



PV Park

Project: Ip, SJ
Land Surface: 1.26 Ha
Installed PV Power: 1.078 MWp
Maximum Power Output to Grid: 0.9 MW





Curves Level





Layout Photovoltaic Park





PV Productions

Peak power: 1.078 MWp

Module surface: 4 408.3 m²

Total number of modules: 1 632

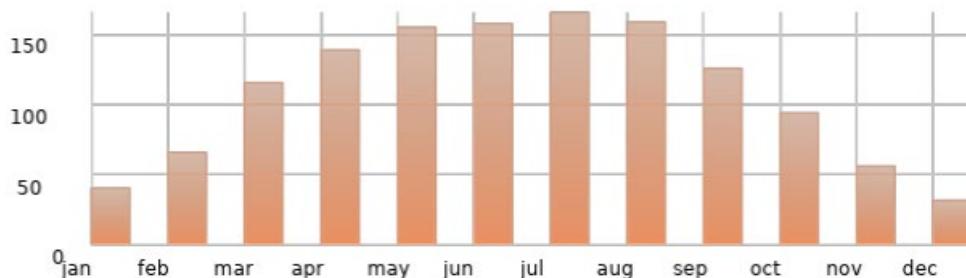
Total number of inverters: 8

Average values:

Annual production (DC): 1 394 MWh

Annual production (AC): 1 306 MWh

Monthly AC production (MWh/month):

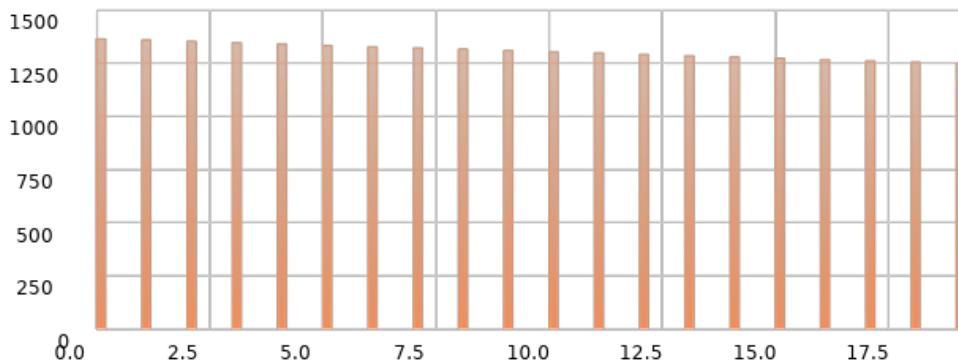


Months	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
MWh	40	66	116	139	155	158	166	159	126	94	56	32



Productions

AC production year by year (MWh):



Years	11	12	13	14	15	16	17	18	19	20
MWh	1 303	1 297	1 290	1 284	1 278	1 272	1 266	1 260	1 254	1 248

EMISSIONS AVOIDED: 552 CO2 equivalent (ton) *

* Quantity of greenhouse gases that would have been emitted during the observation period if this electricity had been generated through conventional means (20 g eq CO2/kWh)

* Important: this does not mean that all the emissions would be avoided, since the process of manufacturing and transporting PV modules also generates greenhouse gas emissions.



Economics

Costs:

Investment: 641 410 EUR
 Inverter renewal: 55 879 EUR
 Maintenance: 1.00 %

Bank loan:

Amount: 641 410 EUR
 Interest rate: 3.50 %

Discounting:

Inflation rate: 2.00 %
 Equity rate: 3.00 %

Project type:

Total sale

Energy sales price produced:

0.0600 EUR/kWh

Price evolution:

