



CLEAN GREEN ENERGY MISSION

PROJECT REPORT

GREEN SOLAR POWER GENERATION

Project Name	NAGPUR 200MW SOLAR/400MWH BESS HYBRID PROJECT
Project Reference	P-001
Site	Kalameshwar, Nagpur, Maharashtra, India
Client Name	wXXXXXXN
Client Reference	C-001
Generated On	29-Apr-2026 13:49
Prepared By	ASHWINKUMAR/ARAVINTHRAAJAN ENERGY SYSTEM





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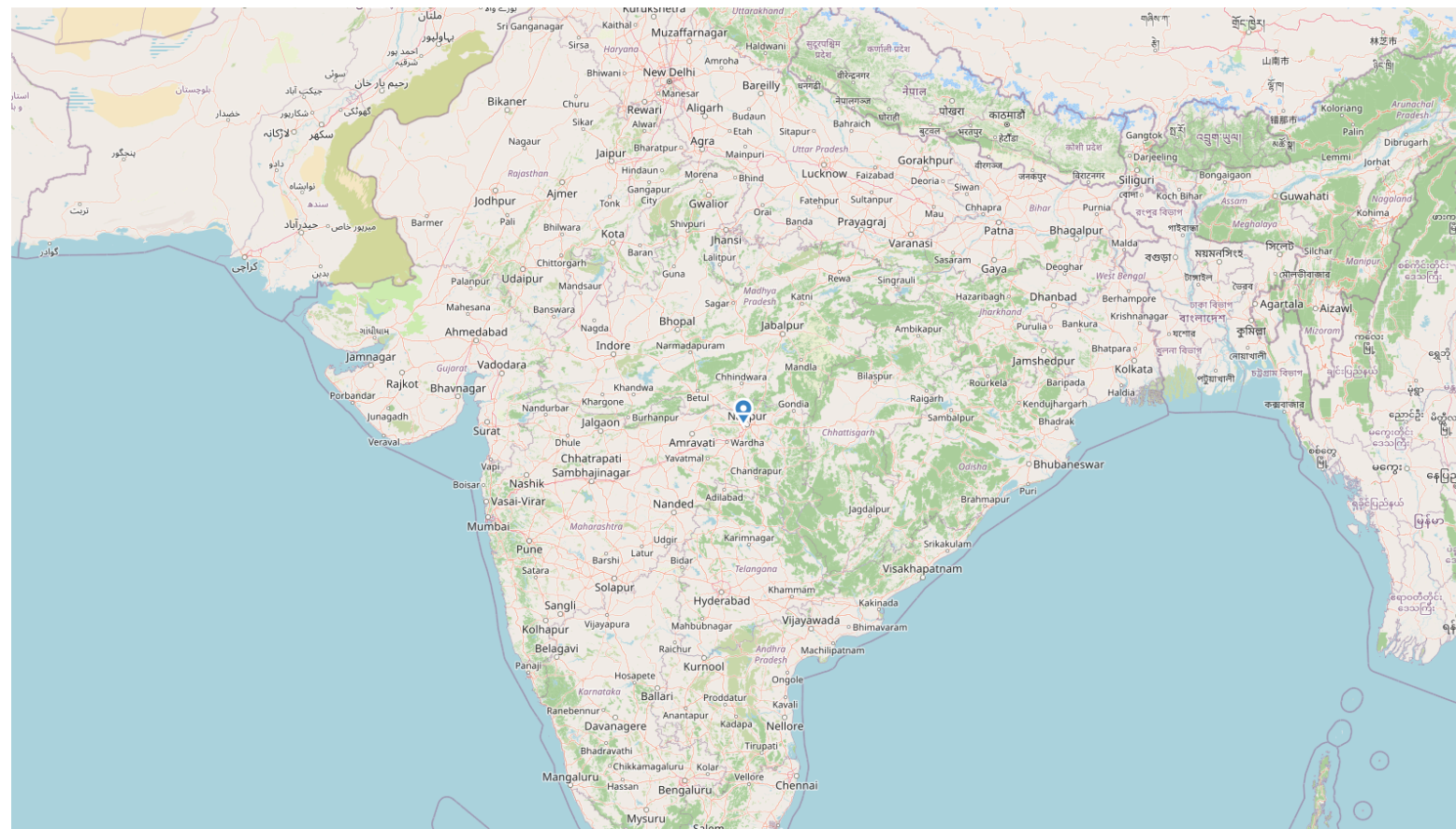
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SITE LOCATION

Location	Kalameshwar, Nagpur, Maharashtra, India
Latitude	21.276898
Longitude	78.983764

Site Map Snapshot





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KI Key Inputs

Details	Unit	Data
PROJECT DATA		
Project Name		NAGPUR 200MW SOLAR/400MWH BESS HYBRID PROJECT
Project Reference		P-001
Client Name		wXXXXXN
Client Reference		C-001
Revision No.		A
Revision Date		28/04/2026
PROJECT CURRENCY		
Project Currency		INR
SITE LOCATION		
Location		Kalameshwar, Nagpur, Maharashtra, India
Latitude		21.276898
Longitude		78.983764
YEAR FOR SOLAR AND WIND DATA		
Year for Solar and Wind Data		2020
RE POWER GENERATION		
Solar Power Generation	MW	200
Purpose of BESS		Evening Peak Shifting
SOLAR PV PLANT		
PV Module Type		Monocrystalline
PV Module Technology		Bifacial N-Type TOPCon
PV Module Make & Model		Aatmanirbhar Solar Pvt. Ltd. ASPL-580W-182MP/144TB
PV Module STC Power	Wp	580
PV Module STC Efficiency	%	22.44
NOCT	°C	45
Temperature Coefficient Pmax	%/°C	-0.29
Bifacial Power Gain	%	10
Albedo		0.2
PV Module Height	mm	2278
PV Module Width	mm	1133



Details	Unit	Data
PV Module Cost	INR/Wp	12
Product Warranty	Years	12
Power Warranty	Years	30
PV Module Yearly Replacement	%	0.42
Tilt Angle	Degrees	35
Tracking		2-axis (tilt & azimuth)
Inverter Efficiency	%	98
Ground Coverage Ratio		0.4
Infra / non-module area margin	%	25
Soiling	%	1
Shading	%	1
Incidence Angle Modifier(IAM)	%	1.5
AC Wiring	%	1.5
DC Wiring	%	1.5
Light Induced Degradation(LID)	%	1.5
DC Mismatch	%	2
Availability	%	1
BATTERY ENERGY STORAGE SYSTEM (BESS PLANT)		
BESS Plant Provided		Yes
Type of Battery		LFP Lithium-Ion
BESS Plant Load Percentage	%	50
Depth of Discharge*		0.90
Autonomy	Hours	4
BESS Round Trip Efficiency	%	90
BESS Safety & Reserve Margin	%	10
End-of-life SOH thershold	%	80
Battery Cycle Degradation	%	0.003
Cost of Battery System	INR/KWH	3000
Cell Replacement (% of CAPEX)	% of CAPEX COD	30
CAPEX OF THE PLANT		
CAPEX for Solar PV Plant	INR/KW	26182
CAPEX of BESS Plant	INR/KWH	6667
Land Price	INR/ACRES	125000
Country Factor for Labour Work		1



Details	Unit	Data
PLANT OPERATING DETAILS		
Life of the Plant	YEARS	25
Construction Period	MONTHS	12
O&M Expenses Percentage	%	2
Auxiliary Power - Solar PV Plant	%	1
Auxiliary Power - BESS	%	2
Working Capital for Spares	% of CAPEX	1
Working Capital for O&M	Months	1
Working Capital for Receivables	Months	1
Cost of Treated Water	INR/CUM	50
PROJECT FINANCIALS		
Equity	%	30
Return on Equity	%	0
Loan Repayment Period	YEARS	10
Loan Moratorium Period	YEARS	2
Interest Rate on Term Loan	%	7
Interest Rate on Working Capital	%	7
Working Capital Margine Money	%	25
TAX Depreciation Rate	%	10
Discount Rate	%	12
Income Tax	%	22
Tax Holiday	YEARS	2
Salvage Value	%	10
Exchange Rate Variation	%	2
SUBSIDIES AND INCENTIVES		
Capital Subsidy (% of CAPEX)	%	0
Subsidy Receptit Year (1=Year1)	Year	1
RE Generation-Based Incentive	INR/KWH	0
GBI Eligibility Period	Years from COD	5
TARGETTED SALE PRICE		
GREEN RE POWER SALE PRICE		
Green RE Power Sale Price	INR/KWH	2.86
PLANT DEGRADATION		



Details	Unit	Data
Solar PV 1stYear Degradation	%	1
Solar PV Annual Degradation	%	0.4
BESS Annual Degradation	%	1
Curtailement / Losses	%	0
RE Transmission Losses	%	0
GRID Transmission Losses	%	2
PRICE ESCALATION		
Green RE Power Sale Price Escalation	%	2
Whole Sale Price Index (WPI)	%	4
Consumer Price Index (CPI)	%	6
Annual Battery Price Escalation	%	0
Annual PV Module Price Escalation	%	0
CARBON FOOTPRINT - GHG EMISSION REDUCTION		
Baseline Emissions Factor for Grid Power	kg CO ₂ e/kWh	0.9
Life Cycle CO ₂ e Intensity-Solar	kg CO ₂ e/kWh	0.05
Life Cycle CO ₂ e Intensity-DM/RO Water	kg CO ₂ e/cum	0.5
Carbon Credit Market/Standard		ICM (India)
Market Price for Carbon Credit for avoidance Project	USD/tons of CO ₂ e	10
Annual Carbon Credit Price Escalation	%	3



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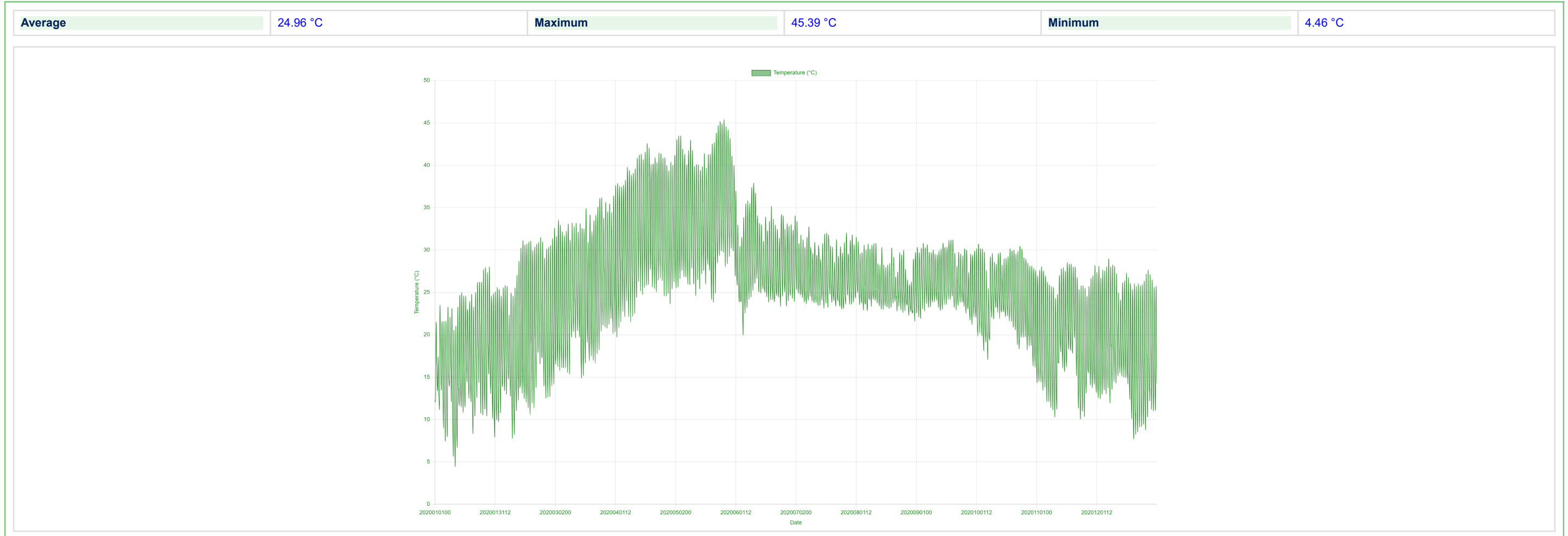
PD Plant Description		
Details	Unit	Data
SOLAR PV PLANT		
Capacity Utilization Factor	%	22.27
Required Solar PV Plant Capacity	KW	282323
Selected Plant AC Capacity	KW	282320
Selected Plant DC Capacity	KW	338784
PV Module Total Quantity	nos	584111
Annual Gross Solar Electricity generation	KWH / MKWH	552302235 / 552.30
Annual Auxiliary Power Consumption	KWH / MKWH	5523022 / 5.52
Annual Net Solar Electricity generation	KWH / MKWH	546779213 / 546.78
BATTERY ENERGY STORAGE SYSTEM (BESS PLANT)		
Annual Battery Cycles	Nos of charging cycles	0
Battery Replacement Life	Years	11
BESS Load	KW	100000
BESS Plant Capacity	KWH	537778
Annual Net Power Consumed in BESS	KWH / MKWH	127889119 / 127.89
Annual BESS Auxiliary Power & Other Losses	KWH / MKWH	15346694 / 15.35



