



CLEAN GREEN ENERGY MISSION

PROJECT REPORT

SOLAR WIND HYBRID POWER GENERATION

Project Name	HYBRID
Project Reference	P-001
Site	Rona taluku, Gadag, Karnataka, India
Client Name	AESPL
Client Reference	C-001
Generated On	29-Apr-2026 20:55
Prepared By	ASHWINKUMAR/ARAVINTHRAAJAN ENERGY SYSTEM





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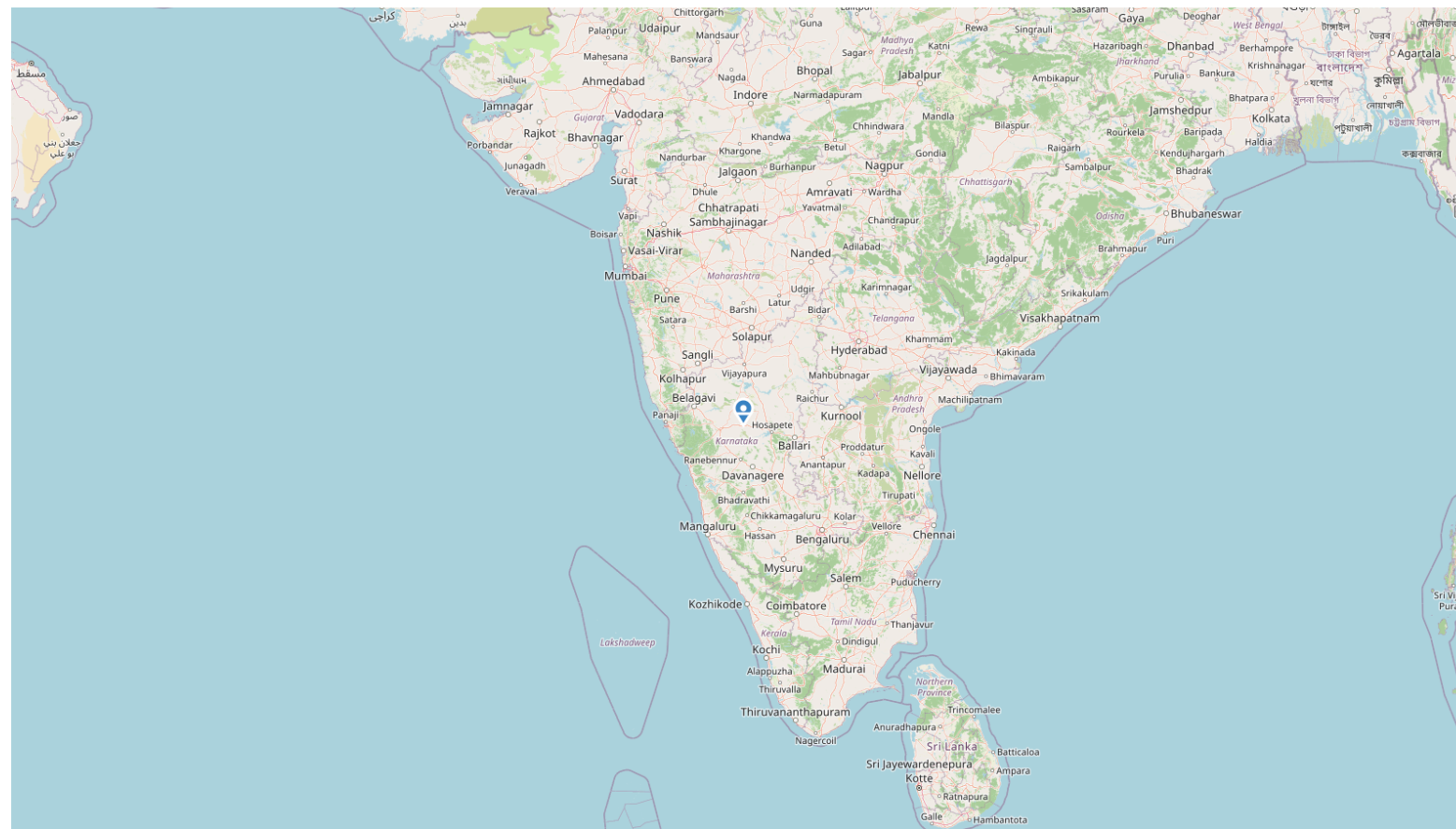


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SITE LOCATION

Location	Rona taluku, Gadag, Karnataka, India
Latitude	15.560371
Longitude	75.694771

Site Map Snapshot





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KI Key Inputs		
Details	Unit	Data
PROJECT DATA		
Project Name		HYBRID
Project Reference		P-001
Client Name		AESPL
Client Reference		C-001
Revision No.		A
Revision Date		26/11/2025
PROJECT CURRENCY		
Project Currency		INR
SITE LOCATION		
Location		Rona taluku, Gadag, Karnataka, India
Latitude		15.560371
Longitude		75.694771
YEAR FOR SOLAR AND WIND DATA		
Year for Solar and Wind Data		2024
RE POWER GENERATION		
Solar Power Generation	MW	100
Wind Power Generation	MW	100
Purpose of BESS	at 17hours	Evening Peak Shifting
SOLAR PV PLANT		
PV Module Type		Monocrystalline
PV Module Technology		Bifacial N-Type TOPCon
PV Module Make & Model		Avaada Energy Pvt. Ltd. AVN66G12G 720
PV Module STC Power	Wp	720
PV Module STC Efficiency	%	23.18
NOCT	°C	45
Temperature Coefficient Pmax	%/°C	-0.3
Bifacial Power Gain	%	10
Albedo		0.2
PV Module Height	mm	2384



Details	Unit	Data
PV Module Width	mm	1303
PV Module Cost	INR/Wp	14
Product Warranty	Years	12
Power Warranty	Years	25
PV Module Yearly Replacement	%	0.42
Tilt Angle	Degrees	35
Tracking		2-axis (tilt & azimuth)
Inverter Efficiency	%	97
Ground Coverage Ratio		0.4
Infra / non-module area margin	%	25
Soiling	%	2
Shading	%	1
Incidence Angle Modifier(IAM)	%	2
AC Wiring	%	1.5
DC Wiring	%	1.5
Light Induced Degradation(LID)	%	1.5
DC Mismatch	%	2
Availability	%	1
WIND ENERGY GENERATOR PLANT		
WEG Make & Model		GE Vernova 3.2-130
WEG Rated Power		3200
Rotor Diameter	Meter	130
Hub Height	Meter	155
WEG System Loss	%	0
Average Power Coefficient (Cp)	(0 means OEM power curve is applied)	0
Rated Speed	m/s	12.5
Cut-in-Speed	m/s	3
Cut-out-Speed	m/s	25
Cost of Wind Energy Generator	INR/KW	40000
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



Details	Unit	Data
Autonomy	Hours	6
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	3500
Cell Replacement (% of CAPEX)	% of CAPEX COD	30
CAPEX OF THE PLANT		
CAPEX for Solar PV Plant	INR/KW	30545
CAPEX of Wind Turbine	INR/KW	66667
CAPEX of BESS Plant	INR/KWH	7778
Land Price	INR/ACRES	200000
Country Factor for Labour Work		1
PLANT OPERATING DETAILS		
Life of the Plant	YEARS	20
Construction Period	MONTHS	9
O&M Expenses - Solar PV Plant	INR/KW	600
O&M Expenses - Wind Turbine	INR/KW	1200
O&M Expenses - BESS	INR/KWH	150
Auxiliary Power - Wind Turbine	%	0.5
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



Details	Unit	Data
Working Capital Margine Money	%	25
TAX Depreciation Rate	%	10
Discount Rate	%	8
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	0
PLANT DEGRADATION		
Solar PV 1stYear Degradation	%	1
Solar PV Annual Degradation	%	0.5
Wind Turbine Annual Degradation	%	0.7
BESS Annual Degradation	%	1
Curtailment / Losses	%	0
RE Transmission Losses	%	1
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-Wind	kg CO ₂ e/kWh	0.015



Details	Unit	Data
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	%	2



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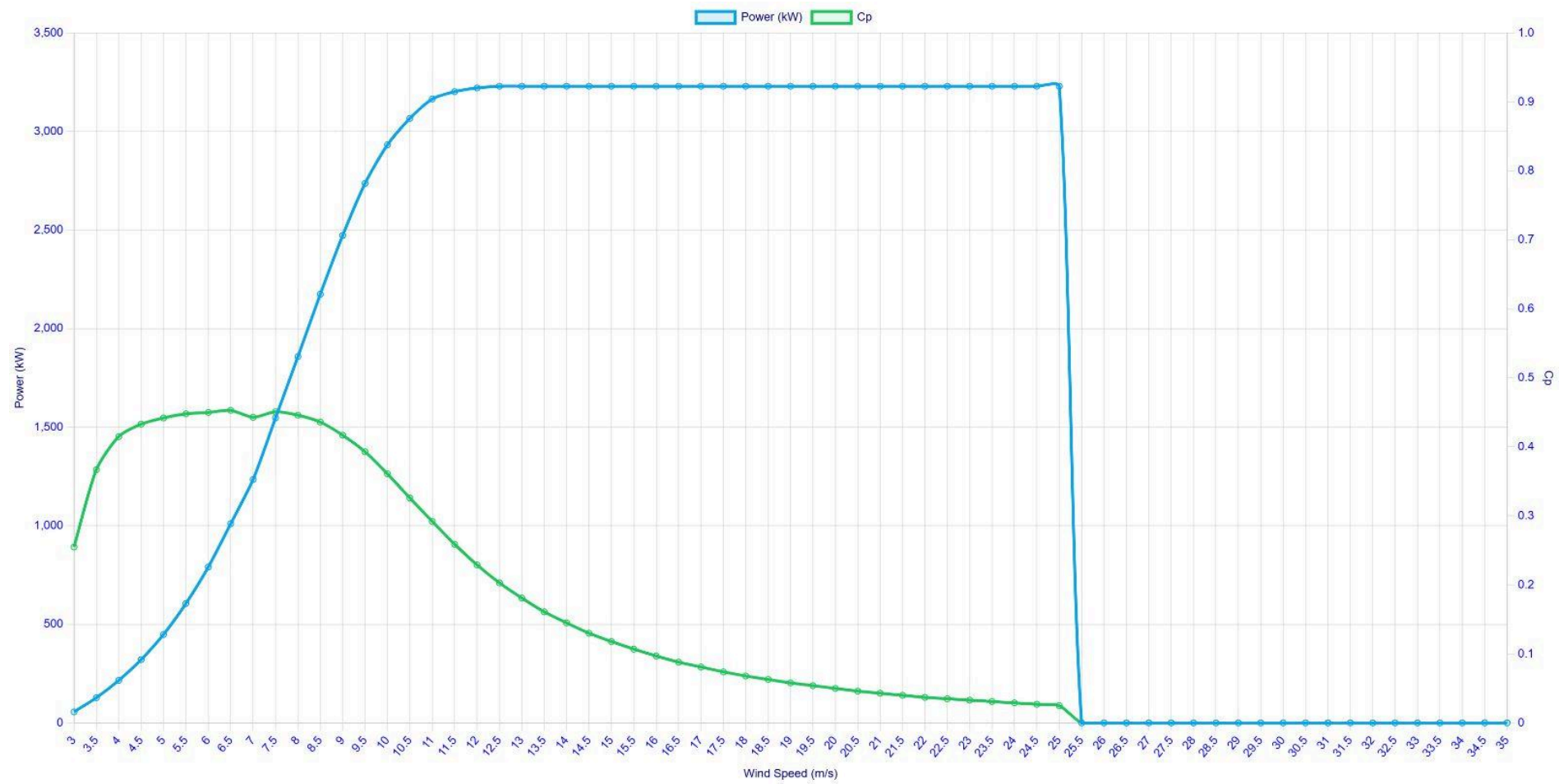
OEM APPENDIX

OEM POWER CURVE GRAPH

OEM POWER CURVE

WEG Model	GE Vernova 3.2-130	Rotor Diameter (m)	130.00	Hub Height (m)	155.0
Rated Power (kW)	3200	Cut-in Speed (m/s)	3.00	Cut-out Speed (m/s)	25.00

Visual table omitted in PDF appendix due to width (66 columns).





