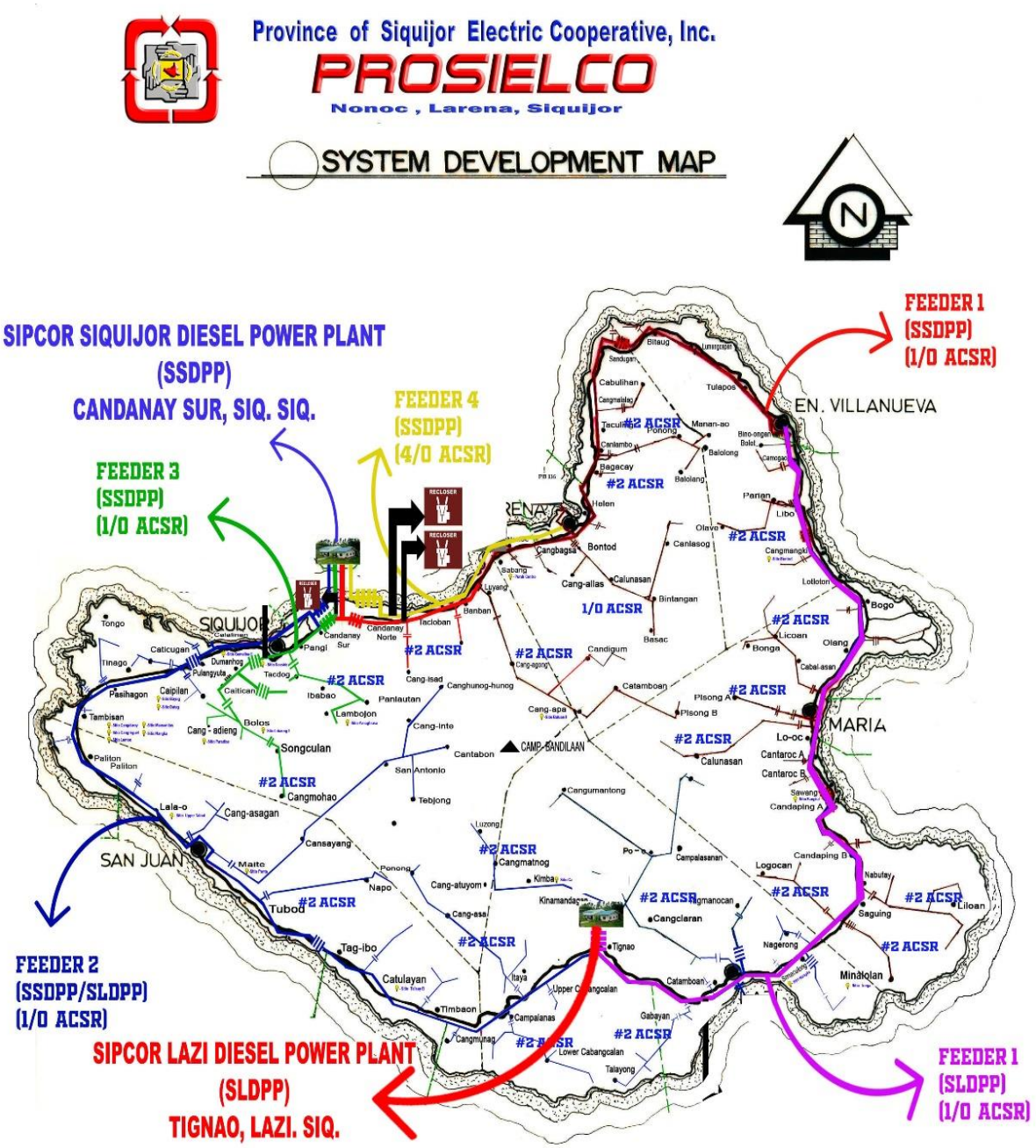
Distribution Development Plan
2025

PROVINCE OF SIQUIJOR ELECTRIC COOPERATIVE, INC.
(PROSIELCO)

General Information

PROSIELCO's franchise was granted on June 20, 1984, by virtue of P.D. No.269 and is set to expire on June 20, 2034



Located in Central Visayas, the franchise area of PROSIELCO is the entire province of Siquijor covering the six municipalities namely Larena, Enrique Villanueva, Maria, Lazi, San Juan and Siquijor. Siquijor island is one of the most visited tourist destinations in the country due to its pristine white sandy beaches.

PROSIELCO's franchise area consists of 134 barangays in the entire province. The franchise area is 343.5 square kilometers in size with a population of 103,395 based on the May 1, 2020, census.

PROSIELCO serves all sectors within the coverage area of the cooperative.

Historical and Forecasted Consumption Data

	Coincident Peak MW	MWh Offtake	MWh Residential	MWh Commercial	MWh Industrial	MWh Others	MWh Own Use	MWh System Loss
2000	1.81	6,793	3,597	1,251	334	996	38	577
2001	1.84	7,331	3,841	1,419	308	1,122	36	605
2002	1.98	7,733	3,982	1,439	308	1,298	36	670
2003	2.29	8,141	4,143	1,389	236	1,561	38	774
2004	2.31	9,280	4,644	1,289	221	2,122	40	964
2005	2.65	9,976	4,958	1,485	243	2,362	45	883
2006	2.87	10,294	4,832	1,487	240	2,737	50	948
2007	2.84	11,629	5,424	1,662	262	3,088	52	1,141
2008	2.95	11,852	5,397	1,710	287	3,260	49	1,149
2009	3.13	12,436	5,863	1,805	330	3,393	47	998
2010	3.51	13,916	6,391	1,999	364	3,746	44	1,372
2011	3.46	14,412	6,595	2,104	372	3,832	0	1,508
2012	3.17	14,822	6,740	2,200	378	3,958	0	1,545
2013	3.68	15,873	7,322	2,333	498	4,125	0	1,595
2014	3.83	16,699	7,647	2,381	523	4,373	0	1,775
2015	4.56	18,909	8,782	2,749	510	5,111	0	1,757
2016	4.65	22,198	10,520	3,207	538	5,876	0	2,056
2017	4.92	23,701	11,129	3,406	568	6,253	0	2,345
2018	5.48	27,442	12,800	4,168	585	7,181	37	2,671
2019	6.10	31,624	14,896	5,016	602	8,344	64	2,703
2020	6.20	31,528	16,194	4,701	464	7,767	68	2,335
2021	5.97	31,511	16,495	4,556	452	7,589	70	2,348
2022	6.61	36,091	17,893	5,559	396	9,345	72	2,826
2023	7.82	42,046	19,890	7,221	409	10,935	5	3,587
2024	8.84	47,770	22,124	8,684	434	12,265	0	4,263
2025	9.39	50,497	23,203	9,127	644	14,125	0	3,398
2026	9.90	64,499	32,417	10,271	731	16,548	0	4,533
2027	10.78	77,711	39,720	14,333	810	18,550	0	4,297
2028	11.73	86,400	43,852	14,510	901	22,161	0	4,977
2029	12.77	100,877	46,245	19,520	1,035	27,874	0	6,203
2030	13.90	108,851	46,446	22,621	1,121	31,133	0	7,531
2031	15.13	112,688	49,270	20,485	1,254	33,087	0	8,591
2032	16.47	121,469	52,336	24,123	1,403	34,986	0	8,621
2033	17.93	140,183	59,261	30,422	1,569	39,880	0	9,051
2034	19.52	150,720	62,261	33,972	1,754	45,418	0	7,314

