



2016-2025
DISTRIBUTION DEVELOPMENT PLAN

MESSAGE FROM THE SECRETARY

The Department of Energy recognizes the critical role of the distribution utilities in the energy sector to be able to deliver the best services to our electricity consumers at all times. We expect that these utilities continue to improve on their distribution development planning and complying with their responsibilities to provide the least cost supply of power to their captive customers.

This 2016-2025 DDP features the one-page infographic information to serve as baseline information on the current landscape of each distribution utility in the country. Each of them has their uniqueness in terms of geographic location, socio-economic status, distribution infrastructure configuration, and power supply portfolio or mix. These snap shots also provide information on investment opportunities to determine the potential power supply off-takers, as well as distribution infrastructure expansion, rehabilitation and upgrading.



ALFONSO G. CUSI
SECRETARY

The DOE fully supports the government's objective of inclusive growth through our programs and projects in the grid and off-grid areas towards greater energy access. As of December 2016, the country has reached 90.6% household electrification. However, we are still faced with greater challenges considering the remaining households are in the far-flung communities and in those areas with peace and order concerns. The DOE, in collaboration with other government agencies and private entities, are working to achieve the Administration's target of 100% household electrification by 2022.

Moving forward, the DOE has cascaded in the preparatory activities with the distribution utilities the 2017 DDP updating to integrate the various energy policy initiatives in their power development planning, giving equal importance to grid and off-grid areas. These include the optimal power supply mix, Competitive Selection Process (CSP), Retail Competition and Open Access (RCOA), Renewable Portfolio Standards (RPS), net metering and energy resiliency. In the long term, we aim to push the distribution utilities to undertake innovations and initiatives that will result to delivery of electric service to the consumers at par with their international counterparts.

The DOE acknowledges the support and cooperation of the National Electrification Administration and the electric distribution utilities in the process of coming up with this integrated 2016-2025 DDP.

Mabuhay tayong lahat!


ALFONSO G. CUSI
Secretary

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Executive Summary

The 2016-2025 DDP is presented in infographic showing the existing system map and distribution network of the distribution utilities (DUs) indicating its substation and corresponding substation capacities. It also include the 10-year outlook on the DUs' supply-demand requirements, basic information on their 2015 actual number of customers and energy sales for each customer type, system loss, percentage level of household energization, number of barangay in the franchise, length of distribution lines in circuit kilometer, franchise area in square kilometer and franchise population.

This DDP also featured the summary tables of the total number of metered customers, energy sales, energy purchased and peak demand. With regard to the number of customers, there were 17.7 million customers being served by the DUs in 2015. With an annual average growth rate (AAGR) of 3.87%, customer connection is seen to increase from 18.5 million in 2016 to 26.0 million in 2025. In terms of energy sales, DUs have sold a total of 56,393 GWh in 2015 which is forecasted to rise to 95,626 GWh by 2025 with an AAGR of 5.51% from its 2016 level. On the other hand, a total of 69,340 GWh was purchased by the DUs in 2015, which slightly increased to 73,103 GWh in 2016 and will continue to grow to 105,874 GWh by 2025 with an AAGR of 4.32%. For the peak demand, DUs registered a peak of 11,764 MW in 2015 which is projected to grow annually at 4.30% AAGR from 12,474 MW in 2015 to 17,914 MW in 2025.

To ensure reliability and security of electricity supply to the member-consumers, DUs are proposing the following infrastructure projects for the ten-year planning period: (i) 5,577 ckt-km for the expansion and rehabilitation of sub-

transmission lines; (ii) 34,233 ckt-km for the expansion and rehabilitation of distribution lines; and (iii) 16,375 MVA additional substation capacity. All these proposed capital expenditure projects will require Php968.41 billion for implementation, including the financing requirements for electrification projects, network and non-network projects.

2016-2025 DDP Summary Tables

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Table 1. Total Number of Metered Customers, 2015-2025

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	16,216,648	16,890,389	17,575,916	18,276,755	18,996,254	19,732,937	20,484,616	21,253,343	22,035,911	22,831,983	23,639,353
Commercial	1,172,910	1,221,791	1,264,435	1,309,219	1,356,611	1,406,472	1,458,355	1,512,772	1,569,357	1,628,579	1,689,497
Industrial	59,059	62,079	64,809	67,823	71,073	74,370	77,700	81,188	84,764	88,416	92,136
Others	321,500	344,770	363,385	383,626	405,428	427,900	451,656	476,752	503,218	530,949	558,606
Total	17,770,116	18,519,029	19,268,545	20,037,423	20,829,366	21,641,680	22,472,326	23,324,055	24,193,250	25,079,926	25,979,592

Table 2. Total Energy Sales, 2015-2025 (in MWh)

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Commercial	18,192,040	21,125,127	22,002,597	22,990,340	23,926,897	24,955,835	26,003,606	27,104,678	28,251,171	29,423,260	30,665,876
Industrial	13,485,765	19,950,894	20,362,338	21,113,220	22,023,797	22,548,022	23,522,780	24,524,869	25,575,334	26,630,745	27,807,608
Others	1,851,421	1,892,331	1,997,561	2,096,458	2,201,000	2,308,994	2,422,622	2,539,918	2,662,495	2,787,936	2,922,506
Residential	22,863,442	23,834,629	25,010,269	26,115,610	27,184,784	28,293,262	29,427,423	30,596,634	31,802,950	33,033,351	34,230,547
Total	56,392,668	66,802,981	69,372,764	72,315,628	75,336,478	78,106,113	81,376,431	84,766,099	88,291,950	91,875,291	95,626,537

Table 3. Energy Purchased by Grid, 2015-2025 (in MWh)

	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Luzon	51,986,753	54,296,197	56,431,112	58,861,085	61,189,083	63,643,099	66,125,502	68,716,716	71,423,126	74,168,239	76,699,813
Visayas	8,421,837	8,971,145	9,381,314	9,817,151	10,263,417	10,714,642	11,216,912	11,731,774	12,264,466	12,816,146	13,399,210
Mindanao	8,931,850	9,835,184	11,077,943	11,689,321	12,258,946	12,840,149	13,455,146	14,083,579	14,736,261	15,395,803	15,775,009
Total	69,340,440	73,102,526	76,890,369	80,367,558	83,711,446	87,197,890	90,797,560	94,532,069	98,423,854	102,380,188	105,874,032

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Table 4. Peak Demand by Region, 2015-2025 (in MW)