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PD Plant Description

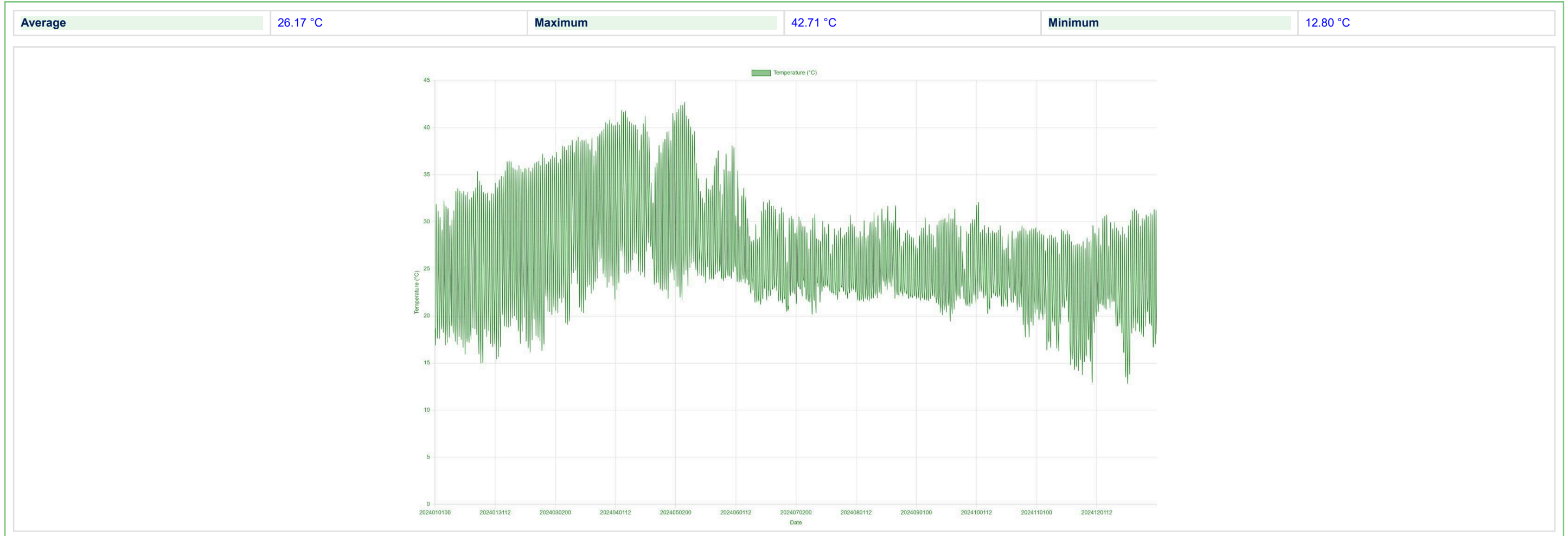
Details	Unit	Data
SOLAR PV PLANT		
Capacity Utilization Factor	%	19.52
Required Solar PV Plant Capacity	KW	140160
Selected Plant AC Capacity	KW	140160
Selected Plant DC Capacity	KW	168192
PV Module Total Quantity	nos	233600
Annual Gross Solar Electricity generation	KWH / MKWH	240365130 / 240.37
Annual Auxiliary Power Consumption	KWH / MKWH	2403651 / 2.40
Annual Net Solar Electricity generation	KWH / MKWH	235581864 / 235.58
WIND ENERGY GENERATOR PLANT		
Site Terrain		Rough/Urban
Site IEC Wind Classification	Medium Wind Site	II
Site IEC Turbulance Classification	Low turbulence	C
Capacity Utilization Factor	%	49.64
Wind Turbine Plant Capacity	KW	140160
No of Wind Turbine Generators	Nos	44
Selected Plant Capacity	KW	140800
Annual Gross Wind Electricity generation	KWH / MKWH	613950618 / 613.95
Annual Auxiliary Power Consumption	KWHH	3069753 / 3.07
Annual Net Wind Electricity generation	KWH / MKWH	604772056 / 604.77
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	806667
Annual Net Power Consumed in BESS	KWH / MKWH	172611178 / 172.61
Annual BESS Auxiliary Power & Other Losses	KWH / MKWH	20713341 / 20.71