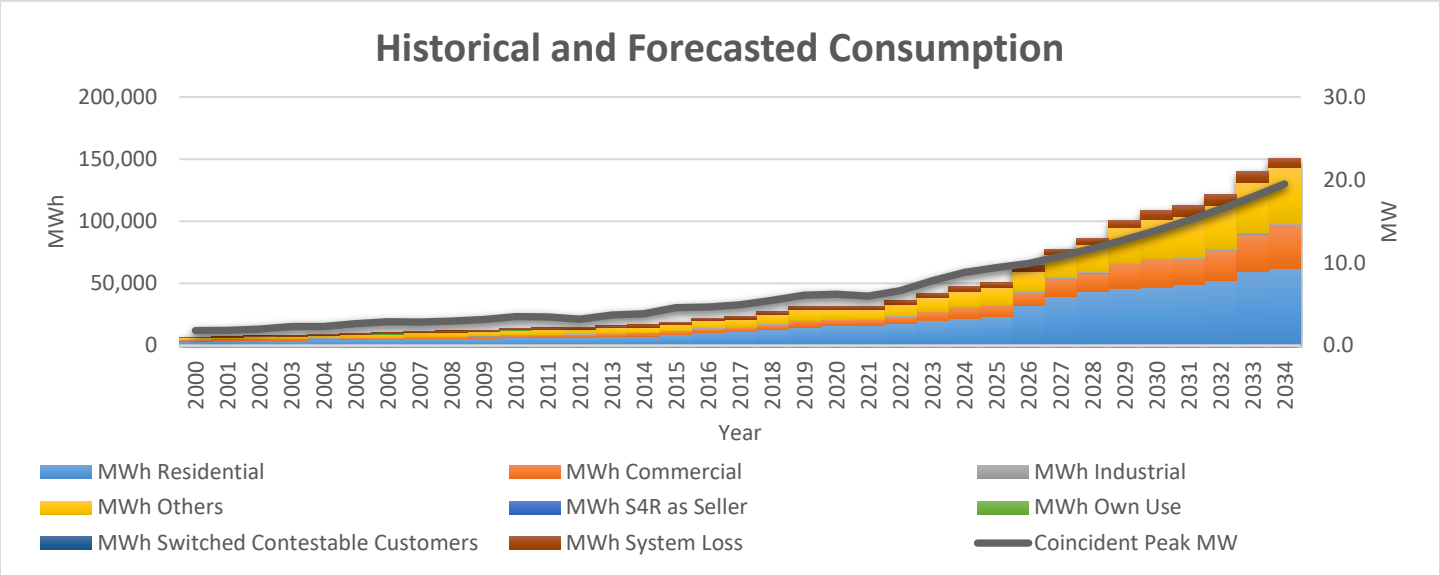
The above table is a consolidation of consumption data for all Sectors, namely Residential, Commercial, Industrial, Public Buildings, Streetlights and Water Systems. The largest sector is Residential, which accounts for around 50% of the MWh Offtake.

The Historical Data used on this new template was already based in the previous 2019 DDP (Old Form) submission.

In compliance with ERC Resolution No.11 Series of 2010, a resolution clarifying the policy on the treatment of kwh company use, PROSIELCO recorded the coop consumption as part of sales and operating expenses. The evaluator informed us that since PROSIELCO is still using old rates and has not apply for the rate adjustment the COOP use should be recorded separately and be deducted from sales in the computation of system loss. During the training/workshop on the revised Uniform Reportorial Requirement (URR) template on February 2023, ERC personnel reminded us on the ERC resolution on the treatment of coop use and directed us to record it again as part of sales and operating expenses.

	System Loss	Load Factor
2000	8.49%	43%
2001	8.25%	45%
2002	8.66%	45%
2003	9.50%	41%
2004	10.39%	46%
2005	8.85%	43%
2006	9.21%	41%
2007	9.81%	47%
2008	9.69%	46%
2009	8.02%	45%
2010	9.86%	45%
2011	10.47%	47%
2012	10.42%	53%
2013	10.05%	49%
2014	10.63%	50%
2015	9.29%	47%
2016	9.26%	55%
2017	9.89%	55%
2018	9.73%	57%
2019	8.55%	59%
2020	7.41%	58%
2021	7.45%	60%
2022	7.83%	62%
2023	8.53%	61%
2024	8.92%	62%
2025	6.73%	61%
2026	7.03%	74%
2027	5.53%	82%
2028	5.76%	84%
2029	6.15%	90%
2030	6.92%	89%
2031	7.62%	85%
2032	7.10%	84%
2033	6.46%	89%
2034	4.85%	88%

Historically, the overall System Loss ranged from 5.51%% to 10.63%. Overall System Loss peaked at 10.63% on year 2014 because of inadequate power supply of the National Power Corporation which resulted to load shedding and unbalanced loading in our Distribution System. The Forecasted System Loss will range from 4.85% to 7.62%.



Residential customers account for the bulk of energy sales at 50% due to the high number of connections. In contrast, Streetlight customers accounted for only 1% of energy sales despite the high number of connections. These figures are expected to essentially remain the same in the following years since Siquijor is an Off-grid area.

