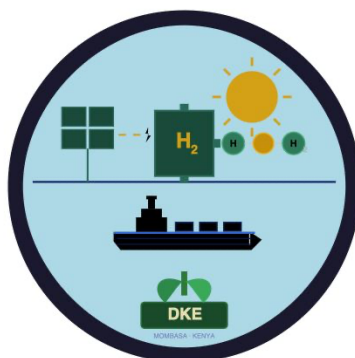




DONGO KUNDU ENERGY LIMITED

Green Hydrogen & Solar PV Development

INVITATION FOR EXPRESSION OF INTEREST (EOI)

& PRE-QUALIFICATION OF ORIGINAL EQUIPMENT MANUFACTURERS (OEMs)

Supply of Solar PV Modules, String Inverters and
Battery Energy Storage System (BESS)

Project	20 MWp Utility-Scale Solar PV Plant with BESS
Location	Dongo Kundu Special Economic Zone (SEZ), Mombasa, Kenya
Developer / Owner	Dongo Kundu Energy Limited (Company No. PVT-5JUEJVG2)
Procurement Categories	A — Solar PV Modules B — String Inverters C — BESS
Document Type	Expression of Interest & OEM Pre-Qualification
Issue Date	23-06-2026

CONFIDENTIAL — FOR PROSPECTIVE OEM APPLICANTS

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1. Introduction

Dongo Kundu Energy Limited (“DKE” or “the Company”) invites Expressions of Interest (EOI) from qualified Original Equipment Manufacturers (OEMs) and their authorised representatives for the pre-qualification of equipment suppliers for the development of a 20 MWp utility-scale Solar Photovoltaic (PV) power plant integrated with a Battery Energy Storage System (BESS) at the Dongo Kundu Special Economic Zone (SEZ), Mombasa, Kenya.

This pre-qualification exercise aims to identify technically competent, financially sound, bankable and experienced manufacturers capable of supplying high-quality equipment for utility-scale renewable energy projects in a marine, high-humidity coastal environment.

1.1 Procurement Categories

- **Category A** — Solar PV Modules (Panels)
- **Category B** — Utility-Scale String Inverters
- **Category C** — Battery Energy Storage System (BESS)

Only shortlisted and pre-qualified OEMs will be invited to participate in the subsequent Request for Proposal (RFP) and commercial bidding process. Applicants may submit for one or more categories; each category is evaluated independently.

2. General Pre-Qualification Requirements

All applicants, regardless of category, shall submit the following corporate, financial and compliance documentation. Each item must be clearly indexed and cross-referenced in the submission.

2.1 Corporate Information

#	Required Item	Required Evidence / Detail
1	Company Profile	Overview of the organisation, history and core business.
2	Certificate of Incorporation	Certified copy of registration in country of origin.
3	Ownership Structure	Shareholding
4	Organisational Chart	Corporate and functional structure.
5	Manufacturing Locations	Address and status of all production facilities.
6	Global Presence	Regional offices, distribution and service network.
7	Number of Employees	Total headcount and technical/engineering staff.
8	Annual Manufacturing Capacity	Declared nameplate capacity per product category (GW or MWh/year).

2.2 Financial Capability

#	Required Item	Required Evidence / Detail
1	Audited Financial Statements	Last three (3) consecutive financial years.
2	Credit Rating	From a recognised rating agency, if available.
3	Bankability Reports	Independent reports from recognised agencies (e.g. PVEL, DNV, BNEF Tier-1), if available.
4	Annual Revenue	Revenue attributable to the relevant product category.

2.3 Quality, Health, Safety & Environmental Compliance

#	Standard	Description
1	ISO 9001	Quality Management System certificate.
2	ISO 14001	Environmental Management System certificate.
3	ISO 45001	Occupational Health & Safety Management System certificate.

2.4 Reference Projects

Minimum three (3) utility-scale project references required.

Reference Project Schedule

Section 2.4 — Utility-Scale Reference Projects | General Pre-Qualification

Each applicant shall list utility-scale reference projects in the table below. A minimum of three (3) verifiable references is required. Complete every field for each project; entries with missing fields may be deemed non-responsive.

#	Project Name	Client	Capacity	Country	Year of Supply	Year of Commissioning	Verifiable Contact Reference
							Name / Title / Email / Phone
1							
2							
3							
4							
5							
6							
7							
8							

Declaration

Any incorrect or unverifiable information provided in this schedule may result in immediate disqualification. The applicant confirms that the references stated above are accurate and that the named contacts are authorised to verify the information on request.

Authorised Signatory: _____

Date: _____

Name & Title: _____

Company Stamp:

3. Category A — Solar PV Modules

Offered PV modules shall be Tier-1 bankable products suited to a marine, high-humidity coastal environment and shall meet or exceed the following minimum technical specifications.