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VISUAL APPENDIX

AMBIENT TEMPERATURE GRAPH

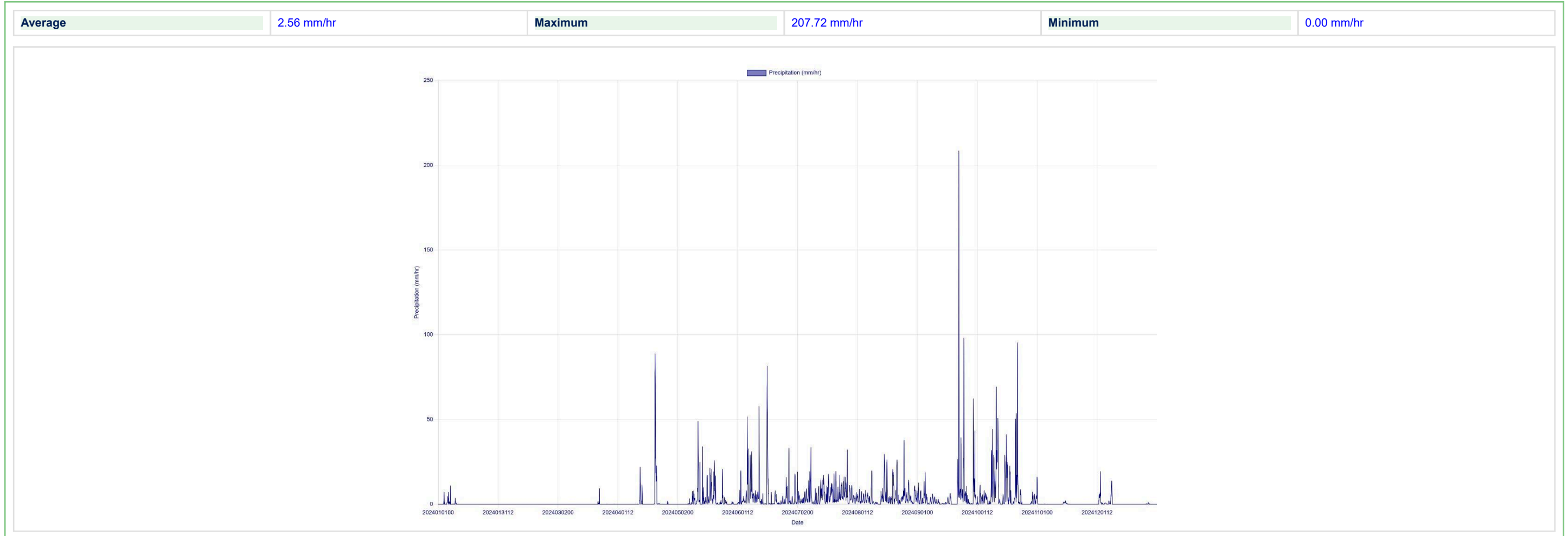




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VISUAL APPENDIX

PRECIPITATION GRAPH

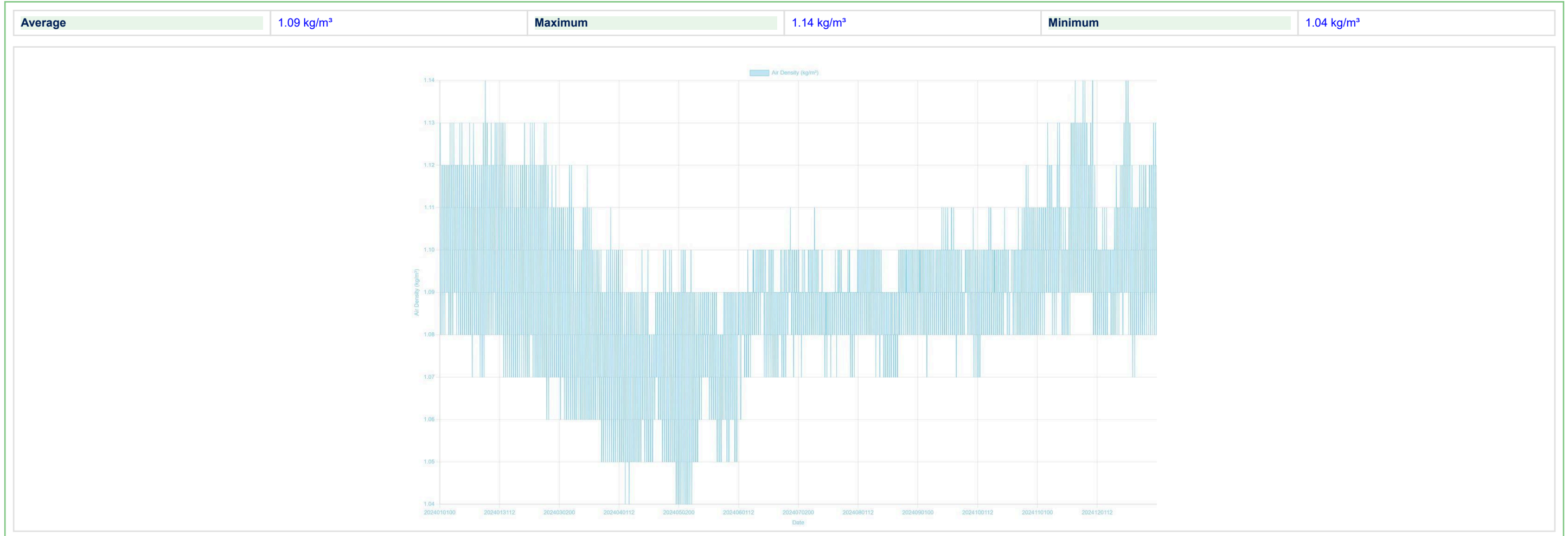




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VISUAL APPENDIX

AIR DENSITY GRAPH

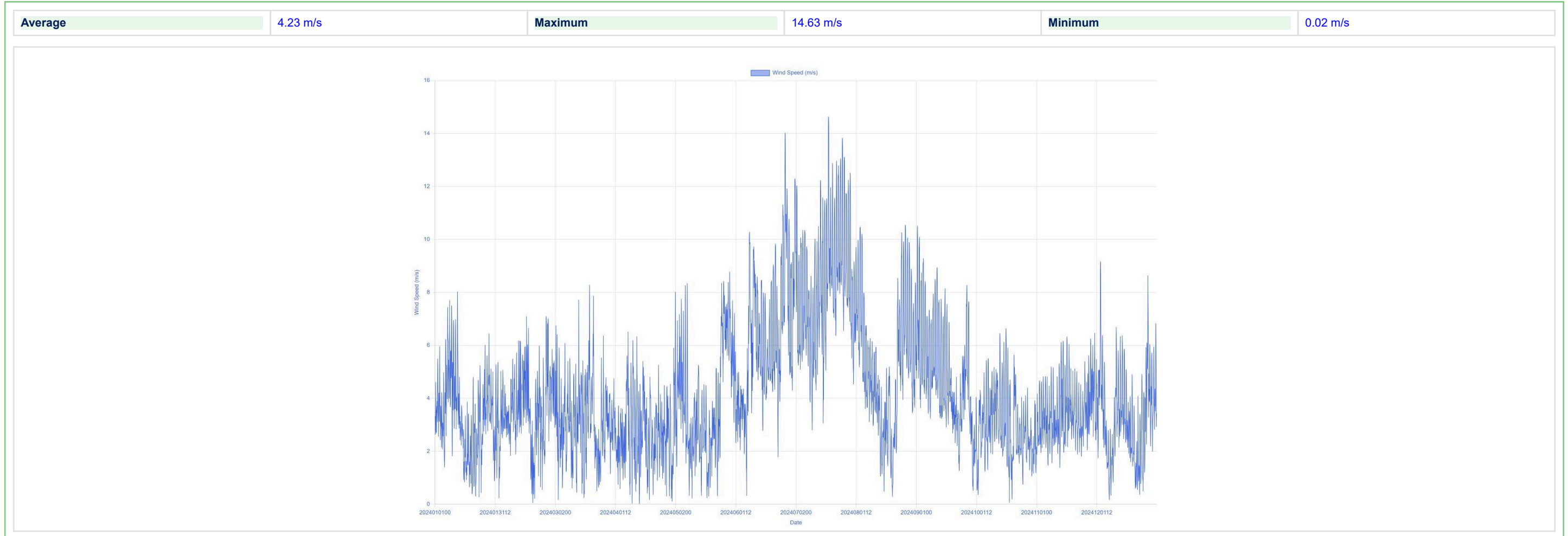




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VISUAL APPENDIX

WIND SPEED 10M GRAPH

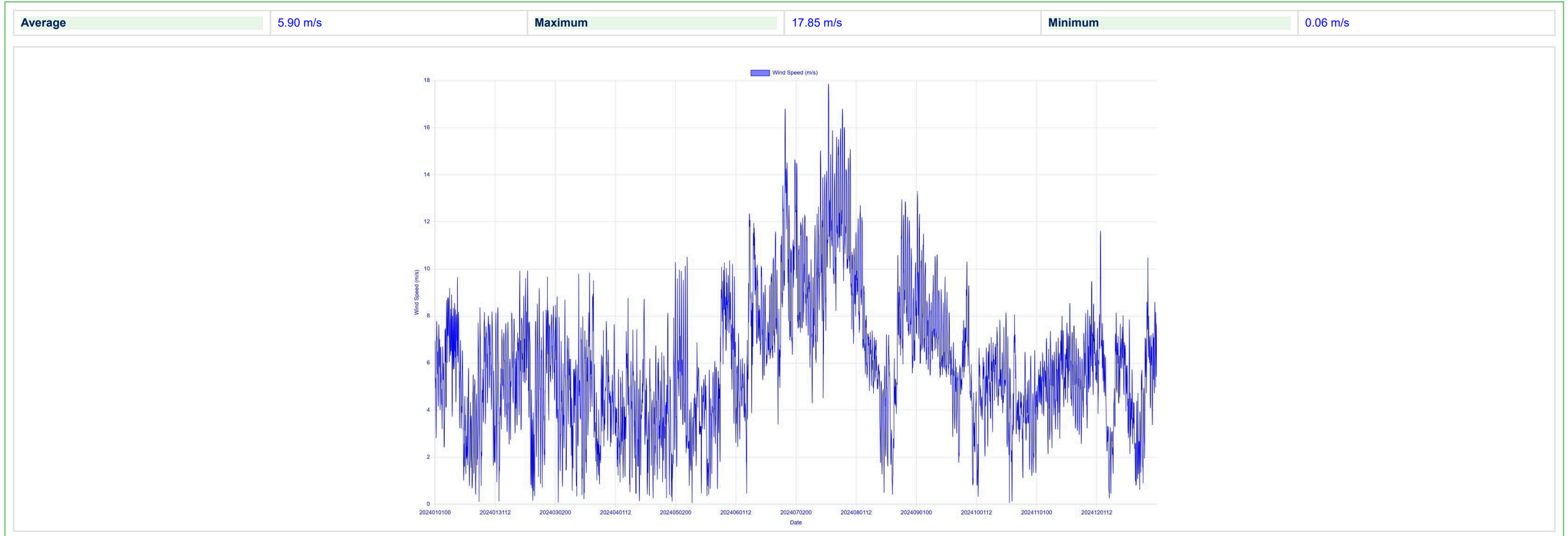




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VISUAL APPENDIX

WIND SPEED 50M GRAPH

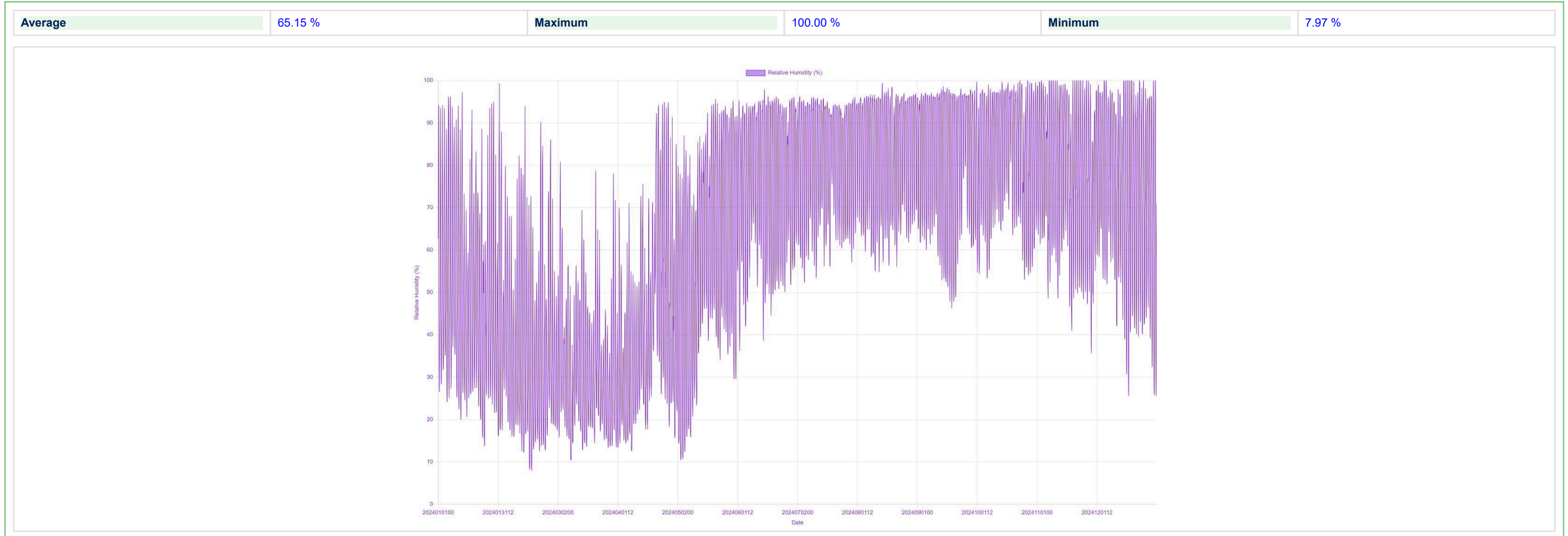




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RELATIVE HUMIDITY GRAPH

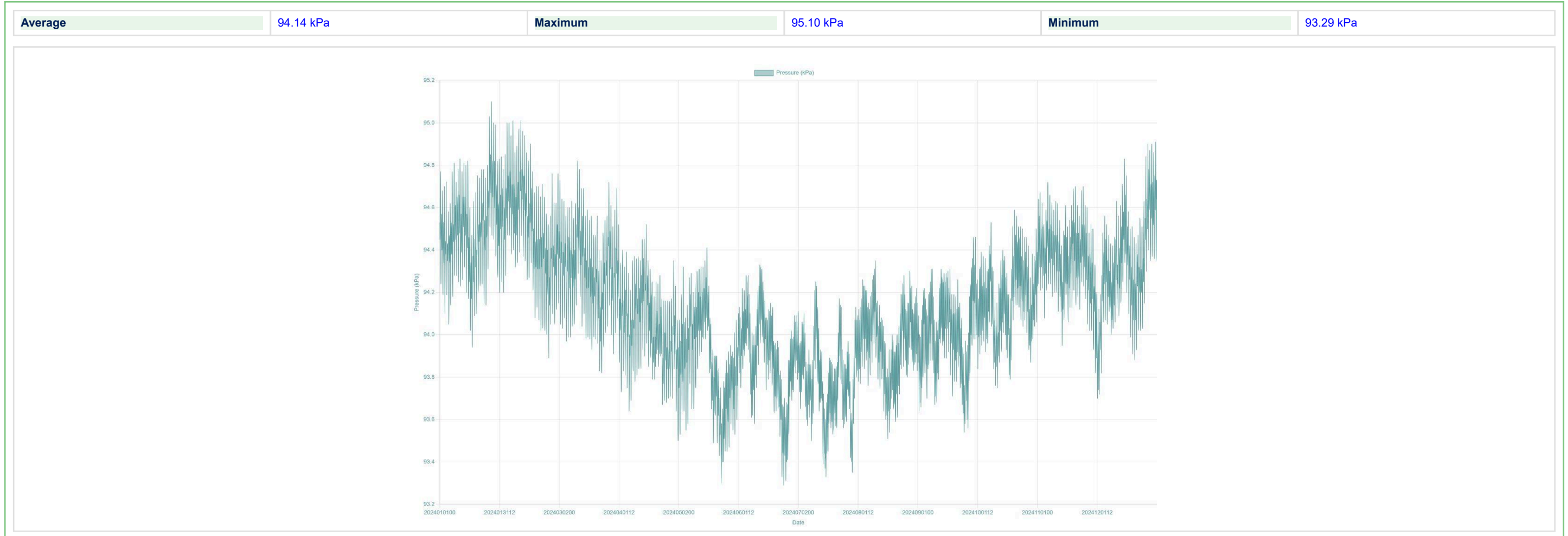




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AMBIENT PRESSURE GRAPH

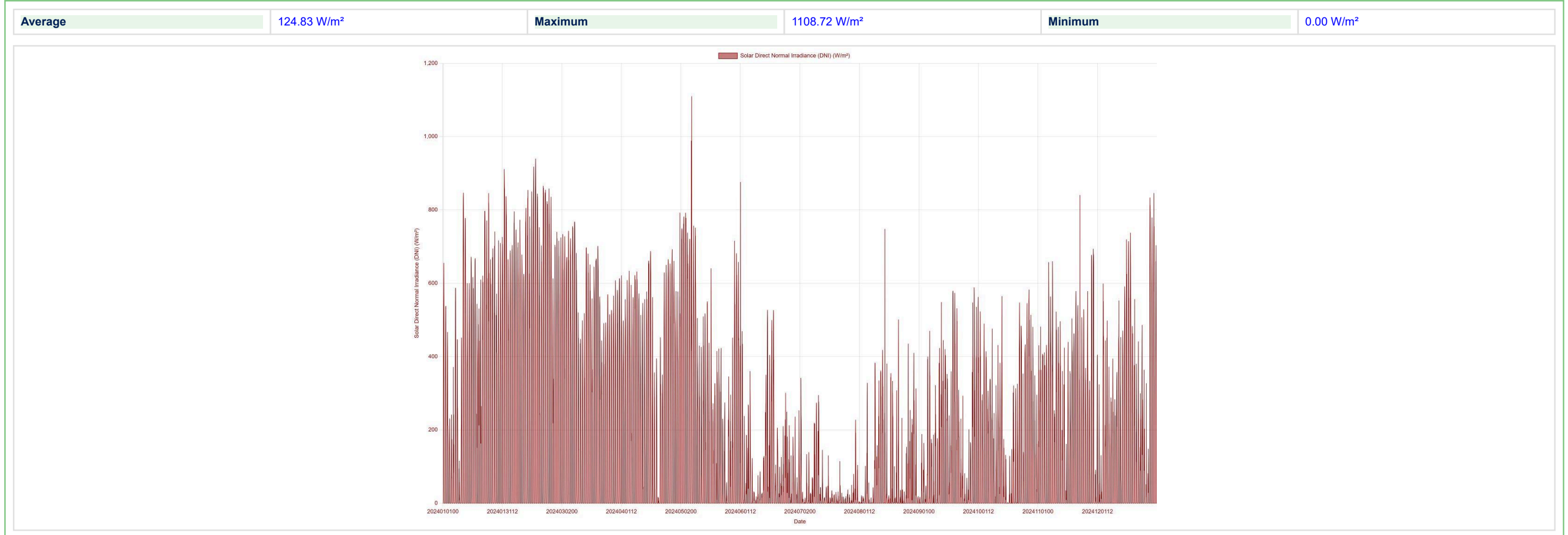




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VISUAL APPENDIX

SOLAR DIRECT NORMAL IRRADIANCE (DNI) GRAPH

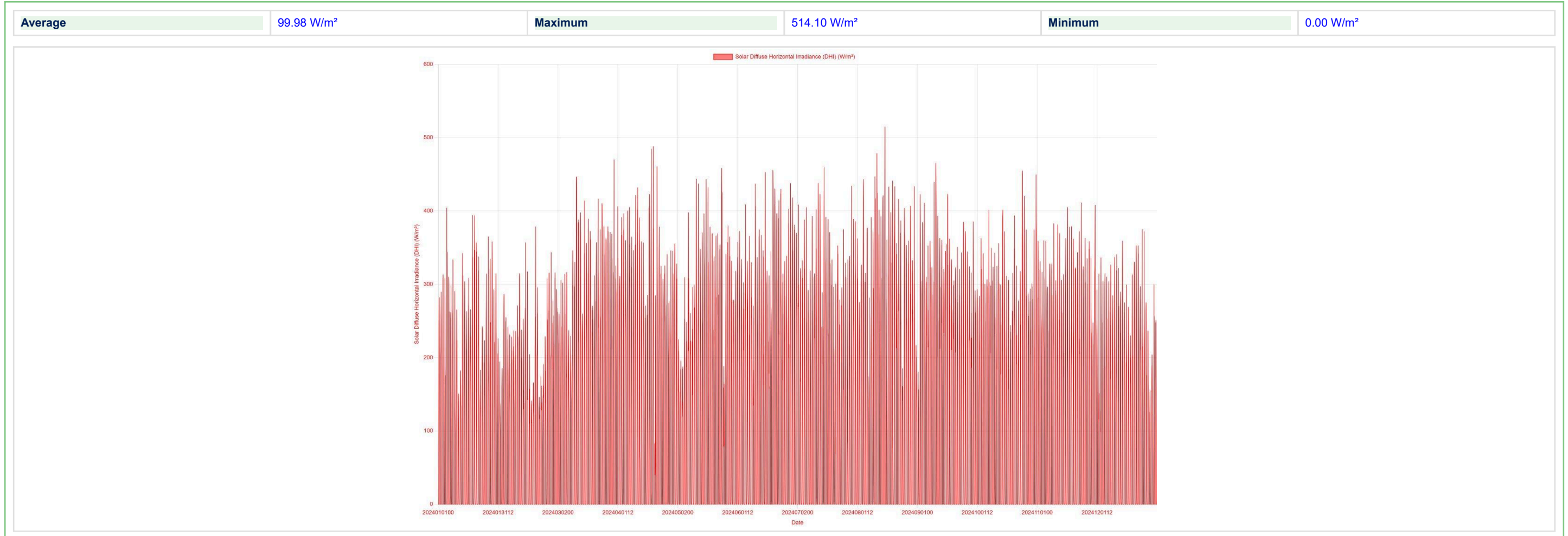




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VISUAL APPENDIX

SOLAR DIFFUSE HORIZONTAL IRRADIANCE (DHI) GRAPH





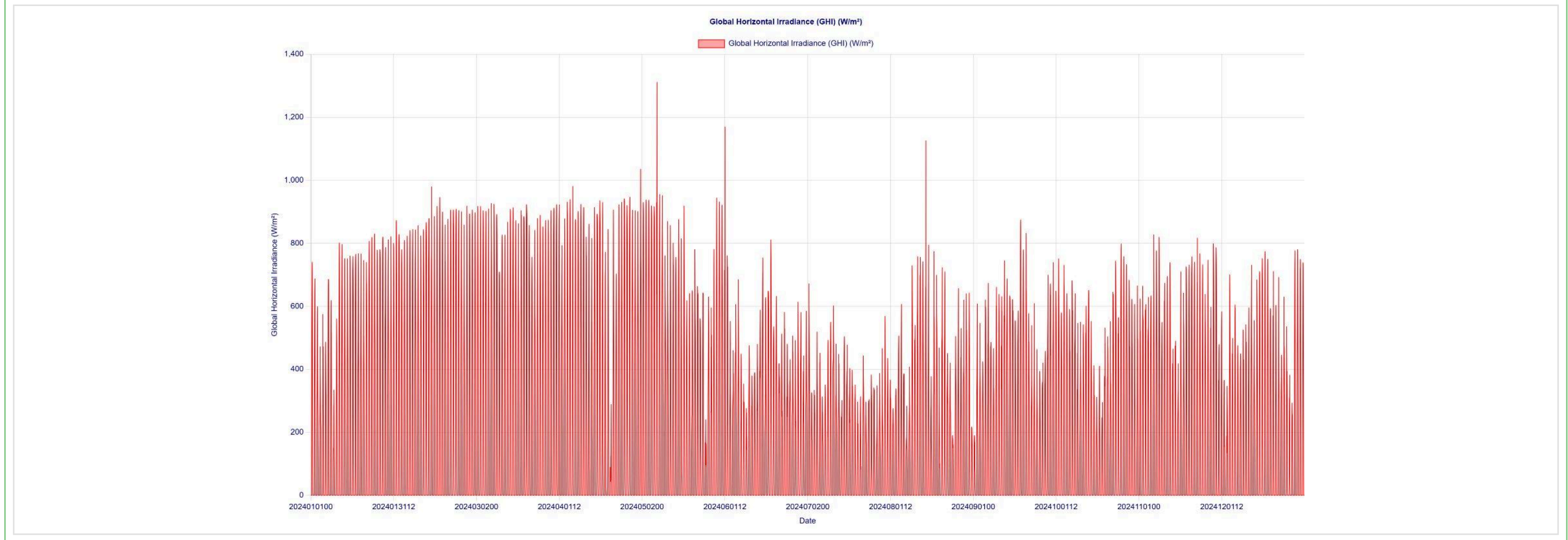
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VISUAL APPENDIX

HOURLY GENERATION DATA

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

GLOBAL HORIZONTAL IRRADIANCE (GHI) GRAPH			
Maximum Global Horizontal Irradiance (GHI) W/m ² :	1309.08	Average Global Horizontal Irradiance (GHI) W/m ² :	187.59
		Minimum Global Horizontal Irradiance (GHI) W/m ² :	0.00



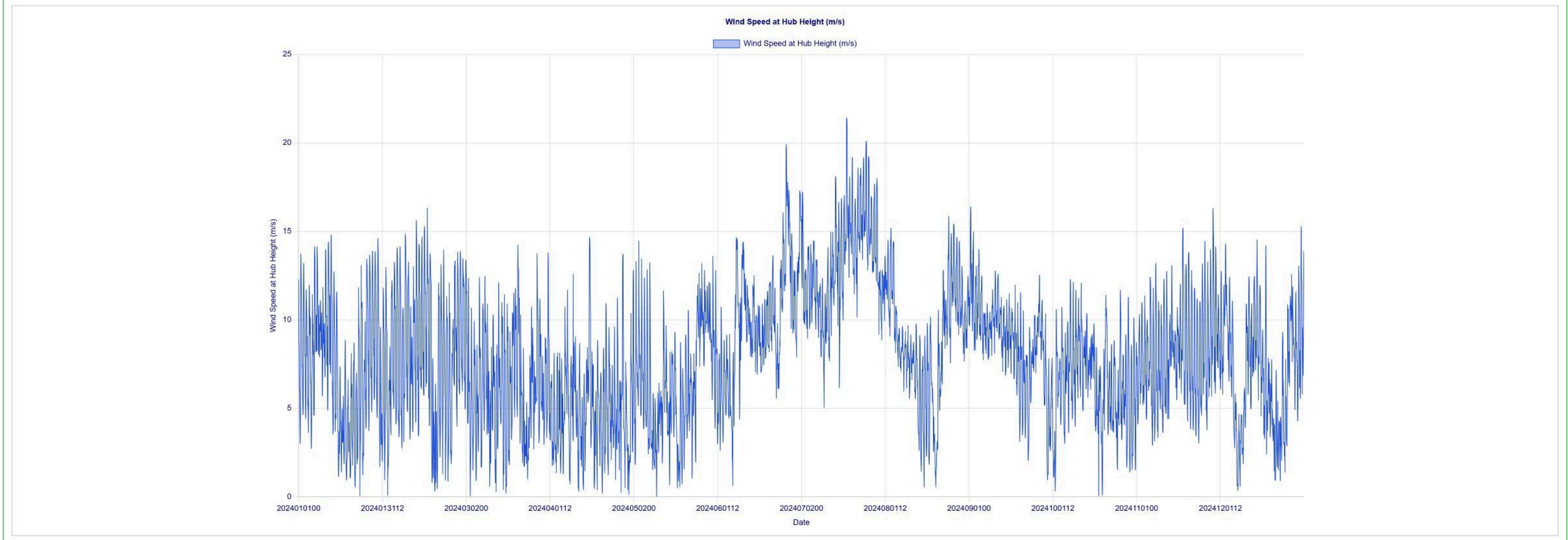


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VISUAL APPENDIX

