# CURIC COOLER

#### BASILAN ELECTRIC COOPERATIVE, INC.

### (BASELCO)

Isabela City, Basilan

### **INVITATION TO BID**

Pursuant to the Department of Energy (DOE) Circular Nos. DC2018-02-0003, as amended by DC2021-09-0030, and National Electrification Administration (NEA) Memorandum No. 2019-007, BASELCO, thru its Third Party Bids and Awards Committee (TPBAC), invites all interested Bidders to participate in the competitive bidding for the procurement of 18.5 MW baseload Power Supply Requirement.

Interested Bidders may obtain a copy of the Bidding Documents upon submission of: (a) "Letter of Intent"; (b) accomplished "Confidentiality Undertaking"; and (c) payment of a non-refundable "Participation Fee" of One Hundred Thousand Pesos (PHP 100,000.00), VAT-inclusive, either cash or Manager's check payable to Basilan Electric Cooperative, Inc., to TPBAC Secretariat located at BASELCO Main Office, Binuangan, Isabela City.

Only the interested Bidders' authorized representative(s) indicated in the "Letter of Intent" are allowed to attend and participate in the Pre-Bid Conference (and the Bidding process), together with DOE, NEA and ERC observers invited by the TPBAC.

BASELCO reserves the right to accept or reject any or allbids submitted by prospective bidders or to annul the bidding process, without thereby incurring any liability to the affected prospective Bidder/s.

For further details on this CSP matter, please contact Ms. Laarni S. Degamo, TPBAC Secretariat, at mobile numbers (0936) 115-6417/ (0965) 861 9988 or thru email at <a href="mailto:baselco\_inc@yahoo.com">baselco\_inc@yahoo.com</a>.

### **TIMETABLE FOR COMPETETIVE SELECTION PROCESS\***

Publication of 1 <sup>st</sup> Invitation to Bid	August 16, 2023
Publication of 2 <sup>nd</sup> Invitation to Bid	August 23, 2023
Acceptance of Letter of Intent and Payment of Bid Participation Fee	August 16 – September 4, 2023
Issuance of Bidding Documents	August 16 – September 4, 2023
Pre-Bid Conference	September 5, 2023
Deadline of Submission of Comments on Bidding Documents	September 8, 2023
Issuance of Supplemental/Bid Bulletin	September 15, 2023
Start of Due Diligence	September 12, 2023
Last Day of Due Diligence	September 22, 2023
Submission and Opening of Bids	October 02, 2023
Post-Qualification	October 9, 2023
Issuance of TPBAC Resolution to the BOD for the Award of the Contract	October 13, 2023
Announcement of Winning Bidder and Issuance of Notice of Award	October 20, 2023
Signing of Power Supply Agreement (PSA)	November 17, 2023
Joint Filing Before the ERC	November 24, 2023

