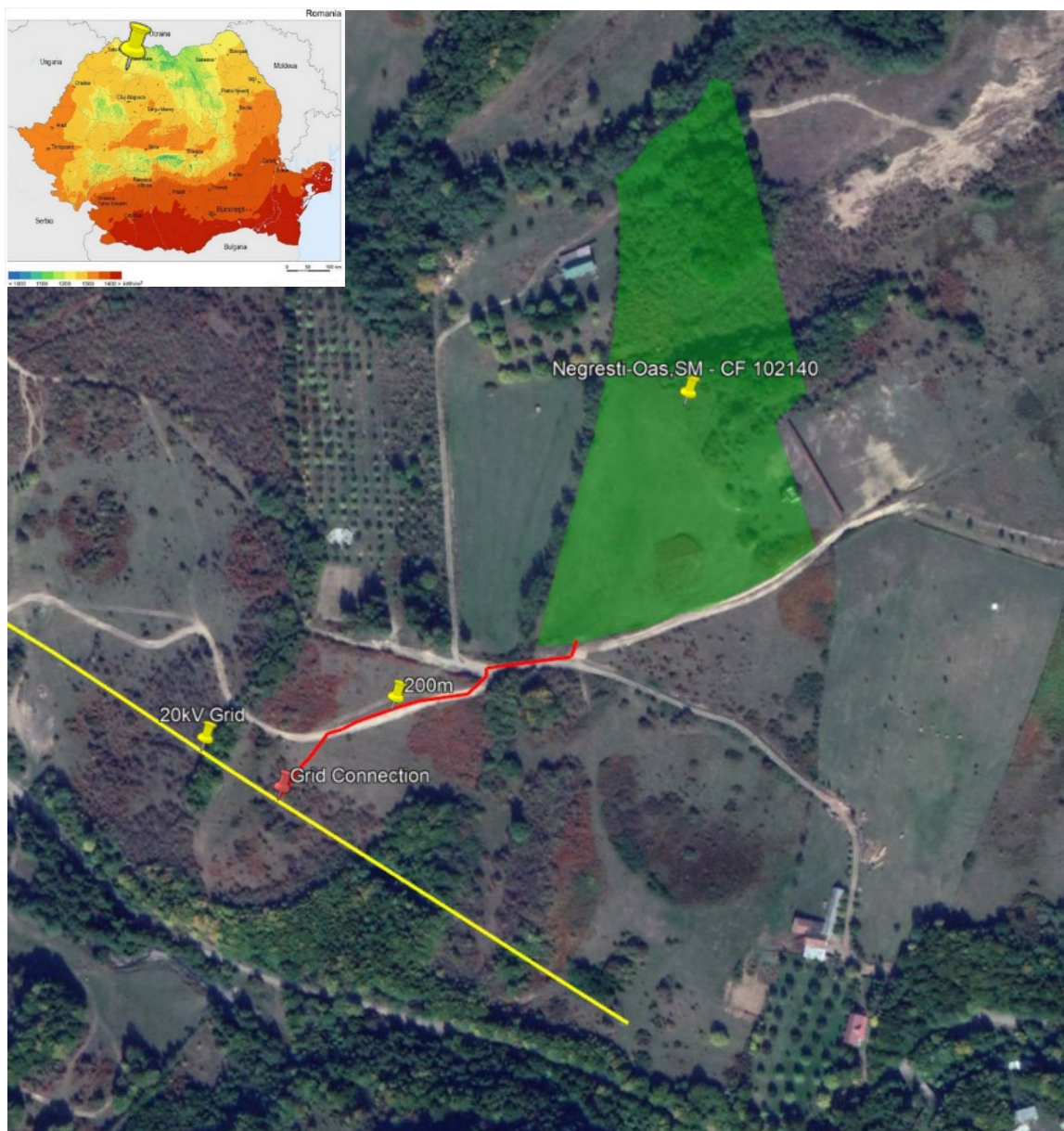




PV Park

Project: Negresti-Oas, SM
Land Surface: 2.56 Ha
Installed PV Power: 1.705 MWp
Maximum Power Output to Grid: 1.5 MW





