ENERTIS
Applus⊕

Full-service engineering consultancy for renewable energy and BESS projects

We provide comprehensive, highly specialized services at all project's life cycle phases, including:

- / Technical Due Diligence for Financing and M&A
- / Owner's Engineering and Construction Management
- / QAQC and Supply Chain Management
- / On-site Solar PV Testing



A comprehensive service portfolio for renewable energy and BESS projects

ENERTIS Applus+

	PRE-PLANNING	PLANNING & DEVELOPMENT	CONSTRUCTION & COMMISSIONING	OPERATION
Technical Advisory & Consulting	• Site assessments and site adequacy • Solar and wind resource assessments and energy yield assessments • Feasibility assessments • High-level installed capacity evaluation and optimisation • Preliminary grid connection and technical permitting review	• Full Technical Due Diligence for wind, solar and storage projects • Technical design, equipment and suppliers review • Contractual review, including PPA, EPC, O&M and LTS agreements • Grid connection and technical permitting review • CAPEX & OPEX estimation • Project schedule review	• EPC milestones verification • Monitoring of construction progress • Verification and compliance of PAC/ FAC and COD • Construction budget review	• Full Technical Due Diligence for operational wind, solar and storage projects • Review of the performance of the plant • Adjustments and estimation of yield based on historical production • Historical OPEX and modeled OPEX review • Verification of technical conditions under the EPC, O&M and PPA agreements

Engineering	• Conceptual engineering
	• Technical/economic feasibility analysis of standalone and hybrid BESS
		• Basic design for permitting
		• EPC and O&M contract negotiation support
		• BESS Request for Proposal support & analysis
			• Owner's Engineering services:
			  • Detailed engineering review
			  • Construction & commissioning supervision
			• Detailed engineering for construction
				• Repowering / revamping support
				• Evaluation of augmentation plan

QAQC, Technology and Supply Chain	• Technical advisory during negotiations with PV, BESS, and other BOS equipment suppliers
	• Bankability reports
	• Supply chain traceability
	• Vendor's qualification
		• Pre-production factory audit and BOM validation through laboratory testing
		• For PV, BESS and other BOS components:
		  • Manufacturing oversight
		  • Pre-shipment inspections
		  • Factory Acceptance Test (FAT) witnessing		

Solar PV & BESS Testing		• Albedo on-site measurement	• Post-shipment inspections of PV & BESS containers • Electroluminescence (EL) to installed PV modules • Visual inspections, I-V Curve, IR in-spections, inverter efficiency measure-ment, and any other LV & MV tests • On-site BESS FAT validation	• PV Mobile Laboratory testing • Degradation assessment campaigns • Massive and daytime EL test • IR inspections, inverter efficiency measurement and pyranometers calibration

Our track record spans 65+ countries, strengthened by our experts who combine extensive global expertise in the industry with deep technical knowledge to identify the most appropriate solution for our clients' needs.

+8,000
Renewable energy projects

+900 GW
Proven track record in wind & solar PV projects

+150 GWh
BESS projects

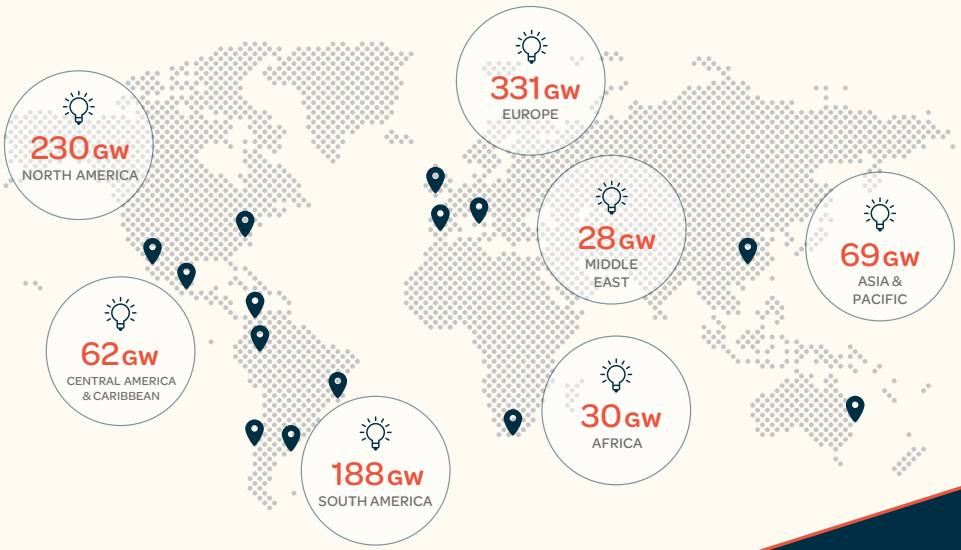
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