



PT BAYU MATAHARI INDONESIA (Consultant)

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

Branch Office : Jl. Budi Anggun 2 No 3A, Labuhan Ratu, Bandar Lampung

COMPANY PROFILE

PT BAYU MATAHARI INDONESIA PV Solar Engineers+Consultant

- ✓ List of Experiences
- ✓ List of skill engineers
- ✓ List of PV Solar Specialty
- ✓ Scope of Service

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



Experts+Engineers List

No	Name	Position	Education	Experience
1	Mohamad Musman	Director	S2 Electrical	30 years in Renewable Energy
2	Budi Prasetyo	Director	S2 Electrical	30 years in Power Generation
3	Zhang Qin Fu	Director	S1 Business	20 years in China Power Business
4	Pambudi Agung	Electrical Engineer	S1 Electrical	10 years in Renewable Energy
5	Lukmanul Hakim	Electrical Engineer	S1 Electrical	10 years in Power Plant
6	Mohamad Luthfi	Electrical Engineer	S1 Electrical	15 years in Solar Power
7	Dedi Hartono	Project Control	D3	10 years in Project Control
8	Dadan Sumarsana	Civil Engineer	S1 Civil	20 years in Power Plant
9	Agus Setyo	Civil Engineer	D3 Civil	20 years in Power Plant
10	Andi Cipto	HSE Engineer	D3	10 years in Power Plant

China Techno Specialty PV Solar Big MW Capacity

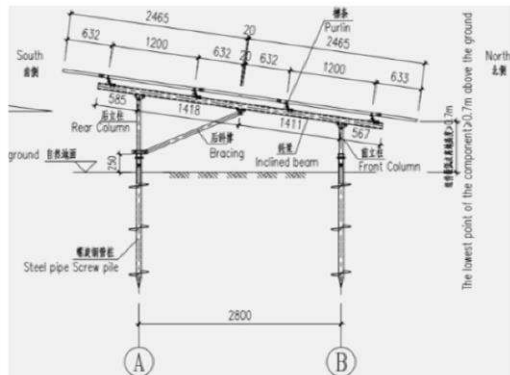
	Evaluasi Teknologi PLTS 1-200 MW		Evaluasi Grid Code PLN, Evaluasi Kelayakan
1	PV module efficiency, bifacial, tracker, PVSYST analysis, Energy Yield, Performance Ratio, Shading	6	Permen ESDM No 20/2020 Grid Code PLTS untuk Batasan frekwensi, tegangan, batasan daya aktif ramp rate, daya reaktif, LVRT, HVRT
2	Solar Inverter String, Central, FO Control	7	Financial Model PLTS, Tarif, Saving Energy
3	PV Inverter logger control dan SCADA	8	Instalasi grounding proteksi khusus PLTS
4	Screw pile foundation, Module Support	9	Grid Impact Intermittency Study
5	PCS Inverter, BESS Storage	10	Disain Transmisi dan Gardu Induk

SCOPE OF 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

**SCOPE OF 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**



**Electrical Design Review
ESDM Grid Code No 20/2020**

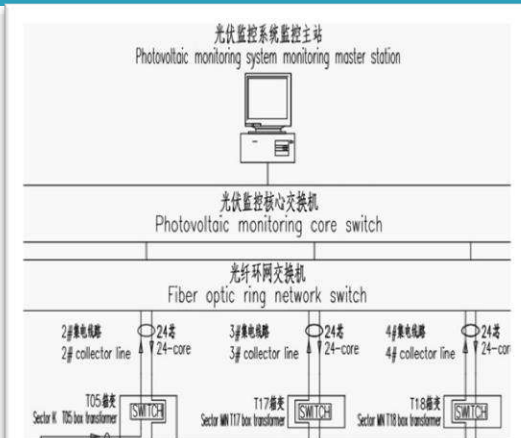
- PV module bifacial system
- BESS Battery Hybrid
- Active Reactive Power
- Inverter Logger Control
- Transformer/Switchgear
- Zero export relay control



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

SCOPE OF 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



SCADA Design Review

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



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

SCOPE OF 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



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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	2962.08	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	129099.91
Array active power adjustment (exact power value)	3300.00	kW	Array start/stop/shutdown	2024/8/16 10:17
Array active power adjustment (in percentage)	100.00	%		



BMI

Strategic Partnership

Berkeley Group

SATRIA Group

江西国际

akuoenergy

中国大唐集团有限公司
China Datang Corporation Ltd.

中国华电集团有限公司
CHINA HUADIAN CORPORATION LTD.

Marubeni

Bakrie & Brothers

IPP
Developers

Financial
Institutes

中国出口信用保险公司
CHINA EXPORT & CREDIT INSURANCE CORPORATION

中国进出口银行
THE EXPORT-IMPORT BANK OF CHINA

Standard Chartered

HSBC

中国银行
BANK OF CHINA

中国电建
POWERCHINA

PPEE

33
PT. BERKAT BERSATU

SUNGROW
Clean power for all

TUV SUD

HUAWEI

EPC
Contractors

Local
Connection

PLN

PLN ENJINIRING

BKPM

Dalle Energy

BUKAKA



Terima Kasih

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