	Actual		Forecasted											
	2015		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025		
Luzon	8,630.07	9,087.00	9,467.52	9,877.07	9,877.07	10,263.06	10,648.55	11,075.00	11,499.76	11,943.58	12,369.04	12,876.06		
NCR	6,298.44	6,618.09	6,847.60	7,107.29	7,107.29	7,351.13	7,593.29	7,879.48	8,159.74	8,454.56	8,727.07	9,075.55		
CAR	92.07	92.73	96.95	101.19	101.19	105.45	109.73	114.04	118.38	122.74	127.12	131.53		
Region 1	361.14	373.94	393.66	412.18	412.18	430.50	449.55	469.15	489.23	509.79	530.83	552.32		
Region 2	341.88	362.55	393.15	418.72	418.72	444.05	469.46	495.08	521.06	547.30	574.33	602.47		
Region 3	883.81	947.06	1,007.05	1,066.42	1,066.42	1,116.80	1,165.72	1,209.44	1,255.29	1,303.62	1,353.63	1,405.71		
Region 4A	291.42	299.64	308.21	320.94	320.94	333.97	347.65	361.66	375.97	390.76	405.82	421.57		
Region 4B	127.34	140.32	152.08	164.31	164.31	177.03	190.11	203.52	217.21	231.11	245.21	259.49		
Region 5	233.96	252.67	268.83	286.03	286.03	304.13	323.03	342.64	362.88	383.69	405.01	427.41		
Visayas	1,533.98	1,625.73	1,690.22	1,763.24	1,763.24	1,835.24	1,909.15	1,986.82	2,066.99	2,148.40	2,233.80	2,324.46		
Region 6	498.34	526.49	546.76	569.92	569.92	589.57	608.97	628.44	647.91	667.58	687.29	708.14		
Region 7	850.70	902.99	939.04	980.64	980.64	1,024.69	1,070.83	1,121.26	1,172.30	1,225.83	1,283.20	1,344.51		
Region 8	184.94	196.26	204.41	212.68	212.68	220.98	229.36	237.12	246.78	254.99	263.31	271.81		
Mindanao	1,600.10	1,761.10	1,957.07	2,051.77	2,051.77	2,141.17	2,237.59	2,337.36	2,440.88	2,542.90	2,646.94	2,713.87		
Region 9	185.84	201.31	210.20	219.85	219.85	229.77	240.78	252.42	264.69	277.56	291.01	305.04		
Region 10	401.88	479.88	595.58	623.72	623.72	652.61	682.57	713.09	745.20	773.25	803.73	835.11		
Region 11	507.03	538.07	580.09	607.76	607.76	634.13	661.01	691.98	722.46	754.34	783.39	774.14		
Region 12	299.90	309.03	319.04	329.74	329.74	340.36	351.38	362.61	374.04	385.67	397.51	409.50		
CARAGA	148.65	160.57	172.19	182.77	182.77	193.51	206.92	218.73	230.99	244.21	257.65	271.03		
ARMM	56.82	72.25	79.96	87.94	87.94	90.78	94.92	98.52	103.50	107.88	113.64	119.05		
TOTAL	11,764.15	12,473.83	13,114.81	13,692.08	13,692.08	14,239.46	14,795.28	15,399.17	16,007.64	16,634.89	17,249.78	17,914.39		

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Table 5. Luzon Number of Metered Customers, 2015-2025

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	10,414,494	10,796,575	11,177,043	11,564,093	11,956,269	12,354,483	12,758,106	13,167,061	13,580,816	13,999,911	14,422,351
Commercial	797,223	826,520	851,809	877,774	904,563	932,322	961,125	990,828	1,021,705	1,053,846	1,086,840
Industrial	37,864	39,725	41,376	43,150	44,993	46,762	48,505	50,270	52,034	53,774	55,475
Others	165,574	180,266	190,232	200,794	211,951	222,858	234,250	246,112	258,484	271,385	283,338
Total	11,415,156	11,843,086	12,260,460	12,685,811	13,117,775	13,556,424	14,001,987	14,454,272	14,913,038	15,378,916	15,848,004

Table 6. Visayas Number of Metered Customers, 2015-2025

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	3,009,115	3,132,055	3,270,189	3,407,571	3,547,202	3,686,711	3,826,271	3,967,236	4,109,396	4,251,008	4,393,401
Commercial	161,989	168,499	173,946	179,216	184,927	190,717	196,755	203,045	209,431	215,996	222,823
Industrial	8,113	8,528	8,860	9,180	9,572	9,997	10,383	10,822	11,267	11,736	12,226
Others	66,627	70,065	73,168	76,601	80,393	84,554	89,035	93,941	99,310	105,067	111,409
Total	3,245,843	3,379,147	3,526,162	3,672,568	3,822,094	3,971,979	4,122,445	4,275,044	4,429,404	4,583,807	4,739,859

Table 7. Mindanao Number of Metered Customers, 2015-2025

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	2,793,038	2,961,759	3,128,684	3,305,092	3,492,783	3,691,743	3,900,239	4,119,046	4,345,699	4,581,064	4,823,601
Commercial	213,698	226,772	238,681	252,229	267,121	283,433	300,474	318,898	338,220	358,736	379,834
Industrial	13,082	13,826	14,573	15,493	16,509	17,611	18,811	20,095	21,464	22,906	24,435
Others	89,299	94,439	99,984	106,231	113,085	120,489	128,371	136,699	145,424	154,497	163,860
Total	3,109,117	3,296,796	3,481,923	3,679,045	3,889,497	4,113,276	4,347,894	4,594,739	4,850,807	5,117,203	5,391,729

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Table 8. Luzon Energy Sales, 2015-2025 (in MWh)

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	16,620,491	17,215,435	17,917,159	18,648,905	19,361,175	20,104,484	20,845,437	21,609,489	22,399,288	23,196,821	23,793,581
Commercial	15,416,239	18,160,311	18,769,440	19,590,719	20,368,137	21,235,399	22,110,992	23,032,378	23,988,734	24,959,133	25,942,201
Industrial	7,575,080	13,745,990	13,911,674	14,459,381	15,031,691	15,638,855	16,263,893	16,916,248	17,607,316	18,313,260	19,051,483
Others	912,613	945,857	997,435	1,044,234	1,097,980	1,154,179	1,211,661	1,270,936	1,331,657	1,393,806	1,435,181
Total	40,524,422	50,067,592	51,595,707	53,743,238	55,858,983	58,132,918	60,431,983	62,829,051	65,326,995	67,863,020	70,222,446

Table 9. Visayas Energy Sales, 2015-2025 (in MWh)

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	3,074,991	3,225,830	3,390,658	3,563,018	3,735,955	3,912,917	4,107,783	4,305,866	4,506,995	4,712,443	5,074,109
Commercial	1,401,385	1,464,203	1,527,441	1,596,031	1,667,004	1,740,192	1,817,022	1,894,750	1,974,934	2,058,088	2,189,494
Industrial	2,746,494	2,563,609	2,200,220	2,156,878	2,268,694	1,958,369	2,070,954	2,189,625	2,318,059	2,454,860	2,671,267
Others	541,431	519,231	542,637	565,843	590,127	614,018	639,451	664,674	690,379	716,121	768,237
Total	7,764,301	7,772,874	7,660,956	7,881,769	8,261,780	8,225,497	8,635,210	9,054,913	9,490,368	9,941,512	10,703,107

Table 10. Mindanao Energy Sales, 2015-2025 (in MWh)

Customer Classification	Actual	Forecasted									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential	3,167,960	3,393,365	3,702,452	3,903,688	4,087,654	4,275,860	4,474,204	4,681,279	4,896,666	5,124,087	5,362,857
Commercial	1,374,416	1,500,613	1,705,717	1,803,590	1,891,757	1,980,244	2,075,592	2,177,550	2,287,503	2,406,038	2,534,181
Industrial	3,164,191	3,641,294	4,250,444	4,496,961	4,723,412	4,950,798	5,187,932	5,418,997	5,649,959	5,862,624	6,084,858
Others	397,378	427,242	457,488	486,381	512,892	540,797	571,510	604,308	640,459	678,009	719,088
Total	8,103,944	8,962,514	10,116,101	10,690,620	11,215,715	11,747,699	12,309,237	12,882,135	13,474,587	14,070,759	14,700,984

