

Mangu Ram Saini

4.40 kWp

Haryana

(28.42407 , 76.93413)



Scan the QR code to view a 3D model of your roof with the PV system installed (or click the 'View 3D Model' button).

[View 3D Model](#)



Company Overview



Luminous Power Technologies is a powerful and trustworthy brand with a wide range of innovative products in the power backup, residential and commercial solar space.

With 7 manufacturing units, more than 28 sales offices in India and presence in over 36 countries, our 6000 employees serve more than 60,000 channel partners and millions of customers. Our motto has always been Customer Delight through Innovation and Passion with the focus on Execution and Team-work. At Luminous, we passionately innovate to make life comfortable and efficient.



Annual Production

6.41

x 1000 kWh (Units)



Performance Ratio

74.05%



Specific Generation

1,455.80

kWh/kWp/year

Module DC Nameplate

4.40 kWp

AC Nameplate

4.00 kW

DC-AC Ratio

1.10

Weather Dataset

Meteonorm

Components

Your installation uses latest technology in solar



Modules

Luminous PE-550HM - 8



Structure

Premium Structure



AC Cable

Standard- 1 lot



DCDB

Standard- 1 lot



Earthing Pit

Standard- 1 lot



Inverters

Nix140 Luminous- 1



DC Cable

Standard - 1 lot



ACDB

Standard- 1 lot



LA

Standard- 1 lot



Connectors

Standard- 1 lot

Components

Your installation uses latest technology in solar



Cable Conduits

Standard- 1 lot



Tees

Standard- 1 lot



Earthing Strip

Standard- 1 lot



Elbows

Standard- 1 lot



Monitoring Solution

Standard- 1 lot

Expected Annual Production

During the first year of operations, your system is expected to produce 6.41×1000 kWh over the year



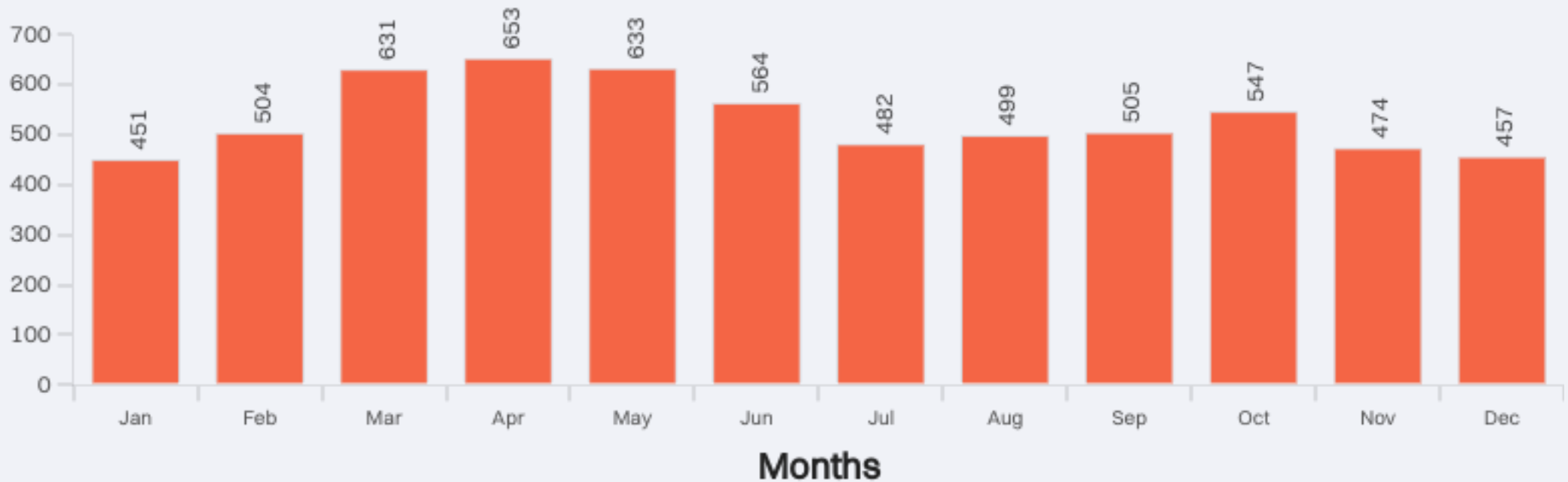
Expected average generation of the system

