



The vegetation in the solar park Pfeffenhausen is controlled by grazing sheep. This keeps the area in agricultural use.



The solar park is monitored using remote data transmission methods and monitoring software which offers a high level of internet support.



Electrical design in the solar park: 27,350 solar modules laid out in 1,302 strings. 5 central inverter stations of SMA (total AC capacity 5.0 MW). Each has a transformer station. The length of the 20 kV-cable to the grid-point is 1,5 km.



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solar park Pfeffenhausen  
5.643 MWp



## Profile of the solar park Pfeffenhausen

### Basic data

Size of area:	12 hectares (solar field), 15.70 ha (lease area)
Location:	Germany, lower Bavaria, community of Pfeffenhausen N 48° 39' 38'' E 11° 56' 29''
Installed capacity:	5.643 MWp (nominal, DC)
Electrical design:	SMA Central inverters, 5 compact stations, connected directly to local 20 kV medium high voltage grid
PV modules:	27,342 PV modules in 1,302 strings (190-215 Wp each, Si, polycrystalline; MoserBaer, India)
Global Solar Irradiation:	1,142 kWh / m <sup>2</sup> / year (in horizontal plane)
Specific yield:	approx. 1,068 kWh / kWp p.a. ("normal" year)
Performance Ratio:	approx. 83.0 %
Energy yield:	approx. 6,027,000 kWh per year (first full year)

### Economic profile

Feed in tariff	€ 0.3549 for 4.55 MWp (connected 2008) € 0.3194 for 1.09 MWp (connected 2009)
Revenue	€ 2.09 m per year

### Ecological profile

CO2 savings	approx. 3,588,000 kg per year
Clean energy for	5,000 citizens (approx. 1,200 kWh per year / citizen energy consumption)

### Political aspects

Size of community	71.79 km <sup>2</sup> = 7,179 hectares
Citizens of the community	4,750 inhabitants, consuming 5,700,000 kWh per year
Communal surface ratio	area solar parc / area of community 15.7 ha / 7,179 ha = <b>0.22 %</b>
Energy consumption ratio	yield SPP / energy consumption inhabitants 6,027,000 kWh / 5,700,000 kWh = <b>106 %</b>