<sup>\*</sup>TPBAC reserves the right to amend the timetable

# **TERMS OF REFERENCE (TOR)**

No.	Items	Requirements
A. G	ENERAL INFORMATION	
1	Name of Utility:	BASILAN ELECTRIC COOPERATIVE, INC.
2	Area to be served:	OFF-GRID
3	Current Year of Filing	2023
4	Pre-requisite for submission	
	DOE Approval of TPBAC Selection	October 1, 2018
	NEA-Endorsed DDP to DOE (current year)	March 15, 2023
	NEA-Endorsed PSPP to DOE (current year)	March 15, 2023
	NEA Issuance of Notice to Proceed (for ECs)	July 19, 2023
5	Target Date of Publication	August 16, 2023
	EQUIREMENTS	
1	GENERAL SUPPLY	
1.1	Purpose of Procurement	As scheduled in the PSPP
1.2	Supply Type	Non-firm
1.3	Supply Side	Baseload
2	TERMS OF SUPPLY SERVICES	
2.1	Contract Capacity	Contract Capacity 18.5 MW/year
		With breakdown by period?
		Yes cached details as annex A)
		No
		M: : E 000 1 (10 1: 11) N/A
2.2	C + +F	Minimum Energy Off-take (if applicable) N/A
2.2	Contract Energy	Contract Energy:MWh/year With breakdown by period?
		Yes \( \sum_{\text{ached details as annex B}} \)
		No No
		140
2.3	Delivery Period	15 years
2.3	Benvery 1 ened	Inclusive dates: from 11/26/2024 to 11/25/2039
2.4	Conditions Precendent to Start to Supply	ERC Approval of the PSA
2.5	Power Plants Locations	Power plants shall be installed in three (3) specific locations
2.0	Tower rame Boomies	within the city of town limits specified by BASELCO:
		a. Isabela City: 8.0 MW Guaranteed Dependable
		Capacity
		b. Lamitan City: 8.0 MW Guaranteed Dependable
		Capacity
		c. Maluso Municipality: 2.5 MW Guaranteed
		Dependable Capacity
2.6	Contracted Term	The PSA shall take effect for a period of fifteen (15) years
2.7	Guaranteed Dependable Capacity	Total guaranteed dependable capacity with N-1 reserve with
		units of same or larger unit capacity, mobile/modular as
		standby replacement per location during maintenance
		schedules.
3	COST AND TARIFF STRUCTURE	
3.1		th its levelized Capacity Payment Offer in PhP/kW/month and
		For Energy-based contract, the bidder shall specify its levelized
2.2	Energy Payment Offer in PhP/kWh only.	
3.2		payment offers including formula and references. All cost items
		enance costs shall be itemized and classified into Fixed Cost and
	Variable Cost as may be applicable.	/ Comital Coat
	Fixed Cost:	✓ Capital Cost ✓ Operation and Maintenance
	Variable Cost:	✓ Operation and Maintenance ✓ Operation and Maintenance
	variable Cost:	✓ Operation and Maintenance ✓ Fuel Cost
		✓ Fuel Cost ✓ Lube Oil Cost
3.3	Ridder shall also specify all other applicable sharess in	corporated in its payment offers such as, but not limited to,
3.3	connection facilities, wheeling charges, metering, comm	
3.4		n PhP/kWh covering items 3.2 to 3.3 and shall serve as Financial
J. <b>T</b>	Bid Price. To be discuss further during pre-bid conferer	
	received to the angular rating pro old control	<del></del> -

