



REPORT

FEASIBILITY STUDY FOR A
PHOTOVOLTAIC POWER PLANT

INVESTOR

Date



WHY SOLAR?

Investing in solar energy is becoming very popular around the world, as more and more people become aware of the importance of preserving our planet and the need to switch to renewable energy sources. Solar power plants represent an excellent way to reduce the use of fossil fuels, as well as environmental pollution, while at the same time enabling electricity savings.

With the help of solar energy, through energy savings, electricity bills are reduced, but it also produces excess electricity that is handed back to the electricity distribution grid, which generates additional income.

Also, investing in solar is profitable because the price of electricity from fossil fuels is expected to rise, while the cost of building solar power plants will decrease.

Solar power plants don't pollute, don't emit harmful gases into the atmosphere and don't consume limited resources such as fossil fuels. On the other hand, they contribute to reducing global warming and promoting sustainable development and energy efficiency.

The availability of funds and subsidies to help with incentives to invest in solar contributes to reducing the required initial investment, accelerating the return on investment (ROI) and ensuring the safety and stability of the business.

Investing in solar energy has numerous benefits, not only for individuals and businesses, but also for the entire planet. More and more people are realizing the importance of switching to renewable energy sources and investing in the future. Be among them!



SUMMARY

Power of the PV power
plant [kWp]

Annual energy production
[kWh]

Annual energy savings
[EUR]

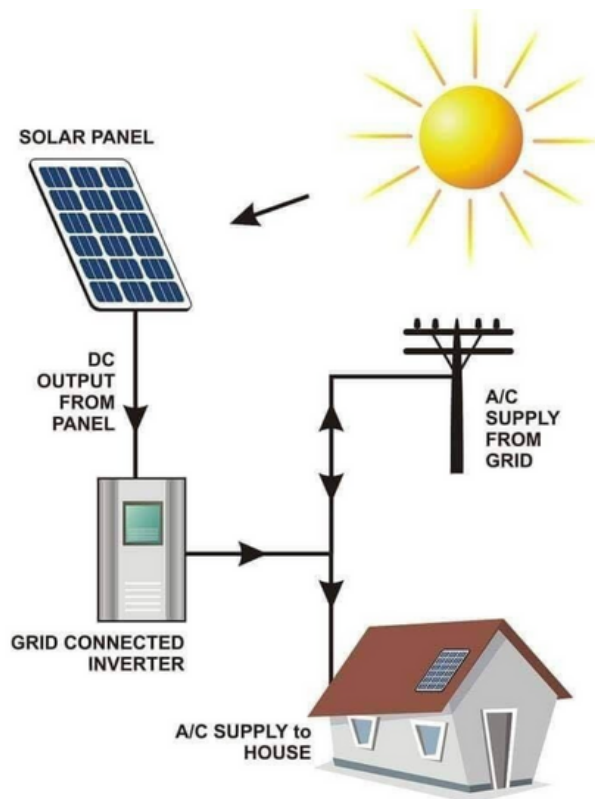
CO₂ emissions reduction for
30 years [tons]

Estimated value of the
investment [EUR]

Return on investment
[years]



EQUIPMENT RECOMMENDATION



PV MODULES

Nominal power [Wp] Quantity

DC cables lenght : m

Mounting system type - example :

INVERTERS

Nominal power [kW] Quantity

Note: This is an equipment recommendation based on basic calculations. Consultation with an expert to check the adequacy of the equipment is recommended.

GENERAL INFORMATIONS

Input data

Object location (coordinates) :

Input data per roof										
Roof number	1	2	3	4	5	6	7	8	9	10
Tilt angle [°]										
Azimuth angle [°]										
Free surface [m²]										

Energy consumption

Jan : kWh
 Feb : kWh
 Mar : kWh
 Apr : kWh
 May : kWh
 June : kWh
 July : kWh
 Aug : kWh
 Sept : kWh
 Oct : kWh
 Nov : kWh
 Dec : kWh

Maximum authorized power : kW

PV module

Nominal power : Wp
 Length : mm
 Width : mm

Working hours

Monday - Friday :
 Saturday :
 Sunday :

Annual vacations and repairs : days

Roof type :

Electricity data

Base price of electricity : EUR / MWh
 Additional grid fees : %
 Total electricity price : EUR / MWh
 Selling price of electricity : EUR / MWh

Investment cost : EUR / kWp

Output data

Recommended power of the PV power plant :	kWp
Maximum power that can be installed on the roofs :	kWp
Total estimated annual energy production :	kWh
Total used area of the roofs :	m ²
Annual energy savings in kWh :	kWh
Annual energy savings in % :	%
Annual energy savings in EUR :	EUR
Total energy savings in the exploitation period :	kWh
Annual energy surplus in kWh :	kWh
Annual energy surplus in % :	%
Total energy surplus in the exploitation period :	kWh
CO2 emissions reduction during the exploitation period :	tons
Estimated annual maintenance costs :	EUR
Estimated value of the investment :	EUR
ROI :	years

[illegible]

MONTHLY ENERGY DATA

	Energy consumption	Energy production	Energy surplus	Energy savings
Jan :	kWh	kWh	kWh	kWh
Feb :	kWh	kWh	kWh	kWh
Mar :	kWh	kWh	kWh	kWh
Apr :	kWh	kWh	kWh	kWh
May :	kWh	kWh	kWh	kWh
June :	kWh	kWh	kWh	kWh
July :	kWh	kWh	kWh	kWh
Aug :	kWh	kWh	kWh	kWh
Sept :	kWh	kWh	kWh	kWh
Oct :	kWh	kWh	kWh	kWh
Nov :	kWh	kWh	kWh	kWh
Dec :	kWh	kWh	kWh	kWh

The graph shows the diagram of the estimated electricity production from the solar power plant on a monthly basis during the year, as well as the energy consumption, surplus and savings.

FINANCIAL DATA

The cash-flow diagram shows the inflows and outflows of money during the operational period of the power plant with annual maintenance costs included.

Year	Status	Year	Status
2025 :	EUR	2040 :	EUR
2026 :	EUR	2041 :	EUR
2027 :	EUR	2042 :	EUR
2028 :	EUR	2043 :	EUR
2029 :	EUR	2044 :	EUR
2030 :	EUR	2045 :	EUR
2031 :	EUR	2046 :	EUR
2032 :	EUR	2047 :	EUR
2033 :	EUR	2048 :	EUR
2034 :	EUR	2049 :	EUR
2035 :	EUR	2050 :	EUR
2036 :	EUR	2051 :	EUR
2037 :	EUR	2052 :	EUR
2038 :	EUR	2053 :	EUR
2039 :	EUR	2054 :	EUR