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VISUAL APPENDIX

AMBIENT TEMPERATURE GRAPH

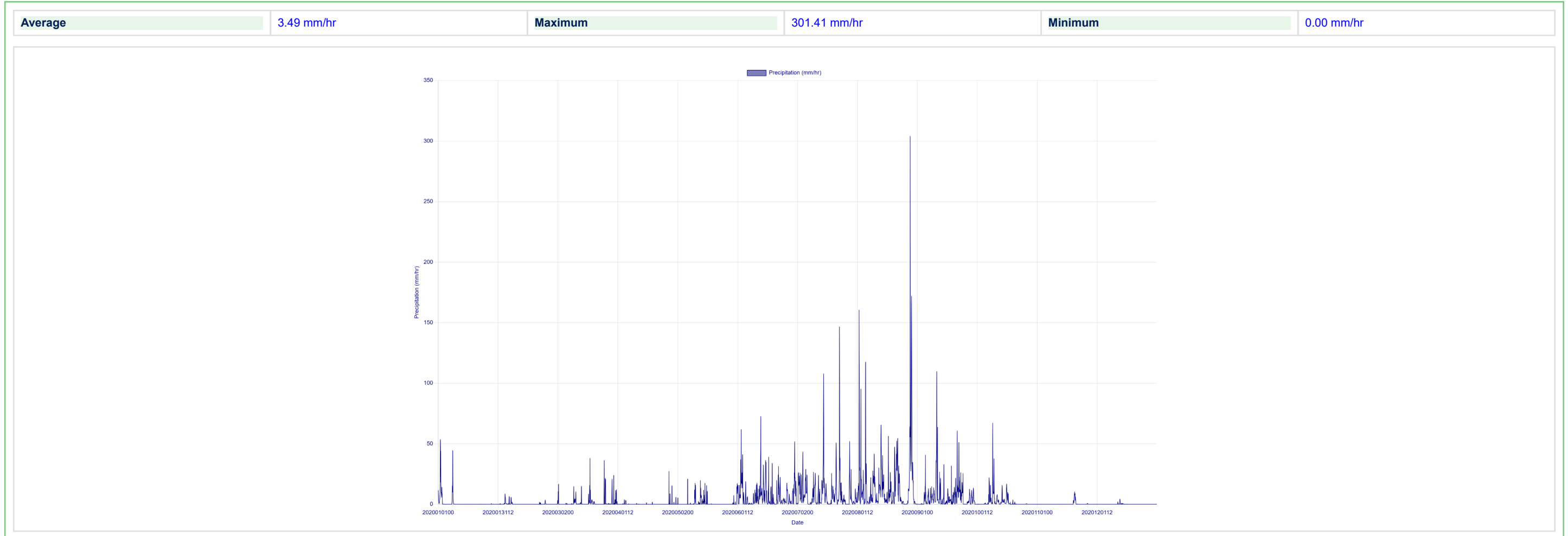




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PRECIPITATION GRAPH

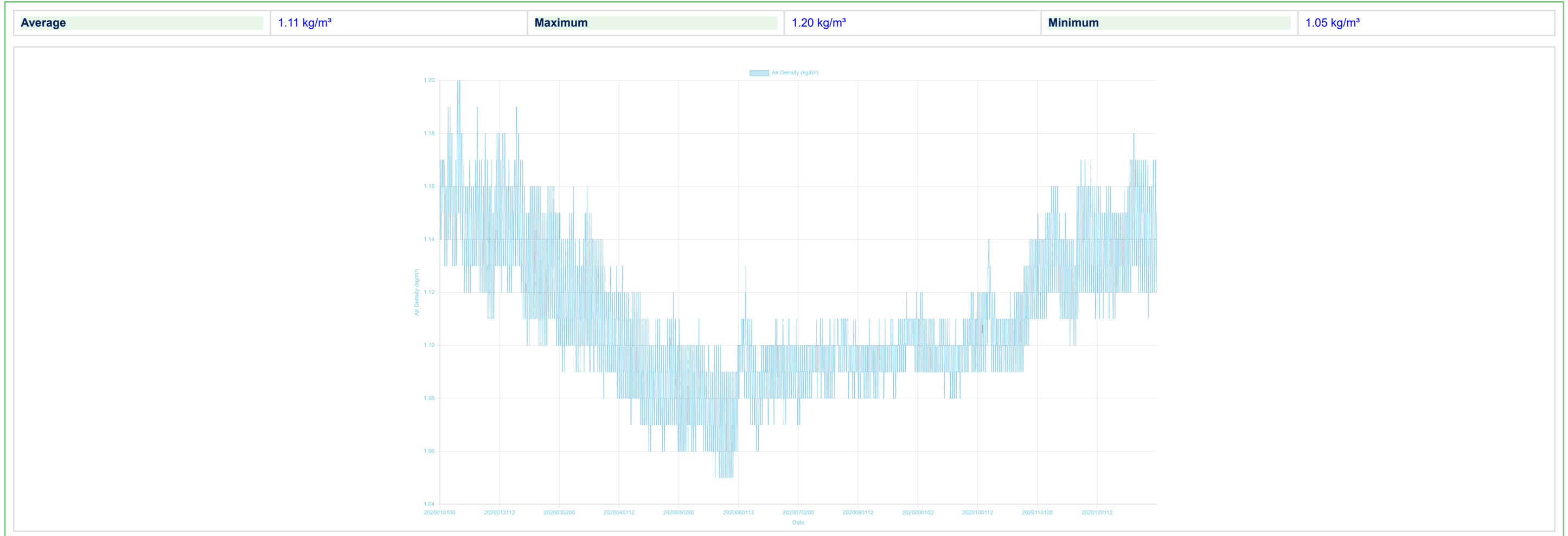




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AIR DENSITY GRAPH

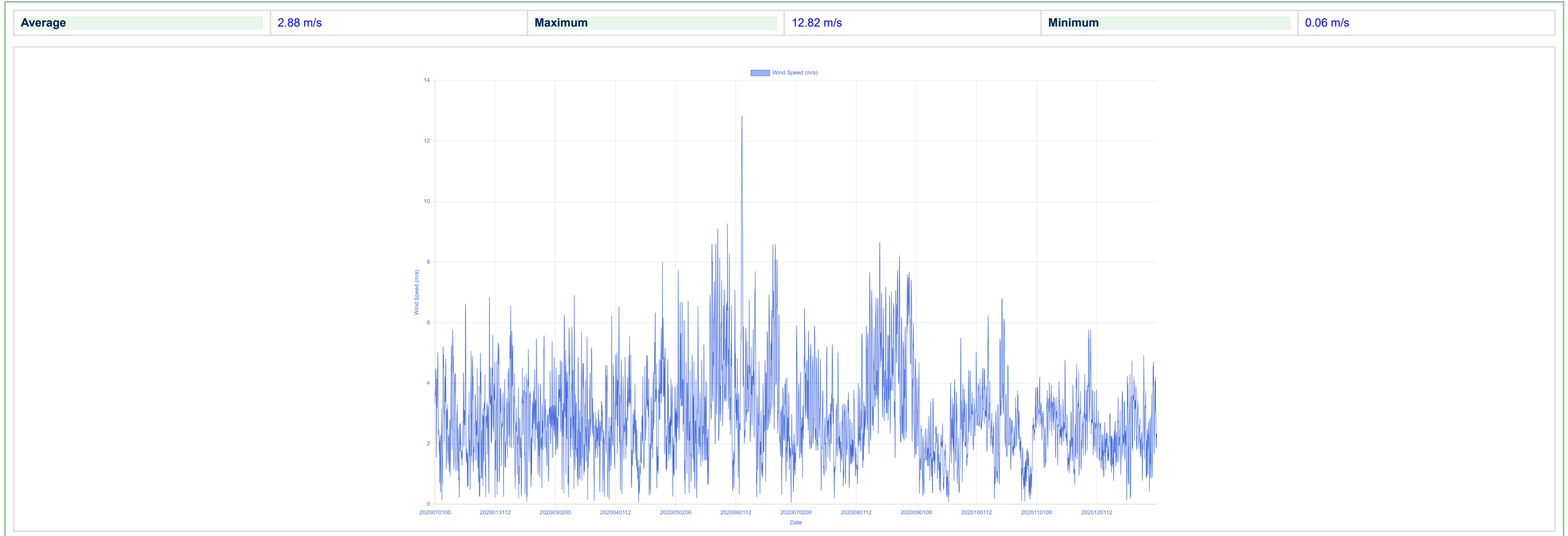




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WIND SPEED 10M GRAPH

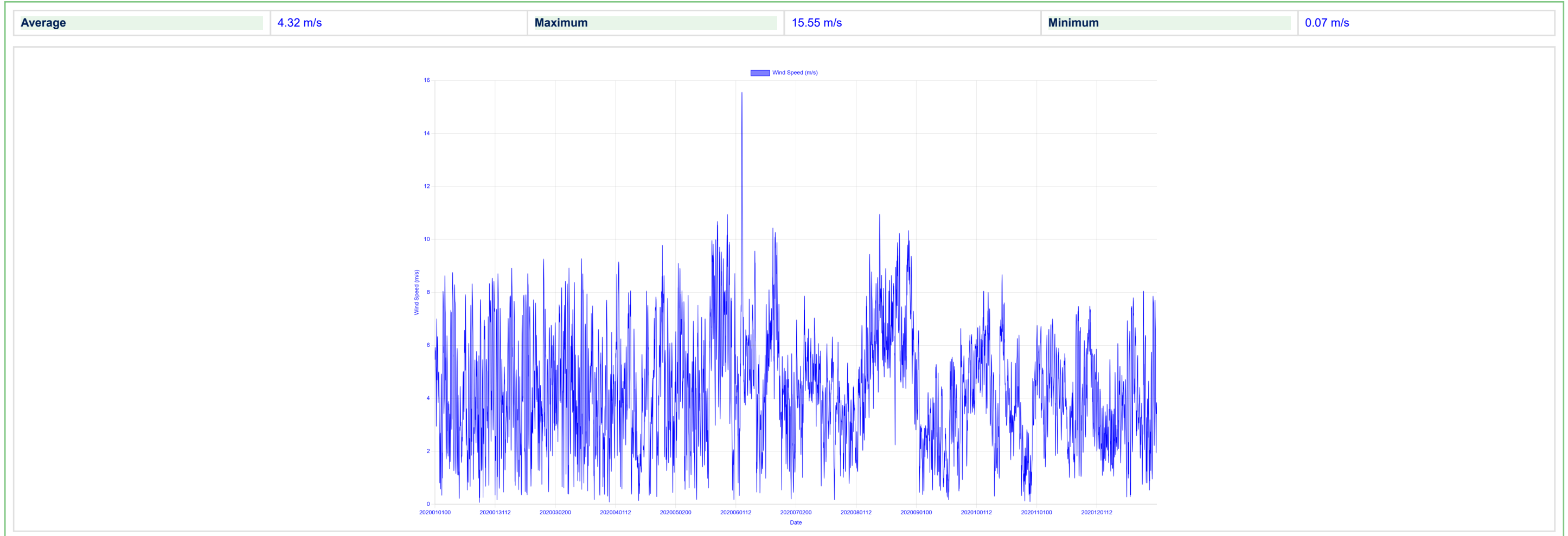




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WIND SPEED 50M GRAPH

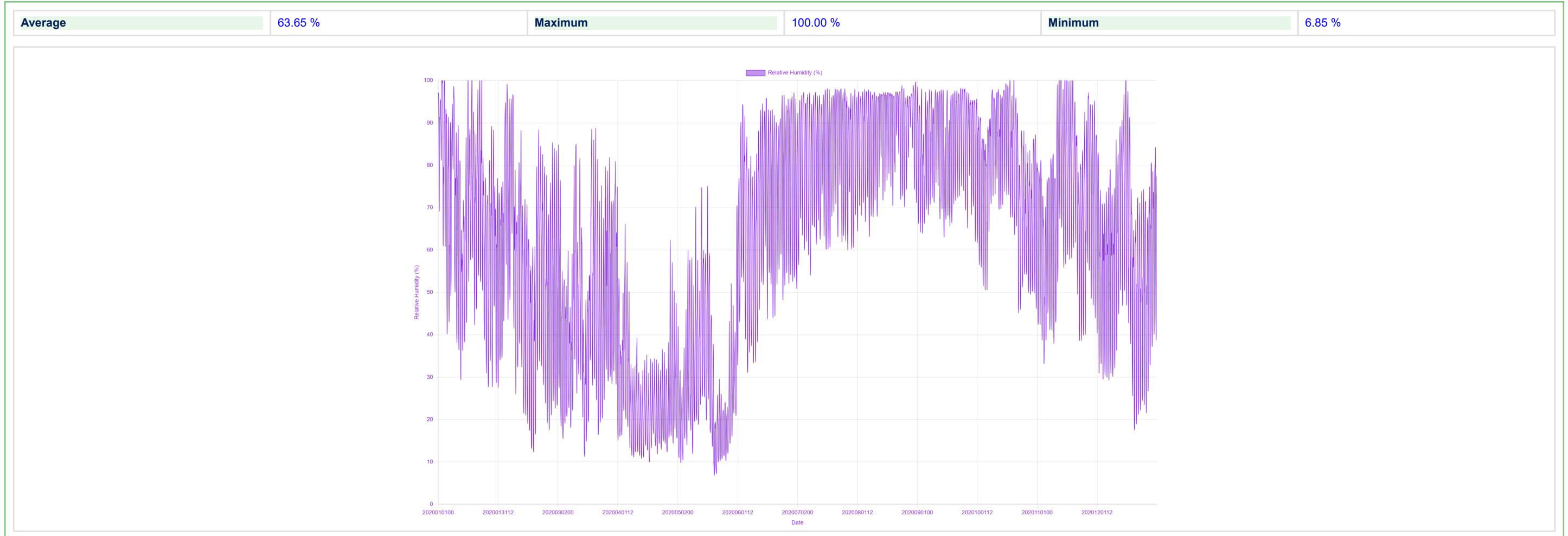