3.5	Capacity payment shall only be paid when the capacity	1 11.1.1 41 1.111
	PAYMENT MODALITIES	is available on the particular billing period.
4		
4.1	Mode of Payment (check as applicable)	Cash
		Manager's Check
		Others please specify bank transfer
4.2	Currency of Payment	Philippine Peso
4.3	Billing Period	Monthly
		Quarterly
		Others, please specify:
4.4	Bidder shall specify its offer of prompt payment discoun	nt and other incentives to the DU in its bid proposal
5	OUTAGE ALLOWANCE	
5.1	No outage allowed in view of the N-1 requirements	
6	REPLACEMENT POWER	
6.1		upplier shall provide the Replacement Power up to the contracted
0.1		ver Supplier fails to nominate its Replacement Power ahead of
	time, the DU shall procure Replacement Power from oth	
6.2		be responsible in providing the DU with replacement power in
0.2		of the Replacement Power shall be paid by the DU during the
	relevant period equal to the ERC-approved rate under the	
6.3	If the Dayyon Symplica compat deliver Daylo compat Dayyo	er, the DU shall charge the Power Supplier during the relevant
0.5		er, the DO shall charge the Power Supplier during the relevant
	period using the formula;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Amount = ERC-approved rate under the PSA x revenue	loss during the relevant period of outage.
7	FORCE MAJEURE	
7.1		nalogous circumstances shall be in accordance to DOE CSP
	Policies	
7.2	Arrangements in case of any force majeure shall be agree	
7.3	There will be no payment of any capacity fee in case of	
8	GROUNDS FOR TERMINATION OF CONTRACT	
8.1	Valid grounds for terminations are:	
	a. Event of Default	
	b. Expiration of cooperation period	
	c. Failure to achieve COD	
	d. Mutual agreement by both parties	
	e. Extended Force Majeure as agreed under the PSA	
	f. Changes in the circumstances as agreed under the PSA	A
		s for reason wholly attributable to its fault and/or negligence.
8.2		ound for the termination of the contract. DU shall not pay for the
	said rate reduction or adjustments.	1 7
9	LIQUIDATED DAMAGES	
9.1		the present value of the Capacity Payment computed on a 365-
7.1	day basis for the remaining term of the PSA.	the present value of the cupacity I dyment computed on a 303
9.2	Discount Rate	The discount rate to be used shall be 5%.
10	REDUCTION OF CONTRACT CAPACITY	The discount rate to be used shall be 370.
10.1	The reduction of contract capacity shall be allowed in capacity	ass of (places shock if applicable):
10.1	ss of captive customer due to Retail Competition and	
		Open Access (for olight
	areas only)	amana harvand tha aantuul af tha
	duction of demand of the DU due to special circumst	ances beyond the control of the
10.2	DU.	
10.2		right and obligations to purchase a portion of Contract it no
	longer requires to:	CD C 1'
	a) Any of its business segment without the prior consen	
10.0	b) Any affiliate or third party subject to the consent of F	
10.3		nably delayed or conditioned at the disadvantage of the DU.
10.4		ust comply with applicable rules of competition set by the
	Government.	
11	OBLIGATIONS OF THE DU	
11.1		r in the processing of permits and similar requirements from all
	national agencies and local government units especially	if the resulting PSA involves the construction of a new power
	plant.	
12	BIDDERS QUALIFICATIONS	
12.1		tures are encouraged to participate in the bidding process subject
I	to applicable government licenses and permits	