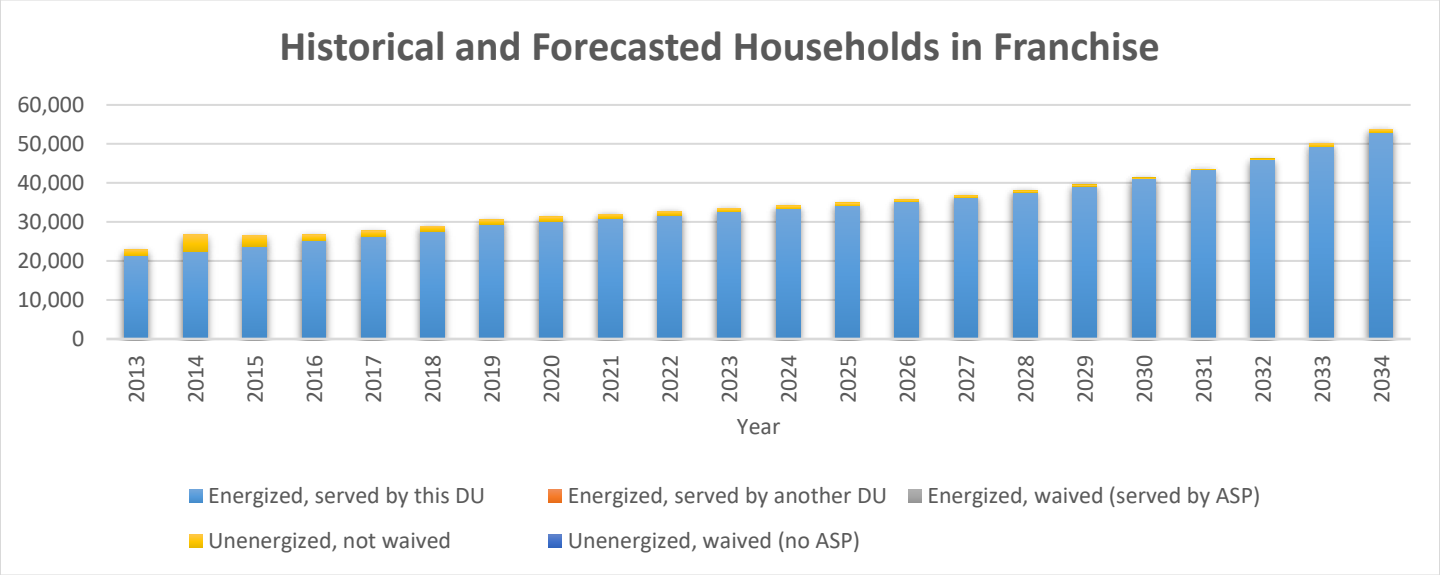
Historical and Forecasted Customer Data

	Number of barangays in franchise	Number of households in franchise	Number of captive customer connections
2013	134	22,914	21,346
2014	134	26,670	22,423
2015	134	26,554	23,791
2016	134	26,700	25,218
2017	134	27,704	26,302
2018	134	28,935	27,635
2019	134	30,582	29,379
2020	134	31,319	30,219
2021	134	31,950	30,945
2022	134	32,695	31,745
2023	134	33,483	32,583
2024	134	34,173	33,371
2025	134	34,869	34,169
2026	134	35,736	35,131
2027	134	36,767	36,261

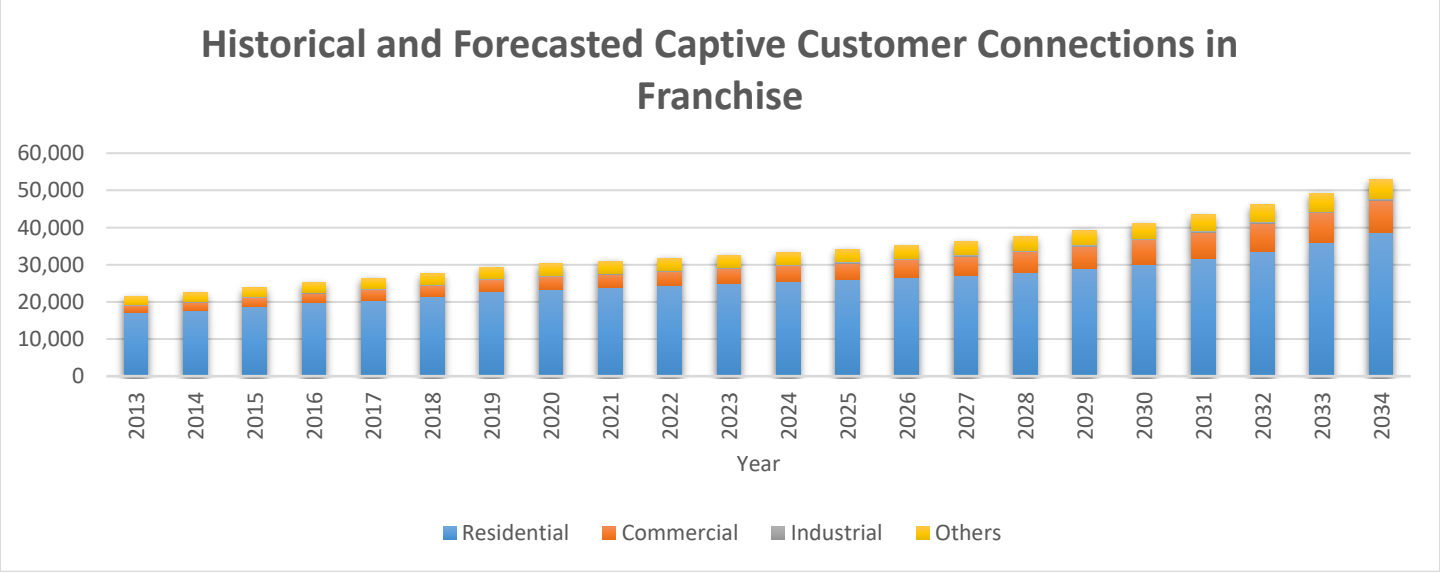
2028	134	38,009	37,608
2029	134	39,516	39,216
2030	134	41,337	41,136
2031	134	43,515	43,415
2032	134	46,147	46,097
2033	134	50,132	49,232
2034	134	53,766	52,866

The number of barangays in the franchise is expected to remain the same because Siquijor island has only 134 barangays which are fully energized.

There is no Contestable Customers in PROSIELCO's franchise area. The inconsistency of previous data is already corrected in this revised 2025 PSPP and DDP. This is the corrected and actual data.

