

Kaarli tee

12,93 kWp

Kaarli tee

(58.27435 , 22.55061)



[Click here for 3D Model](#)

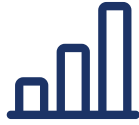




Annual Production

10,40

x 1000 kWh (Units)



Performance Ratio

81.04%



Specific Generation

804,60

kWh/kWp/year

Module DC Nameplate

12,93 kWp

AC Nameplate

15,00 kW

DC-AC Ratio

0.86

Weather Dataset

Meteonorm

System Pricing



Base Price	€23,274
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Add-ons	€0
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Discounts	€0
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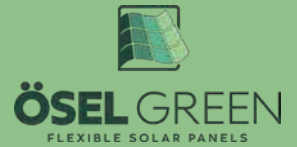
Total Payable Now (See Payment Schedule)	€23,274
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Incentives	-€0
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Effective Price after Incentives	€23,274
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Estimated Savings

The estimated savings using solar for the next 25 years along with Total Savings, Payback Period and IRR



Total Savings

44 131,00 EUR

Payback Period

12 yrs. 1 mon.

Internal Rate of Return

6,14%

Price

1,50 EUR/W

Tax

20%

Year 1 Usage Offset

89%

LCOE

€0,11/kWh

Expected Life Years

25 Years

Incentives

€ 0.00



Components

Your installation uses latest technology in solar



Modules

SINOLTECH ENERGY LIMITED FLEX-03N
03N-130 (130)W FLEX-03N 03N-130
(130)W - **33 No.**

SINOLTECH ENERGY LIMITED FLEX-
03NL 03NL-270 (270)W FLEX-03NL
03NL-270 (270)W - **32 No.**



Inverters

Symo 15.0-3-M Fronius - **1 No.**



Structure

Premium Structure

Expected Annual Production



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During the first year of operations, your system is expected to produce 10,40 x 1000 kWh over the year

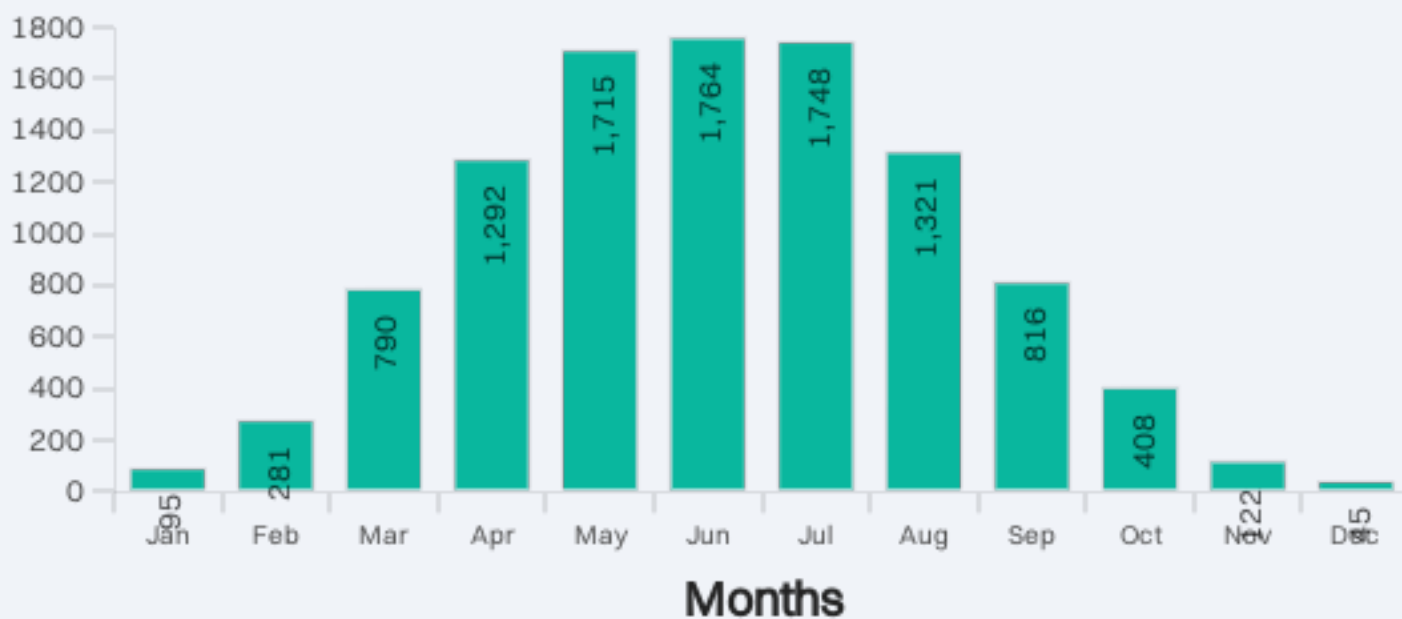
Expected average generation of the system