Distribution Utilities in the Philippines

NCR

- CAR

- ## REGION III

- ## REGION IV-A

- MIMAROPA**

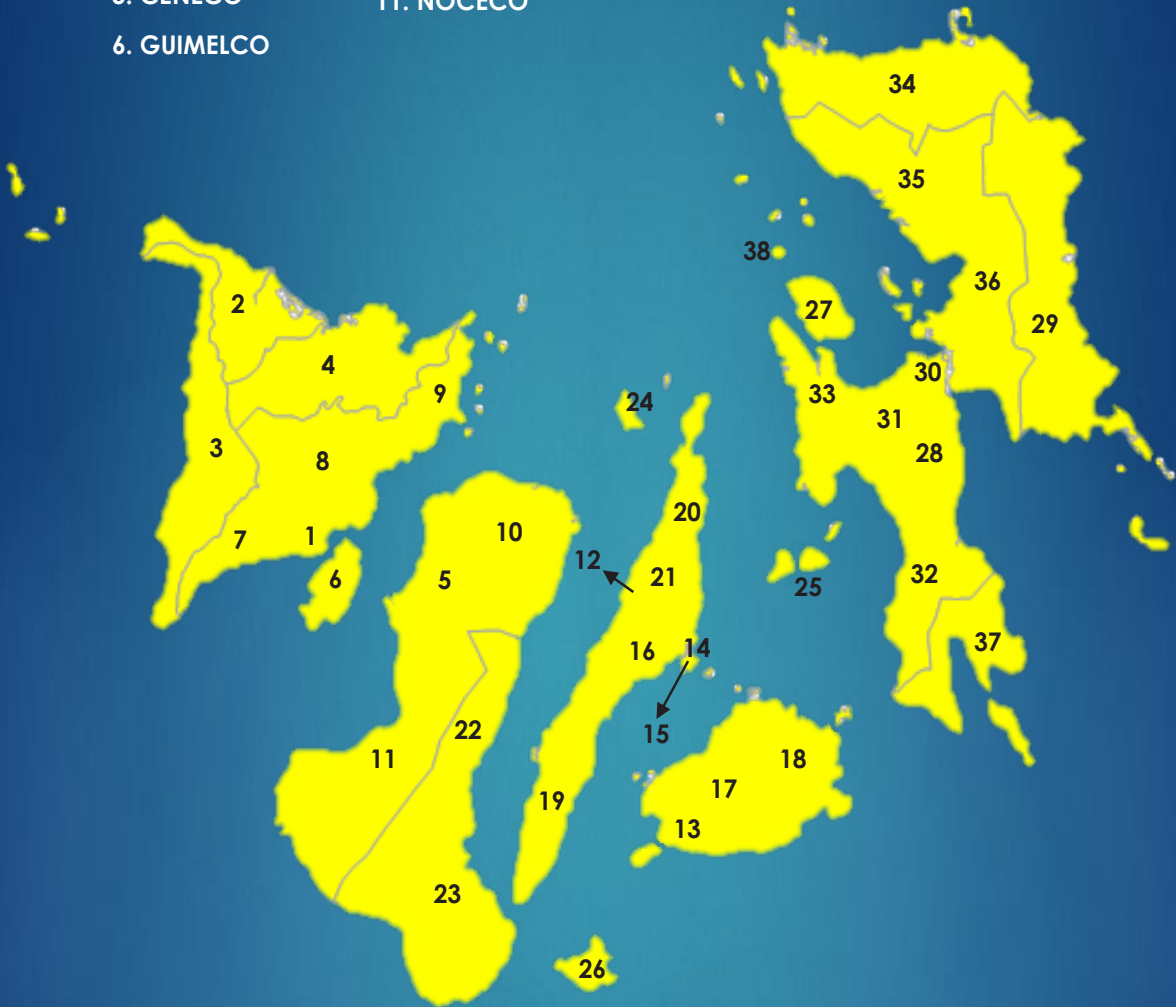
- ## REGION V

63. ALECO
64. CANORECO
65. CASURECO I
66. CASURECO II
67. CASURECO III
68. CASURECO IV
69. SORECO I
70. SORECO II
71. FICELCO
72. MASELCO
73. TISELCO

REGION VI

- | | |
|-------------|--------------|
| 1. PECO | 7. ILECO I |
| 2. AKELCO | 8. ILECO II |
| 3. ANTECO | 9. ILECO III |
| 4. CAPELCO | 10. NONECO |
| 5. CENECO | 11. NOCECO |
| 6. GUIMELCO | |

VISAYAS



REGION VII

- | | |
|---------------|----------------|
| 12. BEZ | 20. CEBECO II |
| 13. BLCI | 21. CEBECO III |
| 14. MECO | 22. NORECO I |
| 15. MEZ | 23. NORECO II |
| 16. VECO | 24. BANELCO |
| 17. BOHECO I | 25. CELCO |
| 18. BOHECO II | 26. PROSIELCO |
| 19. CEBECO I | |

REGION VIII

- | | |
|----------------|----------------|
| 27. BILECO | 33. LEYECO V |
| 28. DORELCO | 34. NORSAMELCO |
| 29. ESAMELCO | 35. SAMELCO I |
| 30. LEYECO II | 36. SAMELCO II |
| 31. LEYECO III | 37. SOLECO |
| 32. LEYECO IV | 38. MMPC |



System Map of Distribution Utilities Per Region



MANILA ELECTRIC COMPANY (MERALCO)

Number of Barangays: 4,298
Grid: 6,768,173 HH / 6,958,185 HH
Off-grid: 36

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	5,295,458	11,116,664
Commercial	472,322	12,535,211
Industrial	9,570	5,253,633
Others	4,495	188,221
TOTAL	5,781,845	29,093,729

Franchise Area: 9,337.5 sq. km.

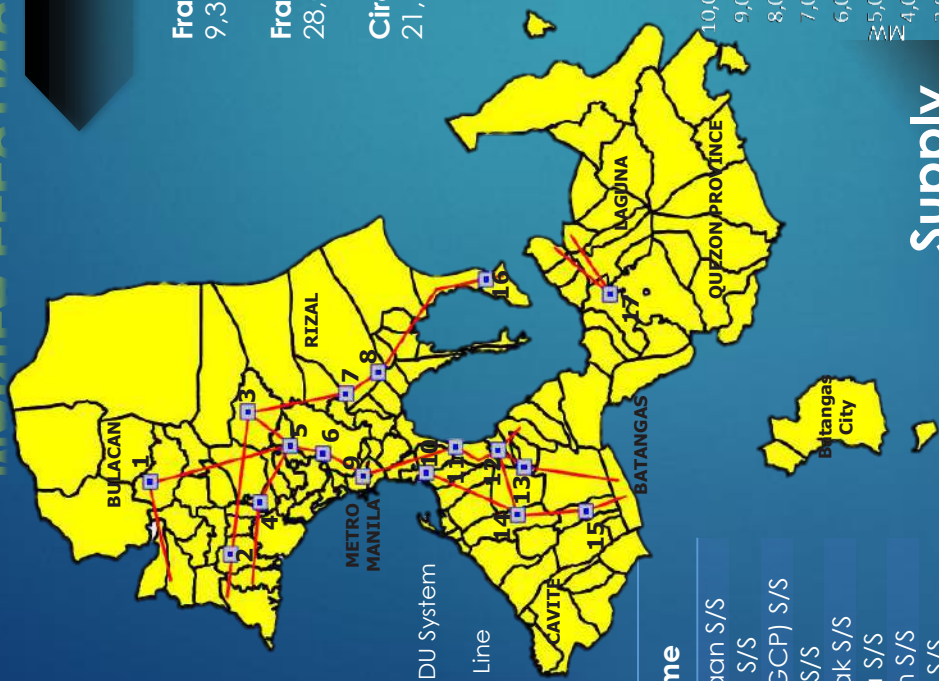
Franchise Population: 28,003,919

Circuit kilometer: 21,825

Customer/s Served by RES: 360
Sales for Customer/s served by RES: 7,526,041 MWh

System Loss: 2,534,635 MWh (6.47%)

Demand Annual Average Growth Rate (2016-2025) : 3.72%



LEGEND:

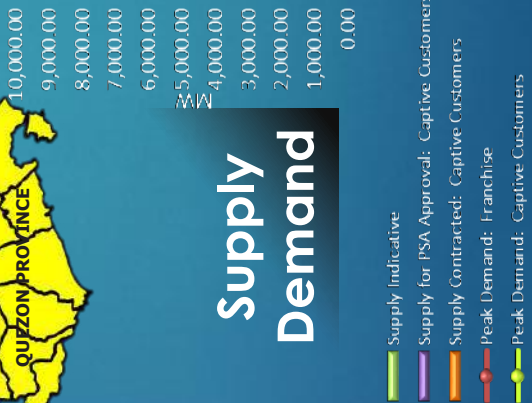
 Energized DU System

 Substation

 Backbone Line

No.	SS Name
1	Cruz na Daan S/S
2	Matolos S/S
3	San Jose (NGCP) S/S
4	Duhart S/S
5	Balintawak S/S
6	Araneta S/S
7	Santolan S/S
8	Dolores S/S
9	Paco S/S
10	Zapote S/S
11	Sucat S/S
12	Biñan S/S
13	Sta. Rosa S/S
14	Dasmariñas S/S
15	Amadeo S/S
16	Malaya S/S
17	Calauan S/S

Supply Demand



CAR

	Distribution Utility	Peak Demand (MW)
1	BENECO	73.82
2	ABRECO	8.89
3	MOPRECO	4.78
4	IFELCO	4.57
5	Kaelco	-
Total		92.07



Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	294,653	159,852
Commercial	15,836	9,294
Industrial	446	42,646
Others	7,435	260,009
Total	318,370	471,801

BENGUET ELECTRIC COOPERATIVE, INC. (BENECO)

Number of Barangays: Status of Household Energization:
Grid: 269 89% (169,708 HH / 190,700 HH)
Off-grid: -

Franchise Area:
2,664 sq. km.

