Design 1 - existing Piemar/Enphase

Shading Heatmap

Shading by Field Segment

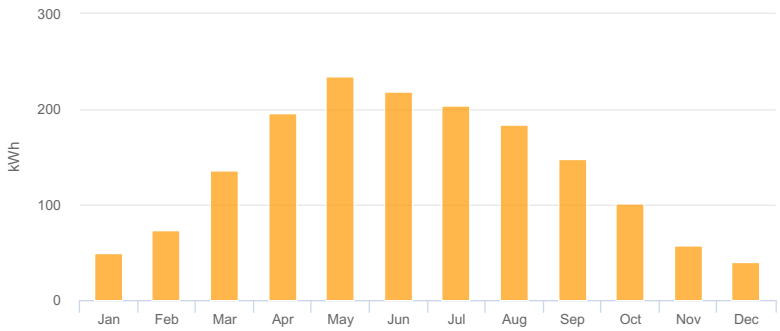
Description	Tilt	Azimuth	Modules	Nameplate	Shaded Irradiance	AC Energy	TOF[2]	Solar Access	Avg TSRF [2]
Rear - S	20.0°	208.1°	6	1.80 kWp	1,076.3kWh/m^2	1.64 MWh[1]	94.0%	100.0%	94.0%
Totals, weighted by kWp			**6**	**1.80 kWp**	**1,076.3kWh/m^2**	**1.64 MWh**	**94.0%**	**100.0%**	**94.0%**

[1] approximate, varies based on inverter performance
[2] based on location Optimal POA Irradiance of 1,145.3kWh/m^2 at 40.4° tilt and 181.6° azimuth

Solar Access by Month

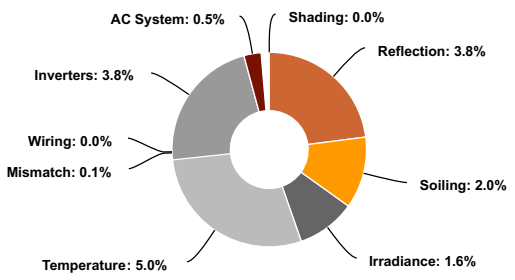
Description	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
Rear - S	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Solar Access, weighted by kWp	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**
AC Power (kWh)	**48.8**	**72.8**	**135.4**	**196.0**	**234.1**	**219.3**	**203.4**	**183.5**	**148.0**	**101.5**	**57.8**	**40.1**

Monthly Production



Month	GHI (kWh/m²)	POA (kWh/m²)	Shaded (kWh/m²)	Nameplate (kWh)	Grid (kWh)
January	19.5	30.8	30.8	51.7	48.8
February	33.5	45.6	45.6	77.1	72.8
March	70.7	86.0	86.0	146.2	135.4
April	113.3	126.7	126.7	216.1	196.0
May	146.0	154.0	154.0	262.6	234.1
June	145.1	148.2	148.2	252.8	219.3
July	134.5	135.6	135.6	230.1	203.4
August	112.8	123.6	123.6	210.8	183.5
September	82.0	98.0	98.0	166.5	148.0
October	49.5	65.9	65.9	111.9	101.5
November	24.6	36.5	36.5	61.3	57.8
December	15.3	25.4	25.4	42.6	40.1

Sources of System Loss



Southwestern Angle

Southeastern Angle