Curves Level





Layout Photovoltaic Park





PV Productions

Peak power: 1.7 MWp

Module surface: 6 977.2 m²

Total number of modules: 2 583

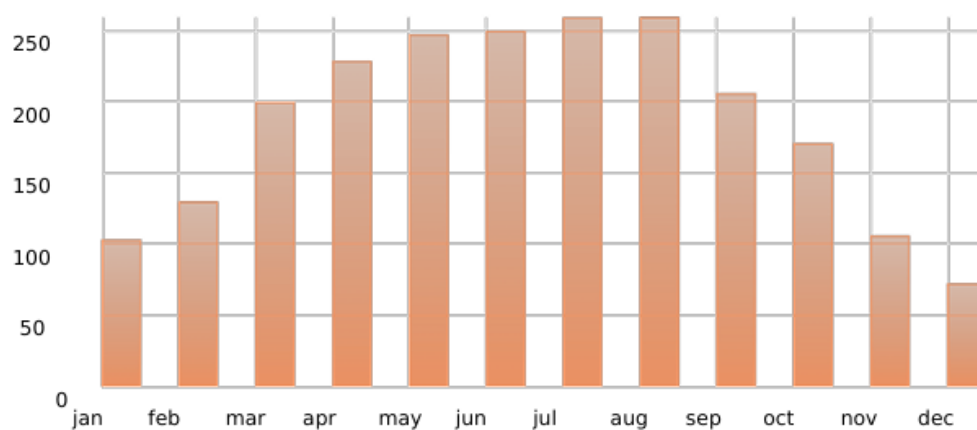
Total number of inverters: 17

Average values:

Annual production (DC): 2 377 MWh

Annual production (AC): 2 232 MWh

Monthly AC production (MWh/month):

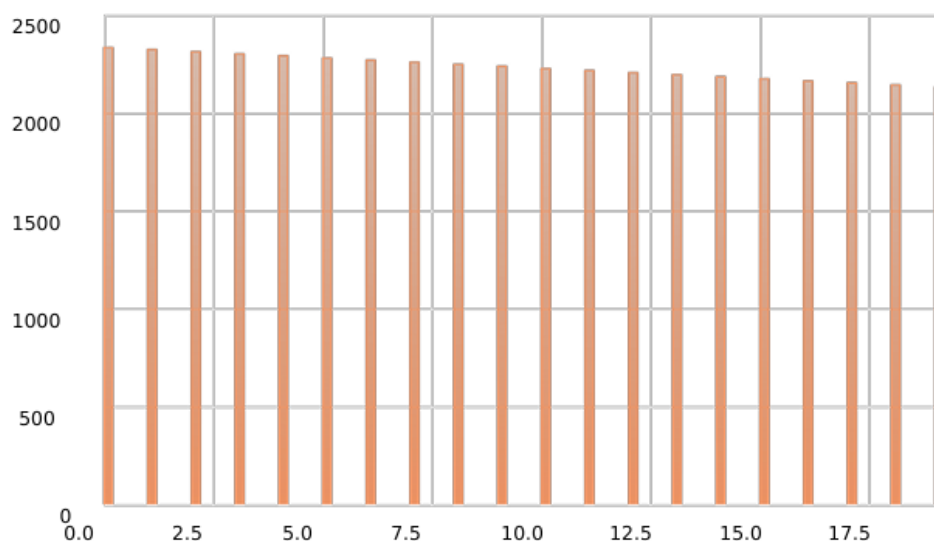


| Months | Jan | Feb | Mar | Apr | May | June | Jul | Aug | Sep | Oct | Nov | Dec |
|--------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| MWh | 103 | 130 | 200 | 229 | 247 | 250 | 259 | 260 | 206 | 171 | 106 | 72 |



Productions

AC production year by year (MWh):



| Years | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MWh | 2 333 | 2 322 | 2 311 | 2 301 | 2 290 | 2 279 | 2 268 | 2 258 | 2 247 | 2 236 |

| Years | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MWh | 2 226 | 2 215 | 2 204 | 2 194 | 2 183 | 2 173 | 2 162 | 2 152 | 2 141 | 2 131 |

EMISSIONS AVOIDED: 893 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: 1.014 million EUR
Inverter renewal: 118 743 EUR
O and M: 1.00 %

Bank loan:

Amount: 1 014 475 EUR
Interest rate: 3.50 %

Discounting:

Inflation rate: 2.00 %
Equity rate: 3.00 %

Project type: Grid-connected

Energy sales price produced:

0.0600 EUR/kWh

Price evolution:

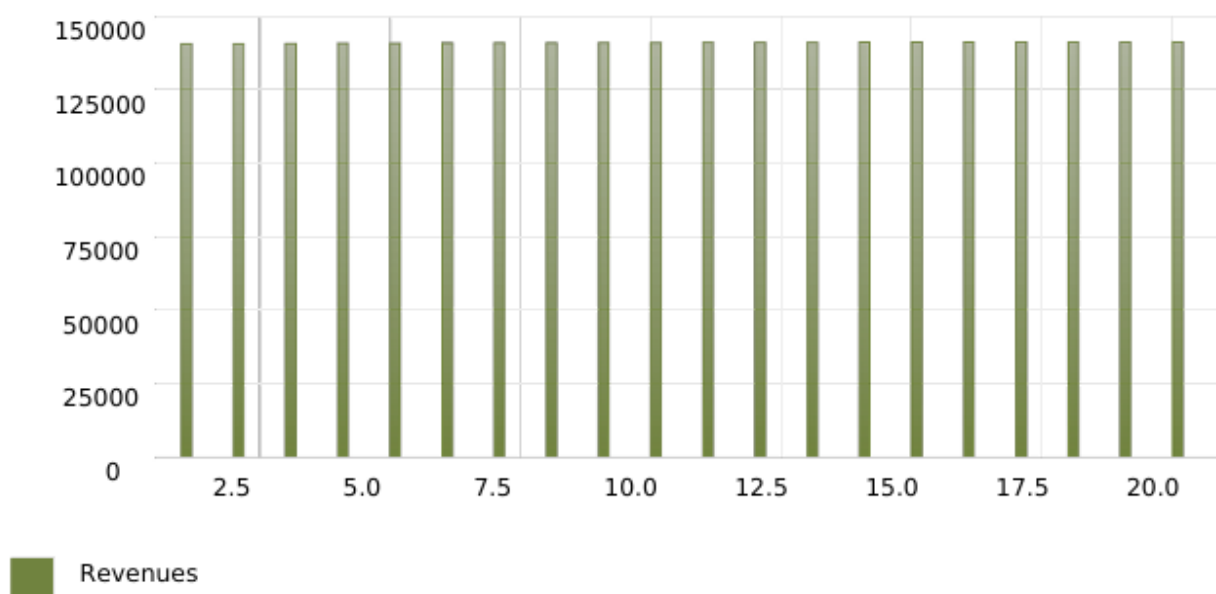
+ 0.5 %/year

Economic results:

Annual revenue: 141 021 EUR/year
Cumulated revenues: 2.820 million EUR
Maintenance cost: 12 571 EUR/year


LCOE: 0.034 EUR/kWh
Net present value: 733 261 EUR
Payback period: 8 year(s)
Discounted payback period: 10 year(s)
Internal rate of return: 10.70 %

Revenues year by year (EUR):







****According to www.opcom.ro**



*earning every day-ahead your trust
stepping forward to the future*

opcom operatorul pieței de energie electrică și de gaze naturale din România

Tranzacții - Rezultate
Tranzacționare - Produse
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Compania

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Tranzacționare - Produse »

Mecanism de achiziție centralizată de energie electrică (MACEE) »

Contracte pentru Diferență (CFD) »

Anunțuri - Știri »

Compania »

Guvernanță Corporativă »

Important pentru prosumatorii
Prețul mediu ponderat pe PZU pentru
august 2025: 409,45 lei/MWh

EUIPO

| | 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 | 600,00 | 542,46 |

ROPEX_FM_M

Piața la termen 2024-2026 [lei/MWh]

| | 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 | 469,20 | 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 |

ROPEX_GC_M

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

| | 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 | - | - | - |

60 EUR / MWh

Price for 5-years average-PPA
(Public Purchase Agreement)

Opcom Anunțuri

08/05/2025
A fost publicat: Anunțul privind selecția membrilor Consiliului de administrație la Societatea Operatorul Pieței de Energie Electrică și de Gaze Naturale „OPCOM” S.A.