533.79 kWh/month

Yearly degradation rate

0.8%/year

kWh (Units)

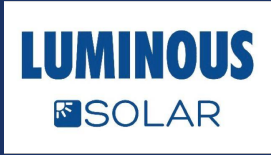


Client: Mangu Ram Saini

Generated on:
16 Oct, 2024 | 4:48 PM with

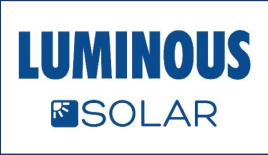


Monthly Table



Months	Direct Irradiance (kWh/m2)	Dlffused Irradiance (kWh/m2)	Effective Irradiance (kWh/m2)	DC Energy (kWh)	AC Energy (kWh)	Speciflc Generation	Performance Ratio
January	107.00	47.50	131.40	484.80	451.63	102.64	78.11
February	127.10	46.40	150.51	541.47	504.42	114.64	76.17
March	175.10	64.20	194.03	677.79	631.42	143.50	73.96
April	198.40	73.90	206.74	701.54	653.55	148.53	71.84
May	203.40	99.00	202.02	679.55	633.06	143.88	71.22
June	182.90	103.60	178.24	605.78	564.34	128.26	71.96
July	154.20	100.20	150.82	518.09	482.65	109.69	72.73
August	154.40	93.10	155.59	536.20	499.52	113.53	72.97
September	148.90	80.20	157.59	542.64	505.51	114.89	72.90
October	147.90	61.50	169.03	587.83	547.61	124.46	73.63
November	115.50	44.90	142.18	509.05	474.23	107.78	75.81
December	105.60	39.90	134.47	491.13	457.53	103.98	77.33
Annual	1,820.40	854.40	1,972.62	6,875.88	6,405.47	1,455.78	74.05

Field Segments



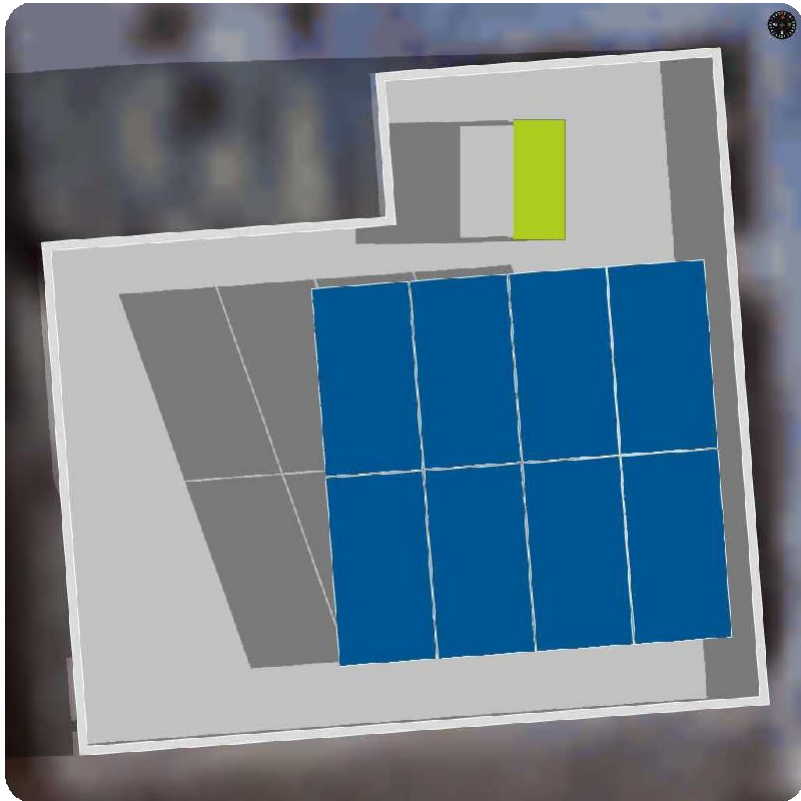
Name	Orientation	Tilt	Azimuth	Row Spacing	Frame Size	Modules	Power	Solar Access
Subarray #1	Portrait	15°	175.76°	2.209 m	2x1	8	4.40 kWp	97.56%