12.2	For bidders using indigenous and RE power plants, the bidder must comply with the constitutional requirement for ownership.
12.3	The capacity offer of the bidder must be compliant with all the ownership limitations prescribed under EPIRA.
12.4	For new power suppliers, the qualifications shall be based on: (i) the experience and competence of its personnel to manage and operate the plant; and (ii) acceptability of its operational management plan during technical bid evaluation. If Bidder is formed as a partnership, corporation, consortium, joint venture or any similar association for purposes of this CSP, it must present an agreement showing that the Bidder and all its partners, shareholders, obligations arising from this CSP and the resulting PSA.
13	POWER PLANT SITES/LOCATIONS
13.1	BASELCO shall require technical specifications of the Power Plant for safe and reliable operations of its distribution network;
13.2	Bidders must present "Letter of Commitment" which is valid until December 31, 2039 from landowner as proof of availability of land lease/purchase for the power plant site preferred by BASELCO subject to the Land Use Plan of the Province of Basilan, for prequalification. Such land lease "Letter of Commitment" or MOA with landowner can be finalized upon award of PSA to winning bidder.
13.3	BASELCO reserves the right to evaluate the bid propose location of the three power plant sited based on BASELCO's conducted distribution impact study (DIS).
13.4	Power Plant inside the BASELCO Headquarter in Isabela City is not included for rental or lease in this bidding, either from NPC or BASELCO as the ownership is to be threshed out. Further, there will be phase-in phaseout tripartite agreement by the BASELCO, NPP and NPC, such that it will take time before the NPC and Genset rental companies will vacate the site after COD. Only after the PSA has been awarded can the NPP negotiate for the available facilities inside the plant for future use or expansion. Meantime it must secure its location for the three (3) Power Plant sites as indicated in the TOR prior to bidding
14	DESIGN CRITERIA
14.1	The rated output of each power plant shall have a Guaranteed Dependable Capacity (GDC) of 8.0 MW for Isabela City, 8.0 MW for Lamitan City, and 2.5 MW for Maluso Municipality which shall always be available even after the selected NPP has availed of allowance downtime and/or the outage of its largest running unit.
14.2	The system voltage level of each Power Plant shall have a rated voltage of 13.2 KV at metering point and shall have the capacity to be synchronized with each other. For information, the NPC plans to put up 69 KV systems for Basilan, therefore, the NPP should connect this 69 KV system for the interconnection of the power plants. To be clarified during the pre-bid conference.
14.3	The equipment and machinery supplied for the Power Stations preferably brand new and manufactured from a reputable manufacturer like Japan or equivalent and should be in compliance to any existing Philippine Law in power generation.
14.4	The frequency range must be based on the Philippine Small Grid Guidelines and the connection must be three phase wye at metering point.
14.5	A black start capability is required.
15	SUPPLY OF FUEL AND LUBE OIL
15.1	The winning NPP shall be responsible in the supply of fuels whether it is a bunker, diesel, gas or any applicable fuels and lube oils and its storage tank with a capacity good for 60 days, in connection with the construction, testing, commissioning, and during the operation and maintenance of the Power Plant.
16	PENALTY CLAUSE
16.1	Monetary penalty with duration period for construction period: the bid security bond of one percent (1%) per day of the estimated project cost will be forfeited and a ground of termination of contract. The amount should be expressed in Philippine Currency in the form of Cash or Manager's Cashier's Check, or Bid Security Bond from reputable bonding company or Bank acceptable to BASELCO.
16.2	The winning NPP shall be subject to a penalty rate in PhP/kWh equal to the ERC approved TCGR for unserved energy for the following:  a. Delay in Commercial Operation Date;  b. Failure to deliver contracted capacity not due to force majeure events to be determined with the winning bidder, distribution-side outages, or justifiable fuel supply shortages;  c. Other violations under the resulting PSA
16.3	The total amount of penalty against the winning bidder pursuant to item 18.2 of the TOR, may be offset at the options of BASELCO.
17	REGULATORY APPROVAL
17.1	The power supplier shall make the necessary adjustments in accordance with the directive of the ERC. Downward adjustments in the rates shall not be ground for the termination of the contract and the EC should not be made to shoulder the incremental difference.
17.2	BASELCO and the winning bidder shall file with the ERC the joint application for the approval of the PSA in accordance with the ERC Rules within thirty (30) calendar days after Notice of Award.
18	DISPATCH PROCEDURE
18.1	The small grid system operator shall have the right to dispatch the Power Plant up to its Guaranteed Dependable Capacity (GDC) following the System Operator's Dispatch protocol.
19	TAKE-OFF STRUCTURE

19.1	Supplier should provide design of take-off structure from the power plant to the distribution lines with automatic three
	phase circuit recloser as its protection equipment.
19.2	For the account and responsibility of the Supplier, they should specify the tapping scheme. The power plant should
	embed within BASELCO's distribution system and the supplier should indicate the voltage level of tapping point. In
	metering facilities should be WESM compliant and located at the receiving substation of BASELCO.
19.3	Interconnection facilities from the power plant to the nearest tapping point shall be shouldered by the winning NPP.
	Discuss this provision "TAKE-OFF STRUCTURE" during the pre-bid conference.
20	OTHER TERMS AND CONDITIONS
20.1	The Power Stations shall be in accordance with operating criteria and guidelines, which the winning NPP shall prepare
	as accepted by BASELCO, provided however, that the winning NPP shall comply with the government rules and
	regulations.
20.2	BASELCO franchise will expire in 2028. Should the franchise not be renewed, both parties should exert efforts for the
	new franchise holder to honor the contract.

THIRD PARTY BIDS AND AWARDS COMMITTEE (TPBAC) BASYLAN ELECTRIC COOPERATIVE, INC.