Franchise Population:
170,749

Circuit kilometer:
11.8



LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

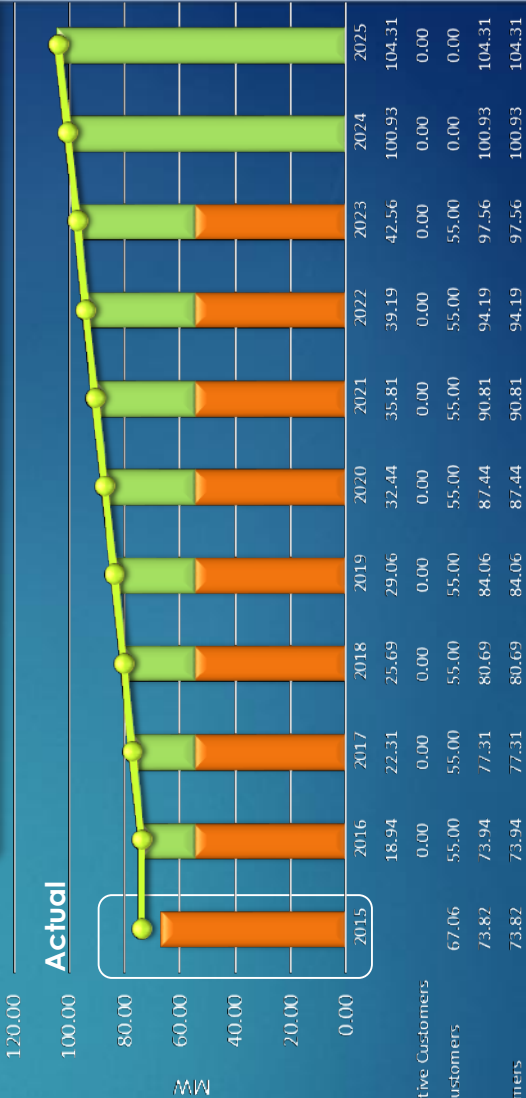
No.	SS Name	SS Capacity
1	Bulalacao S/S	3 MVA
2	Atok S/S	5 MVA
3	Lamut S/S	30 MVA
4	NSC S/S	100 MVA
5	Irisan S/S	20 MVA

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	157,480	191,684
Commercial	10,809	146,702
Industrial	25	1,786
Others	2,435	26,518
TOTAL	170,749	366,690

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 38,481 MWh (9.50 %)

Demand Annual Average Growth Rate (2016-2025) : 3.52 %



IFUGAO ELECTRIC COOPERATIVE, INC. (IFELCO)

Franchise Area:
2,567 sq. km.

Franchise Population:
191,078

Circuit kilometer:
718.3



Number of Barangays: Status of Household Energization:
Grid: 173 87.6 % (35,394 HH / 40,400 HH)
Off-grid: 2

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	29,057	10,962
Commercial	1,292	2,996
Industrial	93	1,054
Others	1,505	3,029
TOTAL	31,947	18,041

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 2,692 MWh (12.98 %)

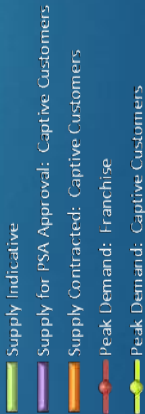
Demand Annual Average Growth Rate (2016-2025) : 5.78 %

LEGEND:

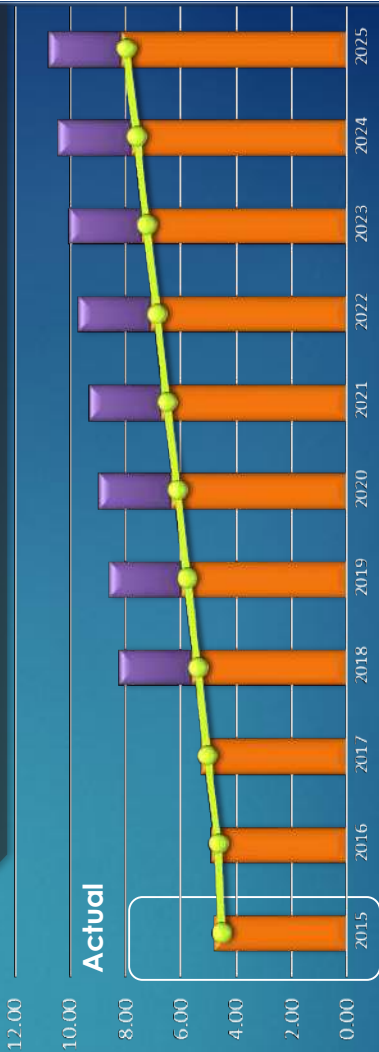


Energized DU System
Substation
Backbone Line

Supply
Demand

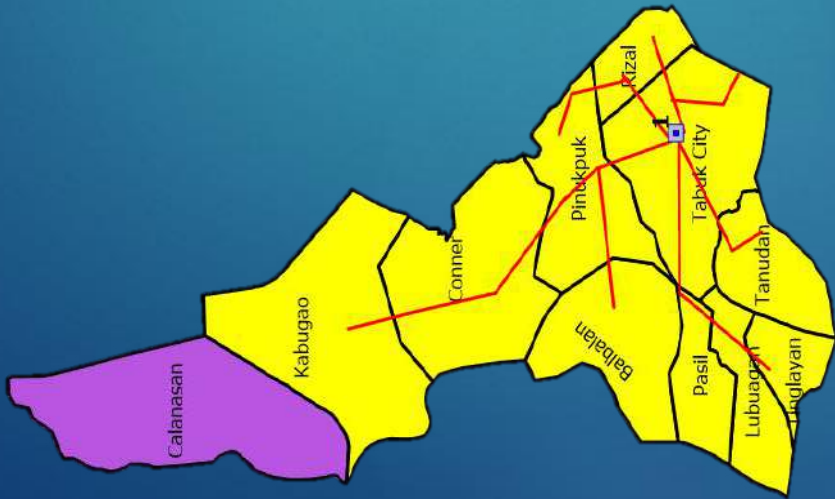


No.	SS Name	SS Capacity
1	Laggwe S/S (NGCP)	5 MVA
2	Alfonso Vista S/S	5 MVA



KALINGA-APAYAO ELECTRIC COOPERATIVE, INC. (KAELCO)

Number of Barangays: Status of Household Energization:
Grid: 269 82.8 % (43,205 HH / 52,200 HH)
Off-grid: -



Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	34,534	19,310
Commercial	823	2,883
Industrial	53	2,037
Others	981	3,827
TOTAL	36,391	28,057

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 38,481 MWh (9.50 %)

Demand Annual Average Growth Rate (2016-2025) : 3.52 %

Franchise Area:
2,664 sq. km.