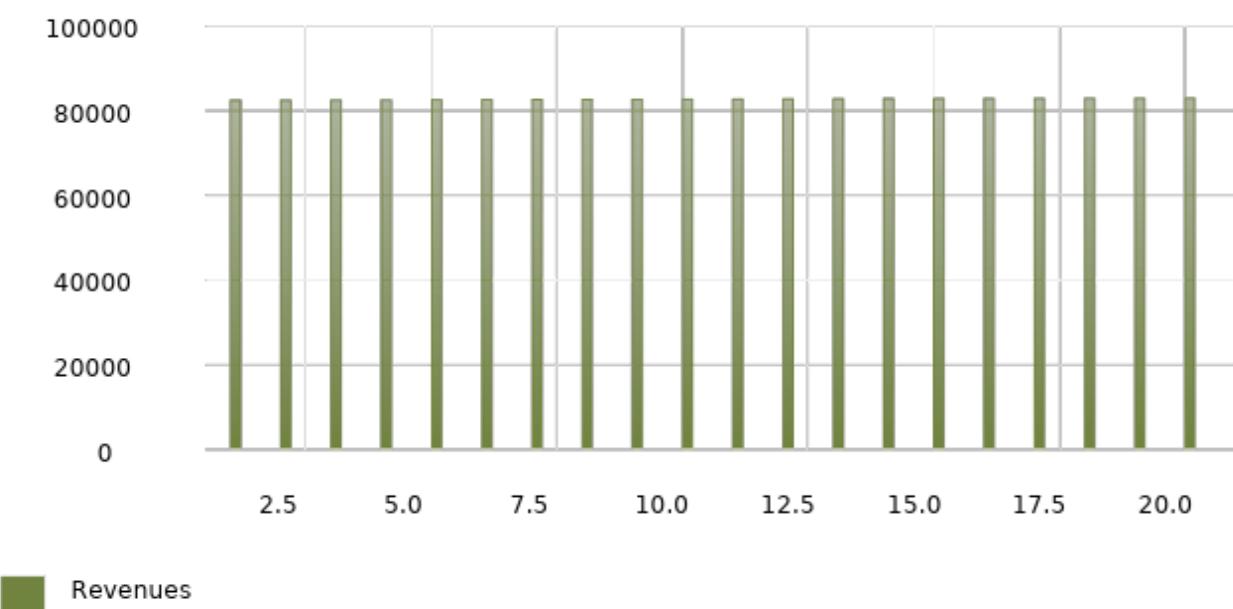
+ 0.5 %/year

Economic results:

Annual revenue: 82 535 EUR/year
 Cumulated revenues: 1.651 million EUR
 Maintenance cost: 7 948 EUR/year

LCOE: 0.036 EUR/kWh
 Net present value: 382 492 EUR
 Payback period: 9 year(s)
 Discounted payback period: 12 year(s)
 Internal rate of return: 9.50 %

Revenues year by year (EUR):





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Mecanism de achiziție centralizată de energie electrică (MACEE) » Contracte pentru Diferență (CID) » Anunțuri - Știri » Compania » Guvernări corporativă » Importanță pentru consumatorii » Prețul mediu ponderat pe PZU pentru august 2025: 409,45 lei/MWh

60 EUR / MWh
Price for 5-years average-PPA (Public Purchase Agreement)

EU IPO INTELLECTUAL PROPERTY OFFICE

ROPEX_DAM_H

	1	2	3	4	5	6	7	8	9	10	11	12	
ROPEX_DAM_Base	720,39	477,70	467,55	463,60	465,30	465,18	517,20	880,27	1.399,53	855,00	593,01	467,39	445,06
ROPEX_DAM_Peak	786,42	13	14	15	16	17	18	19	20	21	22	23	24
ROPEX_DAM_Off_Peak	654,36	413,25	406,34	443,30	462,11	545,36	874,78	1.769,40	2.162,00	884,87	688,65	600,54	2,46

ROPEX_FM_M

	ian	feb	mar	apr	mai	iun	iul	aug	sep	oct	nov	dec	
ROPEX_FM_2024	498,90	570,29	566,27	471,77	473,65	459,20	465,66	486,90	497,59	497,97	510,17	511,08	512,15
ROPEX_FM_2025	525,77	526,85	526,01	519,46	505,10	504,57	507,20	538,41	533,26	531,11	536,01	539,70	539,40
ROPEX_FM_2026	568,76	571,01	571,01	571,01	567,55	567,49	567,55	568,20	568,13	568,19	568,16	568,15	568,20

Pieța la termen 2024-2026 [lei/MWh]

ROPEX_GC_M

	ian	feb	mar	apr	mai	iun	iul	aug	sep	oct	nov	dec
145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43	145,43
146,25	146,25	-	146,25	146,25	146,25	146,25	146,25	146,25	146,25	-	-	-

Certificare Verzi (PCSCV) 2024-2025 [lei/CV]

