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GREEN BONDS 2023
RENEWABLE ENERGY URBAN SCALE
Investment and financing strategy

Renewable Energy Macro Scale - Large Users / MATER
Solar Park Calingasta San Juan, Argentina 13 MWp

Calingasta Solar Park, San Juan; Argentina

Estimated Capex 9.9 MWac / 13 MWp

Project Considerations

TOTAL PROJECT COST

USD 10,544,587.26

Estimated Ratio: 722 USD/KWp

Project IRR: 12.60%

Estimated Space: 27 hectares

AC power: 9.9MW / DC: 13.28 MWp

CAPEX: USD 9,601,002 (plus VAT)

Estimated Energy Sale Price: USD 75 x MWh (It can reach USD 80 x MWp)

DC Estimated Capacity Factor: 20.95%

Project Useful Life: 30 (thirty) years

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Project Considerations:

The final price includes development and turnkey engineering of the project. Opening and connection to a 34.5 kV line on site.

The values detailed in the breakdown show the market prices of components and technology placed on site. The cost of civil works and engineering was estimated using as a reference the projects in the province of San Juan under development and commissioned at the beginning of 2021.

It does not contemplate cost for lease or purchase of the surface.

The estimated final price may be affected by the distance of the location from the 34.5 kV line and the component purchasing strategy designed.

ITEM	DESCRIPCIÓN	%	COSTO SIN IVA	IVA (USD)	COSTO TOTAL (USD)
COSTO PROYECTO					
1	INGENIERIA	100%	\$ 527.570	\$ 100.238	\$ 627.807,86
2	SUMINISTRO EQUIPO PRINCIPAL		\$ 2.153.800	\$ 409.222	\$ 2.563.022,42
2.1	PANELES		\$ 4.203.965	NA	\$ 4.203.964,75
2.2	INVERSORES		\$ 378.168	NA	\$ 378.167,80
3	SUMINISTRO BOP		\$ 820.051	\$ 155.810	\$ 975.861,21
5	OBRAS ELECTRICAS		\$ 206.959	\$ 39.322	\$ 246.281,77
6	PRECOMISIONAMIENTO Y COMISIONAMIENTO		\$ 181.500	\$ 34.485	\$ 215.985,56
7	REPUESTOS		\$ 169.206	\$ 32.149	\$ 201.355,04
8	OTROS*		\$ -	\$ -	\$ -
4	OBRAS CIVILES		\$ 959.782	\$ 182.359	\$ 1.142.140,85
COSTO TOTAL PROYECTO INCLUIDO IVA		100%	\$ 9.601.002,05	\$ 953.585,21	\$ 10.554.587,26

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Renewable Energy Community Scale - Distributors / Cooperatives
Merlo San Luis Solar Park, Argentina 1.4 MW

Solar Park Goal

1.05 MWac / 1.4 MWp

Project Considerations

TOTAL PROJECT COST

USD 1,334,483 (plus VAT)

Estimated Ratio: 954 USD/KWp

Project IRR: 10.85%

Estimated Space: 2 hectares

Power: AC:1,050kWac / DC: 1,398 kWp

Estimated Energy Sale Price: USD 75 x MWh (It can reach USD 80 x MWp)

DC Estimated Capacity Factor: 20.95%

Project Useful Life: 30 (thirty) years

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ITEM	DESCRIPCIÓN	%	COSTO SIN IVA	IVA (USD)	COSTO TOTAL (USD)
COSTO PROYECTO					
1	SUMINISTRO PANELES FOTOVOLTAICOS		\$ 452.781	NA	\$ 452.780,92
2	SUMINISTRO INVERSORES		\$ 61.427	NA	\$ 61.427,47
3	SUMINISTOR ESTRUCTURA FIJA		\$ 109.607	\$ 20.825,40	\$ 130.432,76
4	OTROS SUMINISTROS		\$ 138.829	\$ 26.377,51	\$ 165.206,54
5	MONTAJE MECÁNICO		\$ 43.616	\$ 8.286,97	\$ 51.902,63
6	OBRAS ELÉCTRICAS		\$ 111.935	\$ 21.267,71	\$ 133.203,00
7	OBRAS CIVILES		\$ 199.030	NA	\$ 199.030,30
8	INGENIERÍA		\$ 139.638		
9	PRECOMISIONAMIENTO Y COMISIONAMIENTO		\$ 53.164	\$ 10.101,24	\$ 63.265,68
10	REPUESTOS		\$ 24.455	\$ 4.646,39	\$ 29.101,10
COSTO TOTAL PROYECTO INCLUIDO IVA		100%	\$ 1.334.483,40	\$ 91.505,23	\$ 1.286.350,40

Small Scale Project Advantages

An environmental impact study is not necessary, due to the power of the project, and because it is a case of self-generation within the regulatory framework of Distributed Generation With expansion capacity up to 3MW according to provincial regulation.

It does not contemplate cost for lease or purchase of the surface.

The estimated final price may be affected by the distance of the location from the 34.5 kV line and the component purchasing strategy designed.



THANK YOU!

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