WIND SPEED AT HUB HEIGHT GRAPH

Average Alpha :	0.223	Site Terrain :	Rough/Urban	Average Coefficient of Performance:	0.327	Turbulence Intensity at 15m/s wind speed:	0.036
Refernce extreme wind speed at hub height m/s:	39.767	50years steady extreme wind speed at hub height m/s:	15.907	1year steady extreme wind speed at hub height m/s:	12.725	50years largest gust magnitude wind speed at hub height m/s:	55.674
IEC Wind Class:	II	IEC Wind Classification:	Medium Wind Site	IEC Turbulance Class:	C	IEC Turbulance Classification:	Low turbulence
Maximum Wind Speed at Hub Height m/s :	21.41	Average Wind Speed at Hub Height m/s :	7.95	Minimum Wind Speed at Hub Height m/s :	0.02		





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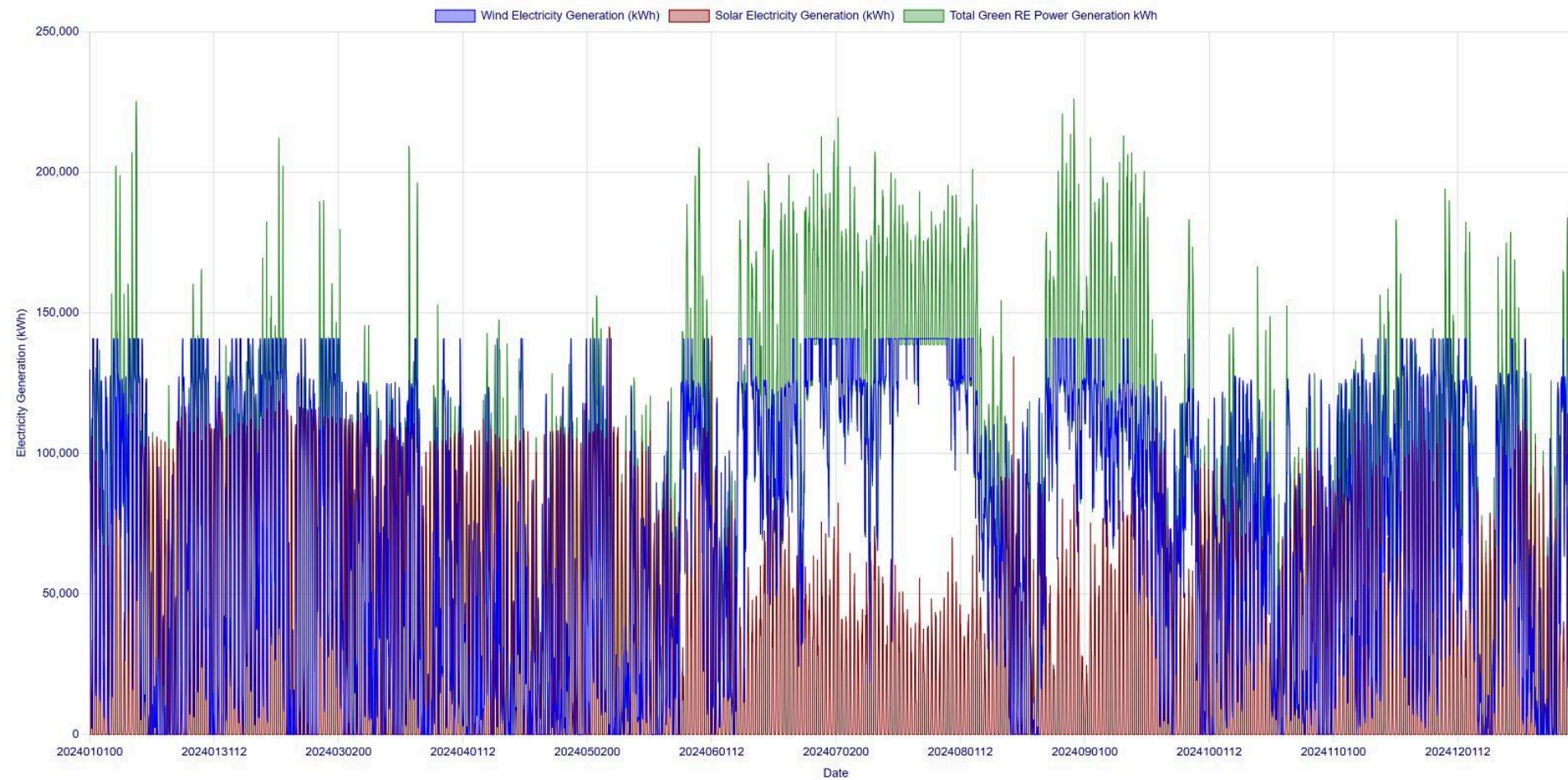
VISUAL APPENDIX

GENERATION SUMMARY

Total Wind Energy Generation kWh:	613950618.45	Wind Energy Capacity Utilization Factor %:	49.64	Net Green Electricity Generation kWh:	840299185.80	Direct Power Export kWh:	600316149.98	Battery Discharging Power kWh:	172611177.88	BESS Capacity Utilization Factor %:	19.65	Total Green RE Power for Export kWh:	803476753.63
Total Solar Energy Generation kWh:	240365129.67	Solar Energy Capacity Utilization Factor %:	19.52	BESS Power kWh:	239983036.78	Battery Charging Power kWh:	172653260.89	Balance BESS Power kWh:	67332301.30	Solar Wind Hybrid Capacity Utilization Factor without BESS %:	34.17	Solar Wind Hybrid Net Capacity Utilization Factor with BESS %:	45.74

GREEN RE POWER GENERATION GRAPH

Maximum Net Green RE Power Generation kWh :	225682.93	Average Net Green RE Power Generation kWh :	95662.48	Minimum Net Green RE Power Generation kWh :	0.00
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BESS POWER GRAPH