866,99 kWh/month

Yearly degradation rate

1.5%/year

kWh (Units)



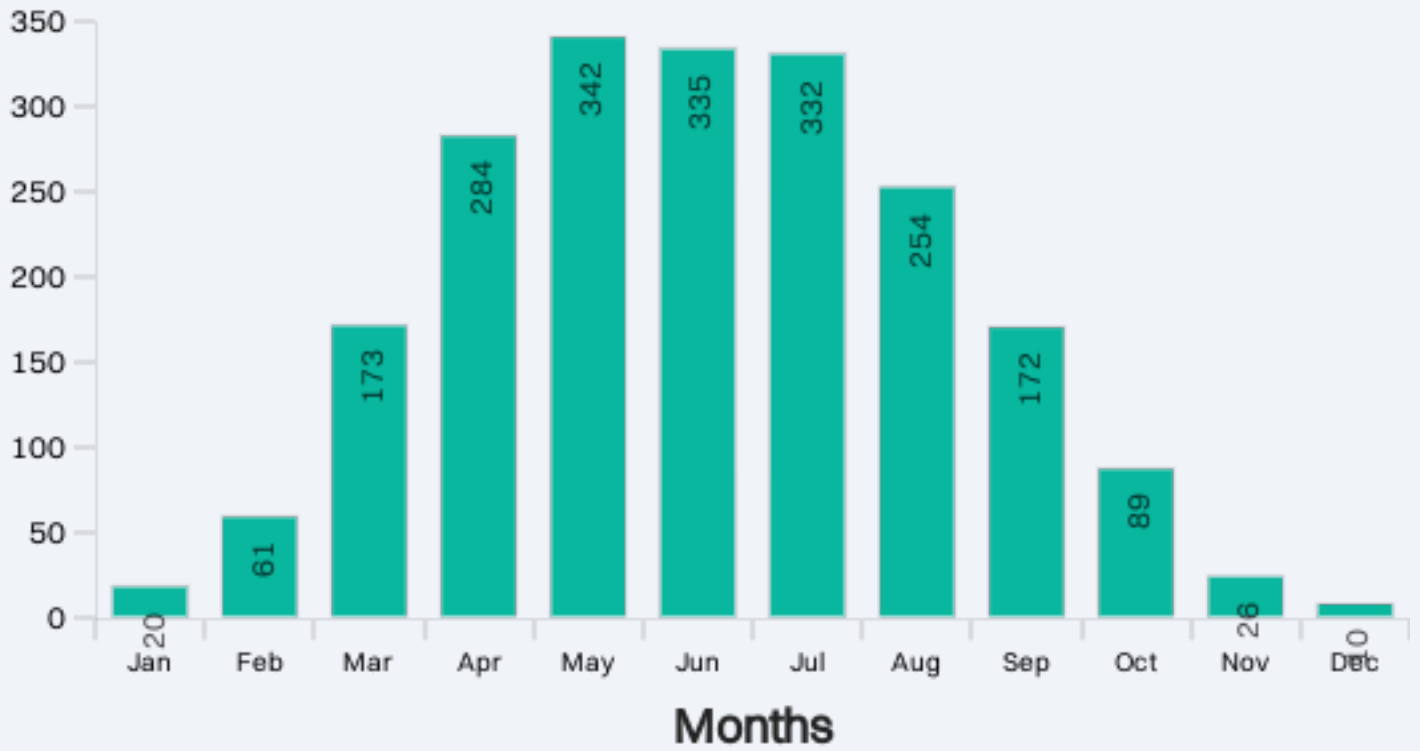
Monthly Savings

Estimated savings for each month during the first year.



