Proyecto solar fotovoltaico + baterias Rumania

Cod. RTEB – 102,4 Mw fotovoltaic + 186 Mw baterias

INTRODUCCIÓN

Proyecto solar fotovoltaico de 102,4 Mw y en baterías de 186 Mw en desarrollo en oeste de Rumania.

DATOS DEL PROYECTO

Ubicación del proyecto	Rumania
Potencia del proyecto fotovoltaico	102,4 Mw
Irradiación anual [kWh/m2]	1658.57
Producción anual FV [kWh]	154557152.22
Potencia del proyecto de baterías	186 MW
Terreno	160 ha
Alquiler de terreno	1800 euro/ha/año
Cadastro, Certificado de urbanismo (CU)	Obtenido

DATOS DEL PROYECTO

PUZ (Plano de urbanismo zonal)	Obtenido
Estudio topográfico	Obtenido
Estudio geotécnico, sin problemas de inundaciones, si sitios arqueológicos	Obtenido
Licencia ambiental, el terreno no es cerca o en zona Natura 2000	Obtenido
Autorizaciones y licencias de - COMPET, CFR, Ministerio de Cultura, Ministerio del Interior, Ministerio de Defensa Nacional, Ministerio de Salud, SRI, Aguas Rumanas	En tramite
Licenciade emplazamiento del parque de parte de Distribuidora Eléctrica Zonal	Obtenido
Estudio de solución de conexión	Obtenido
Contrato de conexión	18.787 euro/Mw
ATR (Technical Connection Approval)	Obtenido

www.jinkosolar.com

JinKO Solar
Building Your Trust in Solar

Tiger Neo N-type 78HL4-BDV

590-610 Watt

BIFACIAL MODULE WITH DUAL GLASS

N-Type

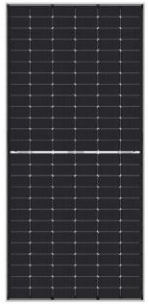
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems



Key Features

SMBB Technology
Better light trapping and current collection to improve module power output and reliability.

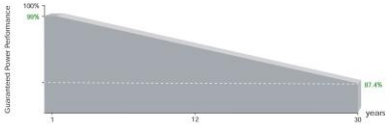
Hot 2.0 Technology
The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Higher Power Output
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

LINEAR PERFORMANCE WARRANTY

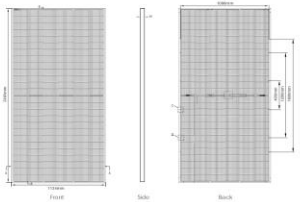


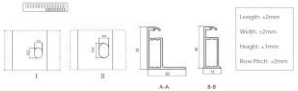
12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



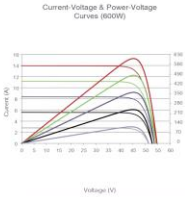


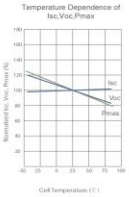
Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 496pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence





Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×35mm (97.05×44.65×1.38 inch)
Weight	34.6kg (76.38 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TÜV 1×4.0mm (+): 400mm , (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	JKM590N-78HL4-BDV		JKM595N-78HL4-BDV		JKM600N-78HL4-BDV		JKM605N-78HL4-BDV		JKM610N-78HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	590Wp	444Wp	595Wp	447Wp	600Wp	451Wp	605Wp	455Wp	610Wp	459Wp
Maximum Power Voltage (Vmp)	44.91V	41.89V	45.08V	42.00V	45.25V	42.12V	45.42V	42.23V	45.60V	42.35V
Maximum Power Current (Imp)	13.14A	10.59A	13.20A	10.65A	13.26A	10.71A	13.32A	10.77A	13.38A	10.83A
Open-circuit Voltage (Voc)	54.76V	52.02V	54.90V	52.15V	55.03V	52.27V	55.17V	52.41V	55.31V	52.54V
Short-circuit Current (Isc)	13.71A	11.07A	13.79A	11.13A	13.87A	11.20A	13.95A	11.26A	14.03A	11.33A
Module Efficiency STC (%)	21.11%		21.29%		21.46%		21.64%		21.82%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.30%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power (Pmax)	620Wp	625Wp	630Wp	635Wp	641Wp
	Module Efficiency STC (%)	22.16%	22.35%	22.54%	22.73%	22.91%
15%	Maximum Power (Pmax)	679Wp	684Wp	690Wp	696Wp	702Wp
	Module Efficiency STC (%)	24.27%	24.48%	24.68%	24.89%	25.10%
25%	Maximum Power (Pmax)	738Wp	744Wp	750Wp	756Wp	763Wp
	Module Efficiency STC (%)	26.38%	26.61%	26.83%	27.05%	27.28%