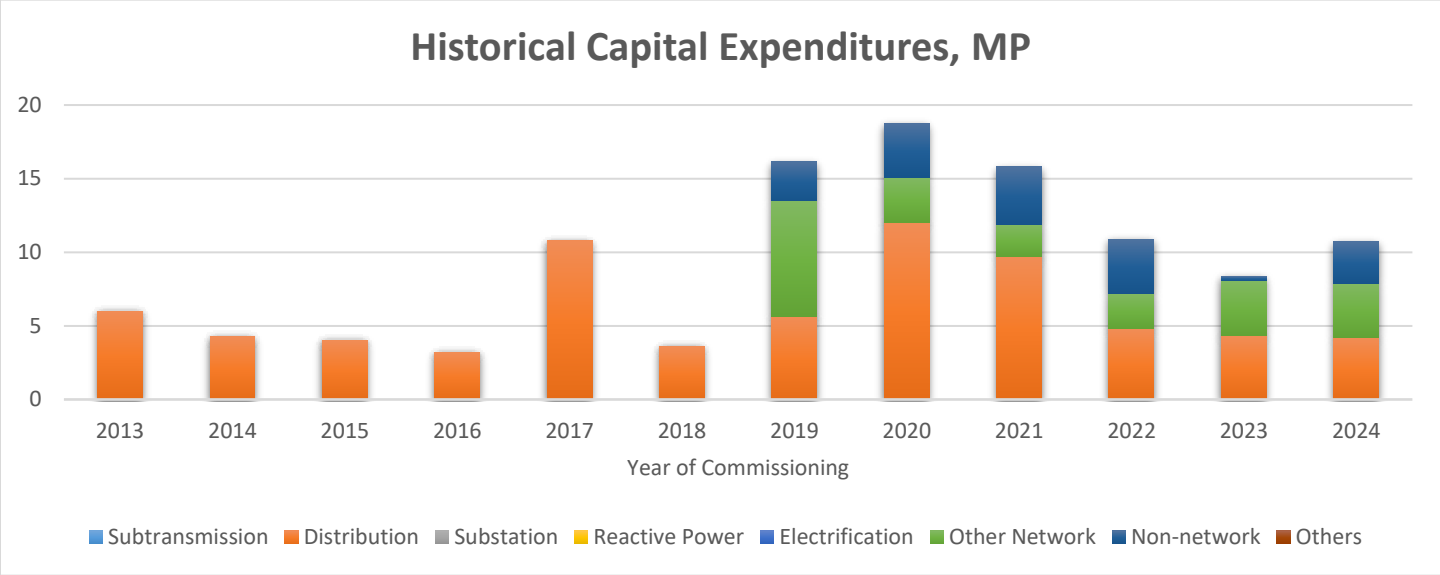


The number of households is expected to increase by 4.7% annually.

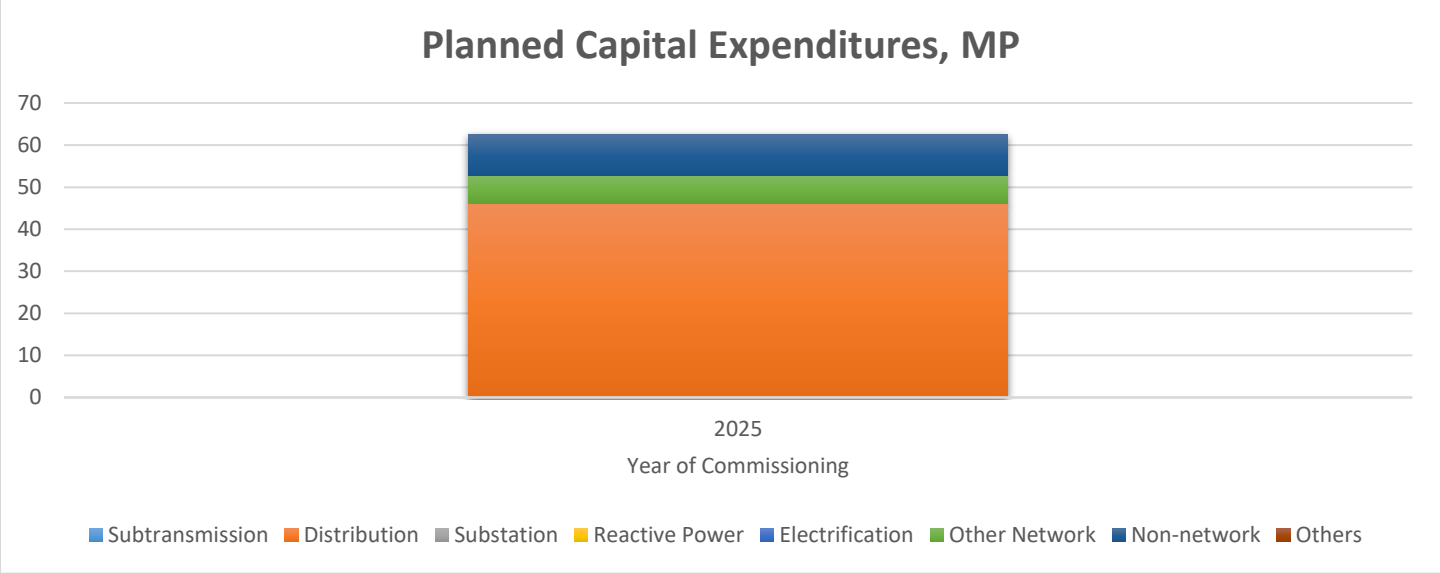


The number of captive customers is expected to increase by 4.7% annually.

Capital Projects



The past CAPEX projects did not result in any rate increase. In fact, PROSIELCO's Distribution Supply Metering (DSM) rate has been still the same since 1994. These projects are mostly replacement and rehabilitation/upgrading of our existing distribution lines.



The planned CAPEX projects are expected to result in a rate increase. Most of the projects will be financed through loans from some financing institutions in the country with Distribution Line Rehabilitation projects accounting for the bulk.

The CAPEX application with the Energy Regulatory Commission (ERC) was already filed last year and hopefully it will be approved within this year.

The Smart Grid projects are considered in the future CAPEX projects.

Distribution System Assets

Subtransmission Line ckm	0
Distribution Line ckm	984
Pole Count	5,630
Substation Transformer MVA	0.00
Distribution Transformer MVA	7.12
Capacitor MVAr	0.45

The quantities of distribution system assets are adequate.

Transformer	Max MVA	Months to Reach 70%

The Substation is owned and maintained by our Power Provider, SIPCOR, and is loaded less than 70%. The new additional 3MW generating set in SIPCOR-CANDANAY Power Plant was in operation since January 2021. PROSIELCO and SIPCOR are closely monitoring the load demand on the island as this will be the basis for the load forecasting.