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RELATIVE HUMIDITY GRAPH

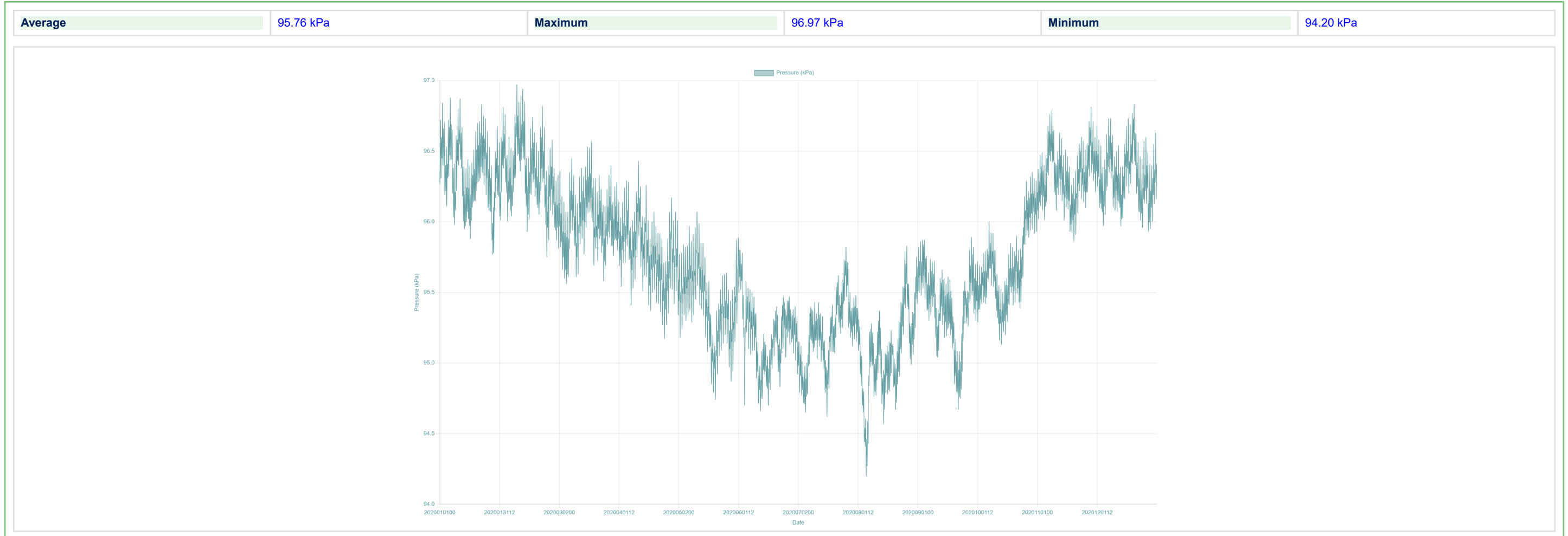




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AMBIENT PRESSURE GRAPH

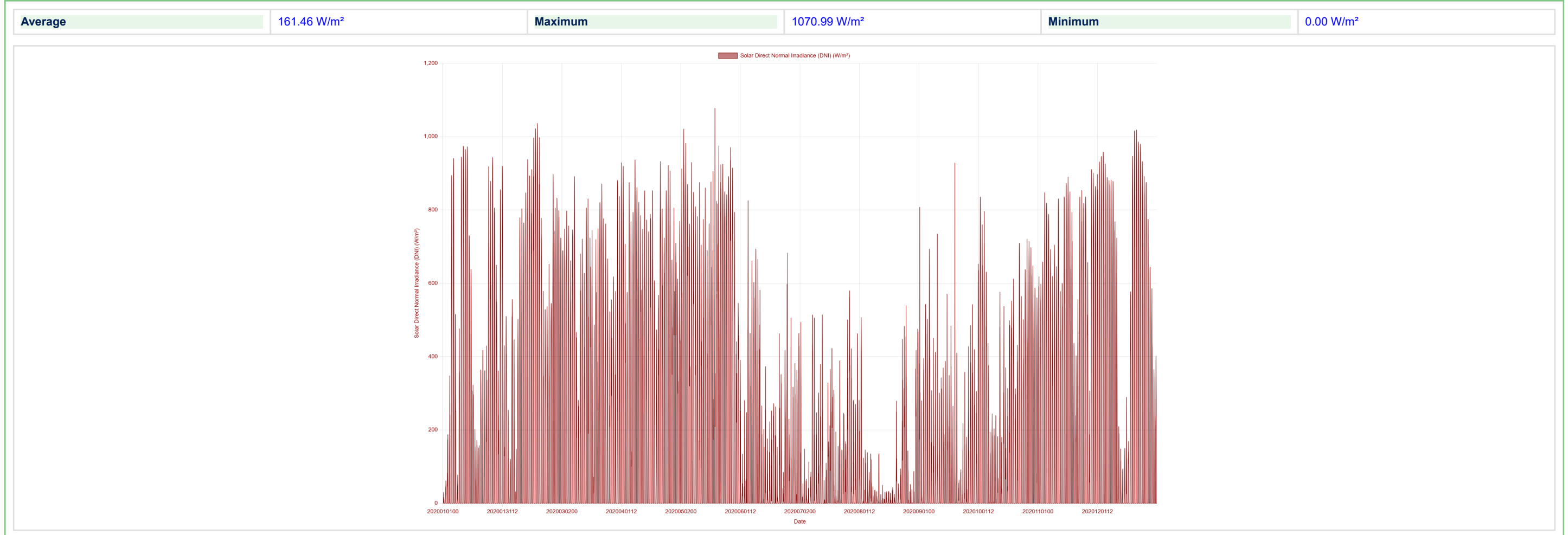




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SOLAR DIRECT NORMAL IRRADIANCE (DNI) GRAPH

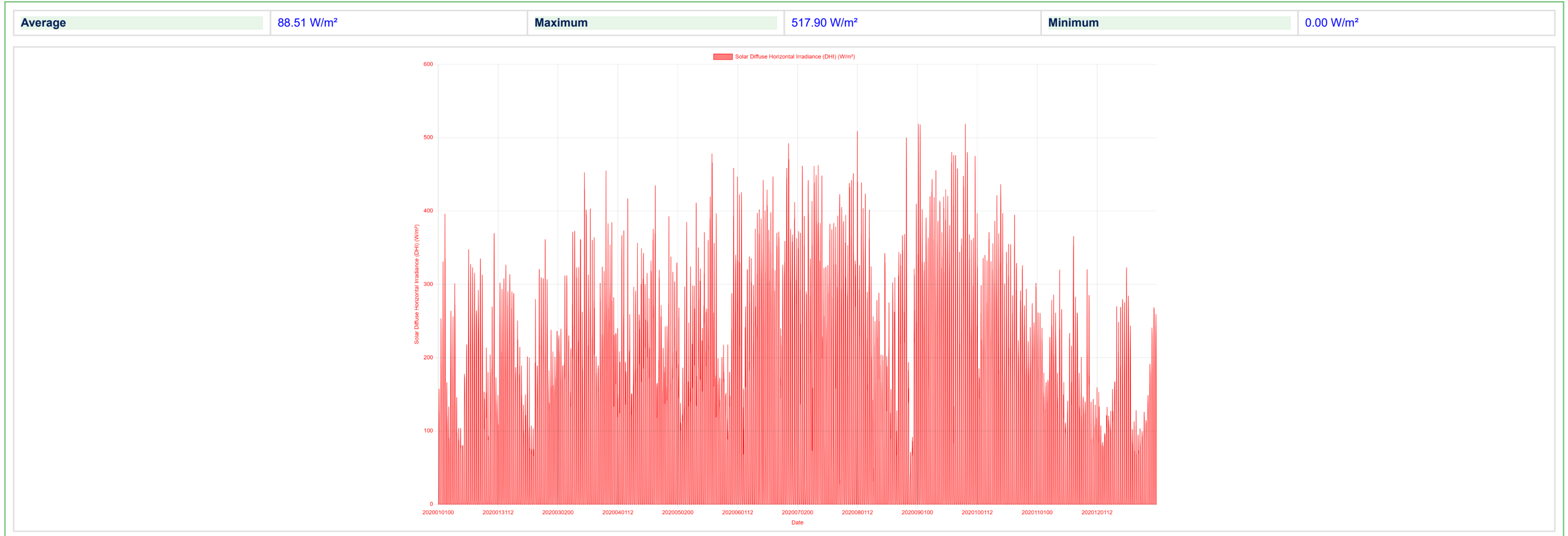




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SOLAR DIFFUSE HORIZONTAL IRRADIANCE (DHI) GRAPH





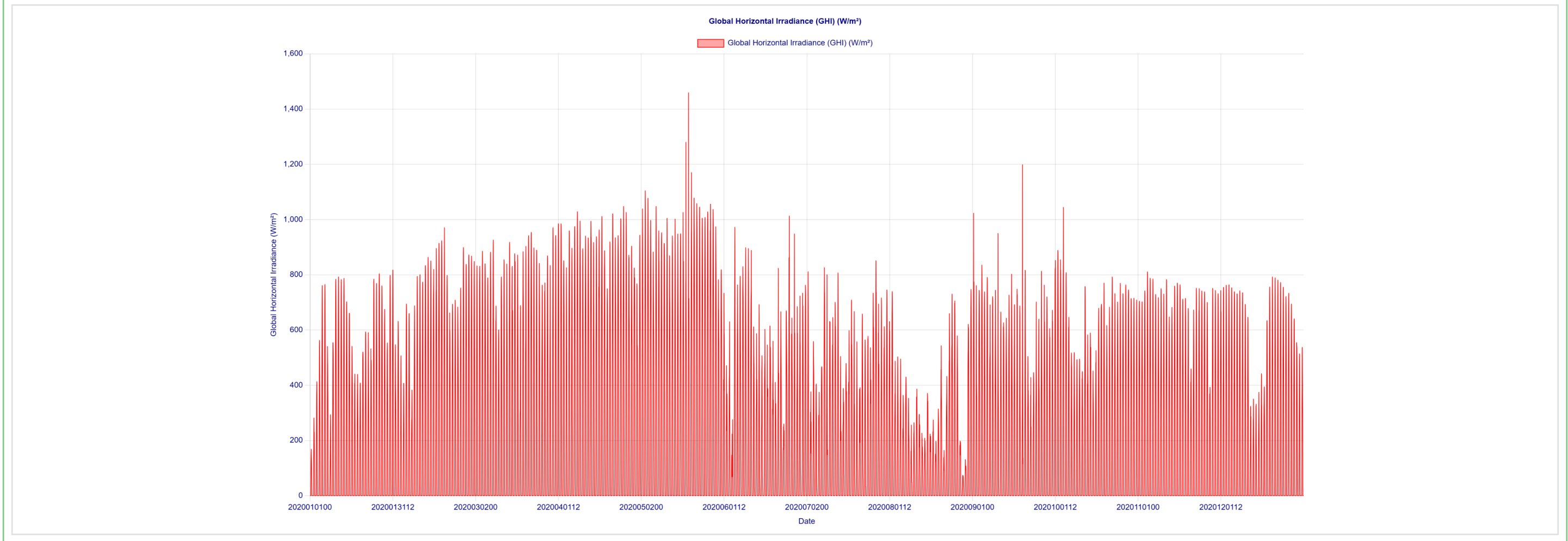
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SOLAR HOURLY DATA ANALYSIS