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

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Specifications included in this datasheet are subject to change without notice.

JKM590-610N-78HL4-BDV-F1-EN (IEC 2016)

SMA Sunny SC 4000 UP

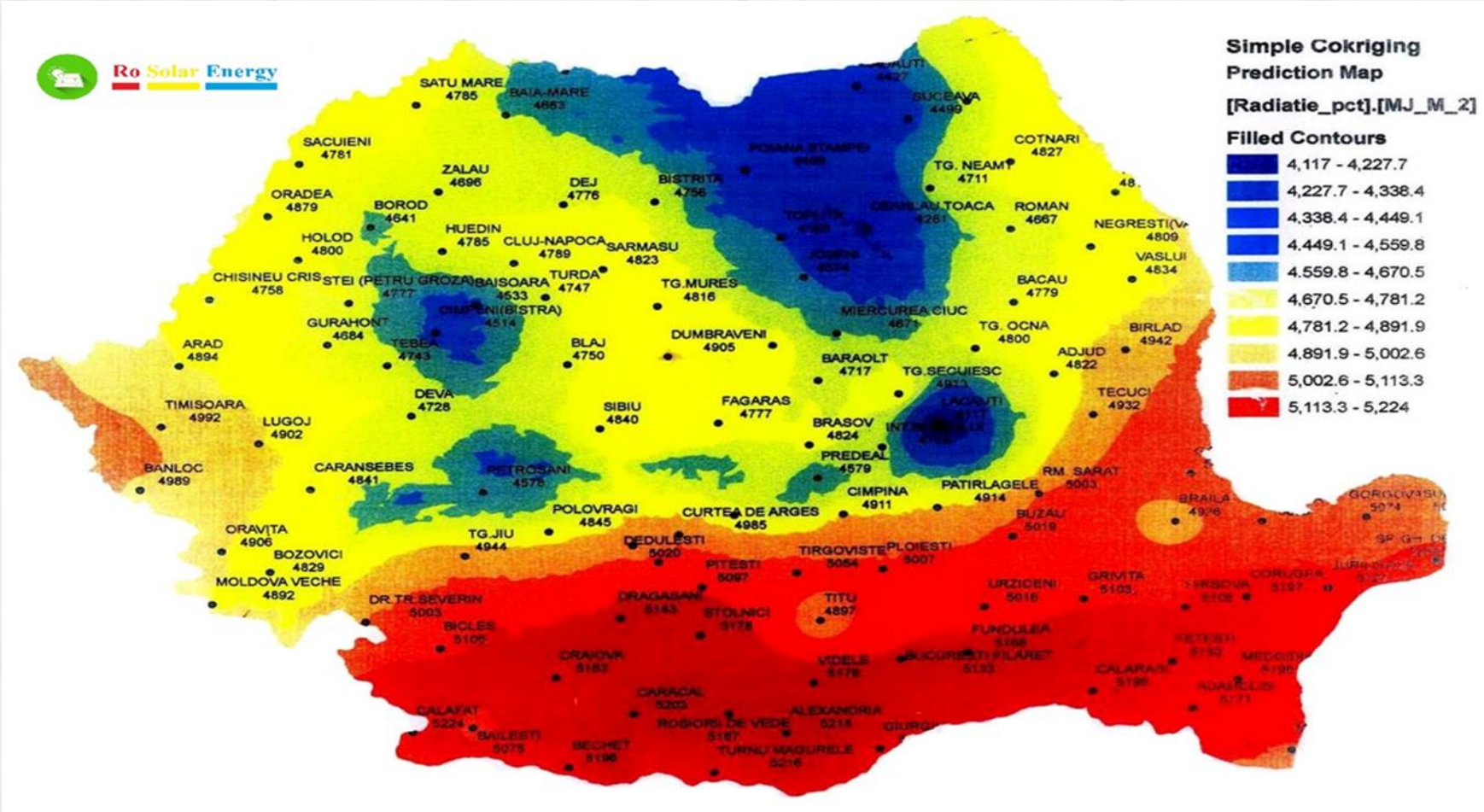
Precio de venta en fase de Ready to Build:

PV – 115 000 €/Mwp

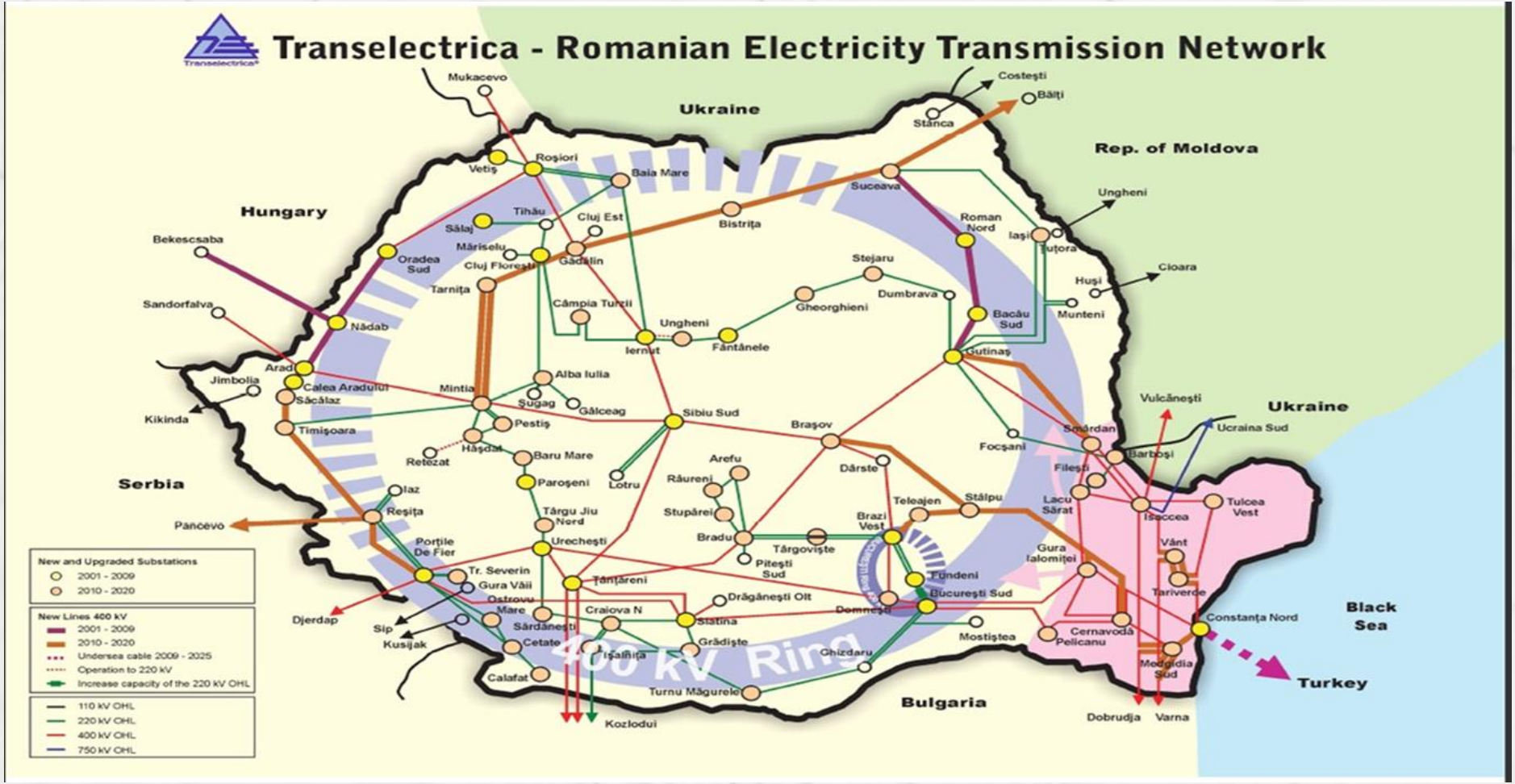
BESS – 52 000 €/Mwh

Buscamos inversor que manifesté:

- Interés de compra del proyecto con una LOI vinculante a una Due Dilgence positiva.
- Carta de solvencia bancaria


Ro Solar Energy
Simple Cokriging
Prediction Map
[Radiatie_pct].[MJ_M_2]
Filled Contours
4,117 - 4,227.7
4,227.7 - 4,338.4
4,338.4 - 4,449.1
4,449.1 - 4,559.8
4,559.8 - 4,670.5
4,670.5 - 4,781.2
4,781.2 - 4,891.9
4,891.9 - 5,002.6
5,002.6 - 5,113.3
5,113.3 - 5,224
SATU MARE 4785
BAIA-MARE 4663
SUCEAVA 4499
COTNARI 4827
SACUIENI 4781
ZALAU 4696
DEJ 4776
BISTRITA 4756
TG. NEAMT 4711
ORADEA 4879
BOROD 4641
ROMAN 4667
HOLOD 4800
HUEDIN 4785
CLUJ-NAPOCA 4789
SARMASU 4823
VASLUI 4834
CHISINEU CRIS 4758
STEI (PETRU GROZA) 4777
BAISOARA 4533
TURDA 4747
TG.MURES 4816
BACAU 4779
GURAHONT 4684
TEBEA 4743
BLAJ 4750
DUMBRAVENI 4905
