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Project: Solar Panel System | Photovoltaic installation

Location: Portugal / Faro

Project number: ---

Grid voltage: 230V (230V / 400V)

System overview

6 x Ningbo Ulica Solar Science Technology Co. Ltd UL-370M-72 (10/2018) (PV array 1)

Azimuth angle: 0 °, Tilt angle: 30 °, Mounting type: Roof, Peak power: 2.22 kWp



1 x SB 2.0-1VL-40

System Monitoring



Sunny Home Manager 2.0



Sunny Portal

PV design data

| | | | |
|---------------------------------------|--------------|----------------------------------|--------------|
| Total number of PV modules: | 6 | Performance ratio*: | 85.1 % |
| Peak power: | 2.22 kWp | Spec. energy yield*: | 1860 kWh/kWp |
| Number of PV inverters: | 1 | Line losses (in % of PV energy): | --- |
| Nominal AC power of the PV inverters: | 2.00 kW | Unbalanced load: | 2.00 kVA |
| AC active power: | 2.00 kW | Annual energy consumption: | 9,000 kWh |
| Active power ratio: | 90.1 % | Self-consumption: | 2,595.83 kWh |
| Annual energy yield*: | 4,128.31 kWh | Self-consumption quota: | 62.9 % |
| Energy usability factor: | 100 % | Self-sufficiency quota: | 28.8 % |

Signature

*Important: The yield values displayed are estimates. They are determined mathematically. SMA Solar Technology AG accepts no responsibility for the real yield value which can deviate from the yield values displayed here. Reasons for deviations are various external conditions, such as soiling of the PV modules or fluctuations in the efficiency of the PV modules.

Profitability analysis

Project: Solar Panel System | Photovoltaic installation

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| Details | |
|--|----------------------|
| Electricity purchase costs avoided in the first year | 649 EUR |
| Total savings after 20 year(s) | 18,599 EUR |
| Electricity purchase costs avoided after 20 year(s) | 17,334 EUR |
| Total revenue from grid feed-in after 20 year(s) | 1,265 EUR |
| Expected amortization period in years (approx.) | 0 |
| Electricity production cost over 20 year(s) (approx.) | 0.000 EUR/kWh |
| Annual return | 0.00 % |
| The total investment is | 0.00 EUR |
| The specific investment costs of the PV system (CapEx / kWp) are | 0.00 EUR/kWp |

Comparison of annual electricity costs

Today without PV system

2,250 EUR

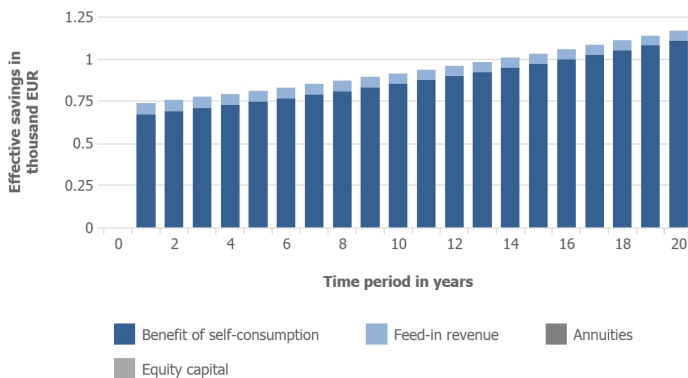
In 20 year(s) without PV system

4,064 EUR

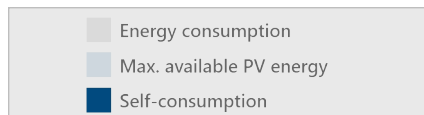
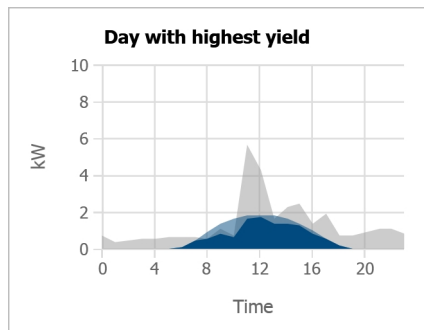
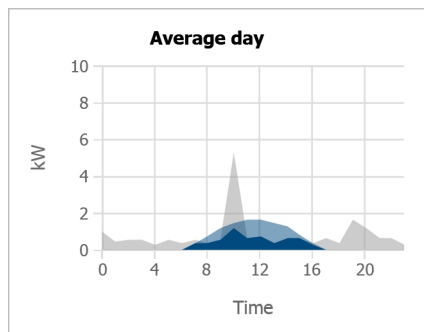
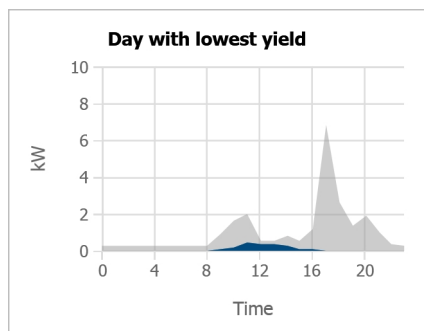
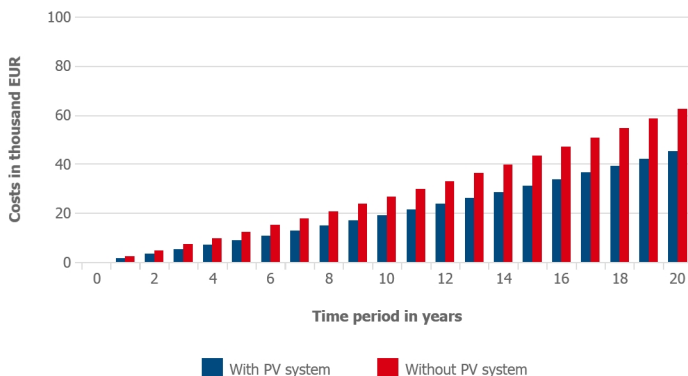
Today with PV system

1,583 EUR

Effective savings



Comparison of cumulative electricity costs



Profitability analysis

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Cost structure

PV system costs

The total costs for the PV modules are **0.00 EUR**

The average power degradation of the PV modules is **0.50 %**

The total costs for the inverters and PV system monitoring are **0.00 EUR**

The costs for planning and installation are **0.00 EUR**

The annual fixed costs are **0.00 EUR**

The total investment is **0.00 EUR**

The specific investment costs of the PV system (CapEx / kWp) are **0.00 EUR/kWp**

Financing

The currency is **EUR**

The equity ratio is **100 %**

The debt ratio is **0 %**

The grant amount is **0.00 EUR**

The inflation rate is **3.00 %**

The analysis period of profitability is **20 Years**

Electricity purchase costs and feed-in tariff

The electricity purchase price is **0.25000 EUR/kWh**

Special tariffs are not taken into account

The annual rate of electricity price increase is **3.0 %**

The feed-in tariff is **0.04500 EUR/kWh**

The duration of the feed-in tariff is **20 Years**

Deduction or feed-in tariff in case of self-consumption is **0.00000 EUR/kWh**

The feed-in revenue on expiration of the remuneration period is **0.05000 EUR/kWh**