Resultate PZU 29.09.2025

ROPEX_DAM

Base	Peak	Off-Peak
720,39	786,42	654,36
40,085,9	21,071,4	19,014,5

Resultate cuplare: 29.09.2025

Day-Ahead (SDAC)
Intra-Day (SIDC CT/IDA)

Resultate PC-OTC

Livrare oct. 25 nov. 25 dec. 25

Livrare	oct. 25	nov. 25	dec. 25
Pret [lei/MWh]	560,52	563,31	564,31
Volum [MWh]	521,105	546,640	571,000

Resultate PCCB & PCE-ESRE-CV

Livrare oct. 25 nov. 25 dec. 25

Livrare	oct. 25	nov. 25	dec. 25
Pret [lei/MWh]	513,11	519,09	517,98
Volum [MWh]	1.283,680	1.294,603	1.321,456

Opcom Anunțuri

- 08/05/2025 A fost publicat: Anunțul privind selecția membrilor Consiliului de administrație al Societății Operatorul Pieței de Energie Electrică și de Gaze Naturale „OPCOM” S.A.
- 15/09/2025 Importanță: DECIZIA (UE) 2025/1771 A COMISIEI din 8 septembrie 2025 privind taxele datorate Agenției Uniunii Europene pentru Cooperarea Autorităților de Reglementare din Domeniul Energiei
- 12/09/2025 Vă informăm că a fost avizată de către ANRE Procedura privind constituirea și actualizarea garanțiilor financiare de către plătitorii de contribuție CID și executarea garanțiilor financiare
- 01/09/2025 În conformitate cu prevederile Ordinului ANRE nr. 15/2022, OPCOM rămâne în operație

Opcom Comunicate de presă

- 12/09/2025 Produsele de 15 minute vor fi introduse pe piata de energie electrică pentru ziua următoare
- 05/09/2025 Participanți noi în luna august
- 11/08/2025 25 de ani de dezvoltare cu succes ai OPCOM

Ştiri

- 24/03/2025 Energyomics: Maria De Melo (BERD) consideră piata de energie regenerabilă din România drept un model pentru Europa
- 10/03/2022 Recital Europei la "COMUNICAREA COMISIEI CĂTRE PARLAMENTUL EUROPEAN, CONSILIU EUROPEAN, CONSILIUL, COMITETUL

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Estimated results

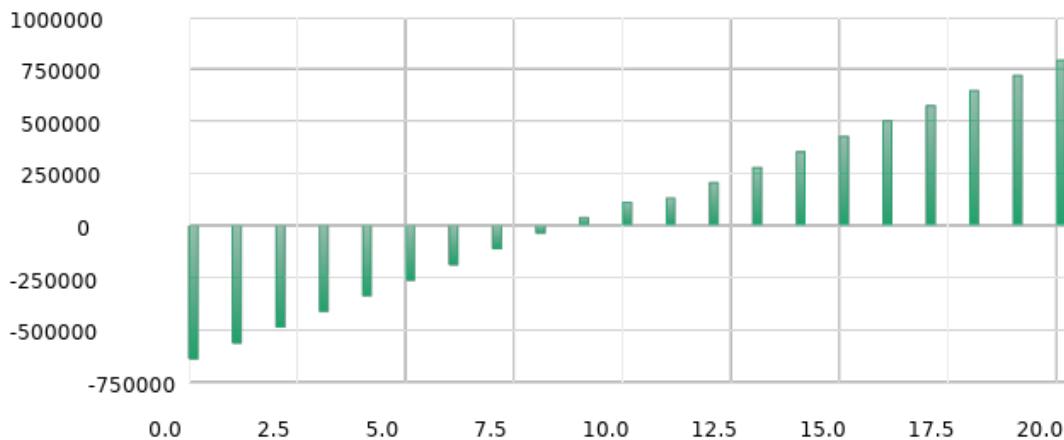
Year	1	2	3	4	5	6	7	8	9	10
Production (kWh)	5 169 760	5 144 956	5 120 207	5 095 503	5 070 895	5 046 331	5 021 830	4 997 407	4 973 079	4 948 777
Selling										
Prices (EUR/kWh)	0.0603	0.0606	0.0609	0.0612	0.0615	0.0618	0.0621	0.0624	0.0628	0.0631
Sales revenue (EUR)	311 736.5	311 792.1	311 843.7	311 890.8	311 936.5	311 977.5	312 015.1	312 050.2	312 083.8	312 111.5
Total (EUR)										
Revenues	311 736.5	311 792.1	311 843.7	311 890.8	311 936.5	311 977.5	312 015.1	312 050.2	312 083.8	312 111.5
O and M	23 456.7	23 925.8	24 404.3	24 892.4	25 390.3	25 898.1	26 416.0	26 944.4	27 483.2	28 032.9
Inverter renewal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Results	288 279.8	287 866.3	287 439.3	286 998.4	286 546.2	286 079.5	285 599.1	285 105.8	284 600.5	284 078.6