ATTY. ADNULFO H. MANIGOS Chairman, TPBAC Noted by:

**DUSIB H. DURAPAN, MPA**General Manager

#### ISABELA SUBSTATION FORECASTED KW DEMAND

YEAR	JANUARY	<b>FEBRUARY</b>	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
2024	5,681	6,309	6,370	6,133	6,109	6,253	5,806	5,632	5,323	5,992	5,505	5,679	6,370
2025	5,909	6,561	6,626	6,378	6,354	6,503	6,039	5,858	5,536	6,232	5,726	5,906	6,626
2026	6,132	6,809	6,876	6,619	6,594	6,749	6,267	6,079	5,745	6,468	5,942	6,129	6,876
2027	6,351	7,053	7,122	6,856	6,830	6,990	6,491	6,297	5,951	6,699	6,155	6,349	7,122
2028	6,566	7,292	7,363	7,088	7,061	7,227	6,711	6,510	6,152	6,926	6,363	6,563	7,363
2029	6,777	7,526	7,599	7,316	7,288	7,459	6,927	6,719	6,349	7,148	6,567	6,774	7,599
2030	6,984	7,755	7,831	7,539	7,510	7,686	7,138	6,924	6,543	7,366	6,768	6,981	7,831
2031	7,186	7,980	8,058	7,757	7,728	7,909	7,345	7,124	6,733	7,580	6,964	7,183	8,058
2032	7,385	8,201	8,281	7,972	7,942	8,128	7,548	7,321	6,919	7,790	7,156	7,382	8,281
2033	7,580	8,417	8,500	8,182	8,151	8,343	7,747	7,515	7,102	7,995	7,345	7,577	8,500
2034	7,771	8,630	8,714	8,389	8,357	8,553	7,943	7,704	7,281	8,197	7,531	7,768	8,714
2035	7,959	8,838	8,925	8,591	8,559	8,760	8,135	7,890	7,457	8,395	7,713	7,955	8,925
2036	8,143	9,043	9,131	8,790	8,757	8,962	8,323	8,073	7,629	8,589	7,891	8,140	9,131
2037	8,324	9,243	9,334	8,986	8,951	9,162	8,508	8,252	7,799	8,780	8,066	8,320	9,334
2038	8,801	9,916	9,729	9,384	9,338	9,348	8,423	8,480	8,539	9,093	8,248	8,839	9,916
2039	9,241	10,411	10,215	9,854	9,805	9,815	8,844	8,904	8,966	9,548	8,660	9,281	10,411

#### LAMITAN SUBSTATION FORECASTED KW DEMAND

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
2024	5,578	5,372	5,719	5,728	5,770	5,845	5,950	6,046	5,418	5,915	6,077	5,704	6,077
2025	5,801	5,587	5,948	5,958	6,001	6,080	6,188	6,288	5,635	6,152	6,321	5,933	6,321
2026	6,021	5,798	6,173	6,183	6,228	6,309	6,422	6,525	5,848	6,385	6,560	6,157	6,560
2027	6,236	6,006	6,394	6,404	6,451	6,535	6,652	6,759	6,057	6,613	6,794	6,377	6,794
2028	6,447	6,209	6,610	6,621	6,669	6,756	6,877	6,987	6,262	6,837	7,024	6,593	7,024
2029	6,654	6,408	6,823	6,833	6,883	6,973	7,097	7,212	6,463	7,057	7,249	6,805	7,249
2030	6,857	6,604	7,031	7,042	7,093	7,186	7,314	7,432	6,660	7,272	7,470	7,012	7,470
2031	7,056	6,795	7,235	7,246	7,299	7,394	7,526	7,647	6,853	7,483	7,687	7,216	7,687
2032	7,251	6,983	7,435	7,446	7,501	7,599	7,734	7,859	7,043	7,690	7,900	7,415	7,900
2033	7,442	7,167	7,631	7,643	7,699	7,799	7,938	8,066	7,229	7,893	8,108	7,611	8,108
2034	7,630	7,348	7,824	7,836	7,893	7,996	8,139	8,270	7,411	8,092	8,313	7,803	8,313
2035	7,814	7,526	8,012	8,025	8,084	8,189	8,335	8,469	7,590	8,287	8,514	7,991	8,514
2036	7,995	7,700	8,198	8,211	8,271	8,379	8,528	8,665	7,766	8,479	8,711	8,176	8,711
2037	8,173	7,871	8,380	8,393	8,455	8,565	8,718	8,858	7,938	8,667	8,904	8,358	8,904
2038	8,641	8,443	8,734	8,765	8,820	8,739	8,631	9,102	8,692	8,976	9,105	8,879	9,105
2039	9,073	8,866	9,171	9,204	9,261	9,176	9,062	9,558	9,126	9,425	9,560	9,323	9,560