2024 ACCOMPLISHMENT		
PROJECT NAME	**PROJECT IMPACT**	**ACCOMPLISHMENT**
Replacement/rehabilitation of dilapidated/rotten, burned poles, deteriorated and damaged assembly units (Pole top, grounding, anchoring and guying assemblies) and crossarms	Reduce systems loss and ensure the safety of the distribution line	54 sets
Resagging of conductors and installation of additional pole on long spans	Ensure safety of the distribution line and in compliance with PEC and NEA Engineering Standard	2 sets
Conduct right of way clearing (Distribution Line Management)	Reduce systems loss and ensure safety in the distribution lines caused by vegetations	219.22 kms
Rationalization of Distribution Capacity (Transformer Load Management)	Reduction in systems loss specifically on core loss	11 sets

Replacement of old/dilapidated Distribution Transformers	Improve power quality and reduction in systems loss	15 sets
Replacement of old mechanical kilowatthourmeters	Significantly reduce the revenue loss due to in accurate meter registers	304 pcs
Replacement of stop kilowatthourmeters	Significantly reduce the revenue loss due to in accurate meter registers	117 pcs

AUGMENTATION OF DISTRIBUTION TRANSFORMER

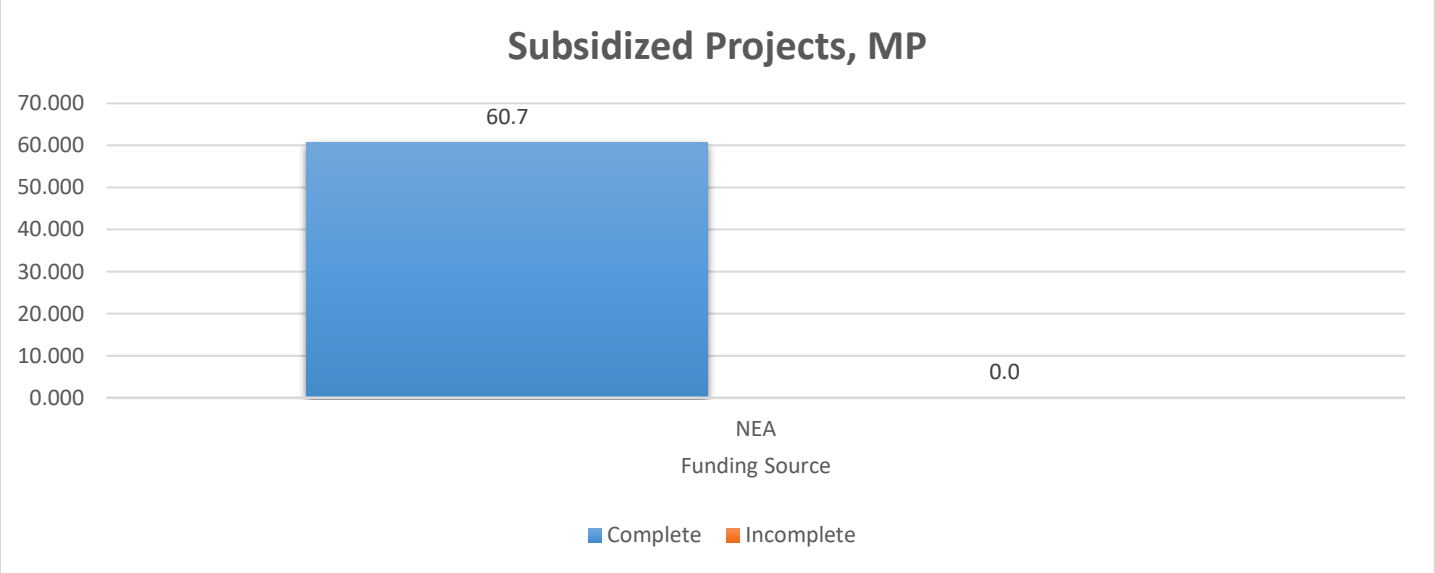
LOCATION	Pole # (transformer pole)	Pole # (Dead-end UB/OS)	REMOVED (KVA RATING)	INSTALLED (KVA RATING)
POBLACION, SAN JUAN NEAR (NEAR SMART & GLOBE TOWER)	PROS0665-5	PROS0665 & PROS0665-14	15 15	25
POBLACION, SAN JUAN (NEAR CONG. VILLA RES.)	PROS0659-4	PROS0659 & PROS0659-7	25 25	37.5
MAITE, SAN JUAN (NEAR ISLA DE PAZ BEACH RESORT)			10	15
LALAO, SAN JUAN (CROSSING TO DIR. MANGINSAY)			15	25
NONOC, LARENA (NEAR PETRON)	PROS0077	PROS0076 & PROS0080	25 10	37.5
NORTH POBLACION, LARENA (NEAR DR. ALBETO RES)	PROS0105	PROS0104 & PROS0108	25 10 10	37.5

LINE EXTENSION/ADDITIONAL POLE

FEEDER	LOCATION	POLE HEIGHT			INSTALLED TRANSFORMER	
		35 FT	40 FT	45 FT	KVA RATING	QTY
F2 SSDPP	LAMBOJON, SIQUIJOR	1			25	1
F2 SSDPP	TAMBISAN, SAN JUAN			1	25	1
F2 SSDPP	CAIPILAN, SIQUIJOR			1	25	1
F2 SSDPP	POBLACION, SAN JUAN		1		37.5	1
F2 SSDPP	CAN-ASAGAN, SAN JUAN	2	1		25	1

F2 SSDPP	LALA-O, SAN JUAN			1	25	3
F2 SSDPP	TONGO, SIQUIJOR		3		25	1
F2 SLDPP	UPPER CABANGCALAN, LAZI	11			25	1
F1 SLDPP	NAGERONG, LAZI		1		25	3
F1 SLDPP	NAGERONG, LAZI	2			25	1
F3 SSDPP	POBLACION, SIQUIJOR		1		37.5	1
F4 SSDPP	CANDANAY SUR		1	1	25	1
F4 SSDPP	OLO, SIQUIJOR			1		