Time Zone :	India Standard Time
BESS Purpose :	Evening Peak Shifting

GLOBAL HORIZONTAL IRRADIANCE (GHI) GRAPH					
Maximum Global Horizontal Irradiance (GHI) W/m ² :	1456.19	Average Global Horizontal Irradiance (GHI) W/m ² :	196.08	Minimum Global Horizontal Irradiance (GHI) W/m ² :	0.00





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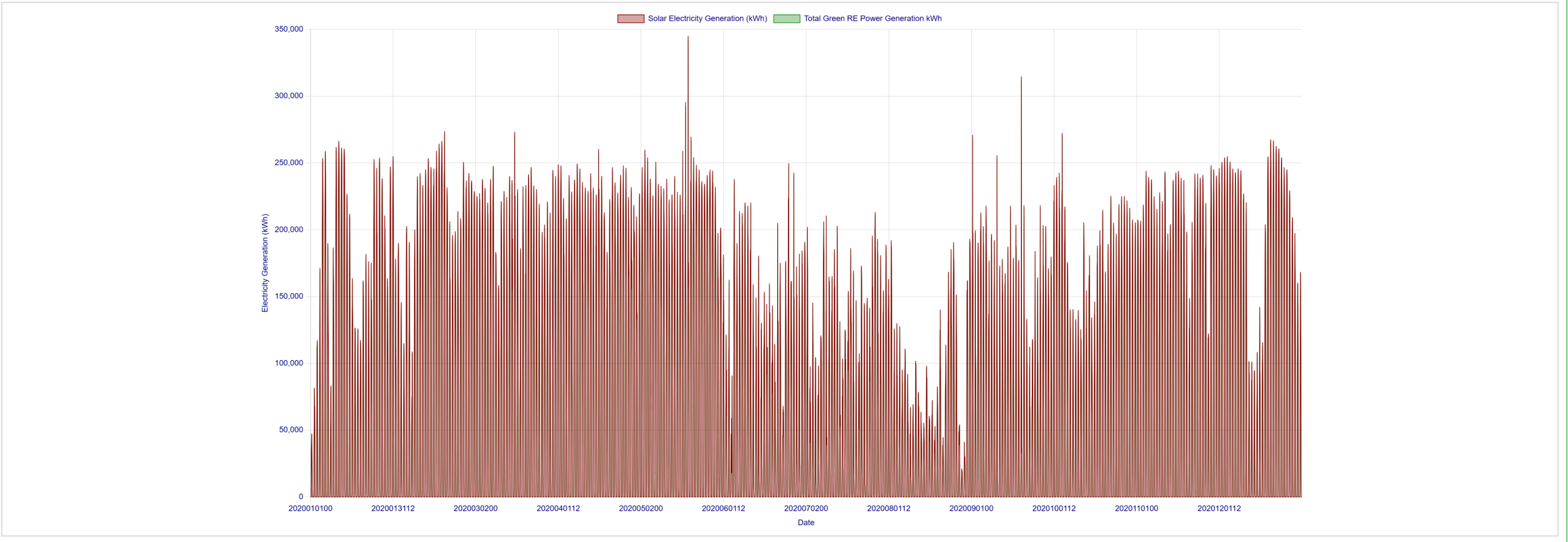
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GENERATION SUMMARY

Total Solar Energy Generation kWh:	552302234.87	Net Green Electricity Generation kWh:	546779212.38	Direct Power Export kWh:	387341320.74	Battery Discharging Power kWh:	127889118.59	BESS Capacity Utilization Factor %:	14.56	Total Green RE Power for Export kWh:	521012271.18
Solar Energy Generator Gross Capacity Utilization Factor %:	22.27	BESS Power kWh:	159437890.12	Battery Charging Power kWh:	127897288.19	Balance BESS Power kWh:	31548771.53	Solar Energy Capacity Utilization Factor without BESS %:	22.05	Solar Energy Net Capacity Utilization Factor with BESS %:	29.66

GREEN RE POWER GENERATION GRAPH

Maximum Net Green RE Power Generation kWh :	341053.18	Average Net Green RE Power Generation kWh :	62247.18	Minimum Net Green RE Power Generation kWh :	0.00
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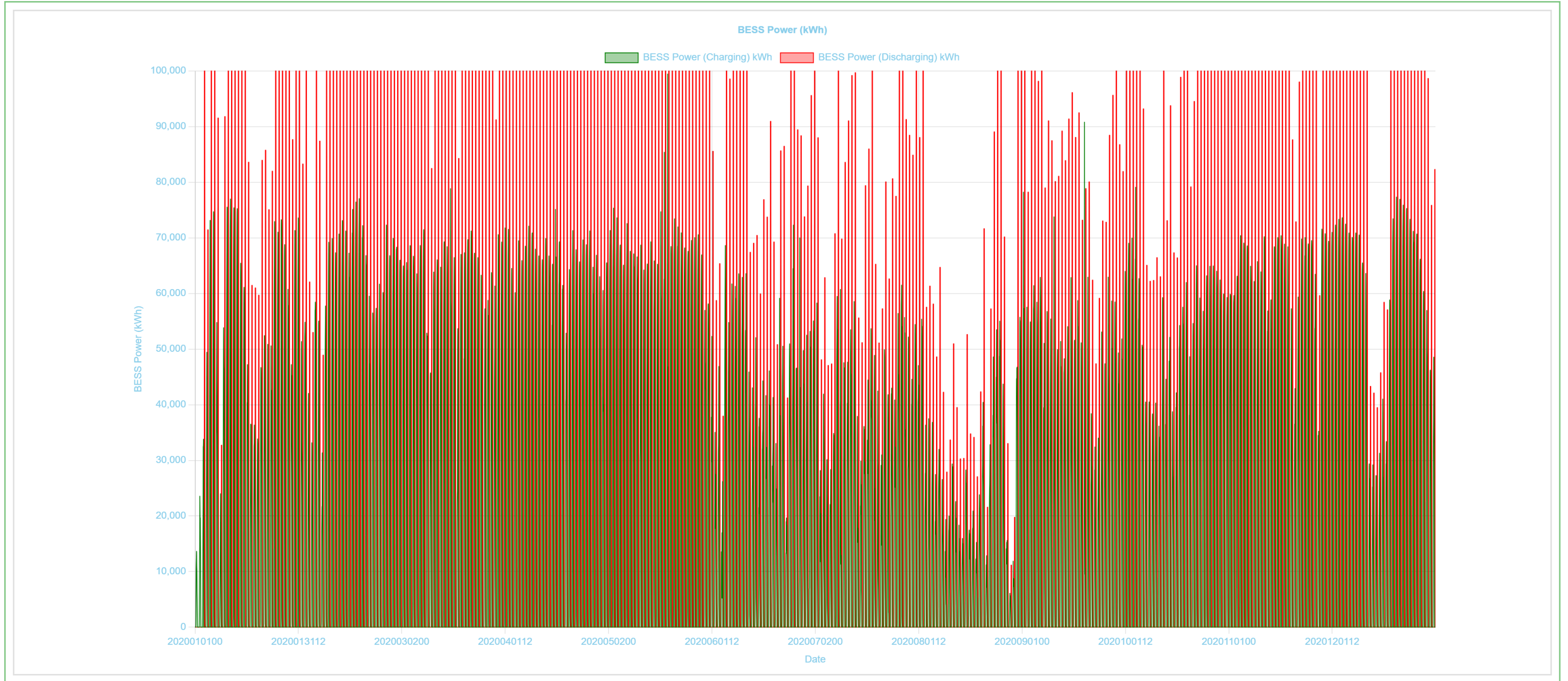