MIERCUREA CIUC 4671
TG. OCNA 4800
BIRLAD 4942
ARAD 4894
BARAOLT 4717
ADJUD 4822
TG.SECUIESC
TECUCI 4932
TIMISOARA 4992
LUGOJ 4902
DEVA 4728
SIBIU 4840
FAGARAS 4777
BRASOV 4824
PREDEAL 4579
BANLOC 4989
CARANSEBES 4841
PETROSANI 4575
CIMPINA 4911
PATIRLAGELE 4914
RM. SARAT 5003
POLOVRAGI 4845
CURTEA DE ARGES 4985
BUZAU 5019
ORAVITA 4906
TG.JIU 4944
DEDULESTI 5020
TIRGOVISTE 5054
PLOIESTI 5007
BOZOVICI 4829
MOLDOVA VECHE 4892
PITESTI 5097
URZICENI 5016
GRIVITA 5103
DR.TR.SEVERIN 5003
DRAGASANI 5143
STOLNICI 5178
TITU 4897
BICLES 5105
FUNDULEA 5188
CRAIOVA 5183
VIDELE 5178
BUCURESTI FILARET 5133
CALARASI 5196
CARACAL 5203
CALAFAT 5224
ROSIORI DE VEDE 5187
ALEXANDRIA 5218
BAILESTI 5075
BECHET 5196
TURNU MAGURELE 5216

Transelectrica - Romanian Electricity Transmission Network



GRACIAS!

¿Tiene usted alguna pregunta?

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