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EUR



Monthly Table

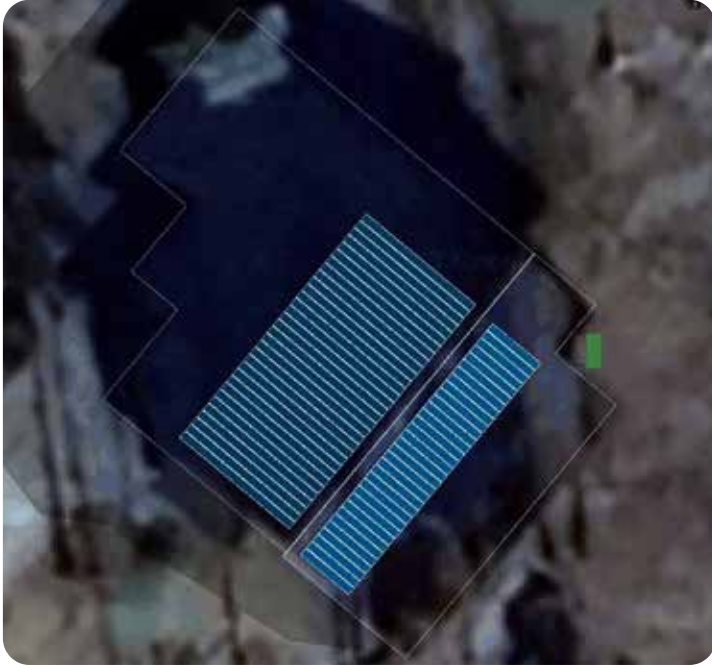
Months	Direct Irradiance (kWh/m2)	Diffused Irradiance (kWh/m2)	Effective Irradiance (kWh/m2)	DC Energy (kWh)	AC Energy (kWh)	Specific Generation	Performance Ratio
January	8,90	6,90	8,96	100,26	95,28	7,37	82,25
February	25,90	16,30	26,13	296,17	281,48	21,77	83,31
March	73,40	34,10	73,49	831,37	790,13	61,11	83,15
April	120,90	57,70	120,65	1360,26	1292,79	99,98	82,87
May	167,30	60,80	166,67	1805,37	1715,83	132,70	79,62
June	173,00	83,30	172,02	1856,54	1764,46	136,46	79,33
July	174,90	80,10	174,13	1840,05	1748,78	135,25	77,67
August	129,40	68,80	128,92	1390,17	1321,22	102,18	79,26
September	78,70	43,30	78,40	859,44	816,81	63,17	80,57
October	38,50	23,70	38,64	429,92	408,59	31,60	81,78
November	11,50	8,90	11,52	128,96	122,56	9,48	82,29
December	4,40	3,60	4,43	48,38	45,98	3,56	80,36
Annual	1006,80	487,50	1003,96	10 946,89	10 403,91	804,63	81,04