#### MALUSO SUBSTATION FORECASTED KW DEMAND

YEAR	JANUARY	<b>FEBRUARY</b>	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
2024	1,597	1,383	1,378	1,618	1,643	1,534	1,987	1,858	1,703	1,543	1,664	1,607	1,987
2025	1,661	1,439	1,433	1,683	1,709	1,595	2,066	1,932	1,772	1,604	1,731	1,671	2,066
2026	1,723	1,493	1,487	1,746	1,773	1,655	2,145	2,005	1,839	1,665	1,796	1,734	2,145
2027	1,785	1,547	1,541	1,809	1,837	1,714	2,221	2,077	1,904	1,725	1,860	1,796	2,221
2028	1,845	1,599	1,593	1,870	1,899	1,772	2,296	2,147	1,969	1,783	1,923	1,857	2,296
2029	1,905	1,650	1,644	1,930	1,960	1,829	2,370	2,216	2,032	1,840	1,985	1,917	2,370
2030	1,963	1,701	1,694	1,989	2,020	1,885	2,442	2,284	2,094	1,896	2,045	1,975	2,442
2031	2,020	1,750	1,743	2,047	2,078	1,940	2,513	2,350	2,155	1,951	2,105	2,033	2,513
2032	2,075	1,798	1,791	2,103	2,136	1,993	2,583	2,415	2,214	2,005	2,163	2,089	2,583
2033	2,130	1,846	1,839	2,159	2,192	2,046	2,651	2,479	2,273	2,058	2,220	2,144	2,651
2034	2,184	1,892	1,885	2,213	2,247	2,098	2,718	2,541	2,330	2,110	2,276	2,198	2,718
2035	2,237	1,938	1,931	2,267	2,302	2,148	2,783	2,603	2,386	2,161	2,331	2,251	2,783
2036	2,289	1,983	1,975	2,319	2,355	2,198	2,848	2,663	2,442	2,211	2,385	2,303	2,848
2037	2,339	2,027	2,019	2,371	2,407	2,247	2,911	2,722	2,496	2,260	2,438	2,354	2,911
2038	2,473	2,174	2,105	2,476	2,511	2,293	2,882	2,797	2,733	2,341	2,493	2,501	2,882
2039	2,597	2,283	2,210	2,600	2,637	2,407	3,026	2,937	2,869	2,458	2,618	2,626	3,026