3.1 Minimum Technical Requirements

Parameter	Minimum Required Specification
Cell Technology	N-Type Monocrystalline TOPCon or superior (HJT / HPBC)
Module Configuration	Bifacial, Dual-Glass (Glass-Glass), Marine Quality
Rated Power (STC, Front Side)	≥ 700 Wp
Module Efficiency	≥ 23.5%
Bifaciality Factor	≥ 80%
Temperature Coefficient (Pmax)	≤ -0.30 %/°C
Maximum System Voltage	1500 V DC
First-Year Degradation	≤ 1.0%
Annual Linear Degradation	≤ 0.40%
Product Warranty	Minimum 12 Years
Performance Warranty	30 Years
Power Retention at Year 30	≥ 87.4%
Mechanical Load Capacity	Snow 5400 Pa / Wind 2400 Pa
Hail Resistance	35 mm ice-ball test per IEC 61215
Junction Box	IP68
Bypass Diodes	Minimum 3
Connectors	MC4 EVO2A or T6 equivalent
Salt-Mist Corrosion	IEC 61701 Severity 6
Ammonia Resistance	IEC 62716
Dust & Sand Resistance	IEC 60068-2
PID Resistance	Certified Anti-PID
LeTID Resistance	Certified Anti-LeTID

3.2 Mandatory Certifications

#	Certification	Scope
1	IEC 61215	Design qualification & type approval (crystalline modules).
2	IEC 61730	PV module safety qualification.
3	IEC 61701 (Severity 6)	Salt-mist corrosion test — marine grade.
4	IEC 62716	Ammonia corrosion test.
5	IEC 60068	Dust and sand environmental test.
6	CE Certification	European conformity.
7	ISO 9001 / 14001 / 45001	Quality, environmental and OH&S management systems.

3.3 Additional Submission Requirements

#	Item	Detail
1	Product Datasheets	For each offered module model.
2	Factory Audit Reports	Independent third-party audits.
3	Manufacturing Capacity Declaration	Stated in GW/year.
4	Independent Bankability Reports	Tier-1 listing evidence.
5	Warranty Terms	Full product & performance warranty documents.
6	Global Installation Base	Cumulative installed capacity worldwide.
7	African Project References	Installations in African / equatorial climates.
8	Performance Ratio Data	From comparable climatic conditions.

4. Category B — Utility-Scale String Inverters

Offered inverters shall be three-phase, transformerless, utility-scale string inverters rated for coastal C5-M/C5-H marine conditions and compliant with the Kenya Grid Code and EPRA requirements.

4.1 Minimum Technical Requirements

Parameter	Minimum Required Specification
Type	Three-Phase Utility-Scale String Inverter, Transformerless
Rated AC Output Power	≥ 150 kW
Preferred Size Range	250 kW – 350 kW
Maximum DC Voltage	1500 V DC
MPPT Voltage Range	Approx. 500 – 1500 V
Number of MPPTs	≥ 8
Maximum Efficiency	≥ 99.0%
European / CEC Efficiency	≥ 98.5%
DC/AC Oversizing Capability	≥ 1.5 : 1
Grid Voltage / Frequency	Suitable for Kenya Grid / EPRA requirements
Power Factor Range	0.8 leading to 0.8 lagging
Total Harmonic Distortion (THD)	< 3% at rated power
Reactive Power Support	Required
Night VAR Capability	Required
LVRT / HVRT	Required
Volt-VAR Functionality	Required
Frequency-Watt Control	Required
Anti-Islanding	Required
Enclosure Protection	IP66
Surge Protection	Minimum Type II SPD on AC & DC
Corrosion Protection	ISO 12944 C5-M / C5-H Marine Grade
Operating Temperature	–30°C to +60°C
Relative Humidity	0 – 100% condensing
Cooling Method	Smart forced-air cooling
MPPT Compartment Protection	IP68 sealed
Communications	Modbus TCP/IP & RTU
SCADA Integration	Mandatory
Remote Firmware Updates	Mandatory
Arc Fault Detection (AFCI)	Mandatory
AC & DC Insulation Monitoring	24-hour real-time
Maximum Altitude	≥ 4000 m
Noise Level	≤ 75 dB(A) @ 1 m

4.2 Mandatory Certifications

#	Certification	Scope
1	IEC 62109-1	Safety of power converters — general requirements.
2	IEC 62109-2	Safety — particular requirements for inverters.
3	IEC 61727	Utility-interconnection characteristics.
4	IEC 62116	Anti-islanding test procedure.
5	IEC 61000 Series	Electromagnetic compatibility (EMC).
6	CE Certification	European conformity.
7	ISO 9001 / 14001 / 45001	Quality, environmental and OH&S management systems.

4.3 Grid Compliance Requirements

#	Requirement	Detail
1	Kenya Grid Code	Demonstrated compliance.
2	EPRA Requirements	Energy & Petroleum Regulatory Authority conformance.
3	KPLC Interconnection Standards	Utility interconnection compliance.
4	LVRT / HVRT Performance	Fault ride-through certification.
5	SCADA Integration	Utility-scale supervisory control & data acquisition.