Franchise Population:
170,749

Circuit kilometer:
11.8

LEGEND:

- Energized DU System
- Energized by other system
- Substation
- Backbone Line

No.	SS Name	SS Capacity
1	Bulanao S/S	10 MVA

MOUNTAIN PROVINCE ELECTRIC COOPERATIVE, INC. (MOPRECO)

Number of Barangays: Status of Household Energization:
Grid: 144 88.3 % (34,269 HH / 38,800 HH)
Off-grid: -



Franchise Area:
229.23 sq. km.
Franchise Population:
140,439
Circuit kilometer:
139

LEGEND:

- Energized DU System
- Substation
- Backbone Line

Supply Demand

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

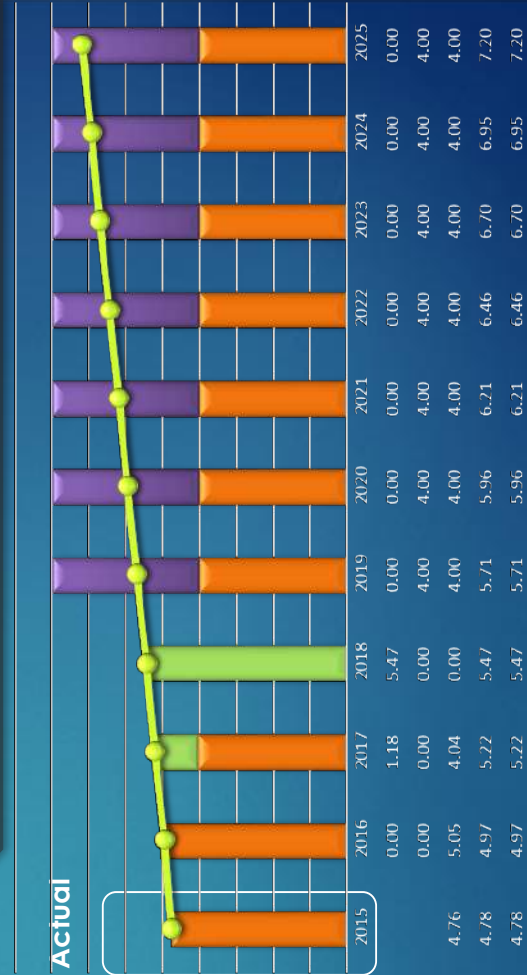
No.	SS Name	SS Capacity
1	Sagada S/S	2.5 MVA
2	Bauko S/S	2.5 MVA

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	32,849	9,994
Commercial	1,420	2,631
Industrial	0	0
Others	1,173	4,519
TOTAL	35,442	17,145

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 2,183 MWh (11.89 %)

Demand Annual Average Growth Rate (2016-2025) : 4.17 %



ABRA ELECTRIC COOPERATIVE, INC. (ABRECO)

Number of Barangays: Status of Household Energization:
Grid: 303 86.3 % (49,510 HH / 57,400 HH)
Off-grid: -

Franchise Area:
3,978 sq. km.

Franchise Population:
658,587

Circuit kilometer:
55.4



LEGEND:



Energized DU System
Substation
Backbone Line

No.	SS Name	SS Capacity
1	Bangued S/S	2X5 MVA

Demand Annual Average Growth Rate (2016-2025) : 3.07 %



Region I

	Distribution Utility	Peak Demand (MW)
1	INEC	50.59
2	ISECO	46.08
3	LUELCO	37.02
4	LUECO	28.94
5	PANELCO III	54.58
6	DECORP	61.05
7	CENPELCO	62.09
8	PANELCO I	20.79
Total		361.14



Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	929,277	496,345
Commercial	60,113	153,936
Industrial	1,077	112,901
Others	25,401	979,675
Total	1,015,868	1,742,858

DAGUPAN ELECTRIC CORPORATION (DECORP)

Number of Barangays: Status of Household Energization:
Grid: 165 83.9 % (112,248 HH / 133,838 HH)
Off-grid: -

Franchise Area:
349 sq. km.

Franchise Population:
574,359

Circuit kilometer:
623.9



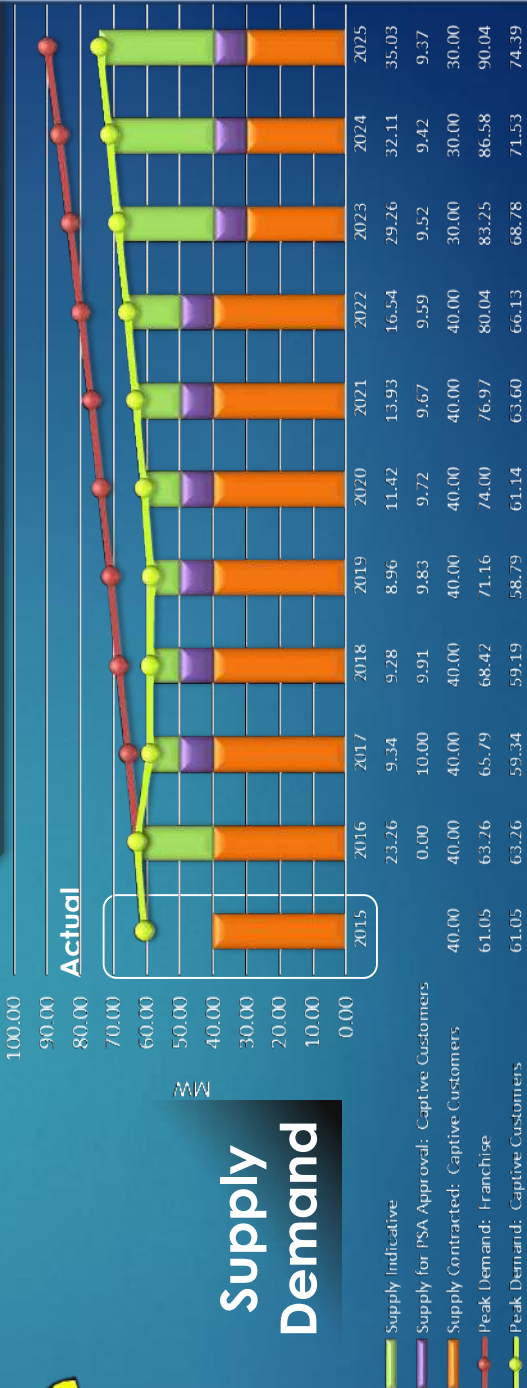
LEGEND:



Energized DU System
Substation
Backbone Line

No.	SS Name	SS Capacity
1	San Jacinto S/S	2 X 15/20 MVA
2	Dagupan S/S	2 X 20/25 MVA
3	Calasiao S/S	2 X 20/27/33 MVA

Demand Annual Average Growth Rate (2016-2025) : 3.96 %



LA UNION ELECTRIC COMPANY, INC. (LUECO)



LEGEND:



Energized DU System Substation Backbone Line

No.	SS Name	SS Capacity
1	Poro S/S	35 MVA
2	Bauang S/S	27.5 MVA

Number of Barangays: Status of Household Energization: 98.3 % (49,118 HH / 49,961 HH)
Grid: 139
Off-grid: -

Franchise Area: 233.01 sq. km.

Franchise Population: 272,846

Circuit kilometer: 623.9

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	37,979	62,507
Commercial	4,742	53,877
Industrial	18	18,056
Others	57	7,913
TOTAL	42,796	142,354

Customer/s Served by RES: Sales for Customer/s served by RES:

System Loss: 13,727 MWh (8.79 %)

Demand Annual Average Growth Rate (2016-2025) : 2.91 %



- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

CENTRAL PANGASINAN ELECTRIC COOPERATIVE, INC. (CENPELCO)

Number of Barangays: Status of Household Energization:
Grid: 553 97.9 % (221,156 HH / 225,900 HH)
Off-grid: -



Franchise Area:
1,632 sq. km.