Subsidized Projects



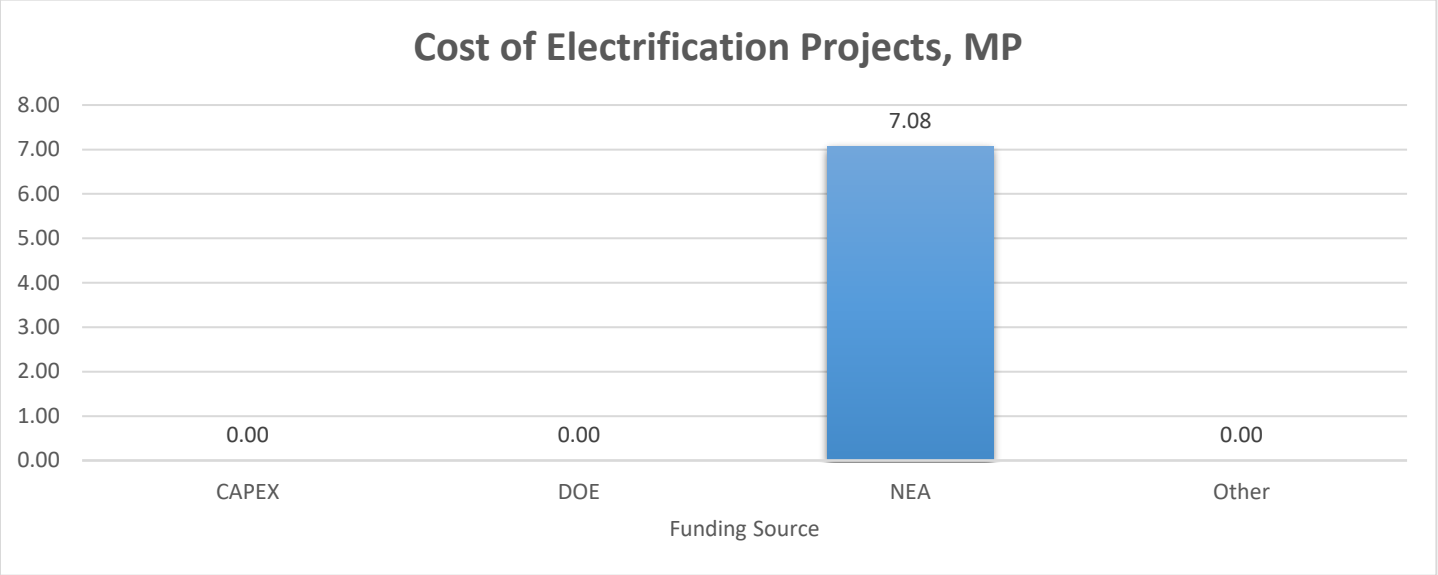
The leading source of subsidy is coming from the National Electrification Administration (NEA) which accounts for P60,693,180 million disbursed since 2011. There are ongoing projects, and they are expected to be completed within this year.

Household Electrification

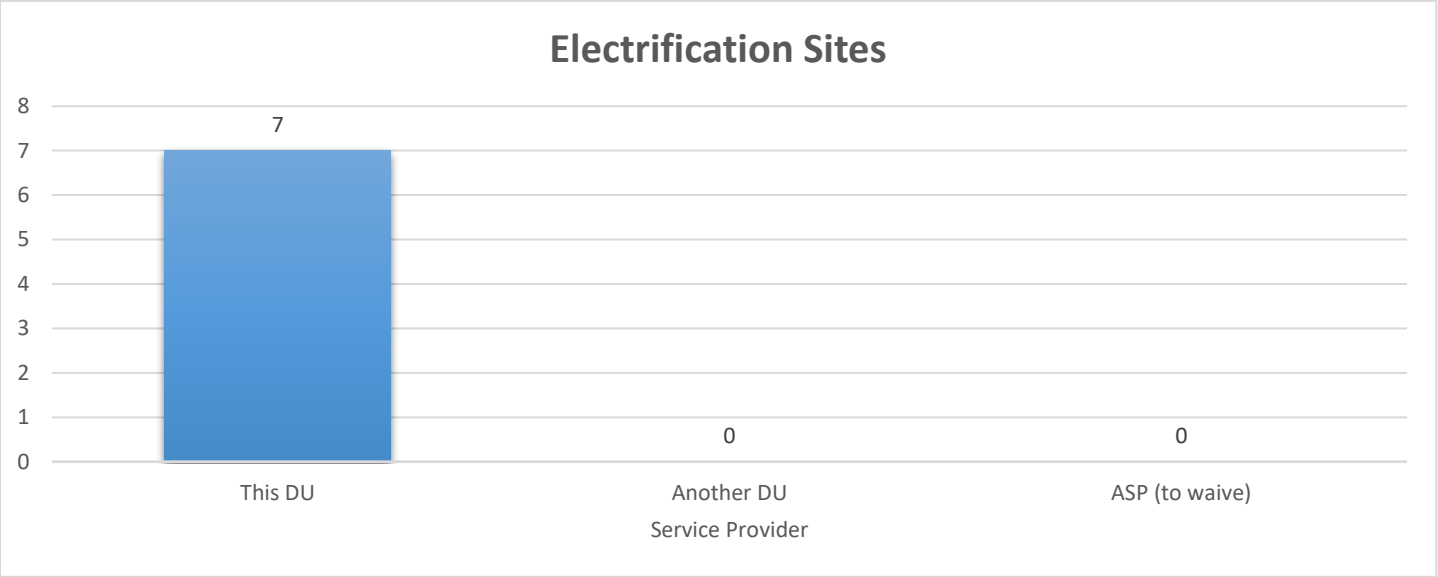
Province	Municipality / City	Energized, Grid-connected	Energized, Not Grid-connected	Total Energized
Siquijor	Enrique Villanueva	0	2,112	2,112
Siquijor	Larena	0	5,023	5,023
Siquijor	Lazi	0	6,638	6,638
Siquijor	Maria	0	4,515	4,515
Siquijor	San Juan	0	5,366	5,366
Siquijor	Siquijor (Capital)	0	9,717	9,717
Total		0	33,371	33,371

The total number of energized households is 33,371. The bulk of these are in the Municipality of Siquijor with a total number of 9,717 energized households.