4.4 Additional Submission Requirements

#	Item	Detail
1	Product Datasheets	For each offered inverter model.
2	Type Test Reports	Independent type testing.
3	FAT Procedures	Factory Acceptance Test protocols.
4	Grid Compliance Certificates	Certified by accredited bodies.
5	MTBF & Reliability Reports	Mean-time-between-failure data.
6	Global Installed Fleet Data	Cumulative installed capacity.
7	African Project References	Installations in African grids.

5. Category C — Battery Energy Storage System (BESS)

Offered BESS shall be a grid-interactive, containerised lithium system supplied by the original manufacturer carrying full single-point responsibility for the integrated system.

5.1 Experience & Capacity Requirements

Parameter	Minimum Required Specification
Minimum Experience	≥ 2 years proven global experience in supply, commissioning, O&M of grid-interactive BESS
Cumulative Operational Capacity	≥ 2 MW / 2 MWh
Single Project Experience	≥ 1 operational project of 480 kW / 2-hour duration or higher
Reference Period	Projects executed within the last five (5) years
Project Location	Kenya or international

Supporting documents shall include unpriced Purchase Orders, Completion Certificates, Client Reference Certificates and Operational Performance Certificates. Any incorrect or unverifiable project information may result in immediate disqualification.

5.2 Supporting Documentation

#	Document	Required Detail
1	Purchase Orders	Unpriced copies issued by end users within the last five years.
2	Completion Certificates	Confirming successful commissioning and completion.
3	Operational Performance Certificates	Confirming operation, no adverse remarks, commissioning date and installed capacity.
4	Reference Project Schedule	Project name, country, client, capacity (MW/MWh), chemistry, supply & commissioning year, operational status.

5.3 OEM Responsibility Declaration

The original BESS manufacturer shall provide a declaration, on OEM letterhead, confirming single-point responsibility for: system design; engineering; battery selection; integration; manufacturing; testing; supply; transportation; insurance; installation; commissioning; performance guarantees; and comprehensive AMC.

Where the bidder is not the OEM, an OEM Authorisation Letter shall be submitted specifically authorising design, engineering, manufacturing, testing, supply, installation, commissioning, warranty support and AMC services for this project.

The OEM shall confirm, in writing, availability of spare parts, technical support and replacement components for a minimum period of ten (10) years after commissioning.

5.4 Technical Submission Requirements

#	Item	Detail
1	Technical Literature & Catalogues	Product literature, datasheets, user and operation manuals.
2	Manufacturing & Testing Facilities	Details of production, testing, QC and inspection capability.
3	Production Capacity	Annual nameplate manufacturing capacity.
4	Performance Guarantees	Round-trip efficiency, cycle life, calendar life, availability and capacity-retention guarantees.

5.5 Mandatory Safety Certifications

#	Certification	Scope
1	IEC 62619	Safety requirements for secondary lithium cells/batteries (industrial).
2	IEC 62933 Series	Electrical energy storage systems.
3	IEC 62477	Safety of power electronic converter systems.
4	IEC 61000 Series	Electromagnetic compatibility (EMC).
5	UL 9540	Energy storage system safety.
6	UL 9540A	Thermal-runaway fire-propagation test.
7	UN 38.3	Transport safety of lithium batteries.
8	ISO 9001 / 14001 / 45001	Quality, environmental and OH&S management systems.

5.6 System Architecture

#	Element	Required Detail
1	Battery Chemistry	Cell chemistry (e.g. LFP) and configuration.
2	Containerised Design	Enclosure design and rating.
3	Battery Management System (BMS)	Architecture and protection logic.
4	Energy Management System (EMS)	Control and dispatch capability.
5	Fire Detection & Suppression	Detection and suppression systems.
6	HVAC System	Thermal management.
7	Cybersecurity Architecture	Network and control security.

6. Evaluation Criteria

Applicants will be assessed against the following weighted criteria. Each procurement category is evaluated independently. The weightings below are indicative and may be refined at the RFP stage.

#	Evaluation Criterion	Indicative Weight
1	Technical Compliance	20%
2	Manufacturing Capacity	10%
3	Product Quality	10%
4	Bankability	12%
5	Financial Strength	12%
6	Utility-Scale Project Experience	10%
7	African Project Experience	8%
8	Warranty Provisions	6%
9	Service Capability	5%
10	ESG & Sustainability Performance	4%
11	Long-Term Support Capability	3%
Total		100%

7. Submission of EOI

Interested OEMs shall submit a complete Pre-Qualification Package electronically in a single indexed PDF file, containing all information requested under the relevant category. Only OEMs meeting the minimum qualification requirements will be shortlisted and invited to the subsequent tender process for the 20 MWp Solar PV and BESS project at Dongo Kundu SEZ, Mombasa, Kenya.

Submission Details

Submission Format	Single indexed PDF, electronic submission
Submission Email	dongokunduenenergy@gmail.com / kumarkkenya@gmail.com
Contact Person	Krishnamurthy Kumar
Issued By	Dongo Kundu Energy Limited.

This Expression of Interest does not constitute an offer, a commitment to procure, or a tender. DKE reserves the right to accept or reject any submission, to vary the requirements, and to discontinue the process at any stage without incurring liability. All costs of preparing and submitting an EOI shall be borne by the applicant.