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BESS POWER GRAPH

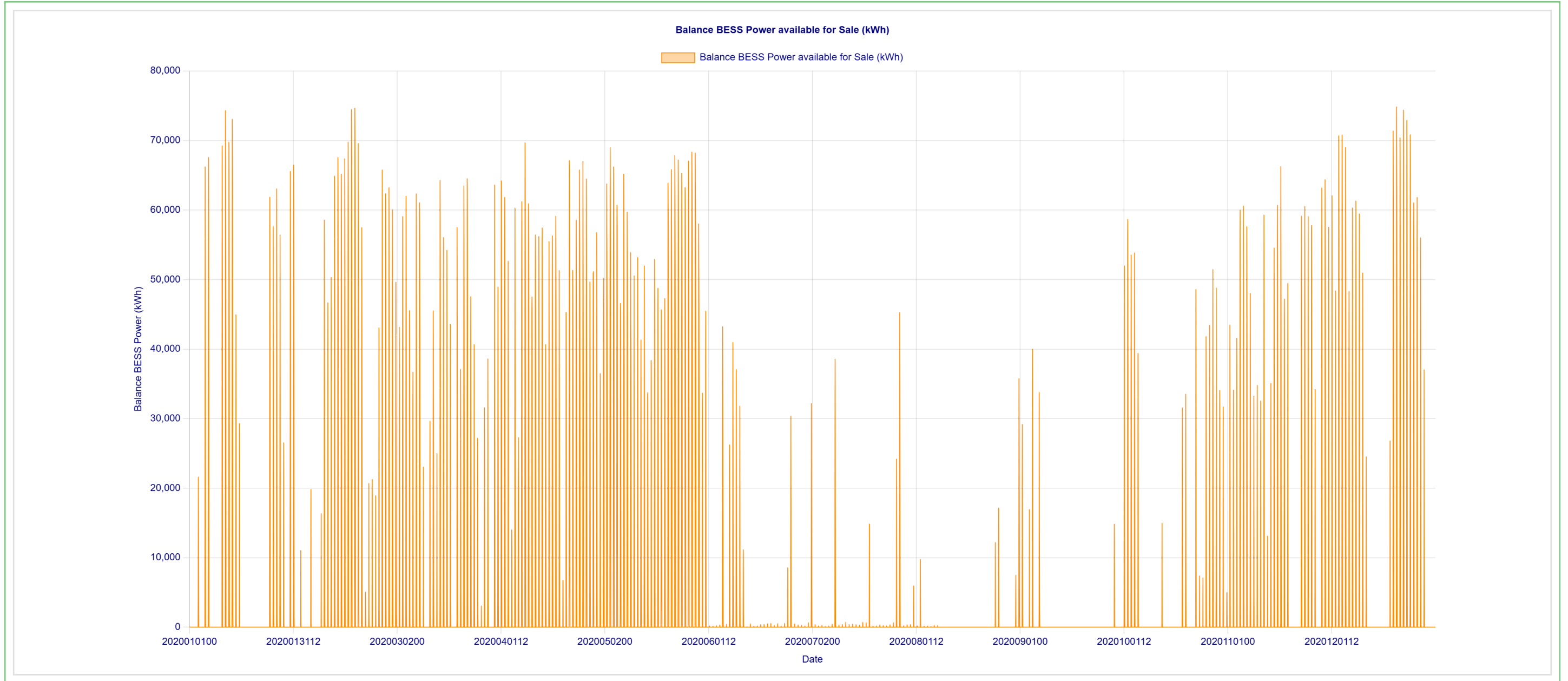




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BALANCE BESS POWER AVAILABLE FOR SALE GRAPH



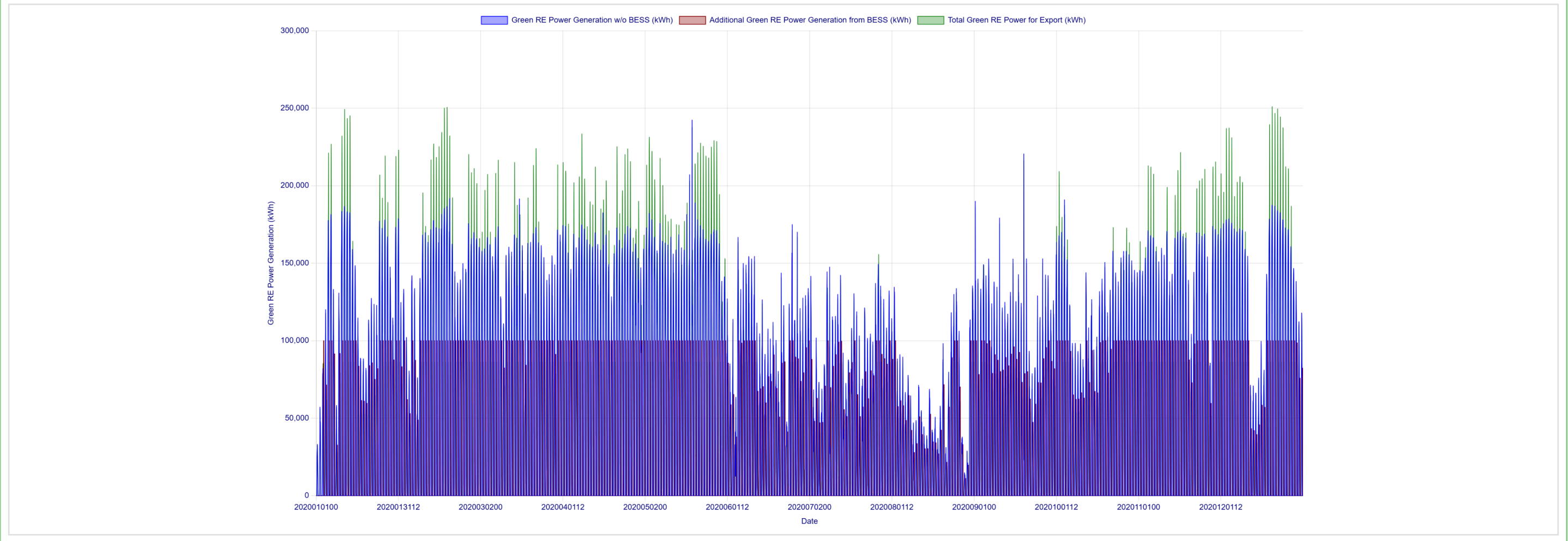


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GREEN RE POWER FOR EXPORT GRAPH

Maximum Green RE Power Generation w/o BESS kWh :	241603.90	Average Green RE Power Generation w/o BESS kWh :	44096.23	Minimum Green RE Power Generation w/o BESS kWh :	0.00
Maximum Green RE Power Generation from BESS kWh :	100000.00	Average Green RE Power Generation from BESS kWh :	14559.33	Minimum Green RE Power Generation from BESS kWh :	0.00
Maximum Total Green RE Power for Export kWh :	250467.50	Average Total Green RE Power for Export kWh :	59313.78	Minimum Total Green RE Power for Export kWh :	0.00





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LE Land Estimate		
Details	Unit	Data
Land Requirement for Solar Power Generation		
TOTAL PV MODULE AREA	SQ.M	1507575.3
LAND AREA UNDER ROWS	SQ.M	3768938.26
GROSS LAND AREA INCL INFRASTRUCTURE	SQ.M	4711172.83
TOTAL AREA FOR SOLAR POWER GENERATION	SQ.M / HECTARES / ACRES	4711172.83 / 471.12 / 1164.16
Land Requirement for BESS Plant		
BATTERY BLOCK AREA	SQ.M	67222.25
INVERTER SKIDS & TRANSFORMERS AREA	SQ.M	5377.78
POWER CONVERSION SYSTEM AREA	SQ.M	8066.67
AREA FOR ROADS AND OTHER INFRASTRUCTURE	SQ.M	32266.68
TOTAL AREA FOR BESS PLANT	SQ.M / HECTARES / ACRES	112933.38 / 11.29 / 27.91
Total Land Requirement for the Project		
TOTAL LAND REQUIREMENT FOR THE PROJECT	SQ.M / HECTARES / ACRES	4824106.21 / 482.41 / 1192.06
TOTAL PROJECT LAND COST		
SOLAR POWER PLANT LAND COST	Million INR	145.5194
BESS PLANT LAND COST	Million INR	3.4883
TOTAL PROJECT LAND COST	Million INR	149.0077



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CX Capex Estimate

Details	Unit	Data
SOLAR PV PLANT CAPEX ESTIMATION BREAK-UP		
PV Module Rated Power	Wp	580
PV Module Cost	INR/Wp	12
PV Module Total Quantity	nos	584111
Cost of Solar PV Modules	Million INR	4065.4126
Cost of Mounting Structures/Trackers	Million INR	369.583
Cost of Inverters	Million INR	443.4996
Cost of DC+AC BOS & Electrical System	Million INR	517.4161
Cost of Civil & Site Works	Million INR	295.6664
Cost of Grid Interconnection & Substation	Million INR	443.4996
Cost of Construction & Installation	Million INR	369.583
Cost of Project Management	Million INR	221.7498
Cost of Engineering, Permitting & Studies	Million INR	147.8332
Cost of EPC Management, HSE & QA/QC	Million INR	147.8332
Cost of Testing, Commissioning & COD activities	Million INR	73.9166
Cost of Insurance, Contingency & Spares	Million INR	295.6664
SOLAR PV PLANT CAPEX	Million INR	7391.6592
SOLAR PV PLANT CAPEX PER KW	INR/kW	26182
SOLAR PV PLANT CAPEX PER KW IN USD	USD/kW	277.53
BESS PLANT CAPEX ESTIMATION BREAK-UP		
BESS Load	KW	100000
BESS Plant Capacity	KWH	537778
Cost of Cost of Battery System per kWH	INR/kWH	3000
Cost of Battery system (containers + cells + racks)	Million INR	1613.334
Cost of PCS/Electrical System	Million INR	717.0373
Cost of Balance of Plant	Million INR	537.778
Cost of Civil & Site Works	Million INR	107.5556
Cost of Construction & Installation	Million INR	143.4075
Cost of Project Management	Million INR	107.5556
Cost of Engineering, Permitting & Studies	Million INR	71.7037

Details	Unit	Data
Cost of EPC Management, HSE & QA/QC	Million INR	71.7037
Cost of Testing, Commissioning & COD activities	Million INR	35.8519
Cost of Insurance, Contingency & Spares	Million INR	179.2593
BESS PLANT CAPEX	Million INR	3585.1867
BESS PLANT CAPEX PER KWH	INR/kWH	6667
BESS PLANT CAPEX PER KW IN USD	USD/kWH	70.67
TOTAL INVESTMENT (CAPEX)		
Solar PV Plant	Million INR / %	7391.70 / 64.639
BESS PLANT	Million INR / %	3585.37 / 31.354
PV OF Battery Replacement Cost	Million INR / %	309.21 / 2.704
PROJECT LAND COST	Million INR / %	149.01 / 1.303
Total Investment (CAPEX)	Million INR / %	11435.29 / 100
Total Investment (CAPEX) IN USD	Million USD	121.21
PROJECT FINANCIALS		
Gross Project Cost excluding IDC	Million INR	11435.29
Capital Subsidy	Million INR	0.00
Net Project Cost excluding IDC	Million INR	11435.29
Equity	%	30
Debt	%	70
Equity Capital Cost	Million INR	3555.01
Borrowed Capital Cost	Million INR	8295.03
Project Schedule for the Plant	Months	12
Interest During Construction(IDC)	Million INR	414.75
Total Borrowing	Million INR	8709.78
Net Project Cost including IDC	Million INR	11850.04
Total Project Cost	Million INR	11850.04
Installed Cost of Green Power Generation Plant	INR/kW	59250
Installed Cost of Green Power Generation Plant	USD/kW	628.05



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CF Carbon Footprint

Details	Unit	Data
CARBON FOOTPRINT - GHG EMISSION REDUCTION		
Baseline Emissions Factor for Grid Power	kg CO ₂ e/kWh	0.9
Project Lifecycle Intensity Emissions	kg CO ₂ e/kg kWh	0.056
Net Emission Reduction per kWh of RE Power	kg CO ₂ e/kg kWh	0.844
Annual Total Emission Reduction from the Project	kg CO ₂ e/year	466132835.84
Annual Total Emission Reduction from the Project	tons of CO ₂ e/year	466132.84
Carbon Credit Market/Standard		ICM (India)
Market Price for Carbon Credit for avoidance	USD/tons of CO ₂ e	10
Annual additional revenue from Carbon Credit	INR	439747958.34
GREENHOUSE GAS EQUIVALENCIES		
Petrol consumption for passenger cars for one year	No of Petrol Cars	108609
Electricity for passenger electric cars for one year	No of Electric Cars	411595
Equivalent to Coal burning	kgs	234930949
Equivalent to Oil consumption	barrels	1072106
Equivalent to Petrol consumption	litres	199504854
Equivalent to Diesel consumption	litres	173401415
Equivalent to carbon sequestered by tree seedlings grown for 10 years	No of trees	7691192



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KR Key Results

Details	Unit	Data
SITE AMBIENT,SOLAR AND WIND DATA		
PROJECT NAME		NAGPUR 200MW SOLAR/400MWH BESS HYBRID PROJECT
SITE LOCATION		Kalameshwar, Nagpur, Maharashtra, India
SITE LATITUDE	(+ = North & - = South hemisphere)	21.276898
SITE LONGITUDE	(+ = East & - = West of Greenwich meridian)	78.983764
SITE ELEVATION	meters above Mean Sea Level	315
GRID ELEVATION	meters above Mean Sea Level	454.84
MEAN AMBIENT TEMPERATURE	°C	24.96
MAXIMUM AMBIENT TEMPERATURE	°C	45.39
MINIMUM AMBIENT TEMPERATURE	°C	4.46
MEAN PRECIPITATION	mm/hr	3.49
MAXIMUM PRECIPITATION	mm/hr	301.41
MINIMUM PRECIPITATION	mm/hr	0
MEAN AIR DENSITY	kg/m ³	1.111
MAXIMUM AIR DENSITY	kg/m ³	1.2
MINIMUM AIR DENSITY	kg/m ³	1.05
MEAN WIND SPEED @ 10M	m/s	2.88
MAXIMUM WIND SPEED @ 10M	m/s	12.82
MINIMUM WIND SPEED @ 10M	m/s	0.06
MEAN WIND SPEED @ 50M	m/s	4.32
MAXIMUM WIND SPEED @ 50M	m/s	15.55
MINIMUM WIND SPEED @ 50M	m/s	0.07
MEAN RELATIVE HUMIDITY	%	63.65
MAXIMUM RELATIVE HUMIDITY	%	100
MINIMUM RELATIVE HUMIDITY	%	6.85
MEAN AMBIENT PRESSURE	kPa	95.76
MAXIMUM AMBIENT PRESSURE	kPa	96.97
MINIMUM AMBIENT PRESSURE	kPa	94.2
MEAN DIRECT NORMAL IRRADIANCE (DNI)	W/m ²	161.46
MAXIMUM DIRECT NORMAL IRRADIANCE (DNI)	W/m ²	1070.99
MINIMUM DIRECT NORMAL IRRADIANCE (DNI)	W/m ²	0