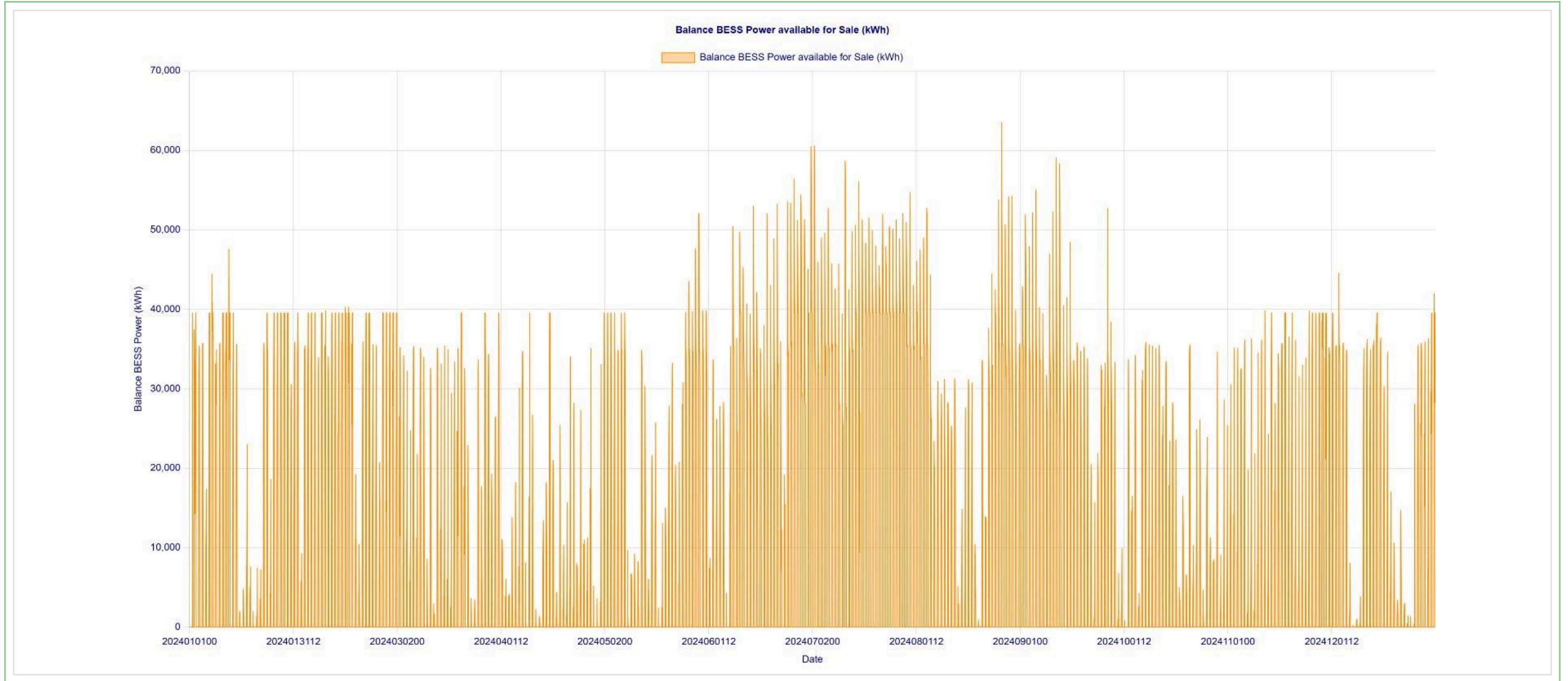




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BALANCE BESS POWER AVAILABLE FOR SALE GRAPH



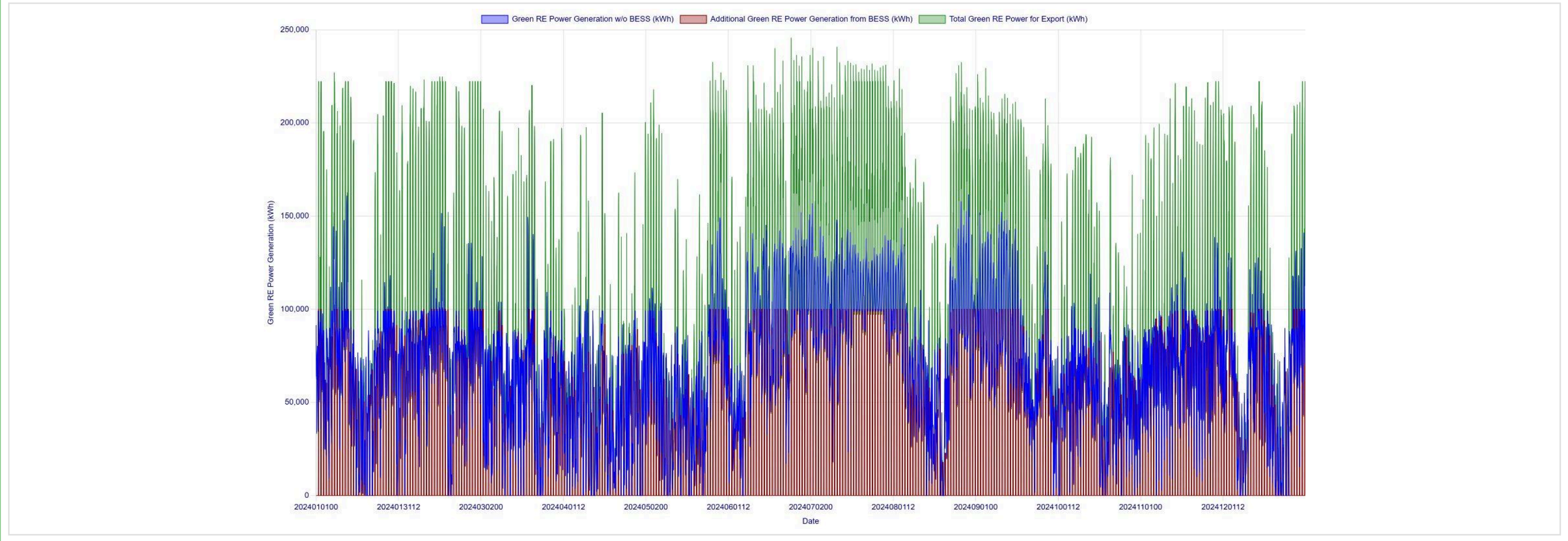


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GREEN RE POWER FOR EXPORT GRAPH

Maximum Green RE Power Generation w/o BESS kWh :	161198.70	Average Green RE Power Generation w/o BESS kWh :	68342.00	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 :	19650.64	Minimum Green RE Power Generation from BESS kWh :	0.00
Maximum Total Green RE Power for Export kWh :	245226.17	Average Total Green RE Power for Export kWh :	91470.49	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	725643.83
LAND AREA UNDER ROWS	SQ.M	1814109.57
GROSS LAND AREA INCL INFRASTRUCTURE	SQ.M	2267636.96
TOTAL AREA FOR SOLAR POWER GENERATION	SQ.M / HECTARES / ACRES	2267636.96 / 226.76 / 560.34
Land Requirement for Wind Power Generation		
WEG LAYOUT / SPACING AREA	SQ.M	29744000
ELECTRICAL SUBSTATION & SWITCHYARD	SQ.M	14080
SCADA / CONTROL BUILDING	SQ.M	7040
INTERNAL ACCESS ROADS	SQ.M	63360
CRANE PADS & LAYDOWN AREA	SQ.M	28160
CONSTRUCTION AREA	SQ.M	21120
TOTAL AREA FOR WIND POWER GENERATION	SQ.M / HECTARES / ACRES	29877760 / 2987.78 / 7382.95
Land Requirement for BESS Plant		
BATTERY BLOCK AREA	SQ.M	100833.38
INVERTER SKIDS & TRANSFORMERS AREA	SQ.M	8066.67
POWER CONVERSION SYSTEM AREA	SQ.M	12100
AREA FOR ROADS AND OTHER INFRASTRUCTURE	SQ.M	48400.02
TOTAL AREA FOR BESS PLANT	SQ.M / HECTARES / ACRES	169400.07 / 16.94 / 41.86
Total Land Requirement for the Project		
TOTAL LAND REQUIREMENT FOR THE PROJECT	SQ.M / HECTARES / ACRES	32314797.03 / 3231.48 / 7985.15
TOTAL PROJECT LAND COST		
SOLAR POWER PLANT LAND COST	Million INR	112.069
WIND POWER PLANT LAND COST	Million INR	1476.5898
BESS PLANT LAND COST	Million INR	8.3719
TOTAL PROJECT LAND COST	Million INR	1597.0306



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CX Capex Estimate

Details	Unit	Data
SOLAR PV PLANT CAPEX ESTIMATION BREAK-UP		
PV Module Rated Power	Wp	720
PV Module Cost	INR/Wp	14
PV Module Total Quantity	nos	233600
Cost of Solar PV Modules	Million INR	2354.688
Cost of Mounting Structures/Trackers	Million INR	214.0625
Cost of Inverters	Million INR	256.8751
Cost of DC+AC BOS & Electrical System	Million INR	299.6876
Cost of Civil & Site Works	Million INR	171.25
Cost of Grid Interconnection & Substation	Million INR	256.8751
Cost of Construction & Installation	Million INR	214.0625
Cost of Project Management	Million INR	128.4375
Cost of Engineering, Permitting & Studies	Million INR	85.625
Cost of EPC Management, HSE & QA/QC	Million INR	85.625
Cost of Testing, Commissioning & COD activities	Million INR	42.8125
Cost of Insurance, Contingency & Spares	Million INR	171.25
SOLAR PV PLANT CAPEX	Million INR	4281.2509
SOLAR PV PLANT CAPEX PER KW	INR/kW	30545
SOLAR PV PLANT CAPEX PER KW IN USD	USD/kW	320.73
WIND ENERGY GENERATOR PLANT CAPEX ESTIMATION BREAK-UP		
WEG Rated Power		3200
No of Wind Turbine Generators	Nos	44
Cost of Wind Energy Generator per kW	INR/kW	40000
Cost of Wind Energy Generator	Million INR	5632
Cost of WEG Electrical System	Million INR	750.9333
Cost of Civil & Site Works	Million INR	938.6667
Cost of Grid Interconnection & Substation	Million INR	563.2
Cost of Construction & Installation	Million INR	469.3333
Cost of Project Management	Million INR	187.7333
Cost of Engineering, Permitting & Studies	Million INR	187.7333



Details	Unit	Data
Cost of EPC Management, HSE & QA/QC	Million INR	93.8667
Cost of Testing, Commissioning & COD activities	Million INR	93.8667
Cost of Insurance, Contingency & Spares	Million INR	469.3333
WEG PLANT CAPEX	Million INR	9386.6667
WEG PLANT CAPEX PER KW	INR/kW	66667
WEG PLANT CAPEX PER KW IN USD	USD/kW	700
BESS PLANT CAPEX ESTIMATION BREAK-UP		
BESS Load	KW	100000
BESS Plant Capacity	KWH	806667
Cost of Cost of Battery System per kWH	INR/kWH	3500
Cost of Battery system (containers + cells + racks)	Million INR	2823.3345
Cost of PCS/Electrical System	Million INR	1254.8153
Cost of Balance of Plant	Million INR	941.1115
Cost of Civil & Site Works	Million INR	188.2223
Cost of Construction & Installation	Million INR	250.9631
Cost of Project Management	Million INR	188.2223
Cost of Engineering, Permitting & Studies	Million INR	125.4815
Cost of EPC Management, HSE & QA/QC	Million INR	125.4815
Cost of Testing, Commissioning & COD activities	Million INR	62.7408
Cost of Insurance, Contingency & Spares	Million INR	313.7038
BESS PLANT CAPEX	Million INR	6274.0767
BESS PLANT CAPEX PER KWH	INR/kWH	7778
BESS PLANT CAPEX PER KW IN USD	USD/kWH	81.67
TOTAL INVESTMENT (CAPEX)		
Solar PV Plant	Million INR / %	4281.19 / 19.158
Wind Energy Generator Plant	Million INR / %	9386.71 / 42.005
BESS PLANT	Million INR / %	6274.26 / 28.077
PV OF Battery Replacement Cost	Million INR / %	807.28 / 3.613
PROJECT LAND COST	Million INR / %	1597.03 / 7.147
Total Investment (CAPEX)	Million INR / %	22346.47 / 100
Total Investment (CAPEX) IN USD	Million USD	234.64
PROJECT FINANCIALS		
Gross Project Cost excluding IDC	Million INR	22346.47



Details	Unit	Data
Capital Subsidy	Million INR	0.00
Net Project Cost excluding IDC	Million INR	22346.47
Equity	%	30
Debt	%	70
Equity Capital Cost	Million INR	6884.66
Borrowed Capital Cost	Million INR	16064.22
Project Schedule for the Plant	Months	9
Interest During Construction(IDC)	Million INR	602.41
Total Borrowing	Million INR	16666.63
Net Project Cost including IDC	Million INR	22948.88
Total Project Cost	Million INR	22948.88
Total Project Cost IN USD	Million USD	240.96
Installed Cost of Green Power Generation Plant	INR/kW	114744
Installed Cost of Green Power Generation Plant	USD/kW	1204.81