ISARFIA	SUBSTATION	FORECASTED	<b>KWHR</b>	ENERGY

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
2024	2,757,513	2,950,743	2,602,033	2,828,234	2,717,089	2,797,127	2,375,597	2,489,538	2,595,057	2,559,732	3,101,349	2,708,981	32,482,995
2025	2,838,925	2,967,113	2,615,615	3,026,135	2,854,026	3,027,693	2,686,998	2,656,488	3,086,242	2,822,593	2,998,763	2,906,940	34,487,532
2026	3,041,804	3,179,154	2,802,536	3,242,394	3,057,985	3,244,063	2,879,021	2,846,330	3,306,796	3,024,306	3,213,065	3,114,680	36,952,132
2027	3,250,179	3,396,937	2,994,520	3,464,509	3,267,468	3,466,293	3,076,244	3,041,314	3,533,323	3,231,482	3,433,172	3,328,046	39,483,486
2028	3,461,329	3,617,622	3,189,062	3,689,584	3,479,742	3,691,483	3,276,095	3,238,895	3,762,869	3,441,418	3,656,211	3,544,256	42,048,566
2029	3,673,409	3,839,279	3,384,460	3,915,650	3,692,950	3,917,665	3,476,825	3,437,346	3,993,425	3,652,278	3,880,232	3,761,417	44,624,935
2030	3,885,152	4,060,582	3,579,547	4,141,356	3,905,819	4,143,488	3,677,236	3,635,482	4,223,614	3,862,803	4,103,896	3,978,233	47,197,206
2031	4,095,684	4,280,621	3,773,518	4,365,771	4,117,471	4,368,018	3,876,502	3,832,485	4,452,486	4,072,123	4,326,282	4,193,808	49,754,768
2032	4,304,403	4,498,764	3,965,819	4,588,253	4,327,300	4,590,616	4,074,051	4,027,791	4,679,388	4,279,642	4,546,752	4,407,528	52,290,305
2033	4,510,897	4,714,582	4,156,070	4,808,364	4,534,892	4,810,840	4,269,494	4,221,014	4,903,871	4,484,947	4,764,872	4,618,969	54,798,811
2034	4,714,888	4,927,784	4,344,015	5,025,807	4,739,968	5,028,395	4,462,568	4,411,897	5,125,633	4,687,765	4,980,348	4,827,847	57,276,915
2035	4,916,195	5,138,181	4,529,488	5,240,390	4,942,347	5,243,088	4,653,103	4,600,268	5,344,478	4,887,915	5,192,990	5,033,978	59,722,419
2036	5,114,708	5,345,658	4,712,386	5,451,994	5,141,915	5,454,800	4,840,992	4,786,023	5,560,284	5,085,285	5,402,679	5,237,246	62,133,972
2037	5,310,365	5,550,150	4,892,653	5,660,553	5,338,614	5,663,467	5,026,179	4,969,107	5,772,987	5,279,817	5,609,353	5,437,591	64,510,836
2038	5,416,573	5,661,153	4,990,506	5,773,764	5,445,386	5,776,737	5,126,702	5,068,489	5,888,446	5,385,413	5,721,540	5,546,343	65,801,053
2039	5,524,904	5,774,376	5,090,316	5,889,240	5,554,293	5,892,272	5,229,236	5,169,859	6,006,215	5,493,122	5,835,970	5,657,270	67,117,074

#### LAMITAN SUBSTATION FORECASTED KWHR ENERGY

YEAR	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
2024	2,960,570	2,797,782	2,601,691	2,658,640	2,848,845	2,475,004	2,428,252	2,622,673	2,291,507	2,332,918	2,699,881	2,572,629	31,290,394
2025	3,047,976	2,813,303	2,615,272	2,844,673	2,992,422	2,679,018	2,746,556	2,798,551	2,725,237	2,572,488	2,610,575	2,760,625	33,206,696
2026	3,265,795	3,014,352	2,802,168	3,047,964	3,206,271	2,870,470	2,942,834	2,998,545	2,919,992	2,756,327	2,797,136	2,957,908	35,579,763
2027	3,489,514	3,220,846	2,994,127	3,256,760	3,425,913	3,067,108	3,144,429	3,203,956	3,120,022	2,945,145	2,988,750	3,160,536	38,017,105
2028	3,716,213	3,430,091	3,188,643	3,468,338	3,648,480	3,266,365	3,348,709	3,412,104	3,322,717	3,136,479	3,182,916	3,365,863	40,486,919
2029	3,943,911	3,640,257	3,384,015	3,680,848	3,872,027	3,466,499	3,553,889	3,621,168	3,526,305	3,328,655	3,377,938	3,572,094	42,967,605
2030	4,171,246	3,850,088	3,579,076	3,893,019	4,095,219	3,666,315	3,758,742	3,829,899	3,729,568	3,520,526	3,572,649	3,777,996	45,444,344
2031	4,397,280	4,058,720	3,773,022	4,103,978	4,317,134	3,864,989	3,962,424	4,037,437	3,931,669	3,711,299	3,766,247	3,982,721	47,906,920
2032	4,621,369	4,265,555	3,965,298	4,313,119	4,537,138	4,061,951	4,164,352	4,243,188	4,132,029	3,900,429	3,958,177	4,185,684	50,348,290
2033	4,843,068	4,470,185	4,155,524	4,520,031	4,754,796	4,256,814	4,364,127	4,446,745	4,330,254	4,087,543	4,148,062	4,386,482	52,763,632
2034	5,062,081	4,672,336	4,343,445	4,724,435	4,969,817	4,449,315	4,561,481	4,647,835	4,526,076	4,272,389	4,335,645	4,584,847	55,149,701
2035	5,278,212	4,871,826	4,528,893	4,926,150	5,182,009	4,639,284	4,756,239	4,846,279	4,719,322	4,454,804	4,520,760	4,780,602	57,504,382
2036	5,491,343	5,068,548	4,711,767	5,125,065	5,391,255	4,826,615	4,948,293	5,041,969	4,909,885	4,634,686	4,703,305	4,973,640	59,826,372
2037	5,701,408	5,262,439	4,892,010	5,321,119	5,597,492	5,011,252	5,137,584	5,234,844	5,097,707	4,811,981	4,883,225	5,163,901	62,114,961
2038	5,815,436	5,367,688	4,989,850	5,427,541	5,709,442	5,111,477	5,240,336	5,339,541	5,199,661	4,908,220	4,980,889	5,267,179	63,357,260
2039	5,931,745	5,475,042	5,089,647	5,536,092	5,823,630	5,213,706	5,345,143	5,446,331	5,303,655	5,006,385	5,080,507	5,372,523	64,624,405