Franchise Population:
225,900

Circuit kilometer:
2,354.7

LEGEND:



No.	SS Name	SS Capacity
1	San Carlos S/S	20 MVA
2	Bugallon S/S	10 MVA
3	Bayambang S/S	10 MVA
4	Mangaldan Guilig S/S	15 MVA
5	Mangaldan Bari S/S	5 MVA
6	Lingayen S/S	2 X 5 MVA
7	Malasiqui S/S	2 X 5 MVA
8	Labrador S/S	10 MVA
9	Binmaley S/S	7.5 MVA
10	Mangatarem S/S	10 MVA
11	Urbiztondo S/S	5 MVA
12	Bautista S/S	10 MVA



Demand Annual Average Growth Rate (2016-2025) : 2.76 %

System Loss: 36,861 MWh (11.46 %)

Customer/s Served by RES:
Sales for Customer/s served by RES:

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	178,541	186,979
Commercial	8,884	64,872
Industrial	117	5,802
Others	2,808	27,003
TOTAL	190,350	284,656

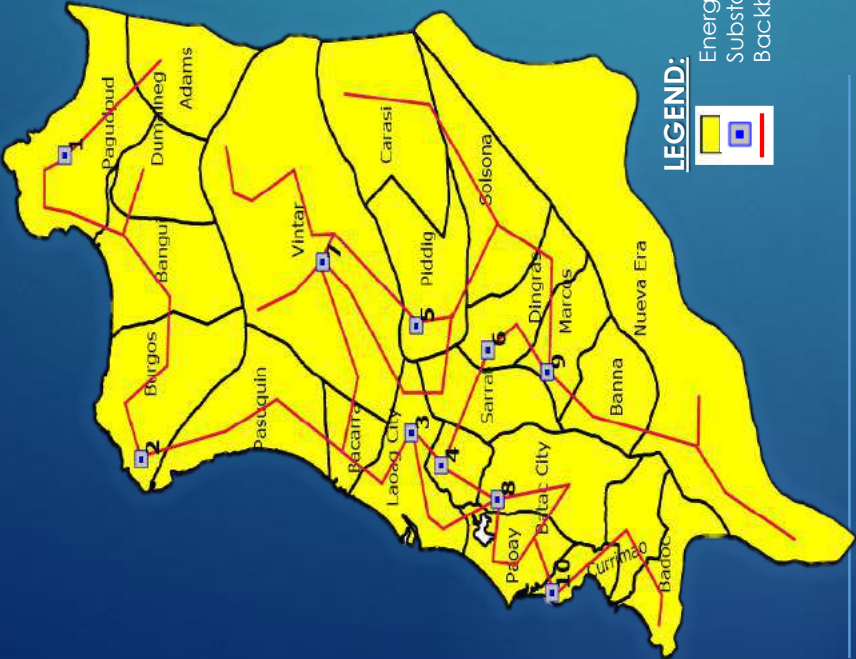
ILOCOS NORTE ELECTRIC COOPERATIVE, INC. (INEC)

Number of Barangays: Status of Household Energization:
Grid: 557 93.0 % (153,503 HH / 165,100 HH)
Off-grid: -

Franchise Area:
1,504 sq. km.

Franchise Population:
568,017

Circuit kilometer:
2,421.7



LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

No.	SS Name	SS Capacity
1	MHPP Pagudpud S/S	2 MVA
2	Burgos S/S	10 MVA
3	Laoag S/S	10 MVA
4	San Nicolas S/S	15 MVA
5	Piddig S/S	5 MVA
6	Dingras S/S	5 MVA
7	Vintar Road S/S	2 X 10 MVA
8	Batac S/S	10 MVA
9	Marcos S/S	5 MVA
10	Curimaos S/S	2 X 5 MVA

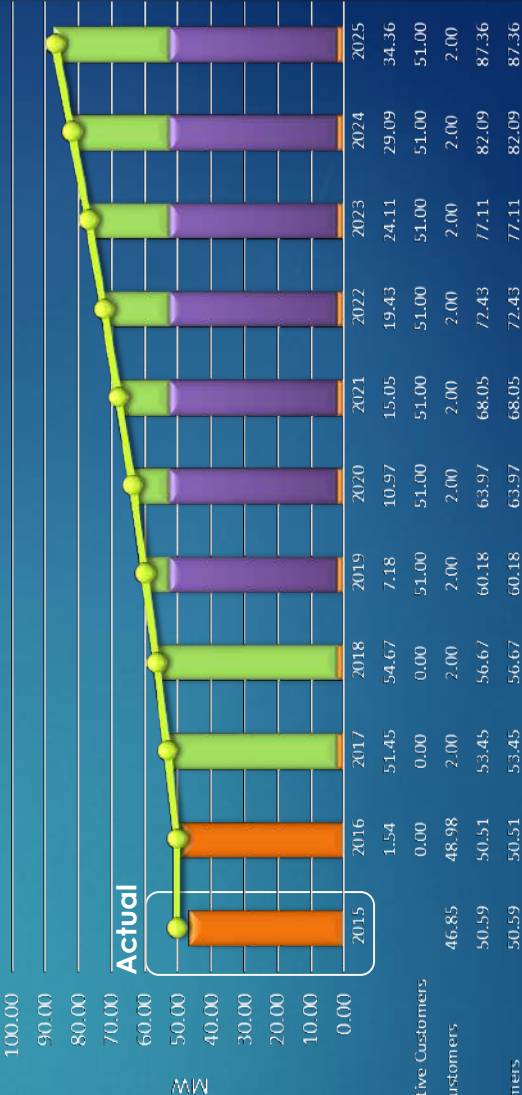
- Supply Indicative
- Supply for PSA Approved: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	132,346	126,385
Commercial	10,151	98,001
Industrial	13	5,013
Others	12,982	12,137
TOTAL	155,492	241,537

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 31,371 MWh (11.50 %)

Demand Annual Average Growth Rate (2016-2025) : 5.63 %



ILOCOS SUR ELECTRIC COOPERATIVE, INC. (ISECO)

Franchise Area:
2,596 sq. km.

Franchise Population:
658,587

Circuit kilometer:
1,389.7

Number of Barangays: 91.8 % (172,167 HH / 187,500 HH)
Grid: 768
Off-grid: -

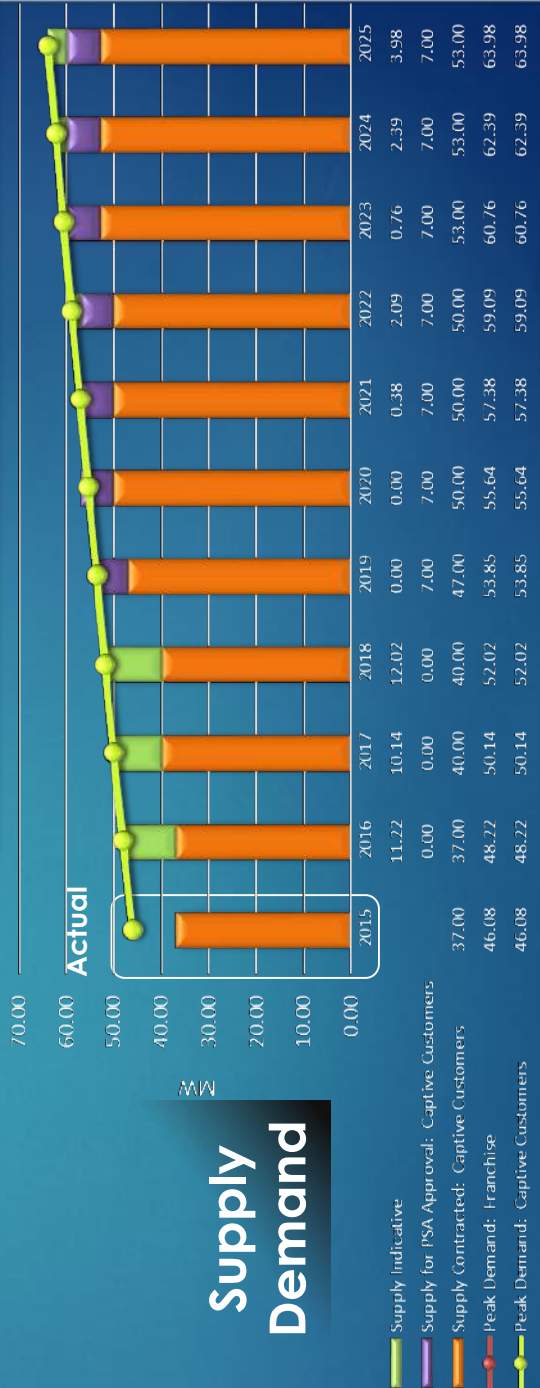
Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	150,927	145,899
Commercial	7,558	55,113
Industrial	55	6,882
Others	3,615	22,860
TOTAL	162,155	230,754

