



PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

LIST OF EXPERIENCE

No	Deskripsi	Daya	Tahun	Lingkup Kerja	Customer
1	Studi Kelayakan PLTS Sumba Timur Palakahembi 3,5 MW	3,5 MW	2021	Biaya EPC, Financial Model, Energy	PT Sumba Surya Energi
2	Studi Kelayakan Transmisi 150 kV PLTP Ngebel 150 MW	150 MW	2021	Tapak Tower, EPC, Titik Koneksi	PT Bakrie Power
3	Studi Kelayakan PLTS Pantai Dadap 600 MW Bekasi Utara	600 MW	2022	Biaya EPC, Financial Model, Survey	PT Bakrie Power
4	Detail Disain PLTS Rooftop Elite Epicentrum 10 kW	10 kW	2022	Biaya EPC, Detail Disain	PT Bakrie Land
5	Studi Kelayakan PLTB 100 MW offshore Jawa-Sulawesi	100 MW	2022	Biaya EPC, Lokasi , Financial Model	PT Sumba Surya Energi
6	Studi Kelayakan DED PLTS Roof Top 250 kW PT KSB	250 kW	2023	Biaya EPC, Lokasi , Disain	PT KSB Indonesia
7	Studi Kelayakan PLTS Rooftop Pergudangan Balrich 15 MW	15 MW	2023	Biaya EPC, Financial Model, Survey	PT Bakrie Power
8	Studi Kelayakan PLTS+PLTB Palakahembi 15 MW	15 MW	2023	Biaya EPC, Financial Model, Lokasi	PT Energi Hijau Adidaya
9	Studi Kelayakan PLTS RNI Pasirbungur 750 MW Indramayu	750 MW	2023	Biaya EPC, Financial Model, Survey	PT Energi Hijau Adidaya
10	Design Review PLTMH Bayu 3,5 MW Banyuwangi	3.5 MW	2023	Survey, Power House	PT Artha Hidro Power
11	Detail Disain Transmisi 20 kV PLTMH Bayulor 3.5 MW	3.5 MW	2023	Detail Disain, EPC	PT Artha Hidro Power
12	Studi Kelayakan PLTS Sumbawa 10 MW + BESS 7,5 MWh	15 MW	2023	Biaya EPC, Financial Model, Lokasi	PT Energi Hijau Adidaya



China Technology Specialty of PV Solar Big MW Capacity Design, Operation, Maintenance

	Evaluasi Teknologi PLTS 1-200 MW		Evaluasi Grid Code PLN, Evaluasi Kelayakan
1	PV module <ul style="list-style-type: none">✓ Efficiency,✓ Bifacial, tracker,✓ PVSYST analysis,✓ Energy Yield,✓ Performance Ratio,✓ Shading Analysis✓ BESS Storage✓ PCS Inverter	6	Permen ESDM No 20/2020 Grid Code PLTS untuk <ul style="list-style-type: none">✓ Batasan frekwensi,✓ Tegangan,✓ Batasan daya aktif✓ Ramp rate,✓ Daya reaktif,✓ LVRT, HVRT
2	Solar Inverter <ul style="list-style-type: none">✓ String,✓ Central,✓ FO Control	7	Financial Model PLTS: <ul style="list-style-type: none">✓ Economical Tariff✓ Saving Energy✓ NPV, IRR, ROI
3	PV Inverter logger control SCADA Design	8	Instalasi grounding proteksi khusus PLTS
4	Screw pile foundation Design, Module Support Design	9	Grid Impact Intermittency Study, Short Circuit Study, Stability Analysis.
5	PCS Inverter Design BESS Storage Design	10	Disain Transmisi Disain Gardu Induk

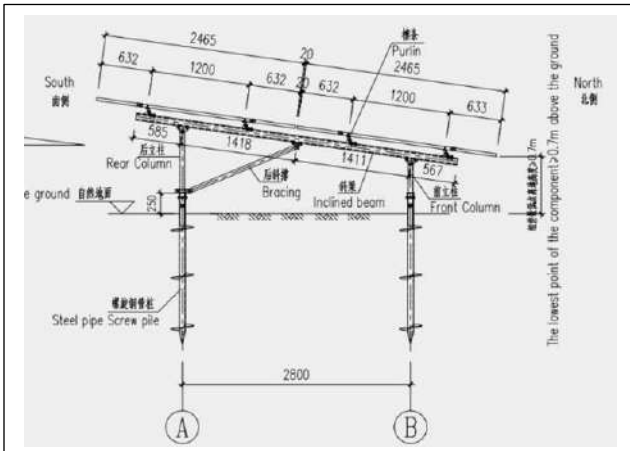
SCOPE OF PV SOLAR CONSULTACY SERVICE

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM



Design review of PV farm

- Screw pile calculation
- PV Support calculation
- String Calculation
- Grounding Design
- Drainage
- Road access
- PV cleaning system



Civil Review of PV farm

- Screw pile foundation
- Module Support
- Drainage design
- Road access design
- Topography Mapping
- Land Clearing
- Soil Investigation



PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM



Electrical Design Review

ESDM Grid Code No 20/2020

- PV module bifacial system
- BESS Battery Hybrid
- Active Reactive Power
- Inverter Logger Control
- Transformer/Switchgear
- Zero export relay control

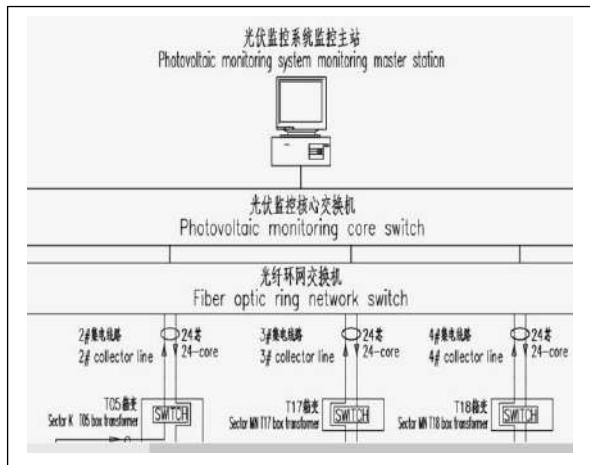


Electrical Design Review

- Solar string inverter system
- Screw pile grounding
- Underground PV cable
- PV data logger controller
- 20 kV cable systems
- 800 VAC cable systems
- Fiber Optic Control



FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM



SCADA Design Review

- I/O Data Monitoring Control
- Inverter Logger Control
- UPS system
- Transformer/Switchgear
- Zero export relay control
- Fiber Optic Communication
- PV module testing onsite



Electrical Supervision

- Solar string inverter system
- Screw pile grounding
- Underground PV cable
- PV data logger controller
- 20 kV cable systems
- 800 VAC cable systems
- Fiber Optic Control



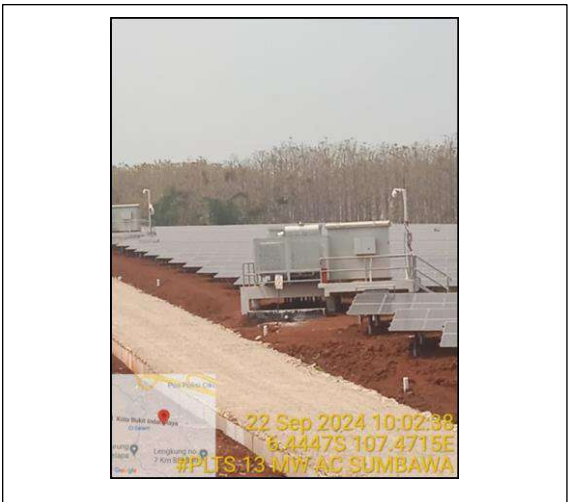
PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM





PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM



Total PV DC current	2607.60	A	Array yield this week	72179
Total PV input power	3006.13	kW	Array yield this month	129488
Phase A current of array	2206.00	A	Array yield this year	129
Phase B current of array	2214.00	A	Today PV power generation hours of array	4.40
Phase C current of array	2225.00	A	Rated array power	3000.00
Array active power	2952.08	kW	A-B line voltage of array	775.30
Array reactive power	0.37	kVar	B-C line voltage of array	772.60
Array power factor	1.00		C-A line voltage of array	768.50
Array yield today	6033	kWh	Active power of PV inverters in array	2962.58
Total array yield	129	kWh	Reactive power of PV inverters in array	-0.17
PV Inverter efficiency of array	98.53	%	CO2 reduction of array	129059.91
Array active power adjustment (exact power value)	3300.00	kW	Array start/stop/outdoor	2024/8/16 10:17
Array active power adjustment (in percentage)	100.00	%		





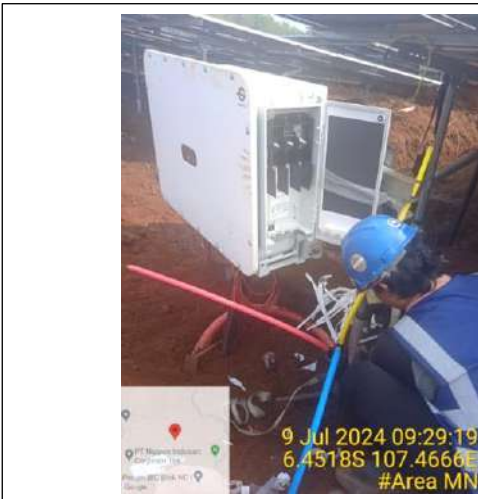
PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM





PT BAYU MATAHARI INDONESIA

Email : mohamad.musman@bayu-matari.com Mobile : 0852 8807 1001

Website : <https://bayu-matari.com>

Office/Workshop Jl. Salihara 15-16 Pasar Minggu Jakarta Selatan

FEASIBILITY STUDY, DESIGN REVIEW, SUPERVISION, GRID IMPACT STUDY, ESS/TRANSMISSION DESIGN, TESTING COMMISSIONING PV POWER PLANT 10-300 MW GROUND/ROOFTOP MOUNTED, FLOATING SYSTEM