## MALUSO SUBSTATION FORECASTED KWHR ENERGY

YEAR	JANUARY	<b>FEBRUARY</b>	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	<b>DECEMBER</b>	ANNUAL
2024	470,516	518,206	507,309	500,313	453,156	455,174	470,638	434,334	460,461	431,766	529,662	478,204	5,709,739
2025	484,407	521,081	509,957	535,321	475,995	492,694	532,331	463,461	547,615	476,105	512,142	513,149	6,064,257
2026	519,024	558,319	546,401	573,577	510,011	527,903	570,373	496,581	586,750	510,129	548,741	549,820	6,497,630
2027	554,579	596,566	583,831	612,869	544,949	564,066	609,446	530,599	626,944	545,074	586,332	587,485	6,942,741
2028	590,608	635,322	621,760	652,685	580,352	600,711	649,039	565,070	667,674	580,486	624,424	625,651	7,393,782
2029	626,795	674,249	659,856	692,676	615,910	637,518	688,807	599,692	708,584	616,053	662,683	663,986	7,846,809
2030	662,925	713,114	697,892	732,603	651,413	674,266	728,511	634,260	749,428	651,563	700,881	702,259	8,299,115
2031	698,848	751,757	735,710	772,302	686,712	710,803	767,988	668,630	790,038	686,871	738,861	740,314	8,748,834
2032	734,462	790,067	773,202	811,659	721,707	747,026	807,125	702,703	830,299	721,874	776,514	778,041	9,194,681
2033	769,696	827,969	810,294	850,596	756,330	782,863	845,845	736,414	870,131	756,504	813,766	815,365	9,635,774
2034	804,503	865,411	846,938	889,062	790,532	818,266	884,096	769,716	909,480	790,715	850,566	852,238	10,071,522
2035	838,852	902,361	883,098	927,021	824,285	853,203	921,843	802,580	948,311	824,475	886,882	888,625	10,501,537
2036	872,725	938,798	918,757	964,454	857,569	887,654	959,067	834,987	986,603	857,767	922,693	924,507	10,925,582
2037	906,110	974,710	953,903	1,001,348	890,374	921,610	995,755	866,929	1,024,345	890,580	957,990	959,873	11,343,528
2038	924,232	994,205	972,982	1,021,375	908,182	940,043	1,015,670	884,268	1,044,832	908,392	977,150	979,071	11,570,398
2039	942,717	1,014,089	992,441	1,041,802	926,345	958,844	1,035,983	901,953	1,065,728	926,559	996,693	998,652	11,801,806