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 26,941 MWh (10.45 %)

No.	SS Name	SS Capacity
1	Sto. Domingo S/S	10 MVA
2	Vigas S/S	25 MVA
3	Navacan S/S	10 MVA
4	Santiago S/S	5 MVA
5	Candon S/S	15 MVA

Demand Annual Average Growth Rate (2016-2025) : 3.34 %



LEGEND:



Energized DU System
Substation
Backbone Line

LA UNION ELECTRIC COOPERATIVE, INC. (LUELCO)

Number of Barangays:

Grid: 536

Off-grid: -

Status of Household Energization:

94.5 % (135,170 HH / 143,000 HH)

No.	SS Name	SS Capacity	Customer Classification	Captive Customer Connection	Sales (MWh)
1	Balaoan S/S	10 MVA	Residential	116,508	108,706
2	Bacnotan S/S	10 MVA	Commercial	4,489	22,178
3	Naguilian S/S	15 MVA	Industrial	90	20,642
4	Aringay S/S	15 MVA	Others	2,389	14,257
5	Damortis S/S	10 MVA			
6	Alacan S/S	5 MVA			
TOTAL			123,476	165,785	

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 20,339 MWh (10.93 %)

Demand Annual Average Growth Rate (2016-2025) : 7.62 %



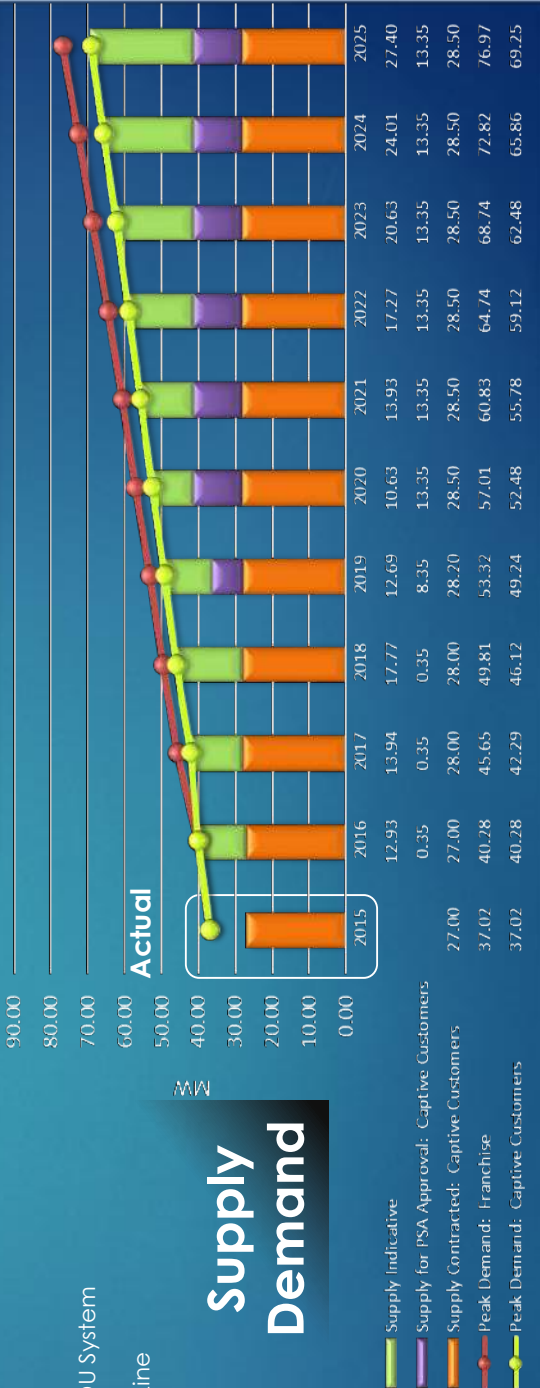
LEGEND:

Energized DU System

Substation

Backbone Line

Supply Demand



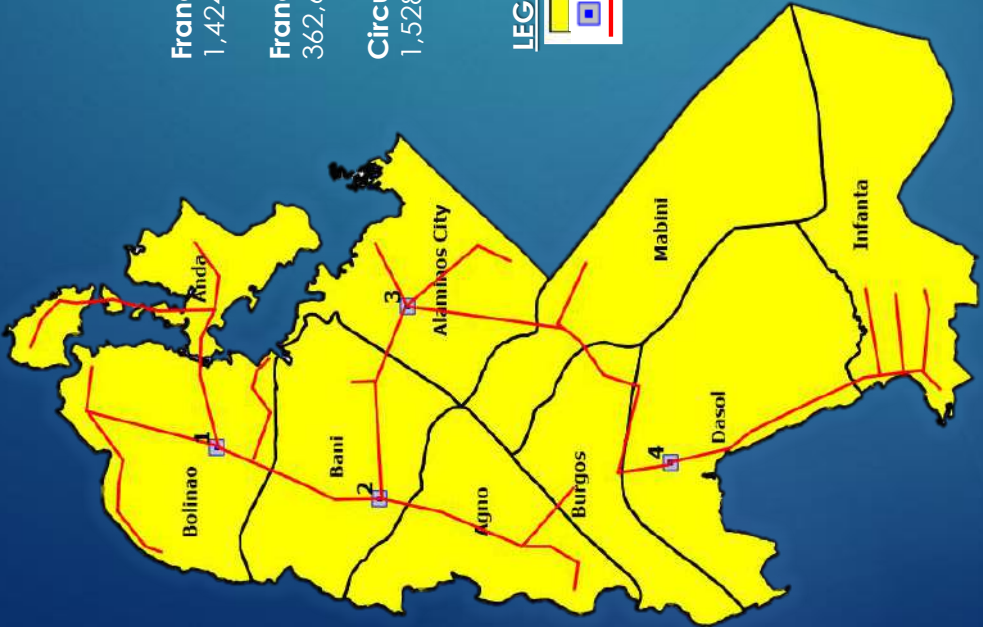
PANGASINAN I ELECTRIC COOPERATIVE, INC. (PANELCO I)

Number of Barangays: Status of Household Energization:
Grid: 190 95.2 % (76,274 HH / 80,100 HH)
Off-grid: 2

Franchise Area:
1,424 sq. km.