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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	0.03
Net Emission Reduction per kWh of RE Power	kg CO ₂ e/kg kWh	0.87
Annual Total Emission Reduction from the Project	kg CO ₂ e/year	742983635.36
Annual Total Emission Reduction from the Project	tons of CO ₂ e/year	742983.64
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	707603462.25
GREENHOUSE GAS EQUIVALENCIES		
Petrol consumption for passenger cars for one year	No of Petrol Cars	173115
Electricity for passenger electric cars for one year	No of Electric Cars	656055
Equivalent to Coal burning	kgs	374463752
Equivalent to Oil consumption	barrels	1708862
Equivalent to Petrol consumption	litres	317996996
Equivalent to Diesel consumption	litres	276389912
Equivalent to carbon sequestered by tree seedlings grown for 10 years	No of trees	12259230



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KR Key Results

Details	Unit	Data
SITE AMBIENT,SOLAR AND WIND DATA		
PROJECT NAME		HYBRID
SITE LOCATION		Rona taluku, Gadag, Karnataka, India
SITE LATITUDE	(+ = North & - = South hemisphere)	15.560371
SITE LONGITUDE	(+ = East & - = West of Greenwich meridian)	75.694771
SITE ELEVATION	meters above Mean Sea Level	606
GRID ELEVATION	meters above Mean Sea Level	608.06
MEAN AMBIENT TEMPERATURE	°C	26.17
MAXIMUM AMBIENT TEMPERATURE	°C	42.71
MINIMUM AMBIENT TEMPERATURE	°C	12.8
MEAN PRECIPITATION	mm/hr	2.56
MAXIMUM PRECIPITATION	mm/hr	207.72
MINIMUM PRECIPITATION	mm/hr	0
MEAN AIR DENSITY	kg/m³	1.089
MAXIMUM AIR DENSITY	kg/m³	1.14
MINIMUM AIR DENSITY	kg/m³	1.04
MEAN WIND SPEED @ 10M	m/s	4.23
MAXIMUM WIND SPEED @ 10M	m/s	14.63
MINIMUM WIND SPEED @ 10M	m/s	0.02
MEAN WIND SPEED @ 50M	m/s	5.9
MAXIMUM WIND SPEED @ 50M	m/s	17.85
MINIMUM WIND SPEED @ 50M	m/s	0.06
MEAN RELATIVE HUMIDITY	%	65.15
MAXIMUM RELATIVE HUMIDITY	%	100
MINIMUM RELATIVE HUMIDITY	%	7.97
MEAN AMBIENT PRESSURE	kPa	94.14
MAXIMUM AMBIENT PRESSURE	kPa	95.1
MINIMUM AMBIENT PRESSURE	kPa	93.29
MEAN DIRECT NORMAL IRRADIANCE (DNI)	W/m²	124.83
MAXIMUM DIRECT NORMAL IRRADIANCE (DNI)	W/m²	1108.72
MINIMUM DIRECT NORMAL IRRADIANCE (DNI)	W/m²	0



Details	Unit	Data
MEAN DIRECT HORIZONTAL IRRADIANCE (DHI)	W/m ²	99.98
MAXIMUM HORIZONTAL IRRADIANCE (DHI)	W/m ²	514.1
MINIMUM HORIZONTAL IRRADIANCE (DHI)	W/m ²	0
DATA ANALYSIS RESULTS		
TIME ZONE		India Standard Time
MAXIMUM GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	1309.08
AVERAGE GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	187.59
MINIMUM GLOBAL HORIZONTAL IRRADIANCE (GHI)	W/m ²	0
AVERAGE ALPHA		0.223
SITE TERRAIN		Rough/Urban
AVERAGE COEFFICIENT OF PERFORMANCE		0.327
TURBULANCE INTENSITY @ 15m/s WIND SPEED		0.036
REFEREMCE EXTREME WIND SPEED @ HUB HEIGHT	m/s	39.77
50 YEARS STEADY EXTREME WIND SPEED @ HUB HEIGHT	m/s	15.91
1 YEAR STEADY EXTREME WIND SPEED @ HUB HEIGHT	m/s	12.73
50 YEARS LARGEST GUST MAGNITUDE WIND SPEED @ HUB HEIGHT	m/s	55.67
IEC WIND CLASS		II
IEC WIND SITE CLASSIFICATION		Medium Wind Site
IEC TURBULANCE CLASS		C
IEC TURBULANCE CLASSIFICATION		Low turbulence
MAXIMUM WIND SPEED @ HUB HEIGHT	m/s	21.41
AVERAGE WIND SPEED @ HUB HEIGHT	m/s	7.95
MINIMUM WIND SPEED @ HUB HEIGHT	m/s	0.02
System Loss	%	0.882
DC/AC Ratio		1.2
MEAN PV Module Cell Temperature	°C	33.2
MAXIMUM PV Module Cell Temperature	°C	82.37
MINIMUM PV Module Cell Temperature	°C	12.8
PLANT CAPACITIES AND OUTPUT GENERATION		
SOLAR PV PLANT CAPACITY	KW	140160
WIND TURBINE PLANT CAPACITY	KW	140800
BESS PLANT CAPACITY	KWH	806667
ANNUAL GREEN RE POWER GENERATION		



Details	Unit	Data
ANNUAL GROSS GREEN RE POWER GENERATION	KWH / MKWH	854315748 / 854.32
ANNUAL NET GREEN RE POWER GENERATION	KWH / MKWH	840353920 / 840.35
ANNUAL GROSS GREEN RE POWER EXPORT	KWH / MKWH	819546289 / 819.55
GRID TRANSMISSION LOSSES	KWH / MKWH	16069535 / 16.07
ANNUAL NET GREEN RE POWER EXPORT	KWH / MKWH	803476754 / 803.48
ANNUAL WATER REQUIRED FOR SOLAR PLANT	CUM	38544
CAPACIATY UTILIZATION FACTORS (CUF)		
Solar Energy Generator Capacity Utilization Factor	%	19.52
Wind Energy Generator Capacity Utilization Factor	%	49.64
Solar Wind Hybrid Capacity Utilization Factor without BESS	%	34.17
BESS Capacity Utilization Factor	%	19.65
Solar Wind Hybrid Net Capacity Utilization Factor with BESS	%	45.74
ANNUAL AUXILIARY POWER CONSUMPTION & OTHER LOSSES		
Annual Auxiliary Power Consumption - Solar	KWH / MKWH / %	2403651 / 2.40 / 4.74
Annual Auxiliary Power Consumption - Wind	KWH / MKWH / %	3069753 / 3.07 / 6.05
Annual BESS Auxiliary Power & Other Losses	KWH / MKWH / %	20713341 / 20.71 / 40.82
Annual RE Transmission Losses	KWH / MKWH / %	8488423 / 8.49 / 16.73
Annual Grid Transmission Losses	KWH / MKWH / %	16069535 / 16.07 / 31.67
Total Plant Auxiliary Power & Other Losses	KWH / MKWH / %	50744703 / 50.74 / 100
CARBON FOOTPRINT - GHG EMISSION REDUCTION		
Annual Total Emission Reduction from the Project	tons of CO ₂ e/year	742983.64
Annual additional revenue from Carbon Credit	INR	707603462.25
PROJECT INVESTMENT		
TOTAL PROJECT COST	Million INR	22948.88
TOTAL PROJECT COST IN USD	Million USD	240.96
PROJECT COST PER KW	INR/KW	114744
LEVELAISED COST OF GENERATION		
GREEN RE POWER	INR/KWH	3.41
GREEN RE POWER IN USD	USD/KWH	0.04
SALE PRICE WITHOUT ESCALATION		
GREEN RE POWER	INR/KWH	3.41
PROJECT ECONOMICS		
AVERAGE DSCR		1.46



Details	Unit	Data
MINIMUM DSCR		1.06
PROJECT IRR	%	12.99
PROJECT NPV	Million INR	7649.84
PROJECT PAY BACK PERIOD	YEARS	7.70
EQUITY IRR	%	30.48
EQUITY NPV	Million INR	12995.78
EQUITY PAY BACK PERIOD	YEARS	3.28



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
SOLAR PV PLANT POWER GENERATION																					
CAPACITY	MW	140.160	138.76	138.066	137.376	136.689	136.006	135.326	134.649	133.976	133.306	132.639	131.976	131.316	130.659	130.006	129.356	128.709	128.065	127.425	126.788
OPERATING HOURS	HR	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715	1715
GROSS GENERATION	Million KWHR	240.37	237.97	236.78	235.60	234.42	233.25	232.08	230.92	229.77	228.62	227.48	226.34	225.21	224.08	222.96	221.85	220.74	219.64	218.54	217.45
AUXILIARY CONSUMPTION	Million KWHR	2.404	2.380	2.368	2.356	2.344	2.333	2.321	2.309	2.298	2.286	2.275	2.263	2.252	2.241	2.230	2.219	2.207	2.196	2.185	2.175
RE TRANSMISSION LOSS	Million KWHR	2.380	2.356	2.344	2.332	2.321	2.309	2.298	2.286	2.275	2.263	2.252	2.241	2.230	2.218	2.207	2.196	2.185	2.174	2.164	2.153
NET GENERATION	Million KWHR	235.586	233.234	232.068	230.912	229.755	228.608	227.461	226.325	225.197	224.071	222.953	221.836	220.728	219.621	218.523	217.435	216.348	215.270	214.191	213.122
WIND TURBINE POWER GENERATION																					
CAPACITY	MW	140.800	139.814	138.835	137.863	136.898	135.940	134.988	134.043	133.105	132.173	131.248	130.329	129.417	128.511	127.611	126.718	125.831	124.950	124.075	123.206
OPERATING HOURS	HR	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360	4360
GROSS GENERATION	Million KWHR	613.888	609.589	605.321	601.083	596.875	592.698	588.548	584.427	580.338	576.274	572.241	568.234	564.258	560.308	556.384	552.490	548.623	544.782	540.967	537.178
AUXILIARY CONSUMPTION	Million KWHR	3.069	3.048	3.027	3.005	2.984	2.963	2.943	2.922	2.902	2.881	2.861	2.841	2.821	2.802	2.782	2.762	2.743	2.724	2.705	2.686
RE TRANSMISSION LOSS	Million KWHR	6.108	6.065	6.023	5.981	5.939	5.897	5.856	5.815	5.774	5.734	5.694	5.654	5.614	5.575	5.536	5.497	5.459	5.421	5.383	5.345
NET GENERATION	Million KWHR	604.711	600.476	596.271	592.097	587.952	583.838	579.749	575.690	571.662	567.659	563.686	559.739	555.823	551.931	548.066	544.231	540.421	536.637	532.879	529.147
TOTAL NET GREEN RE POWER GENERATION																					
TOTAL NET GREEN RE POWER GENERATION	Million KWHR	840.297	833.710	828.339	823.009	817.707	812.446	807.210	802.015	796.859	791.730	786.639	781.575	776.551	771.552	766.589	761.666	756.769	751.907	747.070	742.269
BATTERY ENERGY STORAGE SYSTEM (BESS) PLANT																					
CAPACITY	MWH	806.667	798.600	790.534	782.467	774.400	766.334	758.267	750.200	742.134	734.067	726.000	806.667	798.600	790.534	782.467	774.400	766.334	758.267	750.200	742.134
OPERATING LOAD	MW	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
OPERATING HOURS	HR	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726	1726
BESS OUTPUT	Million KWHR	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600	172.600
AUXILIARY POWER & OTHER LOSSES	Million KWHR	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712
AUXILIARY POWER & OTHER LOSSES																					
SOLAR AUX POWER	Million KWHR	2.404	2.380	2.368	2.356	2.344	2.333	2.321	2.309	2.298	2.286	2.275	2.263	2.252	2.241	2.230	2.219	2.207	2.196	2.185	2.175
WIND AUX POWER	Million KWHR	3.069	3.048	3.027	3.005	2.984	2.963	2.943	2.922	2.902	2.881	2.861	2.841	2.821	2.802	2.782	2.762	2.743	2.724	2.705	2.686
BESS AUXILIARY POWER & OTHER LOSSES	Million KWHR	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712	20.712
RE TRANSMISSION LOSSES	Million KWHR	8.488	8.421	8.367	8.313	8.260	8.206	8.154	8.101	8.049	7.997	7.946	7.895	7.844	7.793	7.743	7.693	7.644	7.595	7.547	7.498



PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20
GRID TRANSMISSION LOSSES	Million KWHR	16.07	15.94	15.84	15.73	15.63	15.52	15.42	15.32	15.22	15.12	15.02	14.92	14.82	14.72	14.63	14.53	14.43	14.34	14.24	14.15
TOTAL AUXILIARY POWER & OTHER LOSSES	Million KWHR	50.743	50.501	50.314	50.116	49.930	49.734	49.550	49.364	49.181	48.996	48.814	48.631	48.449	48.268	48.097	47.916	47.736	47.567	47.389	47.221
POWER BALANCE																					
TOTAL GROSS GREEN RE POWER GENERATION	Million KWHR	854.258	847.559	842.101	836.683	831.295	825.948	820.628	815.347	810.108	804.894	799.721	794.574	789.468	784.388	779.344	774.340	769.363	764.422	759.507	754.628
TOTAL AUXILIARY POWER & OTHER LOSSES	Million KWHR	50.743	50.501	50.314	50.116	49.930	49.734	49.550	49.364	49.181	48.996	48.814	48.631	48.449	48.268	48.097	47.916	47.736	47.567	47.389	47.221
TOTAL NET GREEN RE POWER FOR EXPORT	Million KWHR	803.515	797.058	791.787	786.567	781.365	776.214	771.078	765.983	760.927	755.898	750.907	745.943	741.019	736.120	731.247	726.424	721.627	716.855	712.118	707.407



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
NET FIXED ASSETS																					
GROSS FIXED ASSETS OPENING	Million INR	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16
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
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	1882.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GROSS FIXED ASSETS CLOSSING	Million INR	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	22948.88	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16	24831.16
DEPRECIATION:INITIAL	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70
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
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	188.23	209.14	235.28	268.90	313.71	376.46	470.57	627.43	941.14
TOTAL DEPRECIATION	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1220.93	1241.84	1267.98	1301.60	1346.41	1409.16	1503.27	1660.13	1973.84
CUMULATIVE DEPRECIATION	Million INR	1032.70	2065.40	3098.10	4130.80	5163.50	6196.20	7228.90	8261.60	9294.30	10327.00	11359.70	12580.63	13822.47	15090.45	16392.05	17738.46	19147.62	20650.89	22311.02	24284.86
NET FIXED ASSETS	Million INR	21916.18	20883.48	19850.78	18818.08	17785.38	16752.68	15719.98	14687.28	13654.58	12621.88	13471.46	12250.53	11008.69	9740.71	8439.11	7092.70	5683.54	4180.27	2520.14	546.30
WORKING CAPITAL																					
TOTAL REVENUE	Million INR	3318.99	3378.24	3441.51	3480.53	3503.50	3557.38	3602.96	3655.74	3692.82	3744.62	3780.91	3831.74	3889.53	3954.03	4017.83	4088.25	4165.16	4241.17	4323.46	4426.06
RECEIVABLES	Million INR	276.58	281.52	286.79	290.04	291.96	296.45	300.25	304.65	307.74	312.05	315.08	319.31	324.13	329.50	334.82	340.69	347.10	353.43	360.29	368.84
SPARES	Million INR	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49
O&M TIED UP	Million INR	31.17	32.67	34.24	35.89	37.62	39.44	41.35	43.36	45.47	47.69	50.01	52.46	55.03	57.74	60.58	63.56	66.70	70.01	73.48	77.13
WORKING CAPITAL REQUIREMENT	Million INR	537.24	543.68	550.52	555.42	559.07	565.38	571.09	577.50	582.70	589.23	594.58	601.26	608.65	616.73	624.89	633.74	643.29	652.93	663.26	675.46
WORKING CAPITAL LOAN LESS MARGIN	Million INR	402.93	407.76	412.89	416.57	419.30	424.04	428.32	433.13	437.03	441.92	445.94	450.95	456.49	462.55	468.67	475.31	482.47	489.70	497.45	506.60
Δ WORING CAPITAL REQUIREMENT	Million INR	537.24	6.44	6.84	4.90	3.65	6.31	5.71	6.41	5.20	6.53	5.35	6.68	7.39	8.08	8.16	8.85	9.55	9.64	10.33	12.20
Δ WORING CAPITAL LOAN	Million INR	402.93	4.83	5.13	3.68	2.73	4.74	4.28	4.81	3.90	4.89	4.02	5.01	5.54	6.06	6.12	6.64	7.16	7.23	7.75	9.15
DEBT																					
TERM LOAN OPENING	Million INR	16666.63	16666.63	16666.63	14999.97	13333.31	11666.65	9999.99	8333.33	6666.67	5000.01	3333.35	1666.69	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
TERM LOAN REPAYMENT	Million INR	0.00	0.00	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TERM LOAN CLOSING	Million INR	16666.63	16666.63	14999.97	13333.31	11666.65	9999.99	8333.33	6666.67	5000.01	3333.35	1666.69	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
INTEREST ON TERM LOAN	Million INR	1166.66	1166.66	1166.66	1050.00	933.33	816.66	700.00	583.33	466.67	350.00	233.33	116.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WORKING CAPITAL LOAN	Million INR	402.93	407.76	412.89	416.57	419.30	424.04	428.32	433.13	437.03	441.92	445.94	450.95	456.49	462.55	468.67	475.31	482.47	489.70	497.45	506.60
INTEREST ON WORKING CAPITAL LOAN	Million INR	28.21	28.54	28.90	29.16	29.35	29.68	29.98	30.32	30.59	30.93	31.22	31.57	31.95	32.38	32.81	33.27	33.77	34.28	34.82	35.46



Clean Green Energy Mission - Report
SOLAR WIND HYBRID POWER GENERATION

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
INTEREST ON TERM LOAN																					
INTEREST ON TERM LOAN	Million INR	1166.66	1166.66	1166.66	1050.00	933.33	816.66	700.00	583.33	466.67	350.00	233.33	116.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BOOK DEPRECIATION																					
OPENING VALUE	Million INR	22948.88	21916.18	20883.48	19850.78	18818.08	17785.38	16752.68	15719.98	14687.28	13654.58	12621.88	11589.18	10368.25	9126.41	7858.43	6556.83	5210.42	3801.26	2297.99	637.86
BOOK DEPRECIATION	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1220.93	1241.84	1267.98	1301.60	1346.41	1409.16	1503.27	1660.13	1973.84
CLOSING VALUE	Million INR	21916.18	20883.48	19850.78	18818.08	17785.38	16752.68	15719.98	14687.28	13654.58	12621.88	11589.18	10368.25	9126.41	7858.43	6556.83	5210.42	3801.26	2297.99	637.86	-1335.98
CUMULATIVE DEPRECIATION	Million INR	1032.70	2065.40	3098.10	4130.80	5163.50	6196.20	7228.90	8261.60	9294.30	10327.00	11359.70	12580.63	13822.47	15090.45	16392.05	17738.46	19147.62	20650.89	22311.02	24284.86
O & M EXPENSES																					
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
SOLAR PV POWER PLANT O & M	Million INR	84.10	88.13	92.37	96.82	101.50	106.41	111.56	116.98	122.67	128.65	134.93	141.53	148.47	155.76	163.43	171.49	179.96	188.87	198.23	208.08
WIND TURBINE POWER PLANT O & M	Million INR	168.96	177.07	185.59	194.53	203.92	213.78	224.14	235.03	246.46	258.47	271.09	284.36	298.30	312.95	328.35	344.54	361.56	379.46	398.28	418.07
BESS PLANT O & M	Million INR	121.00	126.81	132.91	139.31	146.04	153.10	160.52	168.31	176.50	185.10	194.14	203.64	213.63	224.12	235.15	246.74	258.93	271.75	285.22	299.40
TOTAL O & M EXPENSES	Million INR	374.06	392.01	410.87	430.66	451.46	473.29	496.22	520.32	545.63	572.22	600.16	629.53	660.40	692.83	726.93	762.77	800.45	840.08	881.73	925.55
WATER COST																					
WATER COST	Million INR	1.93	2.02	2.12	2.22	2.33	2.44	2.56	2.68	2.81	2.95	3.09	3.24	3.40	3.57	3.75	3.93	4.12	4.33	4.54	4.77
SOLAR PV MODULE REPLACEMENT COST																					
NO OF PV MODULES FOR REPLACEMENT	NOS	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982
PV MODULE UNIT COST	INR	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00	10080.00
SOLAR PV MODULE REPLACEMENT COST	Million INR	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90
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
INTEREST ON WORKING CAPITAL																					
WORKING CAPITAL	Million INR	537.24	543.68	550.52	555.42	559.07	565.38	571.09	577.50	582.70	589.23	594.58	601.26	608.65	616.73	624.89	633.74	643.29	652.93	663.26	675.46
INTEREST ON WORKING CAPITAL	Million INR	28.21	28.54	28.90	29.16	29.35	29.68	29.98	30.32	30.59	30.93	31.22	31.57	31.95	32.38	32.81	33.27	33.77	34.28	34.82	35.46
INCOME TAX																					
INCOME TAX	Million INR	0.00	0.00	0.00	0.00	0.00	186.70	251.83	310.54	362.86	415.70	421.26	473.28	524.32	548.86	571.11	592.84	614.16	633.56	652.74	674.84
TOTAL COST OF GENERATION																					
TOTAL COST OF GENERATION	Million INR	2613.46	2631.83	2651.15	2554.64	2459.07	2551.37	2523.19	2489.79	2451.16	2414.40	2331.66	2485.12	2471.81	2555.52	2646.10	2749.12	2871.56	3025.42	3243.86	3624.36
LEVELIZED COST OF GENERATION (LCOG)																					
DISCOUNTING FACTOR		1.00	0.93	0.86	0.79	0.74	0.68	0.63	0.58	0.54	0.50	0.46	0.43	0.40	0.37	0.34	0.32	0.29	0.27	0.25	0.23
LCOG - GREEN RE POWER																					
COST OF GENERATION	INR/KWH	3.25	3.30	3.35	3.25	3.15	3.29	3.27	3.25	3.22	3.19	3.11	3.33	3.34	3.47	3.62	3.78	3.98	4.22	4.56	5.12



PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20
DISCOUNTED COST OF GENERATION	INR/KWH	3.25	3.07	2.88	2.57	2.33	2.24	2.06	1.89	1.74	1.60	1.43	1.43	1.34	1.28	1.23	1.21	1.15	1.14	1.14	1.18
LEVELIZED COST OF GENERATION (LCO G)	INR/KWH	3.41																			



Clean Green Energy Mission - Report
SOLAR WIND HYBRID POWER GENERATION

RV ESTIMATION OF REVENUE GENERATION

PARTICULARS/YEARS		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8	YEAR9	YEAR10	YEAR11	YEAR12	YEAR13	YEAR14	YEAR15	YEAR16	YEAR17	YEAR18	YEAR19	YEAR20
PROJECTED REVENUE																					
REVENUE FROM SALE OF RE GREEN POWER																					
RE GREEN POWER GENERATION	Million KWHR	803.52	797.06	791.79	786.57	781.37	776.21	771.08	765.98	760.93	755.90	750.91	745.94	741.02	736.12	731.25	726.42	721.63	716.86	712.12	707.41
RE GREEN POWER SALE PRICE	INR/KWH	3.41	3.48	3.55	3.62	3.69	3.76	3.84	3.92	4.00	4.08	4.16	4.24	4.32	4.41	4.50	4.59	4.68	4.77	4.87	4.97
REVENUE FROM SALE OF RE GREEN POWER	Million INR	2611.44	2662.18	2715.84	2745.13	2758.24	2802.12	2837.57	2880.08	2906.75	2948.01	2973.60	3013.60	3060.41	3113.79	3166.31	3225.30	3290.63	3354.90	3425.30	3515.83
REVENUE FROM SALE OF CARBON CREDIT																					
ANNUAL TOTAL EMISSION REDUCTION FROM THE PROJECT	tCO ₂ e/year	742933	737121	732359	727632	722931	718266	713624	709017	704446	699897	695384	690894	686440	682008	677608	673243	668901	664591	660303	656047
CARBON CREDIT SALE PRICE	INR/tCO ₂ e	952.38	971.43	990.86	1010.67	1030.89	1051.51	1072.54	1093.99	1115.87	1138.18	1160.95	1184.17	1207.85	1232.01	1256.65	1281.78	1307.41	1333.56	1360.23	1387.44
REVENUE FROM SALE OF CARBON CREDIT	Million INR	707.55	716.06	725.67	735.40	745.26	755.26	765.39	775.66	786.07	796.61	807.31	818.14	829.12	840.24	851.52	862.95	874.53	886.27	898.16	910.23
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
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
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
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
TOTAL REVENUE GENERATION																					
TOTAL REVENUE GENERATION	Million INR	3318.99	3378.24	3441.51	3480.53	3503.50	3557.38	3602.96	3655.74	3692.82	3744.62	3780.91	3831.74	3889.53	3954.03	4017.83	4088.25	4165.16	4241.17	4323.46	4426.06