Details	Unit	Data
MEAN DIRECT HORIZONTAL IRRADIANCE (DHI)	W/m ²	88.51
MAXIMUM HORIZONTAL IRRADIANCE (DHI)	W/m ²	517.9
MINIMUM HORIZONTAL IRRADIANCE (DHI)	W/m ²	0
DATA ANALYSIS RESULTS		
TIME ZONE		India Standard Time
MAXIMUM GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	1456.19
AVERAGE GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	196.08
MINIMUM GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	0
System Loss	%	0.895
DC/AC Ratio		1.2
MEAN PV Module Cell Temperature	°C	32.78
MAXIMUM PV Module Cell Temperature	°C	88.2
MINIMUM PV Module Cell Temperature	°C	4.46
PLANT CAPACITIES AND OUTPUT GENERATION		
SOLAR PV PLANT CAPACITY	KW	282320
BESS PLANT CAPACITY	KWH	537778
ANNUAL GREEN RE POWER GENERATION		
ANNUAL GROSS GREEN RE POWER GENERATION	KWH / MKWH	552302235 / 552.30
ANNUAL NET GREEN RE POWER GENERATION	KWH / MKWH	546779213 / 546.78
ANNUAL GROSS GREEN RE POWER EXPORT	KWH / MKWH	531432517 / 531.43
GRID TRANSMISSION LOSSES	KWH / MKWH	10420245 / 10.42
ANNUAL NET GREEN RE POWER EXPORT	KWH / MKWH	521012272 / 521.01
ANNUAL WATER REQUIRED FOR SOLAR PLANT	CUM	77638
CAPACITY UTILIZATION FACTORS (CUF)		
Solar Energy Generator Gross Capacity Utilization Factor	%	22.27
Solar Energy Capacity Utilization Factor without BESS	%	22.05
BESS Capacity Utilization Factor	%	14.56
Solar Energy Net Capacity Utilization Factor with BESS	%	29.66
ANNUAL AUXILIARY POWER CONSUMPTION & OTHER LOSSES		
Annual Auxiliary Power Consumption - Solar	KWH / MKWH / %	5523022 / 5.52 / 17.65
Annual BESS Auxiliary Power & Other Losses	KWH / MKWH / %	15346694 / 15.35 / 49.05
Annual RE Transmission Losses	KWH / MKWH / %	0 / 0.00 / 0
Annual Grid Transmission Losses	KWH / MKWH / %	10420245 / 10.42 / 33.3



Details	Unit	Data
Total Plant Auxiliary Power & Other Losses	KWH / MKWH / %	31289961 / 31.29 / 100
CARBON FOOTPRINT - GHG EMISSION REDUCTION		
Annual Total Emission Reduction from the Project	tons of CO ₂ e/year	466132.84
Annual additional revenue from Carbon Credit	INR	439747958.34
PROJECT INVESTMENT		
TOTAL PROJECT COST	Million INR	11850.04
TOTAL PROJECT COST IN USD	Million USD	125.61
PROJECT COST PER KW	INR/KW	59250
LEVELAISED COST OF GENERATION		
GREEN RE POWER	INR/KWH	2.78
GREEN RE POWER IN USD	USD/KWH	0.03
SALE PRICE WITHOUT ESCALATION		
GREEN RE POWER	INR/KWH	2.86
PROJECT ECONOMICS		
AVERAGE DSCR		1.58
MINIMUM DSCR		1.13
PROJECT IRR	%	14.99
PROJECT NPV	Million INR	2009.46
PROJECT PAY BACK PERIOD	YEARS	6.67
EQUITY IRR	%	33.35
EQUITY NPV	Million INR	5045.46
EQUITY PAY BACK PERIOD	YEARS	3.00



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

GP ESTIMATED GENERATION AND POWER BALANCE

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
SOLAR PV PLANT POWER GENERATION																											
CAPACITY	MW	282.32	279.50	278.38	277.27	276.16	275.06	273.96	272.86	271.77	270.68	269.60	268.52	267.45	266.38	265.31	264.25	263.19	262.14	261.09	260.05	259.01	257.97	256.94	255.91	254.89	
OPERATING HOURS	HR	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956	1956
GROSS GENERATION	Million KWHR	552.30	546.78	544.59	542.41	540.24	538.08	535.93	533.79	531.65	529.52	527.40	525.29	523.19	521.10	519.02	516.94	514.87	512.81	510.76	508.72	506.69	504.66	502.64	500.63	498.63	
AUXILIARY CONSUMPTION	Million KWHR	5.52	5.47	5.45	5.42	5.40	5.38	5.36	5.34	5.32	5.30	5.27	5.25	5.23	5.21	5.19	5.17	5.15	5.13	5.11	5.09	5.07	5.05	5.03	5.01	4.99	
RE TRANSMISSION LOSS	Million KWHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
NET GENERATION	Million KWHR	546.78	541.31	539.14	536.99	534.84	532.70	530.57	528.45	526.33	524.22	522.13	520.04	517.96	515.89	513.83	511.77	509.72	507.68	505.65	503.63	501.62	499.61	497.61	495.62	493.64	
TOTAL NET GREEN RE POWER GENERATION																											
TOTAL NET GREEN RE POWER GENERATION	Million KWHR	546.78	541.31	539.14	536.99	534.84	532.70	530.57	528.45	526.33	524.22	522.13	520.04	517.96	515.89	513.83	511.77	509.72	507.68	505.65	503.63	501.62	499.61	497.61	495.62	493.64	
BATTERY ENERGY STORAGE SYSTEM (BESS) PLANT																											
CAPACITY	MWH	537.78	528.14	518.50	508.86	499.22	489.58	479.94	470.29	460.65	451.01	441.37	537.78	528.14	518.50	508.86	499.22	489.58	479.94	470.29	460.65	451.01	441.37	537.78	528.14	518.50	
OPERATING LOAD	MW	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
OPERATING HOURS	HR	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279
BESS OUTPUT	Million KWHR	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89	127.89
AUXILIARY POWER & OTHER LOSSES	Million KWHR	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
AUXILIARY POWER & OTHER LOSSES																											
SOLAR AUX POWER	Million KWHR	5.52	5.47	5.45	5.42	5.40	5.38	5.36	5.34	5.32	5.30	5.27	5.25	5.23	5.21	5.19	5.17	5.15	5.13	5.11	5.09	5.07	5.05	5.03	5.01	4.99	
BESS AUXILIARY POWER & OTHER LOSSES	Million KWHR	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
RE TRANSMISSION LOSSES	Million KWHR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
GRID TRANSMISSION LOSSES	Million KWHR	10.42	10.31	10.27	10.23	10.19	10.14	10.10	10.06	10.02	9.98	9.94	9.90	9.86	9.81	9.77	9.73	9.69	9.65	9.61	9.57	9.53	9.50	9.46	9.42	9.38	
TOTAL AUXILIARY POWER & OTHER LOSSES	Million KWHR	31.29	31.13	31.07	31.00	30.94	30.87	30.81	30.75	30.69	30.63	30.56	30.50	30.44	30.37	30.31	30.25	30.19	30.13	30.07	30.01	29.95	29.90	29.84	29.78	29.72	
POWER BALANCE																											
TOTAL GROSS GREEN RE POWER GENERATION	Million KWHR	552.30	546.78	544.59	542.41	540.24	538.08	535.93	533.79	531.65	529.52	527.40	525.29	523.19	521.10	519.02	516.94	514.87	512.81	510.76	508.72	506.69	504.66	502.64	500.63	498.63	
TOTAL AUXILIARY POWER & OTHER LOSSES	Million KWHR	31.29	31.13	31.07	31.00	30.94	30.87	30.81	30.75	30.69	30.63	30.56	30.50	30.44	30.37	30.31	30.25	30.19	30.13	30.07	30.01	29.95	29.90	29.84	29.78	29.72	
TOTAL NET GREEN RE POWER FOR EXPORT	Million KWHR	521.01	515.65	513.52	511.41	509.30	507.21	505.12	503.04	500.96	498.89	496.84	494.79	492.75	490.73	488.71	486.69	484.68	482.68	480.69	478.71	476.74	474.76	472.80	470.85	468.91	



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

FA **FIXED ASSETS, WORKING CAPITAL AND DEBT**

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25			
NET FIXED ASSETS																													
GROSS FIXED ASSETS OPENING	Million INR	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	14001.26	14001.26	14001.26		
NOT USED	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
ADD:BATTERY REPLACEMENT	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1075.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1075.61	0.00	0.00	0.00		
GROSS FIXED ASSETS CLOSING	Million INR	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	11850.04	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	12925.65	14001.26	14001.26	14001.26	14001.26	
DEPRECIATION:INITIAL	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60
NOT USED	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEPRECIATION:BATTERY	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.56	119.51	134.45	153.66	179.27	215.12	268.90	358.54	537.81	1075.61	0.00	107.56	119.51	134.45			
TOTAL DEPRECIATION	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	534.16	546.11	561.05	580.26	605.87	641.72	695.50	785.14	964.41	1502.21	426.60	534.16	546.11	561.05			
CUMULATIVE DEPRECIATION	Million INR	426.60	853.20	1279.80	1706.40	2133.00	2559.60	2986.20	3412.80	3839.40	4266.00	4692.60	5226.76	5772.87	6333.92	6914.18	7520.05	8161.77	8857.27	9642.41	10606.82	12109.03	12535.63	13069.79	13615.90	14176.95			
NET FIXED ASSETS	Million INR	11423.44	10996.84	10570.24	10143.64	9717.04	9290.44	8863.84	8437.24	8010.64	7584.04	8233.05	7698.89	7152.78	6591.73	6011.47	5405.60	4763.88	4068.38	3283.24	2318.83	816.62	1465.63	931.47	385.36	-175.69			
WORKING CAPITAL																													
TOTAL REVENUE	Million INR	1929.84	1954.11	1990.29	2026.59	2062.94	2099.42	2135.98	2177.68	2214.42	2256.27	2298.27	2340.35	2382.56	2424.95	2467.45	2514.94	2562.56	2605.50	2653.47	2706.38	2754.69	2803.09	2856.50	2910.09	2963.90			
RECEIVABLES	Million INR	160.82	162.84	165.86	168.88	171.91	174.95	178.00	181.47	184.54	188.02	191.52	195.03	198.55	202.08	205.62	209.58	213.55	217.13	221.12	225.53	229.56	233.59	238.04	242.51	246.99			
SPARES	Million INR	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	
O&M TIED UP	Million INR	20.84	21.84	22.89	23.99	25.15	26.37	27.64	28.99	30.40	31.88	33.44	35.07	36.79	38.60	40.50	42.49	44.59	46.80	49.12	51.56	54.13	56.83	59.67	62.66	65.80			
WORKING CAPITAL REQUIREMENT	Million INR	300.16	303.18	307.25	311.37	315.56	319.82	324.14	328.96	333.44	338.40	343.46	348.60	353.84	359.18	364.62	370.57	376.64	382.43	388.74	395.59	402.19	408.92	416.21	423.67	431.29			
WORKING CAPITAL LOAN LESS MARGIN	Million INR	225.12	227.39	230.44	233.53	236.67	239.87	243.11	246.72	250.08	253.80	257.60	261.45	265.38	269.39	273.47	277.93	282.48	286.82	291.56	296.69	301.64	306.69	312.16	317.75	323.47			
Δ WORKING CAPITAL REQUIREMENT	Million INR	300.16	3.02	4.07	4.12	4.19	4.26	4.32	4.82	4.48	4.96	5.06	5.14	5.24	5.34	5.44	5.95	6.07	5.79	6.31	6.85	6.60	6.73	7.29	7.46	7.62			
Δ WORKING CAPITAL LOAN	Million INR	225.12	2.27	3.05	3.09	3.14	3.20	3.24	3.61	3.36	3.72	3.80	3.85	3.93	4.01	4.08	4.46	4.55	4.34	4.74	5.13	4.95	5.05	5.47	5.59	5.72			
DEBT																													
TERM LOAN OPENING	Million INR	8709.78	8709.78	8709.78	7838.80	6967.82	6096.84	5225.86	4354.88	3483.90	2612.92	1741.94	870.96	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	
TERM LOAN REPAYMENT	Million INR	0.00	0.00	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TERM LOAN CLOSING	Million INR	8709.78	8709.78	7838.80	6967.82	6096.84	5225.86	4354.88	3483.90	2612.92	1741.94	870.96	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02		



PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25
INTEREST ON TERM LOAN	Million INR	609.68	609.68	609.68	548.72	487.75	426.78	365.81	304.84	243.87	182.91	121.94	60.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WORKING CAPITAL LOAN	Million INR	225.12	227.39	230.44	233.53	236.67	239.87	243.11	246.72	250.08	253.80	257.60	261.45	265.38	269.39	273.47	277.93	282.48	286.82	291.56	296.69	301.64	306.69	312.16	317.75	323.47
INTEREST ON WORKING CAPITAL LOAN	Million INR	15.76	15.92	16.13	16.35	16.57	16.79	17.02	17.27	17.51	17.77	18.03	18.30	18.58	18.86	19.14	19.46	19.77	20.08	20.41	20.77	21.11	21.47	21.85	22.24	22.64