Field Segments

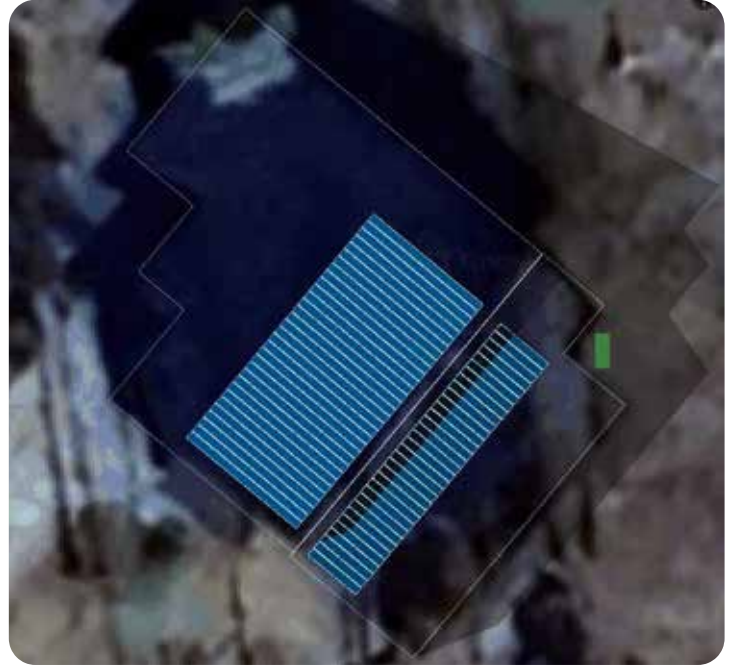
Name	Orientation	Tilt	Azimuth	Row Spacing	Frame Size	Modules	Power
Subarray #4	Portrait	11 °	130 °	0.025 m	1x1	33	4.29 kWp
Subarray #3	Portrait	10 °	310 °	0.025 m	1x1	32	8.64 kWp

Shading Analysis

June 21 | 9:00:00 AM



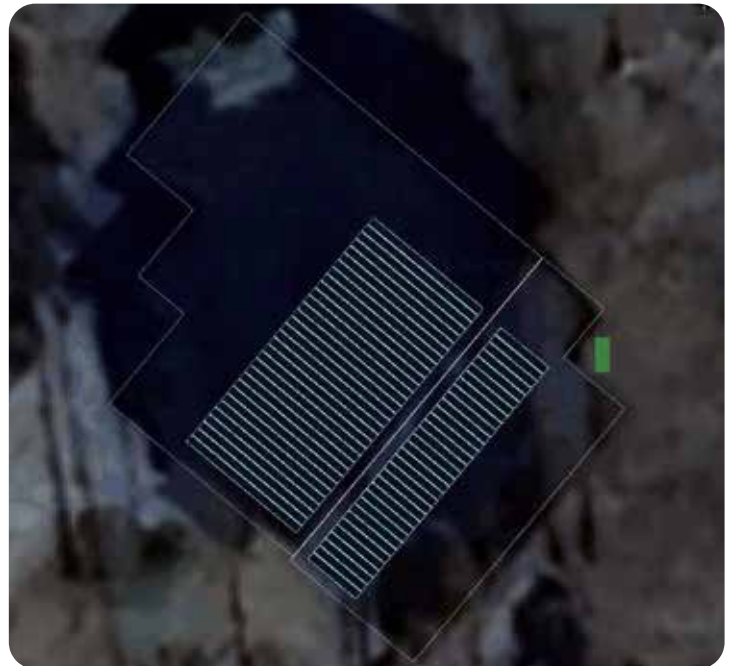
June 21 | 5:00:00 PM



December 21 | 9:00:00 AM



December 21 | 5:00:00 PM



Summary: Modules are shadow free for 96.02% of solar time throughout the year.