15/09/2025
Important: 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 CFD și executarea garanțiilor financiare

01/09/2025
În conformitate cu prevederile Ordinului ANRE nr. 15/2022 OPCOM publică prețul

Raport de piață
Săptămânal / Lunar / Anual

Rapoarte de analiză a pieței

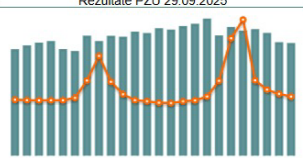
Progresul integrării pieței angro de energie electrică UE – Raport de monitorizare a pieței 2024

Documente REMIT - ACER

Documente REMIT - OPCOM

Cuplarea prin Preț a Regiunilor


Rezultate PZU 29.09.2025



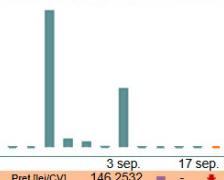
| | Base | Peak | Off-Peak |
|-------------|----------|----------|----------|
| ROPEX_DAM | 720,39 | 786,42 | 654,36 |
| Volum [MWh] | 40.085,9 | 21.071,4 | 19.014,5 |

Rezultate cuplare: 29.09.2025

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

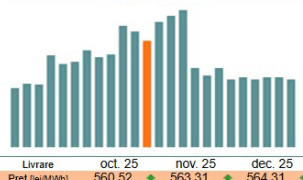


Rezultate PCSCV



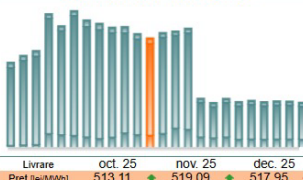
| | 3 sep. | 17 sep. |
|---------------|----------|---------|
| Preț [lei/CV] | 146,2532 | - |
| Numar CV | 50 | 0 |

Rezultate PC-OTC



| | Livare | oct. 25 | nov. 25 | dec. 25 |
|----------------|---------|---------|---------|---------|
| Preț [lei/MWh] | 560,52 | 563,31 | 564,31 | 564,31 |
| Volum [MWh] | 521.105 | 546.640 | 571.000 | 571.000 |

Rezultate PCCB & PCE-ESRE-CV



| | Livare | oct. 25 | nov. 25 | dec. 25 |
|----------------|-----------|-----------|-----------|-----------|
| Preț [lei/MWh] | 513,11 | 519,09 | 517,95 | 517,95 |
| Volum [MWh] | 1.283.680 | 1.294.603 | 1.321.456 | 1.321.456 |

Disclaimer

Sitemap

Links

CV, PCV, EM POWER S.R.L. (PC-OTC), ECOTERRA BIOGAS S.R.L. (PZU), SHIKUN AND BINUI ENERGY SATU MARE S.R.L. (PZU, P)

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Opcom Comunicate de presă

- 12/09/2025
Produsele de 15 minute vor fi introduse pe piața 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

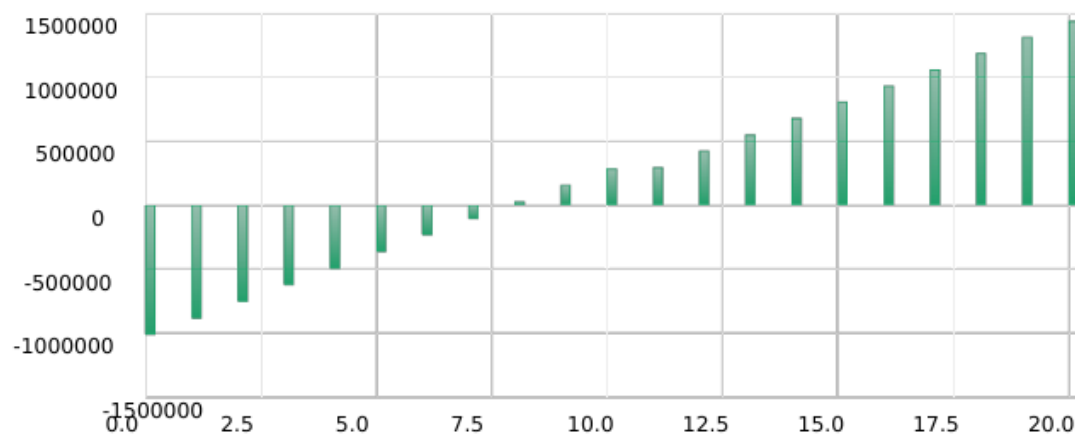
Știri

- 24/03/2025
Energinomics: Maria De Melo (BERD) consideră piața de energie regenerabilă din România drept un model pentru Europa
- 10/03/2022
Reacția Europex la "COMUNICAREA COMISIEI CĂTRE PARLAMENTUL EUROPEAN, CONSILIUL EUROPEAN, CONSILIUL COMITETUL EUROPEAN DE COOPERARE EUROPEANĂ"



