

11 Excel to TMY2 converter Olivenza (02.03.2020_08.03.2020 - base año 2019) Datos RM.xls [Modo de compatibilidad] - Microsoft Excel

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Arial 10 Personalizada Normal 2 Normal 3 Normal Buena Insertar Eliminar Formato Autosuma Rellenar Borrar Ordenar y filtrar Buscar y seleccionar

Data Source Background		Name of .TMY2 File		Flags (refer to Table 3-3 to 3-6) toggle on	
Weather Station		Latitude (1 Character N or S)	N	Flag for Solar Radiation	?
WBAN no. (refer to Table 2-1 in TMY2 User Manual)		Degrees (0-90)	38	Uncertainty for Solar Radiation	?
Source Name (22 characters)	Olivenza	Minutes	45,2	Flag for Illuminance	?
State (2 characters)	BA	Longitude (1 Character E or W)	W	Uncertainty for Illuminance	?
Time Zone (number of hours ahead of universal time)	1	Degrees (0-360)	7	Flag for Meteorological Source	?
Elevation (Meters above sea level 9999 MAX)	202	Minutes	8,5	Uncertainty for Meteorological Source	0

Convert to TMY2

(2) Click on Convert to TMY2.

Date and Hour (local standard time in excel date format)	Global Horizontal Radiation (W/m ²)	Direct Normal Radiation (W/m ²)	Diffuse Horizontal Radiation (W/m ²)	Dry Bulb Temperature (C)	Dew Point temperature (C)	Relative Humidity (%)	Atmospheric Pressure (mBa)
1618 08/03/2020 21:00	2,05	0,36	0,0	14,57	7,25	71,23	
1619 08/03/2020 22:00	1,97	0,39	0,0	13,50	6,82	77,70	
1620 08/03/2020 23:00	1,98	0,40	0,0	13,29	6,29	81,20	
1621 09/03/2020 0:00	1,98	0,37	0,0	11,85	6,44	86,56	
1622 09/03/2020 1:00	1,85	0,38	0,0	10,48	5,93	93,15	
1623 09/03/2020 2:00	1,25	0,24	0,0	11,52	6,91	91,92	
1624 09/03/2020 3:00	1,64	0,30	0,0	11,42	7,02	91,59	
1625 09/03/2020 4:00	2,09	0,36	0,0	10,47	6,66	93,24	
1626 09/03/2020 5:00	1,86	0,19	0,0	9,16	6,47	96,03	
1627 09/03/2020 6:00	1,38	0,25	0,0	8,63	5,97	97,83	
1628 09/03/2020 7:00	1,65	0,24	2,6	9,56	5,65	96,77	
1629 09/03/2020 8:00	2,92	2,01	45,1	8,76	6,09	96,62	
1630 09/03/2020 9:00	94,27	218,94	78,2	8,26	6,77	96,78	
1631 09/03/2020 10:00	296,31	636,21	91,3	10,84	7,54	90,64	
1632 09/03/2020 11:00	466,75	781,43	87,6	13,23	9,12	76,36	
1633 09/03/2020 12:00	16,33	11,64	62,23	985,89	0,94	152,60	
1634 09/03/2020 13:00	18,12	12,41	52,12	985,53	1,37	187,59	
1635 09/03/2020 14:00	19,64	11,36	45,31	984,89	1,63	234,88	
1636 09/03/2020 15:00	21,85	10,21	37,43	983,95	2,96	252,75	
1637 09/03/2020 16:00	22,64	9,76	37,41	983,27	2,22	208,86	
1638 09/03/2020 17:00	23,14	9,35	41,08	982,91	2,85	258,83	
1639 09/03/2020 18:00	23,15	9,07	34,55	982,59	2,51	266,51	
1640 09/03/2020 19:00	21,85	9,62	38,16	982,11	2,18	273,85	
1641 09/03/2020 20:00	18,80	8,41	47,04	982,42	1,85	268,28	
1642 09/03/2020 21:00	2,26	0,40	17,00	982,65	1,86	285,54	
1643 09/03/2020 22:00	2,11	0,41	15,33	983,10	1,18	263,25	
1644 09/03/2020 23:00	2,00	0,42	15,00	983,44	1,59	275,17	
1645 10/03/2020 0:00	2,03	0,35	13,34	983,69	1,35	202,68	
1646 10/03/2020 1:00	1,64	0,20	11,27	983,93	1,64	160,57	

(1) Meteorological Data Paste on this spread sheet of Excel.

SAM 2014.1.14: Z:\DATOS SAM\01 Datos\2020\00 Para correr SAM 2014\OLIVENZA.zsam

File Case Analysis Tools Script Help

My project x

Select Technology and Market... CSP Trough Empirical, Commercial PPA

Location and Resource
Location: Olivenza, BA
Lat: 38.8 Long: -7.1 Elev: 202.0 m

Solar Field

SCA/HCE

Power Block

Thermal Storage

Parasitics

Performance Adjustment
Percent of annual output: 0 %
Year-to-year decline: 0 % per year

Trough System Costs
Total Installed: \$ 314,605,413
Est. per Capacity (\$/kW): \$ 6,356

Financing
Analysis: 25 years
Solution model: Specify IRR Target

Incentives
Fed. ITC
No cash incentives

Depreciation

Run all simulations...

View and export data: Graphs Tables Cash Flows Time Series Loss Diagram

Choose Simulation: Base Case Copy to clipboard Save as CSV... Send to Excel

Output Variables

- Metrics
- Single Values
- Monthly Data
- Data: 25 values
- Annual Data

Metrics	
Annual Energy	0 kWh
PPA price	100.00 ¢/kWh
LCOE Nominal	1. #3 ¢/kWh
LCOE Real	1. #3 ¢/kWh
Internal rate of return (%)	0.00 %
Minimum DSCR	-0.42
Net present value (\$)	\$ -113,201,384.00
Calculated ppa escalation (%)	1.00 %
Calculated debt fraction (%)	50.00 %
Capacity factor	0.0 %
Gross to Net Conv. Factor	0.88
Total Land Area	409.59 acres

Clear all

(4) Run simulation at zSam.

7:11
17/03/2020