

Grid system presizing

Geographical Site

Gurgaon

Country **India**

Situation

Time defined as

Latitude 28.42° N
Legal Time Time zone UT+5.5

Longitude 77.00° E
Altitude 248 m

Collector Plane Orientation

Tilt 30°

Azimuth 0°

Horizon / Far shadings

Average height 17.6°

PV-field installation main features

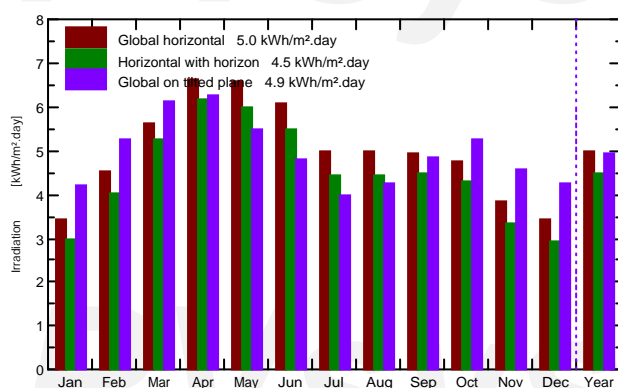
Module type Standard
Technology Polycrystalline cells
Mounting method Flat roof
Back ventilation properties Ventilated

System characteristics and pre-sizing evaluation

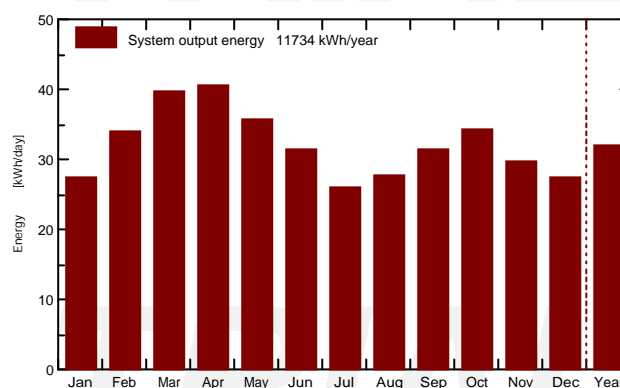
PV-field nominal power (STC) P_{nom} 7.5 kWp
Collector area A_{coll} 50 m²
Annual energy yield E_{year} 11.7 MWh
Economic gross evaluation Investment 644311 INR

Specific yield 1565 kWh/kWp
Energy price 3.20 INR/kWh

Meteo and incident energy



System output



	Gl. horiz. kWh/m ² .day	With horizon kWh/m ² .day	Coll. Plane kWh/m ² .day	System output kWh/day	System output kWh
Jan.	3.45	2.97	4.21	27.34	848
Feb.	4.54	4.05	5.25	34.11	955
Mar.	5.65	5.25	6.12	39.81	1234
Apr.	6.62	6.16	6.27	40.74	1222
May	6.57	5.98	5.50	35.75	1108
June	6.09	5.48	4.83	31.38	941
July	4.98	4.46	4.00	26.03	807
Aug.	4.98	4.44	4.25	27.64	857
Sep.	4.96	4.48	4.85	31.50	945
Oct.	4.77	4.30	5.29	34.37	1065
Nov.	3.85	3.36	4.60	29.89	897
Dec.	3.42	2.92	4.24	27.56	854
Year	4.99	4.49	4.95	32.15	11734