static	Single axis MLD	Dual axis astronomical	Dual axis MLD
AC yield (kWh)	9191	11774	12647	13132
Own consumption /year (kWh)		40	137	52
Additional yield compared to static system		28.1%	37.6%	42.9%

Availibility of measured data for the year 2012: 100%

Conclusion of the Fraunhofer ISE

- DEGERtracker are generating a 42.9% higher yield as static systems.
- DEGERtracker are generating a 5.3% higher yield as astronomical controlled systems.
- DEGERtracker have the lowest own consumption compared to the measured tracking systems in this study.
- If we take the own consumption into account, the DEGERtracker will even have a 6% higher yield as the astronomical system.
- The generated additional yield due to the DEGER-MLD-Tracker is vissible both during low level diffuse light conditions and high level diffuse light conditions.

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About this print

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