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LC		ESTIMATION OF LEVELISED COST OF GENERATION																								
PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25
INTEREST ON TERM LOAN																										
INTEREST ON TERM LOAN	Million INR	609.68	609.68	609.68	548.72	487.75	426.78	365.81	304.84	243.87	182.91	121.94	60.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BOOK DEPRECIATION																										
OPENING VALUE	Million INR	11850.04	11423.44	10996.84	10570.24	10143.64	9717.04	9290.44	8863.84	8437.24	8010.64	7584.04	7157.44	6623.28	6077.17	5516.12	4935.86	4329.99	3688.27	2992.77	2207.63	1243.22	-258.99	-685.59	-1219.75	-1765.86
BOOK DEPRECIATION	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	534.16	546.11	561.05	580.26	605.87	641.72	695.50	785.14	964.41	1502.21	426.60	534.16	546.11	561.05
CLOSING VALUE	Million INR	11423.44	10996.84	10570.24	10143.64	9717.04	9290.44	8863.84	8437.24	8010.64	7584.04	7157.44	6623.28	6077.17	5516.12	4935.86	4329.99	3688.27	2992.77	2207.63	1243.22	-258.99	-685.59	-1219.75	-1765.86	-2326.91
CUMULATIVE DEPRECIATION	Million INR	426.60	853.20	1279.80	1706.40	2133.00	2559.60	2986.20	3412.80	3839.40	4266.00	4692.60	5226.76	5772.87	6333.92	6914.18	7520.05	8161.77	8857.27	9642.41	10606.82	12109.03	12535.63	13069.79	13615.90	14176.95
O & M EXPENSES																										
SOLAR PV POWER PLANT O & M	Million INR	169.39	177.52	186.06	195.03	204.44	214.33	224.72	235.63	247.09	259.13	271.79	285.09	299.06	313.75	329.19	345.42	362.49	380.43	399.30	419.13	440.00	461.95	485.03	509.32	534.86
BESS PLANT O & M	Million INR	80.67	84.54	88.60	92.87	97.36	102.07	107.01	112.21	117.67	123.40	129.43	135.76	142.42	149.41	156.77	164.49	172.62	181.17	190.15	199.60	209.53	219.99	230.98	242.54	254.71
TOTAL O & M EXPENSES	Million INR	250.06	262.06	274.66	287.90	301.80	316.40	331.73	347.84	364.76	382.53	401.22	420.85	441.48	463.16	485.96	509.91	535.11	561.60	589.45	618.73	649.53	681.94	716.01	751.86	789.57
WATER COST																										
WATER COST	Million INR	3.88	4.07	4.26	4.47	4.69	4.91	5.15	5.40	5.66	5.94	6.23	6.53	6.85	7.19	7.54	7.92	8.31	8.72	9.15	9.61	10.08	10.59	11.12	11.67	12.26
SOLAR PV MODULE REPLACEMENT COST																										
NO OF PV MODULES FOR REPLACEMENT	NOS	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454	2454
PV MODULE UNIT COST	INR	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00	6960.00
SOLAR PV MODULE REPLACEMENT COST	Million INR	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08
RETURN ON EQUITY																										
RETURN ON EQUITY	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON WORKING CAPITAL																										
WORKING CAPITAL	Million INR	300.16	303.18	307.25	311.37	315.56	319.82	324.14	328.96	333.44	338.40	343.46	348.60	353.84	359.18	364.62	370.57	376.64	382.43	388.74	395.59	402.19	408.92	416.21	423.67	431.29
INTEREST ON WORKING CAPITAL	Million INR	15.76	15.92	16.13	16.35	16.57	16.79	17.02	17.27	17.51	17.77	18.03	18.30	18.58	18.86	19.14	19.46	19.77	20.08	20.41	20.77	21.11	21.47	21.85	22.24	22.64
INCOME TAX																										
INCOME TAX	Million INR	0.00	0.00	0.00	49.28	100.67	135.90	169.27	202.06	232.19	262.01	266.86	296.55	324.89	338.59	351.14	363.68	375.22	384.77	394.51	404.46	412.57	396.23	406.24	415.31	423.46
TOTAL COST OF GENERATION																										
TOTAL COST OF GENERATION	Million	1323.06	1335.41	1348.41	1350.40	1355.16	1344.46	1332.66	1321.09	1307.67	1294.84	1257.96	1354.44	1354.99	1405.93	1461.12	1523.92	1597.21	1687.75	1815.74	2035.06	2612.58	1553.91	1706.46	1764.27	1826.06



PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
	INR																										
LEVELIZED COST OF GENERATION (LCOG)																											
DISCOUNTING FACTOR		1.00	0.89	0.80	0.71	0.64	0.57	0.51	0.45	0.40	0.36	0.32	0.29	0.26	0.23	0.20	0.18	0.16	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.07	
LCOG - GREEN RE POWER																											
COST OF GENERATION	INR/ KWH	2.54	2.59	2.63	2.64	2.66	2.65	2.64	2.63	2.61	2.60	2.53	2.74	2.75	2.86	2.99	3.13	3.30	3.50	3.78	4.25	5.48	3.27	3.61	3.75	3.89	
DISCOUNTED COST OF GENERATION	INR/ KWH	2.54	2.31	2.10	1.87	1.70	1.51	1.35	1.18	1.04	0.94	0.81	0.79	0.72	0.66	0.60	0.56	0.53	0.53	0.49	0.51	0.55	0.29	0.29	0.26	0.27	
LEVELIZED COST OF GENERATION (LCOG)	INR/ KWH	2.78																									



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

RV ESTIMATION OF REVENUE GENERATION		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25
PROJECTED REVENUE																										
REVENUE FROM SALE OF RE GREEN POWER																										
RE GREEN POWER GENERATION	Million KWHR	521.01	515.65	513.52	511.41	509.30	507.21	505.12	503.04	500.96	498.89	496.84	494.79	492.75	490.73	488.71	486.69	484.68	482.68	480.69	478.71	476.74	474.76	472.80	470.85	468.91
RE GREEN POWER SALE PRICE	INR/ KWH	2.86	2.92	2.98	3.04	3.10	3.16	3.22	3.29	3.35	3.42	3.49	3.56	3.63	3.70	3.77	3.85	3.93	4.00	4.08	4.17	4.25	4.33	4.42	4.51	4.60
REVENUE FROM SALE OF RE GREEN POWER	Million INR	1490.09	1505.70	1530.29	1554.69	1578.83	1602.78	1626.49	1655.00	1678.22	1706.20	1733.97	1761.45	1788.68	1815.70	1842.44	1873.76	1904.79	1930.72	1961.22	1996.22	2026.15	2055.71	2089.78	2123.53	2156.99
REVENUE FROM SALE OF CARBON CREDIT																										
ANNUAL TOTAL EMISSION REDUCTION FROM THE PROJECT	tCO ₂ e/ year	466131	461465	459614	457771	455937	454111	452294	450485	448676	446876	445084	443300	441525	439759	438000	436242	434493	432751	431019	429294	427578	425862	424155	422456	420765
CARBON CREDIT SALE PRICE	INR/ tCO ₂ e	943.40	971.70	1000.85	1030.87	1061.80	1093.65	1126.46	1160.26	1195.07	1230.92	1267.85	1305.88	1345.06	1385.41	1426.97	1469.78	1513.87	1559.29	1606.07	1654.25	1703.88	1754.99	1807.64	1861.87	1917.73
REVENUE FROM SALE OF CARBON CREDIT	Million INR	439.75	448.41	460.00	471.90	484.11	496.64	509.49	522.68	536.20	550.07	564.30	578.90	593.88	609.25	625.01	641.18	657.77	674.78	692.25	710.16	728.54	747.38	766.72	786.56	806.91
RE GENERATION BASED INCENTIVE (GBI)																										
RE GBI RATE	INR/ KWH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REVENUE FROM RE GENERATION BASED INCENTIVE (GBI)	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REVENUE LOSS DUE TO CURTAILMENT / LOSSES FROM SALE OF RE GREEN POWER																										
CURTAILMENT / LOSSES	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REVENUE LOSS DUE TO CURTAILMENT / LOSSES	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL REVENUE GENERATION																										
TOTAL REVENUE GENERATION	Million INR	1929.84	1954.11	1990.29	2026.59	2062.94	2099.42	2135.98	2177.68	2214.42	2256.27	2298.27	2340.35	2382.56	2424.95	2467.45	2514.94	2562.56	2605.50	2653.47	2706.38	2754.69	2803.09	2856.50	2910.09	2963.90



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

PS PROJECTED PROFITABILITY STATEMENT

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
EARNINGS BEFORE INTEREST TAX DEPRECIATION AMORTIZATION (EBITDA)																											
TOTAL REVENUE	Million INR	1929.84	1954.11	1990.29	2026.59	2062.94	2099.42	2135.98	2177.68	2214.42	2256.27	2298.27	2340.35	2382.56	2424.95	2467.45	2514.94	2562.56	2605.50	2653.47	2706.38	2754.69	2803.09	2856.50	2910.09	2963.90	
NOT USED	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
O&M EXPENSES	Million INR	250.06	262.06	274.66	287.90	301.80	316.40	331.73	347.84	364.76	382.53	401.22	420.85	441.48	463.16	485.96	509.91	535.11	561.60	589.45	618.73	649.53	681.94	716.01	751.86	789.57	
WATER COST	Million INR	3.88	4.07	4.26	4.47	4.69	4.91	5.15	5.40	5.66	5.94	6.23	6.53	6.85	7.19	7.54	7.92	8.31	8.72	9.15	9.61	10.08	10.59	11.12	11.67	12.26	
PV MODULE REPLACEMENT COST	Million INR	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	17.08	
EBITDA	Million INR	1658.82	1670.90	1694.29	1717.14	1739.37	1761.03	1782.02	1807.36	1826.92	1850.72	1873.74	1895.89	1917.15	1937.52	1956.87	1980.03	2002.06	2018.10	2037.79	2060.96	2078.00	2093.48	2112.29	2129.48	2144.99	
EARNINGS BEFORE INTEREST TAXES (EBIT)																											
BOOK DEPRECIATION	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	534.16	546.11	561.05	580.26	605.87	641.72	695.50	785.14	964.41	1502.21	426.60	534.16	546.11	561.05	
EBIT	Million INR	1232.22	1244.30	1267.69	1290.54	1312.77	1334.43	1355.42	1380.76	1400.32	1424.12	1447.14	1361.73	1371.04	1376.47	1376.61	1374.16	1360.34	1322.60	1252.65	1096.55	575.79	1666.88	1578.13	1583.37	1583.94	
PROFIT BEFORE TAX (PBT)																											
INTEREST ON TERM LOAN	Million INR	609.68	609.68	609.68	548.72	487.75	426.78	365.81	304.84	243.87	182.91	121.94	60.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
INTEREST ON WORKING CAPITAL	Million INR	15.76	15.92	16.13	16.35	16.57	16.79	17.02	17.27	17.51	17.77	18.03	18.30	18.58	18.86	19.14	19.46	19.77	20.08	20.41	20.77	21.11	21.47	21.85	22.24	22.64	
PBT	Million INR	606.78	618.70	641.88	725.47	808.45	890.86	972.59	1058.65	1138.94	1223.44	1307.17	1282.46	1352.46	1357.61	1357.47	1354.70	1340.57	1302.52	1232.24	1075.78	554.68	1645.41	1556.28	1561.13	1561.30	
PROFIT AFTER TAX (PAT)																											
OPENING VALUE	Million INR	11850.04	10665.04	9598.54	8638.69	7774.82	6997.34	6297.61	5667.85	5101.06	4590.95	5207.46	4686.71	4218.04	3796.24	3416.62	3074.96	2767.46	2490.71	2241.64	2017.48	1815.73	2709.77	2438.79	2194.91	1975.42	
TAX DEPRECIATION	Million INR	1185.00	1066.50	959.85	863.87	777.48	699.73	629.76	566.79	510.11	459.10	520.75	468.67	421.80	379.62	341.66	307.50	276.75	249.07	224.16	201.75	181.57	270.98	243.88	219.49	197.54	
CLOSING VALUE	Million INR	10665.04	9598.54	8638.69	7774.82	6997.34	6297.61	5667.85	5101.06	4590.95	4131.85	4686.71	4218.04	3796.24	3416.62	3074.96	2767.46	2490.71	2241.64	2017.48	1815.73	1634.16	2438.79	2194.91	1975.42	1777.88	
CUMULATIVE DEPRECIATION	Million INR	10665.04	11731.54	12691.39	13555.26	14332.74	15032.47	15662.23	16229.02	16739.13	17198.23	17718.98	18187.65	18609.45	18989.07	19330.73	19638.23	19914.98	20164.05	20388.21	20589.96	20771.53	21042.51	21286.39	21505.88	21703.42	
TAXABLE INCOME (AFTER LOSS (CF))	Million INR	0.00	0.00	0.00	224.01	457.57	617.73	769.43	918.46	1055.43	1190.94	1213.02	1347.95	1476.77	1539.04	1596.07	1653.07	1705.54	1748.95	1793.22	1838.44	1875.32	1801.03	1846.56	1887.75	1924.81	
LOSS CARRIED FORWARD (CF)	Million INR	151.62	172.82	64.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TAX	Million INR	0.00	0.00	0.00	49.28	100.67	135.90	169.27	202.06	232.19	262.01	266.86	296.55	324.89	338.59	351.14	363.68	375.22	384.77	394.51	404.46	412.57	396.23	406.24	415.31	423.46	
PAT	Million INR	606.78	618.70	641.88	676.19	707.78	754.96	803.32	856.59	906.75	961.43	1040.31	985.91	1027.57	1019.02	1006.33	991.02	965.35	917.75	837.73	671.32	142.11	1249.18	1150.04	1145.82	1137.84	
NET CASH ACCRUAL																											
NET CASH ACCRUAL	Million	1033.38	1045.30	1068.48	1102.79	1134.38	1181.56	1229.92	1283.19	1333.35	1388.03	1466.91	1520.07	1573.68	1580.07	1586.59	1596.89	1607.07	1613.25	1622.87	1635.73	1644.32	1675.78	1684.20	1691.93	1698.89	



PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25
	INR																									
CUMULATIVE CASH ACCRUAL	Million INR	1033.38	2078.68	3147.16	4249.95	5384.33	6565.89	7795.81	9079.00	10412.35	11800.38	13267.29	14787.36	16361.04	17941.11	19527.70	21124.59	22731.66	24344.91	25967.78	27603.51	29247.83	30923.61	32607.81	34299.74	35998.63



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GREEN SOLAR POWER GENERATION

CF PROJECTED CASH FLOW STATEMENT

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25
OPERATING CASH FLOW																										
PAT	Million INR	606.78	618.70	641.88	676.19	707.78	754.96	803.32	856.59	906.75	961.43	1040.31	985.91	1027.57	1019.02	1006.33	991.02	965.35	917.75	837.73	671.32	142.11	1249.18	1150.04	1145.82	1137.84
ADD:BOOK DEPRECIATION	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	534.16	546.11	561.05	580.26	605.87	641.72	695.50	785.14	964.41	1502.21	426.60	534.16	546.11	561.05
LESS:WORING CAPITAL REQUIREMENT	Million INR	-300.16	-3.02	-4.07	-4.12	-4.19	-4.26	-4.32	-4.82	-4.48	-4.96	-5.06	-5.14	-5.24	-5.34	-5.44	-5.95	-6.07	-5.79	-6.31	-6.85	-6.60	-6.73	-7.29	-7.46	-7.62
OPERATING CASH FLOW	Million INR	733.22	1042.28	1064.41	1098.67	1130.19	1177.30	1225.60	1278.37	1328.87	1383.07	1461.85	1514.93	1568.44	1574.73	1581.15	1590.94	1601.00	1607.46	1616.56	1628.88	1637.72	1669.05	1676.91	1684.47	1691.27
INVESTING CASH FLOW																										
SUBSIDY RECEIPT	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CASH RESERVE FOR FUTURE INVESTMENT	Million INR	309.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOT USED	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CAPEX BATTERY REPLACEMENT	Million INR	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-1075.61	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-1075.61	-0.00	-0.00	-0.00
INVESTING CASH FLOW	Million INR	309.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1075.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1075.61	0.00	0.00	0.00
FINANCING CASH FLOW																										
INTEREST DURING CONSTRUCTION	Million INR	414.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WORING CAPITAL LOAN	Million INR	225.12	2.27	3.05	3.09	3.14	3.20	3.24	3.61	3.36	3.72	3.80	3.85	3.93	4.01	4.08	4.46	4.55	4.34	4.74	5.13	4.95	5.05	5.47	5.59	5.72
TERM LOAN REPAYMENT	Million INR	-0.00	-0.00	-870.98	-870.98	-870.98	-870.98	-870.98	-870.98	-870.98	-870.98	-870.98	-870.98	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
FINANCING CASH FLOW	Million INR	639.87	2.27	-867.93	-867.89	-867.84	-867.78	-867.74	-867.37	-867.62	-867.26	-867.18	-867.13	3.93	4.01	4.08	4.46	4.55	4.34	4.74	5.13	4.95	5.05	5.47	5.59	5.72
NET CASH MOVEMENT																										
NET CASH MOVEMENT	Million INR	1682.30	1044.55	196.48	230.78	262.35	309.52	357.86	411.00	461.25	515.81	-480.94	647.80	1572.37	1578.74	1585.23	1595.40	1605.55	1611.80	1621.30	1634.01	1642.67	598.49	1682.38	1690.06	1696.99
CASH BALANCE																										
OPENING CASH BALANCE	Million INR	0.00	1682.30	2726.85	2923.33	3154.11	3416.46	3725.98	4083.84	4494.84	4956.09	5471.90	4990.96	5638.76	7211.13	8789.87	10375.10	11970.50	13576.05	15187.85	16809.15	18443.16	20085.83	20684.32	22366.70	24056.76
CLOSING CASH BALANCE	Million INR	1682.30	2726.85	2923.33	3154.11	3416.46	3725.98	4083.84	4494.84	4956.09	5471.90	4990.96	5638.76	7211.13	8789.87	10375.10	11970.50	13576.05	15187.85	16809.15	18443.16	20085.83	20684.32	22366.70	24056.76	25753.75



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

BS PROJECTED BALANCE SHEET

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
LIABILITY & EQUITY																											
SHARE CAPITAL - EQUITY	Million INR	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01	3555.01
RETAINED EARNINGS	Million INR	606.78	1225.48	1867.36	2543.55	3251.33	4006.29	4809.61	5666.20	6572.95	7534.38	8574.69	9560.60	10588.17	11607.19	12613.52	13604.54	14569.89	15487.64	16325.37	16996.69	17138.80	18387.98	19538.02	20683.84	21821.68	
CASH RESERVE FOR FUTURE INVESTMENT	Million INR	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21	309.21
CAPITAL SUBSIDY RESERVE	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TERM LOAN	Million INR	8709.78	8709.78	7838.80	6967.82	6096.84	5225.86	4354.88	3483.90	2612.92	1741.94	870.96	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
WORKING CAPITAL LOAN	Million INR	225.12	227.39	230.44	233.53	236.67	239.87	243.11	246.72	250.08	253.80	257.60	261.45	265.38	269.39	273.47	277.93	282.48	286.82	291.56	296.69	301.64	306.69	312.16	317.75	323.47	
TOTAL LIABILITY & EQUITY	Million INR	13405.90	14026.87	13800.82	13609.12	13449.06	13336.24	13271.82	13261.04	13300.17	13394.34	13567.47	13686.25	14717.75	15740.78	16751.19	17746.67	18716.57	19638.66	20481.13	21157.58	21304.64	22558.87	23714.38	24865.79	26009.35	
ASSETS																											
NET FIXED ASSETS	Million INR	11423.44	10996.84	10570.24	10143.64	9717.04	9290.44	8863.84	8437.24	8010.64	7584.04	8233.05	7698.89	7152.78	6591.73	6011.47	5405.60	4763.88	4068.38	3283.24	2318.83	816.62	1465.63	931.47	385.36	-175.69	
RECEIVABLES	Million INR	160.82	162.84	165.86	168.88	171.91	174.95	178.00	181.47	184.54	188.02	191.52	195.03	198.55	202.08	205.62	209.58	213.55	217.13	221.12	225.53	229.56	233.59	238.04	242.51	246.99	
SPARES	Million INR	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50	118.50
O&M TIED UP	Million INR	20.84	21.84	22.89	23.99	25.15	26.37	27.64	28.99	30.40	31.88	33.44	35.07	36.79	38.60	40.50	42.49	44.59	46.80	49.12	51.56	54.13	56.83	59.67	62.66	65.80	
CASH BALANCE	Million INR	1682.30	2726.85	2923.33	3154.11	3416.46	3725.98	4083.84	4494.84	4956.09	5471.90	4990.96	5638.76	7211.13	8789.87	10375.10	11970.50	13576.05	15187.85	16809.15	18443.16	20085.83	20684.32	22366.70	24056.76	25753.75	
TOTAL ASSETS	Million INR	13405.90	14026.87	13800.82	13609.12	13449.06	13336.24	13271.82	13261.04	13300.17	13394.34	13567.47	13686.25	14717.75	15740.78	16751.19	17746.67	18716.57	19638.66	20481.13	21157.58	21304.64	22558.87	23714.38	24865.79	26009.35	
CHECK																											
CHECK	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

DS DEBT SERVICE COVERAGE RATIO

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
DEBT SERVICE COVERAGE RATIO (DSCR)																											
PROFIT AFTER TAX (PAT)	Million INR	606.78	618.70	641.88	676.19	707.78	754.96	803.32	856.59	906.75	961.43	1040.31	985.91	1027.57	1019.02	1006.33	991.02	965.35	917.75	837.73	671.32	142.11	1249.18	1150.04	1145.82	1137.84	
DEPRECIATION	Million INR	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	426.60	534.16	546.11	561.05	580.26	605.87	641.72	695.50	785.14	964.41	1502.21	426.60	534.16	546.11	561.05	
INTEREST ON LOAN	Million INR	609.68	609.68	609.68	548.72	487.75	426.78	365.81	304.84	243.87	182.91	121.94	60.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
REPAYMENT OF PRINCIPAL	Million INR	0.00	0.00	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	870.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEBT SERVICE	Million INR	609.68	609.68	1480.66	1419.70	1358.73	1297.76	1236.79	1175.82	1114.85	1053.89	992.92	931.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEBT SERVICE COVERAGE RATIO (DSCR)		2.69	2.71	1.13	1.16	1.19	1.24	1.29	1.35	1.41	1.49	1.60	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
AVERAGE DSCR		1.58																									
MINIMUM DSCR		1.13																									



Clean Green Energy Mission - Report
GREEN SOLAR POWER GENERATION

IR INTERNAL RATE OF RETURN (IRR) AND NET PRESENT VALUE (NPV)

PARTICULARS/YEARS		YEAR0	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20	YEAR21	YEAR22	YEAR23	YEAR24	YEAR25	
OVERALL PROJECT																												
CASH OUTFLOW	Million INR	11540.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CASH INFLOW	Million INR	0.00	1968.03	1670.90	1694.29	1717.14	1739.37	1761.03	1782.02	1807.36	1826.92	1850.72	798.13	1895.89	1917.15	1937.52	1956.87	1980.03	2002.06	2018.10	2037.79	2060.96	2078.00	1017.87	2112.29	2129.48	2144.99	
SALVAGE VALUE	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1185.00	
NET CASH INFLOW	Million INR	-11540.83	1968.03	1670.90	1694.29	1717.14	1739.37	1761.03	1782.02	1807.36	1826.92	1850.72	798.13	1895.89	1917.15	1937.52	1956.87	1980.03	2002.06	2018.10	2037.79	2060.96	2078.00	1017.87	2112.29	2129.48	3329.99	
IRR (PROJECT)	%	14.99																										
NPV (PROJECT)	Million INR	2009.46																										
PROJECT PAY BACK PERIOD	YEARS	6.67																										
EQUITY																												
CASH OUTFLOW	Million INR	3555.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CASH INFLOW	Million INR	0.00	1342.59	1045.30	1068.48	1102.79	1134.38	1181.56	1229.92	1283.19	1333.35	1388.03	391.30	1520.07	1573.68	1580.07	1586.59	1596.89	1607.07	1613.25	1622.87	1635.73	1644.32	600.17	1684.20	1691.93	1698.89	
SALVAGE VALUE	Million INR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1185.00	
NET CASH INFLOW	Million INR	-3555.01	1342.59	1045.30	1068.48	1102.79	1134.38	1181.56	1229.92	1283.19	1333.35	1388.03	391.30	1520.07	1573.68	1580.07	1586.59	1596.89	1607.07	1613.25	1622.87	1635.73	1644.32	600.17	1684.20	1691.93	2883.89	
IRR (EQUITY)	%	33.35																										
NPV (EQUITY)	Million INR	5045.46																										
EQUITY PAY BACK PERIOD	YEARS	3.00																										