Monthly solar access (%) across arrays

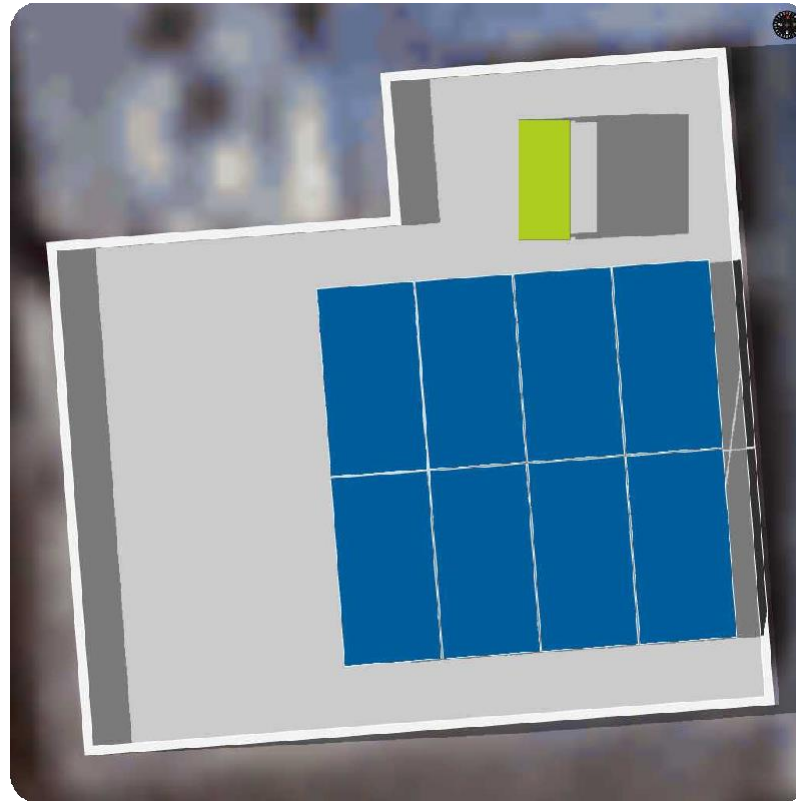
Array	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	89	91	96	100	100	100	100	100	99	94	89	86