Irradiance Map



Solar Access

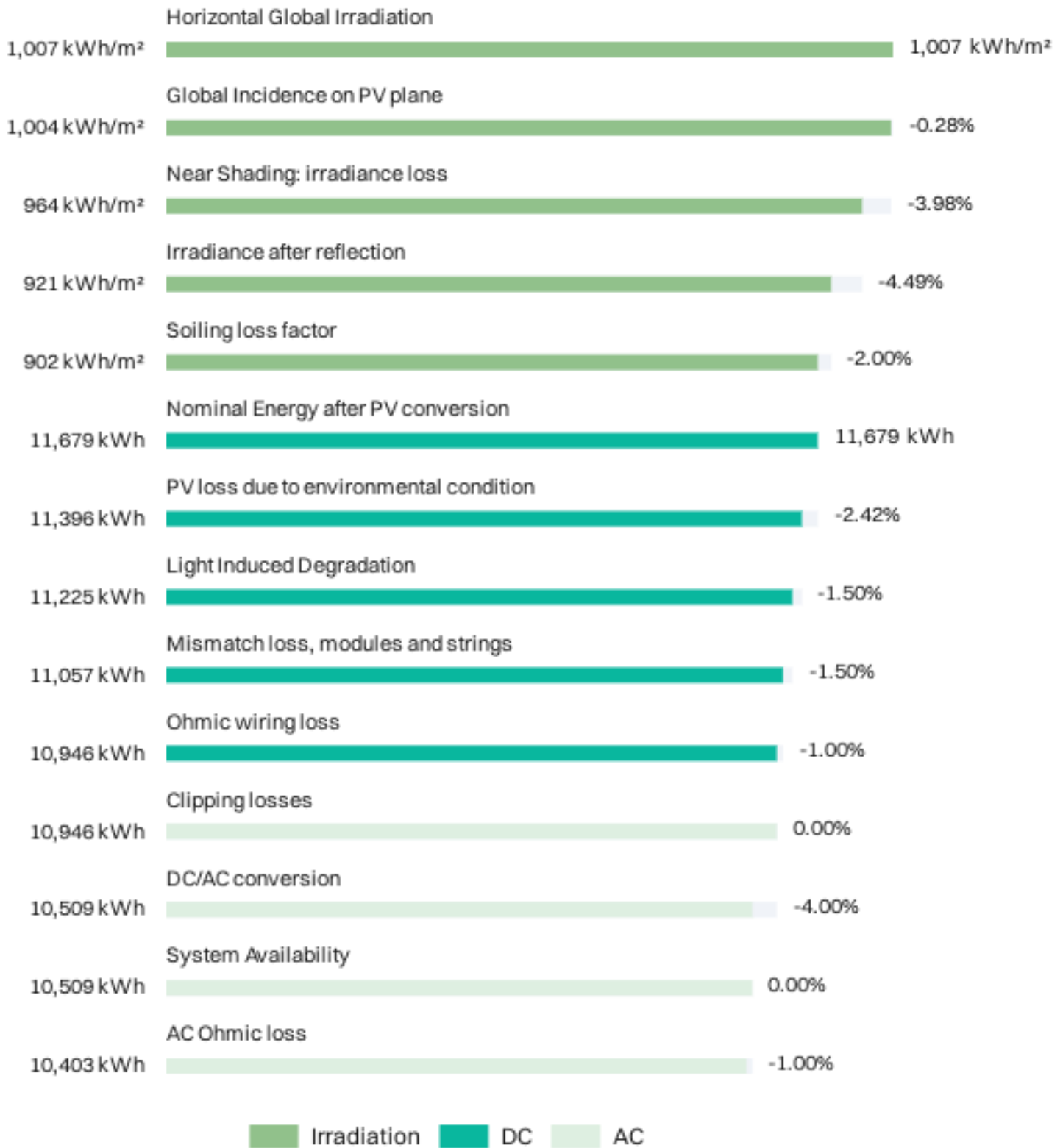


System Production Losses

Loss in generation predicted due to environmental and electrical factors



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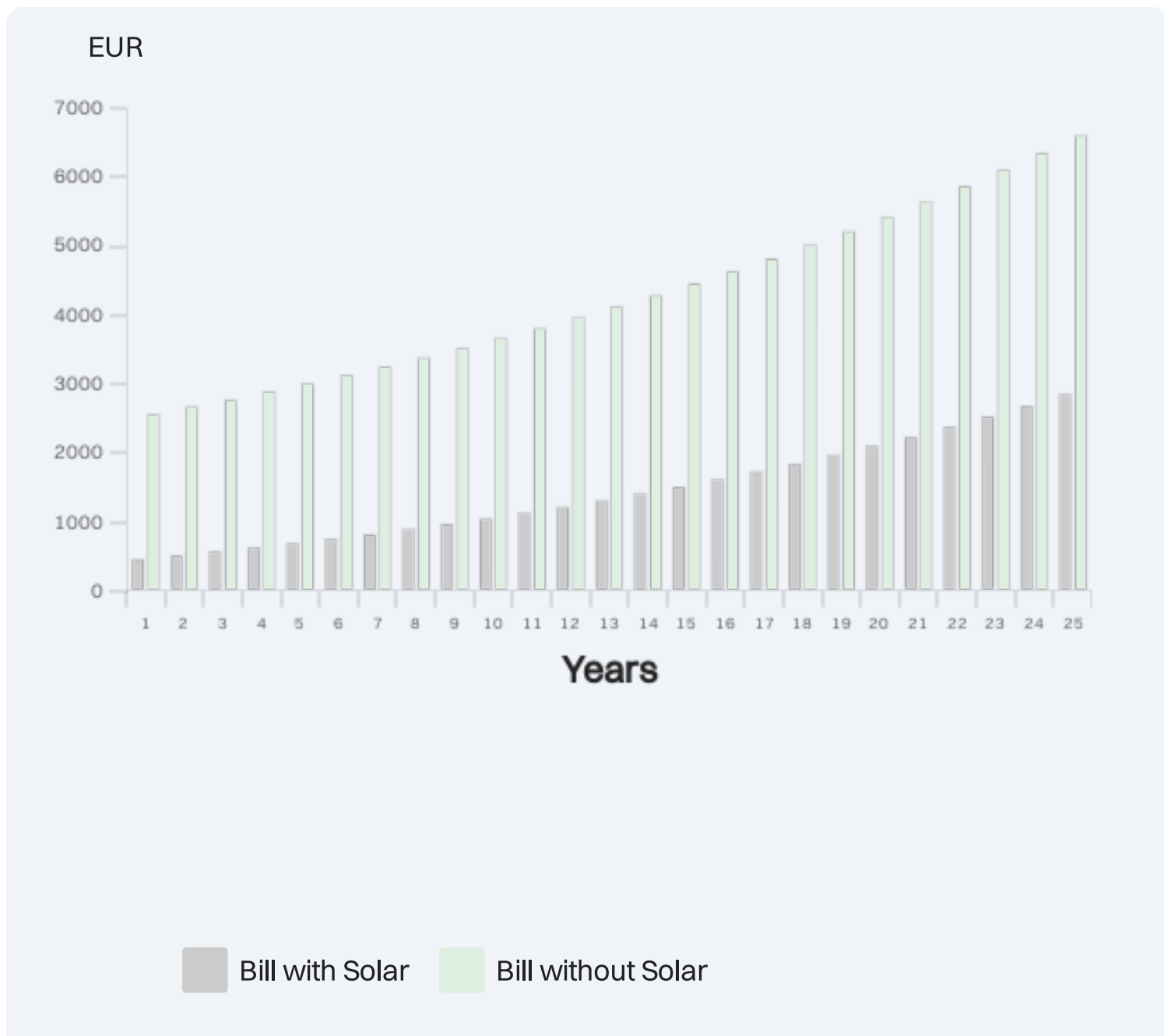


Cost of Not Going Solar

Your estimated annual electricity bill with and without solar for next 25 years

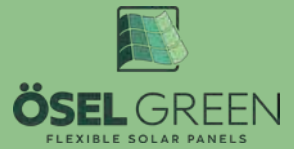


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Environmental Impact

You are contributing to solve Earth's biggest problem - Climate Change.



Carbon Dioxide Offset

154,30

metric tons

Equivalent Acres of Forest

181,14

acres/year

Coal Burn Avoided

76,52

metric tons

Equivalent Number of Trees Planted

2553,00 trees

Petrol Consumption Avoided

65 811,40 litres

Equivalent Kilometers Driven

606 725,65 kms