Economics

Cash flow illustration (EUR):



| Years | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|----------|----------|----------|----------|----------|----------|----------|--------|---------|---------|
| EUR | -884 152 | -753 986 | -623 983 | -494 150 | -364 495 | -235 024 | -105 743 | 23 341 | 152 222 | 280 893 |

| Years | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|---------|---------|---------|---------|---------|---------|-----------|-----------|-----------|-----------|
| EUR | 290 604 | 418 834 | 546 834 | 674 598 | 802 118 | 929 385 | 1 056 392 | 1 183 133 | 1 309 600 | 1 435 786 |



Estimated results

| Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Production (kWh) | 2 332 854 | 2 322 060 | 2 311 295 | 2 300 539 | 2 289 781 | 2 279 036 | 2 268 313 | 2 257 606 | 2 246 923 | 2 236 262 |
| 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) | 140 671.1 | 140 720.3 | 140 768.3 | 140 813.8 | 140 856.1 | 140 896.0 | 140 934.3 | 140 970.4 | 141 004.8 | 141 037.5 |
| Total (EUR) | | | | | | | | | | |
| Revenues | 140 671.1 | 140 720.3 | 140 768.3 | 140 813.8 | 140 856.1 | 140 896.0 | 140 934.3 | 140 970.4 | 141 004.8 | 141 037.5 |
| O and M | 10 347.6 | 10 554.6 | 10 765.7 | 10 981.0 | 11 200.6 | 11 424.6 | 11 653.1 | 11 886.2 | 12 123.9 | 12 366.4 |
| Inverter renewal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Results | 130 323.5 | 130 165.7 | 130 002.6 | 129 832.8 | 129 655.4 | 129 471.4 | 129 281.1 | 129 084.2 | 128 880.9 | 128 671.1 |

| Year | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Production (kWh) | 2 225 615 | 2 214 992 | 2 204 399 | 2 193 832 | 2 183 284 | 2 172 736 | 2 162 212 | 2 151 724 | 2 141 262 | 2 130 824 |
| 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) | 141 067.8 | 141 096.5 | 141 123.8 | 141 149.6 | 141 173.3 | 141 193.7 | 141 212.3 | 141 230.0 | 141 246.0 | 141 260.2 |
| Total (EUR) | | | | | | | | | | |
| Revenues | 141 067.8 | 141 096.5 | 141 123.8 | 141 149.6 | 141 173.3 | 141 193.7 | 141 212.3 | 141 230.0 | 141 246.0 | 141 260.2 |
| O and M | 12 613.7 | 12 866.0 | 13 123.3 | 13 385.8 | 13 653.5 | 13 926.6 | 14 205.1 | 14 489.2 | 14 779.0 | 15 074.6 |
| Inverter renewal | 118 743.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Results | 9 710.8 | 128 230.5 | 128 000.5 | 127 763.8 | 127 519.8 | 127 267.1 | 127 007.2 | 126 740.8 | 126 467.1 | 126 185.7 |



Economics PV

| Project assumptions | | |
|--|-------------------------|--------------|
| Project name | Negresti Oas, Satu Mare | |
| Installed Capacity | 1,705 | MWp |
| Full load net hours | 1.398 | MWh/MWp/year |
| Annual pannel 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 | 1.014.475 | € |
| Customer-Side Works Tu | 500 | € |
| Grid Connection Installations Tr | 42.768 | € |
| Grid Reinforcement Ti specific | 19.338 | € |
| Grid Connection Route | 8.000 | € |
| TOTAL COST PV park | 1.077.081 | € |
| Total Cost | 1.085.081 | € |
| Total Cost /MWp | 636.411 | €/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 | 490.081 | € |
| Depreciation period | 20 | years |
| Annual depreciation | 24.504 | € |
| Financial assumptions | | |
| Equity | 379.778 | € |
| Loan Amount | 705.303 | € |
| Leverage | 65% | % |
| VAT credit line (21% of CAPEX hard cost) | 13.147 | € |
| 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 | 9% | % |
| IRR equity | 12% | % |
| NPV project | 42.073 | € |
| Payback period | 9 | years |

According to the approved Engineering Solution Study, the indicative cost of grid reinforcement works (TI) is estimated at approximately 19.338,06€. This value will be reassessed at the commissioning stage, and experience from similar projects shows that the final reinforcement costs tend to decrease significantly.