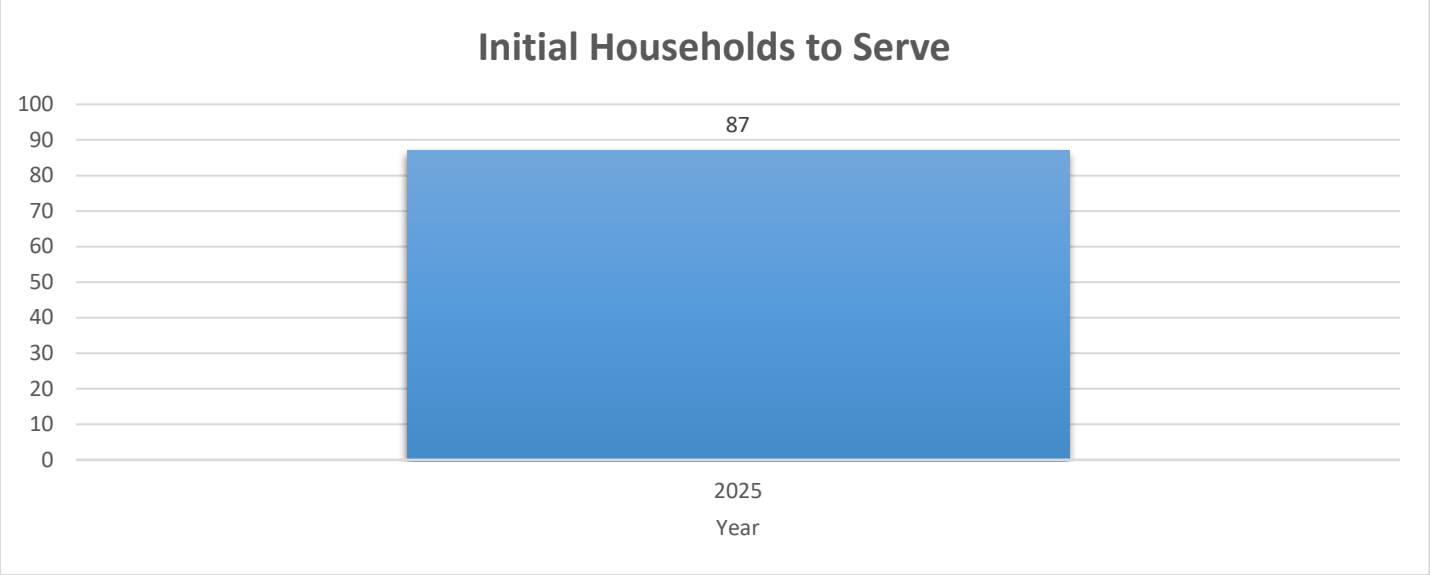
General Electrification



Planned electrification projects amounting to P7.08 million will be funded mostly by NEA which accounts for 100% of the total.

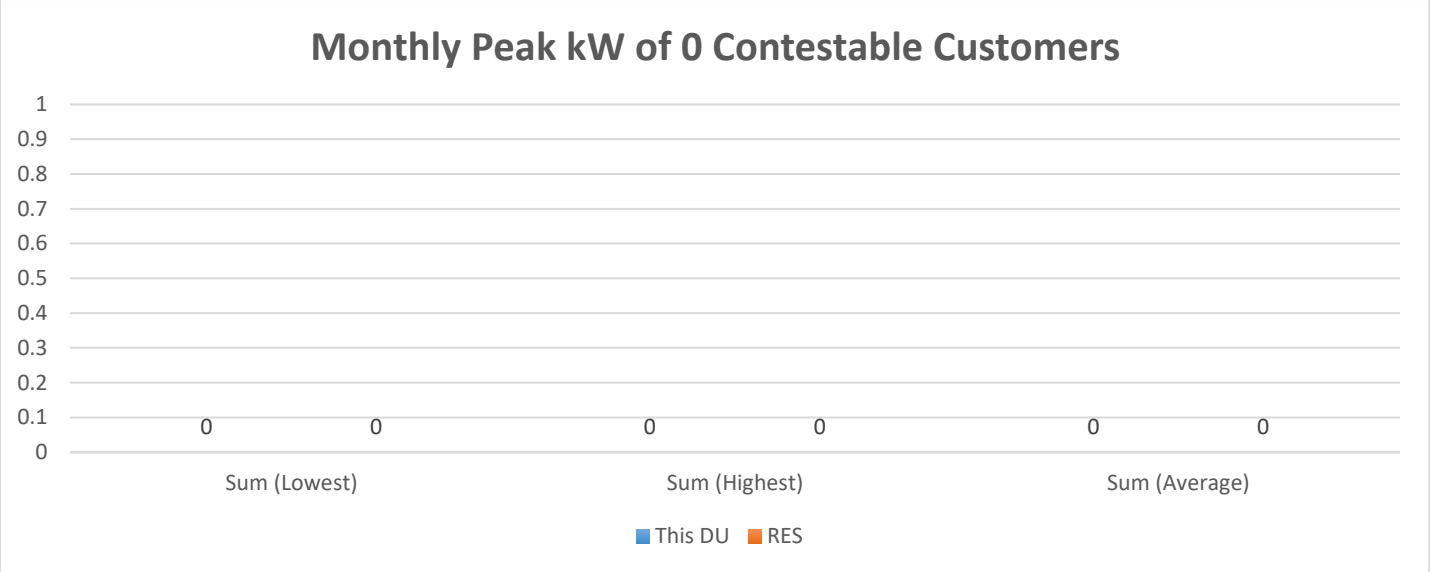


The areas of the 7 Sitios which are within the franchise area will be served by this cooperative.



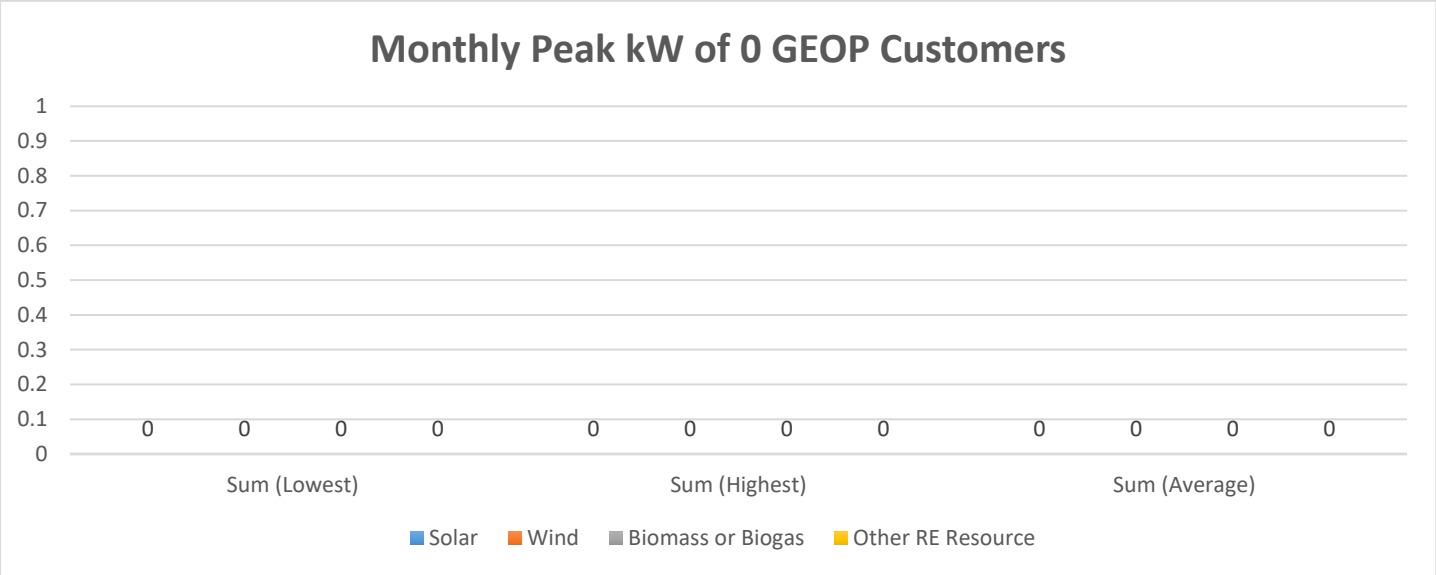
Most households to be served by electrification projects will be catered within this year 2025. The implementation of these projects is ongoing.