Year	11	12	13	14	15	16	17	18	19	20
Production (kWh)	4 924 558	4 900 427	4 876 370	4 852 393	4 828 467	4 804 630	4 780 891	4 757 207	4 733 601	4 710 112
Selling										
Prices (EUR/kWh)	0.0634	0.0637	0.0640	0.0643	0.0647	0.0650	0.0653	0.0656	0.0660	0.0663
Sales revenue (EUR)	312 137.0	312 160.5	312 181.2	312 199.4	312 213.4	312 225.4	312 236.1	312 242.8	312 246.9	312 250.9
Total (EUR)										
Revenues	312 137.0	312 160.5	312 181.2	312 199.4	312 213.4	312 225.4	312 236.1	312 242.8	312 246.9	312 250.9
O and M	28 593.6	29 165.4	29 748.7	30 343.7	30 950.6	31 569.6	32 201.0	32 845.0	33 501.9	34 172.0
Inverter renewal	251 456.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Results	32 087.0	282 995.1	282 432.4	281 855.7	281 262.8	280 655.8	280 035.1	279 397.8	278 744.9	278 079.0



Economics

Cash flow illustration (EUR):



Years	11	12	13	14	15	16	17	18	19	20
EUR	129 787	204 247	278 566	352 739	426 762	500 630	574 337	647 879	721 251	794 448



Economics PV

Project assumptions		
Project name	Ip, Salaj	
Installed Capacity	1,078	MWp
Full load net hours	1.398	MWh/Mwp/year
Annual panel degradation	0,4%	p.a.
Energy base price	60	€/MWh
Inflation rate	2%	p.a.
Project cost breakdown		
Cost PV park per MWp	595.000	€/MWp
Cost PV park	641.410	€
Customer-Side Works Tu	500	€
Grid Connection Installations Tr	47.069	€
Grid Reinforcement Ti specific	-	€
Grid Connection Route	64.000	€
TOTAL COST PV park	688.978	€
Total Cost	752.978	€
Total Cost /MWp	698.496	€/MWp
Operational cost breakdown		
Insurance/ MW/year	3.000	€/MWp/year
Operation& Maintenance/ MW/year	1.500	€/MWp/year
Balancing & forecasting services	2.000	€/MWp/year
Accounting, bank, legal, Opcom fees etc	1.500	€/year
Utilities (energy and water)	2.000	€/MWp/year
Contingencies/year	2%	p.a.
Security services	1.000	€/MWp/year
Tax on land and construction	2.500	€/year
Depreciable assets	157.978	€
Depreciation period	20	years
Annual depreciation	7.899	€
Financial assumptions		
Equity	263.542	€
Loan Amount	489.436	€
Leverage	65%	%
VAT credit line (21% of CAPEX hard cost)	9.989	€
Interest rate loan - Euribor 1 M	2,68	%
Interest Margin	3,75	%
Loan Maturity	12	years
Grace period	12	months
Monthly Instalments	132	
Nominal cost of equity	15%	% p.a.
Cost of debt	6,4%	% p.a.
Tax rate	16%	% p.a.
WACC	8,8%	% p.a.
Financial ratios project		
IRR project	8%	%
IRR equity	9%	%
NPV project	(56.175)	€
Payback period	9	years

According to the approved Engineering Solution Study, the indicative cost of grid reinforcement works (TI) is estimated at approximately 6.475€. This value will be reassessed at the commissioning stage, and experience from similar projects shows that the final reinforcement costs tend to decrease significantly.