Shading Analysis

June 21 | 9:00:00 AM

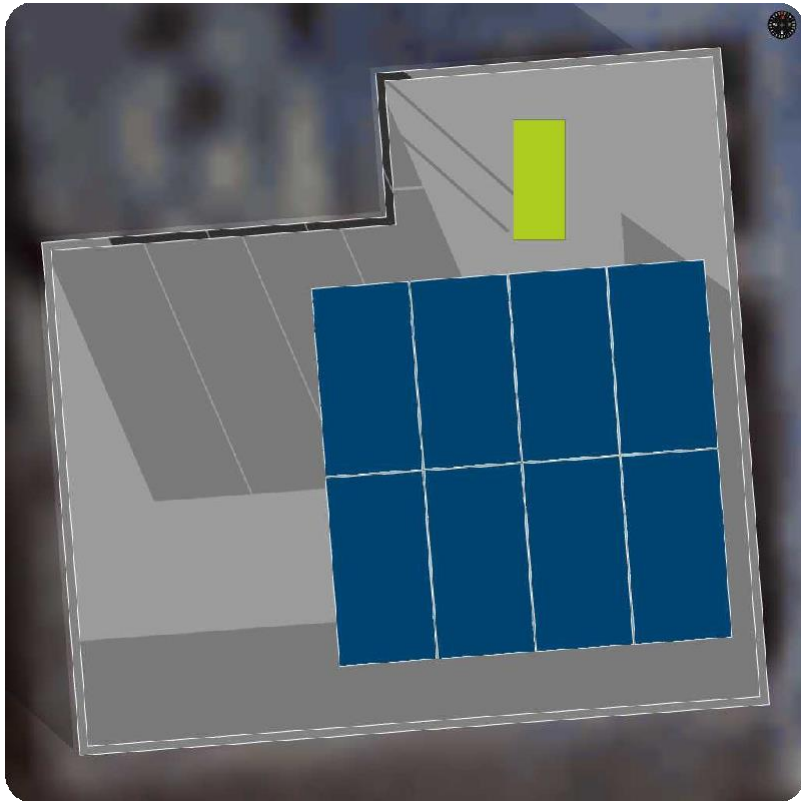


June 21 | 3:00 PM

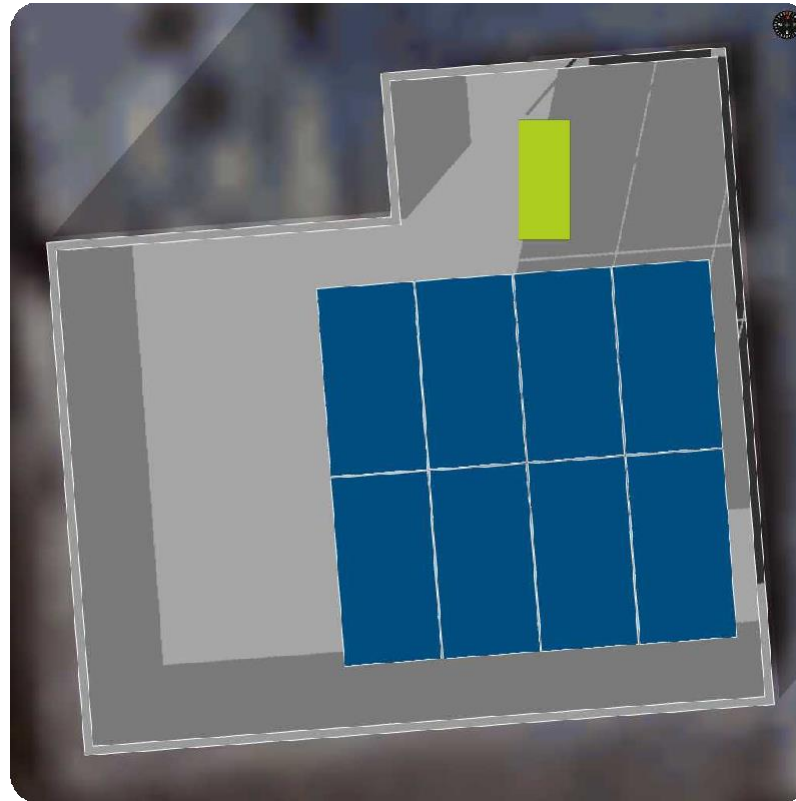


Shading Analysis

December 21 | 9:00:00 AM



December 21 | 3:00 PM



Conclusion: Modules are shadow free for 100% of solar time throughout the year.