Contestable Customers



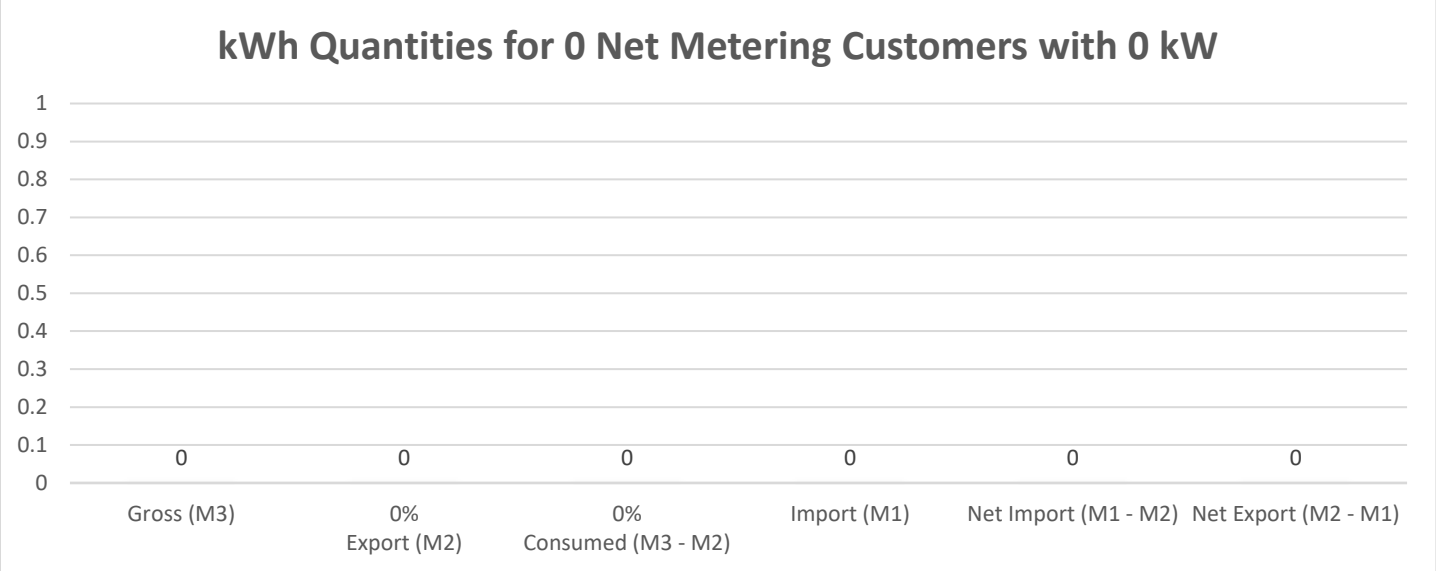
No Contestable Customer in PROSIELCO's franchise area.

GEOP Customers



PROSIELCO has no internal guidelines for GEOP customers because it is an off-grid EC.

Net Metering Customers



PROSIELCO has yet to formulate internal guidelines for net metering customers.

Historical Reliability Indices

Year	SAIFI	MAIFI	SAIDI (h)	CAIDI (h)
2024	105.01	8.23	71.70	0.63

For “Power Supplier” outages, the highest SAIFI is on year 2019.

Year	SAIFI	MAIFI	SAIDI (h)	CAIDI (h)
0	0	0	0	0.00

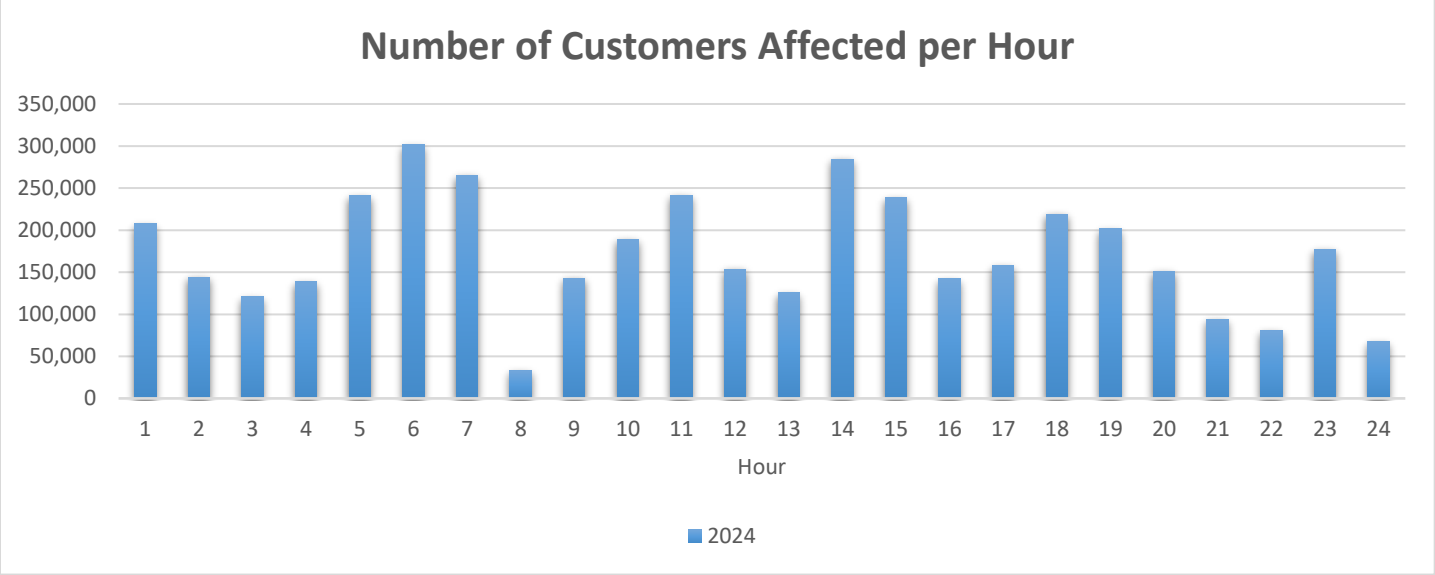
For 2024 there is no occurrence of “major storm disaster” outages.

Year	SAIFI	MAIFI	SAIDI (h)	CAIDI (h)
2024	4.78	0.00	19.88	4.16

For “Scheduled” outages, the highest SAIFI is on year 2014.

Year	SAIFI	MAIFI	SAIDI (h)	CAIDI (h)
2024	4.94	0.43	4.97	0.92

For all other outages, the indices are within ERC’s benchmarks.



The largest number of customer interruptions occurred at 6-hours or 6:00 AM which coincides with the peak period between 6:00 PM to 10:00 PM.