

Page #	Section	Vendor 1	Vendor 2	Vendor 3	Vendor 4
2	Project sum PVSystem Version	7.4.0	7.4.5	7.4.5	7.4.5
2	System Summary Weather Data	SolarAnywhere SUNY model-TMY	SolarAnywhere TGY-TMY	SolarAnywhere TGY-TMY	NREL
2	System Summary Near Shadings	According to strings	According to strings: Fast (Table)	No Shadings	No Shadings
2	System Summary Electrical Effect	100	50		
2	System Summary Diffuse shading	Automatic	Automatic		Automatic
2	System Summary # Modules	15120	12516	13600	10360
2	System Summary Pnom tot	9072	8761	7548	6216
2	System Summary # Invert	2	21	20	3
2	System Summary Pnom tot (inv)	7000 kWac	7350	7000	9450
2	System Summary Grid Power Limit				
2	System Summary Pnom Ratio	1.296	1.192	1.078	0.924
2	Produced Energy	1456485	15692362	12061.48	16904984
2	Specific Prod	1649	1791	1598	1935
2	Perf Ratio	84.94	92.47	83.12	89.43
3	General Param # Trackers	308	165	10	No 3D scene defined
3	General Param Near Shadings	According to strings	According to Strings: Fast (table)	No Shadings	No Shadings
3	General Param Electrical Effect	100%	50%		
3	General Param Diffuse shading	Automatic	Automatic		Automatic
3	General Param Bifacial	2D Calc, Unlimited	2D Calc, Unlimited	No BIFACIAL	No BIFACIAL
3	General Param Inverter	Sungrow SG4400UD-US / Sungrow SG4400UD-US DERATED	Sungrow SG350-HX	Chint Power Systems SCH350KTL-DO/US-80C	Sungrow SG3150UD-MV-US
3	General Param Inverter	Custom Parameters		Chint Power Systems Custom Parameters	Custom Parameters
4	PV Array Nom (Stc)				
4	PV Array Total				
4	PV Array Module Area				
4	PV Array Cell Area				
4	PV Array Tot Pow				
4	PV Array # Invert				
4	PV Array Pnom Ratio				
4	Array Losses Soiling	2.00%	2.00%	3.00%	
5	Array Losses LID Light Induced Degradation	1.00%	1.00%	1.50%	
5	Array Losses Therm UC(Const)	29.0 W/M	29.0 W/M	29.0 W/M	20 W/M
4	Array Losses Therm Uv(Wind)	0.0 W/M	0.0 W/M	0.0 W/M	0.0 W/M
4	Array Losses Mismatch	2.0% at MPP	1.0% at MPP	2.0% at MPP	2.0% at MPP
4	Array Losses Dc Wiring Resis	2.6 m Ω	1.4 m Ω	2.3 m Ω	2.2 m Ω
4	Array Losses Dc Loss Fraction	2.0% at STC	1.0% at STC	1.5% at STC	1.5% at STC
4	Array Losses String Mismatch loss	0.20%		0.20%	0.20%
4	Array Losses Module Quantity Loss	0%	-0.6%	-0.4%	-0.8%
5	Array Losses AVG degradation Loss	0.4% / year			
6	Array Losses Imp RMS dispersion	0.4% / year			
7	Array Losses Vmp RMS dispersion	0.4% / year			
	System loss Fans	1000W			
	AC Wiring Losses Inverter Voltage	645 Vac tri	800 Vac Tri	800 Vac Tri	
	AC Wiring Losses Loss Fraction	0.50% at STC	2% at STC	1.7% at STC	
	AC Wiring Losses Wire Section	Copper 3x 10000 mm	Copper 3x 185 mm	Copper 14 x 3x 35 mm	

AC Wiring Losses Wire length	124 m	304 m
AC Wiring Losses MV Voltage	34.5 kV	34.5 kV
AC Wiring Losses Wires	Alu 3 x 120mm	Copper 3x 150 mm
AC Wiring Losses Length	10,150 m	1110 m
AC Wiring Losses Loss Fraction	0.63% at STC	0.1% at STC
AC Transformer Medium Volt	34.5 kV	34.5 kV
AC Transformer Nominal power at STC	2.80 MVA	8.69 Mva
AC Transformer Iron Loss	2.18 kVA	8.69 Kva
AC Transformer Iron loss fraction	0.08% at STC	0.1% ar STC
AC Transformer Copper loss	35.54 kVA	86.91 kVA
AC Transformer Copper loss fraction	1.27 % at STC	1.00 % at STC
AC Transformer Coils eq res	3 x 1.89 mΩ	3 x 0.74 mΩ