Irradiance Map/ Solar Access

Irradiance Map

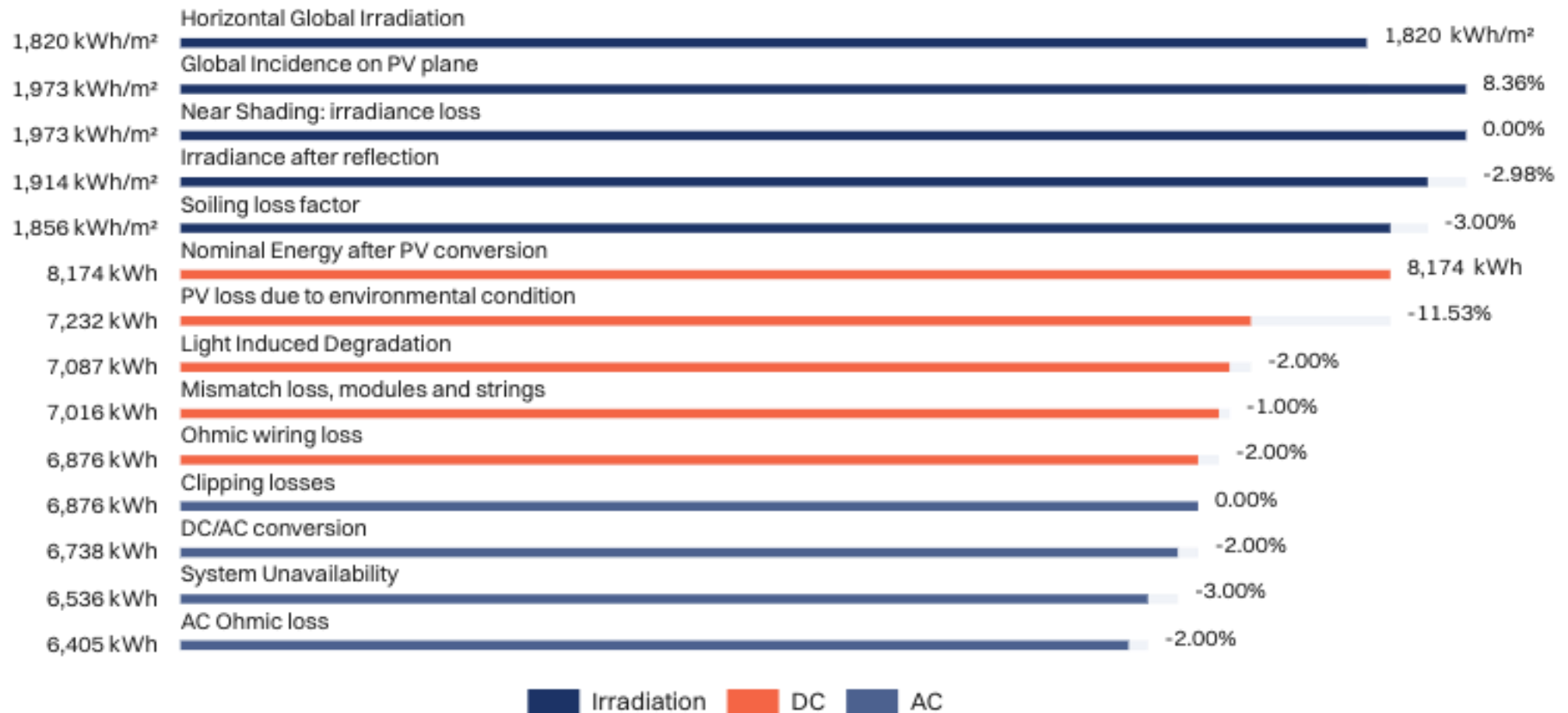


Solar Access



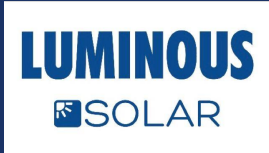
System Production Losses

Loss in generation predicted due to environmental and electrical factors



Environmental Impact

You are contributing to solve Earth's biggest problem - Climate Change.



Carbon Dioxide Offset



102.99

metric tons

Equivalent Acres of Forest



120.90

acres/year

Coal Burn Avoided



51.08

metric tons

Equivalent Number of Trees Planted 1,704.00 trees	Petrol Consumption Avoided 43,925.11 litres	Equivalent Kilometers Driven 4,04,952.53 kms
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Frequently Asked Questions



Q. Solar solution sales Terms & Conditions along with standard scope of work

A. <https://luminousindia-my.sharepoint.com/:b:/p/10912591/EcCB16z-4wtKmHR-wwPLclUBX-zRoJB-yqApesQBclwW9w?e=dQtl9J>

Q. Luminous remote monitoring platform ConnectX to solar power plant in remote

A. <https://luminousindia-my.sharepoint.com/:b:/p/10912591/EWH2KPENJdRCgkX-V16qFvQBAqEI-6YXXKGr5xSWAsG8MQ?e=zFbEZn>

Q. Luminous solar business profile & credentials

A. https://luminousindia-my.sharepoint.com/:f:/p/10912591/Es-rG3iPcEIetYBQwGYo82IBS6N_khpbAb2jhipVLCPWtA?e=FJwTwM

Q. Luminous Solar Products Technical Specs and Details.

A. https://luminousindia-my.sharepoint.com/:b:/p/10912591/EWDjfm7FsBlva6fBvguEOIBAvKkBRJ_N8gMKK3L-8HLCQ?e=yx1XYO

Thank You

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