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
EARNINGS BEFORE INTEREST TAX DEPRECIATION AMORTIZATION (EBITDA)																					
TOTAL REVENUE	Million INR	3318.99	3378.24	3441.51	3480.53	3503.50	3557.38	3602.96	3655.74	3692.82	3744.62	3780.91	3831.74	3889.53	3954.03	4017.83	4088.25	4165.16	4241.17	4323.46	4426.06
WATER COST	Million INR	1.93	2.02	2.12	2.22	2.33	2.44	2.56	2.68	2.81	2.95	3.09	3.24	3.40	3.57	3.75	3.93	4.12	4.33	4.54	4.77
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
O&M EXPENSES	Million INR	374.06	392.01	410.87	430.66	451.46	473.29	496.22	520.32	545.63	572.22	600.16	629.53	660.40	692.83	726.93	762.77	800.45	840.08	881.73	925.55
PV MODULE REPLACEMENT COST	Million INR	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90
EBITDA	Million INR	2933.10	2974.31	3018.62	3037.75	3039.81	3071.75	3094.28	3122.84	3134.48	3159.55	3167.76	3189.07	3215.83	3247.73	3277.25	3311.65	3350.69	3386.86	3427.29	3485.84
EARNINGS BEFORE INTEREST TAXES (EBIT)																					
BOOK DEPRECIATION	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1220.93	1241.84	1267.98	1301.60	1346.41	1409.16	1503.27	1660.13	1973.84
EBIT	Million INR	1900.40	1941.61	1985.92	2005.05	2007.11	2039.05	2061.58	2090.14	2101.78	2126.85	2135.06	1968.14	1973.99	1979.75	1975.65	1965.24	1941.53	1883.59	1767.16	1512.00
PROFIT BEFORE TAX (PBT)																					
INTEREST ON TERM LOAN	Million INR	1166.66	1166.66	1166.66	1050.00	933.33	816.66	700.00	583.33	466.67	350.00	233.33	116.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTEREST ON WORKING CAPITAL	Million INR	28.21	28.54	28.90	29.16	29.35	29.68	29.98	30.32	30.59	30.93	31.22	31.57	31.95	32.38	32.81	33.27	33.77	34.28	34.82	35.46
PBT	Million INR	705.53	746.41	790.36	925.89	1044.43	1192.71	1331.60	1476.49	1604.52	1745.92	1870.51	1819.90	1942.04	1947.37	1942.84	1931.97	1907.76	1849.31	1732.34	1476.54
PROFIT AFTER TAX (PAT)																					
OPENING VALUE	Million INR	22948.88	20653.99	18588.59	16729.73	15056.76	13551.08	12195.97	10976.37	9878.73	8890.86	9884.05	8895.64	8006.08	7205.47	6484.92	5836.43	5252.79	4727.51	4254.76	3829.28
TAX DEPRECIATION	Million INR	2294.89	2065.40	1858.86	1672.97	1505.68	1355.11	1219.60	1097.64	987.87	889.09	988.41	889.56	800.61	720.55	648.49	583.64	525.28	472.75	425.48	382.93
CLOSING VALUE	Million INR	20653.99	18588.59	16729.73	15056.76	13551.08	12195.97	10976.37	9878.73	8890.86	8001.77	8895.64	8006.08	7205.47	6484.92	5836.43	5252.79	4727.51	4254.76	3829.28	3446.35
CUMULATIVE DEPRECIATION	Million INR	20653.99	22719.39	24578.25	26251.22	27756.90	29112.01	30331.61	31429.25	32417.12	33306.21	34294.62	35184.18	35984.79	36705.34	37353.83	37937.47	38462.75	38935.50	39360.98	39743.91
TAXABLE INCOME (AFTER LOSS (CF))	Million INR	0.00	0.00	0.00	0.00	0.00	848.62	1144.70	1411.55	1649.35	1889.53	1914.80	2151.27	2383.27	2494.80	2595.95	2694.74	2791.64	2879.83	2966.99	3067.45
LOSS CARRIED FORWARD (CF)	Million INR	556.66	842.95	878.75	593.13	21.68	0.00	0.00	0.00	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	0.00	0.00	186.70	251.83	310.54	362.86	415.70	421.26	473.28	524.32	548.86	571.11	592.84	614.16	633.56	652.74	674.84
PAT	Million INR	705.53	746.41	790.36	925.89	1044.43	1006.01	1079.77	1165.95	1241.66	1330.22	1449.25	1346.62	1417.72	1398.51	1371.73	1339.13	1293.60	1215.75	1079.60	801.70
NET CASH ACCRUAL																					
NET CASH ACCRUAL	Million INR	1738.23	1779.11	1823.06	1958.59	2077.13	2038.71	2112.47	2198.65	2274.36	2362.92	2481.95	2567.55	2659.56	2666.49	2673.33	2685.54	2702.76	2719.02	2739.73	2775.54
CUMULATIVE CASH ACCRUAL	Million INR	1738.23	3517.34	5340.40	7298.99	9376.12	11414.83	13527.30	15725.95	18000.31	20363.23	22845.18	25412.73	28072.29	30738.78	33412.11	36097.65	38800.41	41519.43	44259.16	47034.70



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
OPERATING CASH FLOW																					
PAT	Million INR	705.53	746.41	790.36	925.89	1044.43	1006.01	1079.77	1165.95	1241.66	1330.22	1449.25	1346.62	1417.72	1398.51	1371.73	1339.13	1293.60	1215.75	1079.60	801.70
ADD:BOOK DEPRECIATION	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1220.93	1241.84	1267.98	1301.60	1346.41	1409.16	1503.27	1660.13	1973.84
LESS:WORING CAPITAL REQUIREMENT	Million INR	-537.24	-6.44	-6.84	-4.90	-3.65	-6.31	-5.71	-6.41	-5.20	-6.53	-5.35	-6.68	-7.39	-8.08	-8.16	-8.85	-9.55	-9.64	-10.33	-12.20
OPERATING CASH FLOW	Million INR	1200.99	1772.67	1816.22	1953.69	2073.48	2032.40	2106.76	2192.24	2269.16	2356.39	2476.60	2560.87	2652.17	2658.41	2665.17	2676.69	2693.21	2709.38	2729.40	2763.34
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
CASH RESERVE FOR FUTURE INVESTMENT	Million INR	807.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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	-1882.28	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
INVESTING CASH FLOW	Million INR	807.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1882.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FINANCING CASH FLOW																					
INTEREST DURING CONSTRUCTION	Million INR	602.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	402.93	4.83	5.13	3.68	2.73	4.74	4.28	4.81	3.90	4.89	4.02	5.01	5.54	6.06	6.12	6.64	7.16	7.23	7.75	9.15
TERM LOAN REPAYMENT	Million INR	-0.00	-0.00	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-1666.66	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
FINANCING CASH FLOW	Million INR	1005.34	4.83	-1661.53	-1662.98	-1663.93	-1661.92	-1662.38	-1661.85	-1662.76	-1661.77	-1662.64	-1661.65	5.54	6.06	6.12	6.64	7.16	7.23	7.75	9.15
NET CASH MOVEMENT																					
NET CASH MOVEMENT	Million INR	3013.61	1777.50	154.69	290.71	409.55	370.48	444.38	530.39	606.40	694.62	-1068.32	899.22	2657.71	2664.47	2671.29	2683.33	2700.37	2716.61	2737.15	2772.49
CASH BALANCE																					
OPENING CASH BALANCE	Million INR	0.00	3013.61	4791.11	4945.80	5236.51	5646.06	6016.54	6460.92	6991.31	7597.71	8292.33	7224.01	8123.23	10780.94	13445.41	16116.70	18800.03	21500.40	24217.01	26954.16
CLOSING CASH BALANCE	Million INR	3013.61	4791.11	4945.80	5236.51	5646.06	6016.54	6460.92	6991.31	7597.71	8292.33	7224.01	8123.23	10780.94	13445.41	16116.70	18800.03	21500.40	24217.01	26954.16	29726.65



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
LIABILITY & EQUITY																					
SHARE CAPITAL - EQUITY	Million INR	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66	6884.66
RETAINED EARNINGS	Million INR	705.53	1451.94	2242.30	3168.19	4212.62	5218.63	6298.40	7464.35	8706.01	10036.23	11485.48	12832.10	14249.82	15648.33	17020.06	18359.19	19652.79	20868.54	21948.14	22749.84
CASH RESERVE FOR FUTURE INVESTMENT	Million INR	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28	807.28
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
TERM LOAN	Million INR	16666.63	16666.63	14999.97	13333.31	11666.65	9999.99	8333.33	6666.67	5000.01	3333.35	1666.69	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
WORKING CAPITAL LOAN	Million INR	402.93	407.76	412.89	416.57	419.30	424.04	428.32	433.13	437.03	441.92	445.94	450.95	456.49	462.55	468.67	475.31	482.47	489.70	497.45	506.60
TOTAL LIABILITY & EQUITY	Million INR	25467.03	26218.27	25347.10	24610.01	23990.51	23334.60	22751.99	22256.09	21834.99	21503.44	21290.05	20975.02	22398.28	23802.85	25180.70	26526.47	27827.23	29050.21	30137.56	30948.41
ASSETS																					
NET FIXED ASSETS	Million INR	21916.18	20883.48	19850.78	18818.08	17785.38	16752.68	15719.98	14687.28	13654.58	12621.88	13471.46	12250.53	11008.69	9740.71	8439.11	7092.70	5683.54	4180.27	2520.14	546.30
RECEIVABLES	Million INR	276.58	281.52	286.79	290.04	291.96	296.45	300.25	304.65	307.74	312.05	315.08	319.31	324.13	329.50	334.82	340.69	347.10	353.43	360.29	368.84
SPARES	Million INR	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49	229.49
O&M TIED UP	Million INR	31.17	32.67	34.24	35.89	37.62	39.44	41.35	43.36	45.47	47.69	50.01	52.46	55.03	57.74	60.58	63.56	66.70	70.01	73.48	77.13
CASH BALANCE	Million INR	3013.61	4791.11	4945.80	5236.51	5646.06	6016.54	6460.92	6991.31	7597.71	8292.33	7224.01	8123.23	10780.94	13445.41	16116.70	18800.03	21500.40	24217.01	26954.16	29726.65
TOTAL ASSETS	Million INR	25467.03	26218.27	25347.10	24610.01	23990.51	23334.60	22751.99	22256.09	21834.99	21503.44	21290.05	20975.02	22398.28	23802.85	25180.70	26526.47	27827.23	29050.21	30137.56	30948.41
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



Clean Green Energy Mission - Report
SOLAR WIND HYBRID 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
DEBT SERVICE COVERAGE RATIO (DSCR)																					
PROFIT AFTER TAX (PAT)	Million INR	705.53	746.41	790.36	925.89	1044.43	1006.01	1079.77	1165.95	1241.66	1330.22	1449.25	1346.62	1417.72	1398.51	1371.73	1339.13	1293.60	1215.75	1079.60	801.70
DEPRECIATION	Million INR	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1032.70	1220.93	1241.84	1267.98	1301.60	1346.41	1409.16	1503.27	1660.13	1973.84
INTEREST ON LOAN	Million INR	1166.66	1166.66	1166.66	1050.00	933.33	816.66	700.00	583.33	466.67	350.00	233.33	116.67	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	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	1666.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEBT SERVICE	Million INR	1166.66	1166.66	2833.32	2716.66	2599.99	2483.32	2366.66	2249.99	2133.33	2016.66	1899.99	1783.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEBT SERVICE COVERAGE RATIO (DSCR)		2.49	2.52	1.06	1.11	1.16	1.15	1.19	1.24	1.28	1.35	1.43	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AVERAGE DSCR		1.46																			
MINIMUM DSCR		1.06																			



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SOLAR WIND HYBRID 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
OVERALL PROJECT																						
CASH OUTFLOW	Million INR	22141.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3740.38	2974.31	3018.62	3037.75	3039.81	3071.75	3094.28	3122.84	3134.48	3159.55	1285.48	3189.07	3215.83	3247.73	3277.25	3311.65	3350.69	3386.86	3427.29	3485.84
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	2294.89
NET CASH INFLOW	Million INR	-22141.60	3740.38	2974.31	3018.62	3037.75	3039.81	3071.75	3094.28	3122.84	3134.48	3159.55	1285.48	3189.07	3215.83	3247.73	3277.25	3311.65	3350.69	3386.86	3427.29	5780.73
IRR (PROJECT)	%	12.99																				
NPV (PROJECT)	Million INR	7649.84																				
PROJECT PAY BACK PERIOD	YEARS	7.70																				
EQUITY																						
CASH OUTFLOW	Million INR	6884.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2545.51	1779.11	1823.06	1958.59	2077.13	2038.71	2112.47	2198.65	2274.36	2362.92	599.67	2567.55	2659.56	2666.49	2673.33	2685.54	2702.76	2719.02	2739.73	2775.54
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	2294.89
NET CASH INFLOW	Million INR	-6884.66	2545.51	1779.11	1823.06	1958.59	2077.13	2038.71	2112.47	2198.65	2274.36	2362.92	599.67	2567.55	2659.56	2666.49	2673.33	2685.54	2702.76	2719.02	2739.73	5070.43
IRR (EQUITY)	%	30.48																				
NPV (EQUITY)	Million INR	12995.78																				
EQUITY PAY BACK PERIOD	YEARS	3.28																				