Franchise Population:
362,619

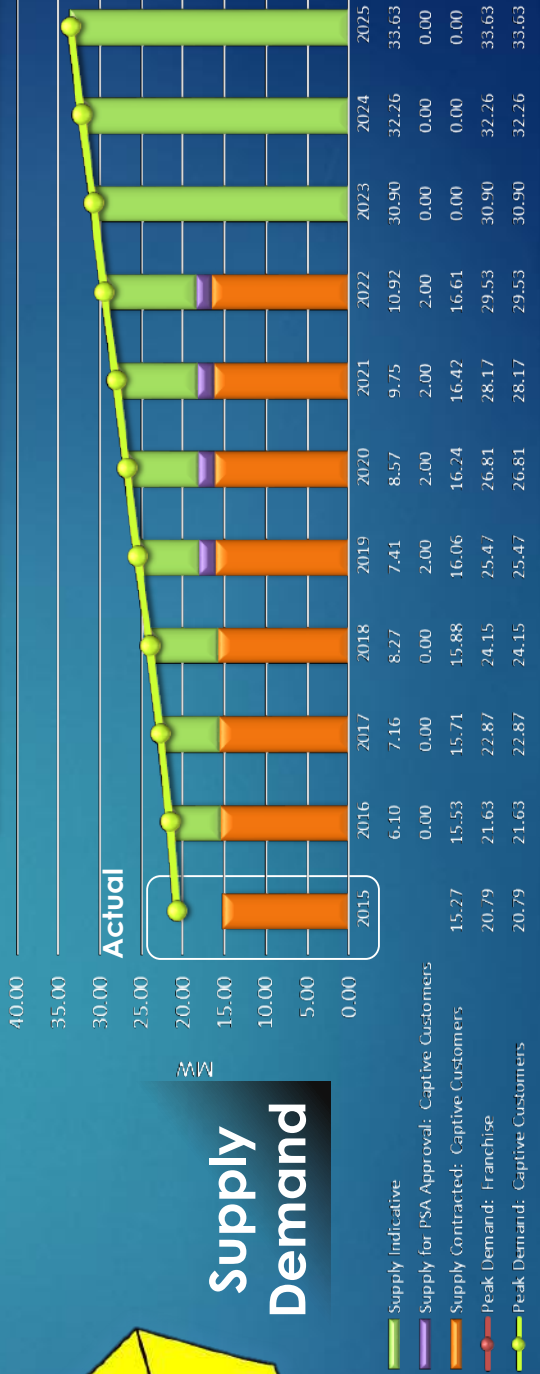
Circuit kilometer:
1,528.4



LEGEND:

- Energized DU System
- Substation
- Backbone Line

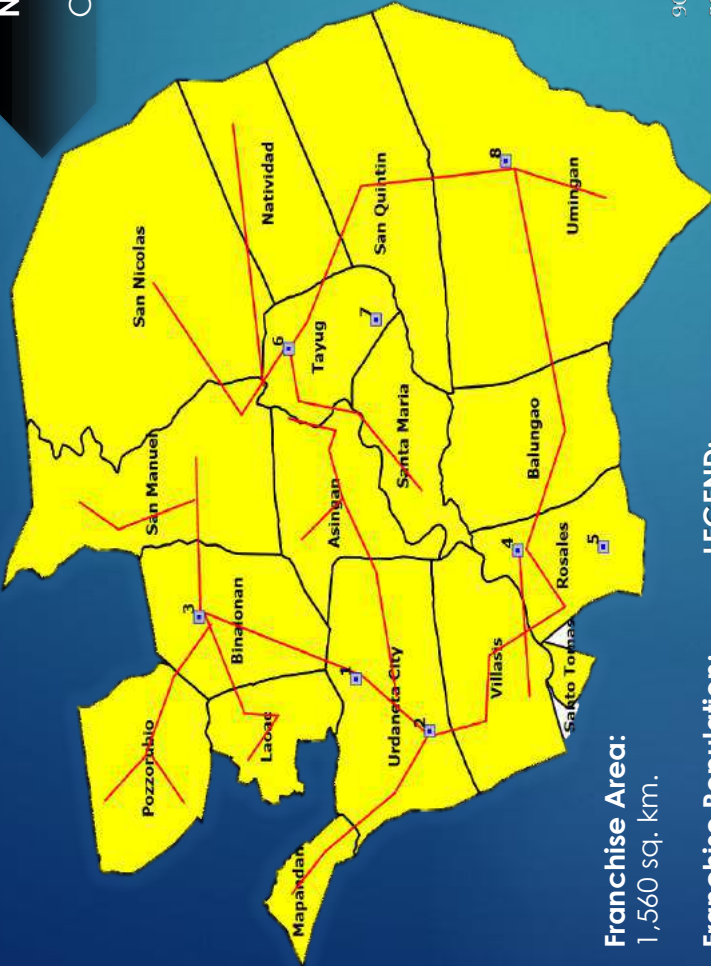
Demand Annual Average Growth Rate (2016-2025) : 4.93 %



No.	SS Name	SS Capacity
1	Tara Bolinao S/S	10 MVA
2	San Jose, Bani S/S	5 MVA
3	Palamis Alaminos S/S	15 MVA
4	Bobonot Dasol S/S	10 MVA

PANGASINAN III ELECTRIC COOPERATIVE, INC. (PANELCO III)

Number of Barangays: Status of Household Energization:
Grid: 421 95.5 % (166,961 HH / 174,800 HH)
Off-grid: -



Franchise Area:
1,560 sq. km.

Franchise Population:
198,889

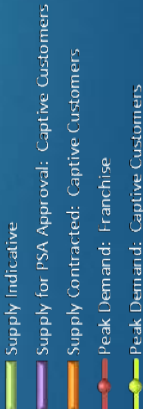
Circuit kilometer:
1,040.0

LEGEND:



Supply Demand

No.	SS Name	SS Capacity
1	Urdaneta I S/S	20 MVA
2	Urdaneta II S/S	30 MVA
3	Binalonan S/S	25 MVA
4	Rosales I S/S	15 MVA
5	Rosales II S/S	15 MVA
6	Tayug I S/S	5 MVA
7	Tayug II S/S	10 MVA
8	Umingan S/S	5 MVA

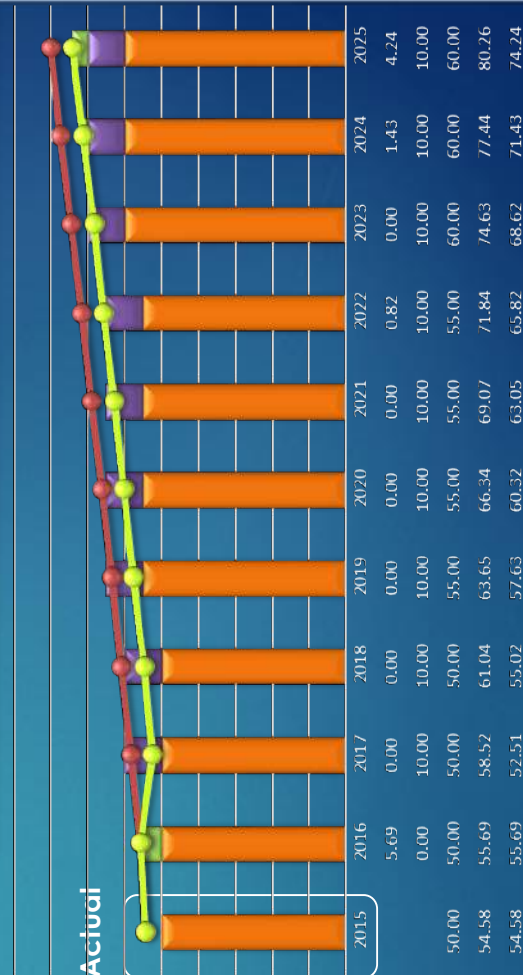


Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	152,421	155,084
Commercial	11,960	85,654
Industrial	590	23,024
Others	1,994	19,345
TOTAL	166,965	283,106

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 14,150 MWh (12.99 %)

Demand Annual Average Growth Rate (2016-2025) : 3.93 %



Region II

	Distribution Utility	Peak Demand (MW)
1	BATANELCO	1.70
2	CAGELCO II	29.26
3	CAGELCO I	45.35
4	ISELCO II	36.39
5	ISELCO I	72.00
6	QUIRELCO	7.61
7	NUVELCO	22.65
Total		214.94



Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	625,486	221,939
Commercial	32,244	140,677
Industrial	1,661	96,415
Others	22,297	483,906
Total	681,688	942,936

CAGAYAN I ELECTRIC COOPERATIVE, INC. (CAGELCO I)

Number of Barangays: Status of Household Energization: 96.1 % (133,021 HH / 138,400 HH)
Grid: 379
Off-grid: 7

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	113,201	94,145
Commercial	8,493	70,151
Industrial	63	1,011
Others	3,362	33,588
TOTAL	125,119	198,895

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 25,120 MWh (11.21 %)

Demand Annual Average Growth Rate (2016-2025) : 6.65 %



LEGEND:



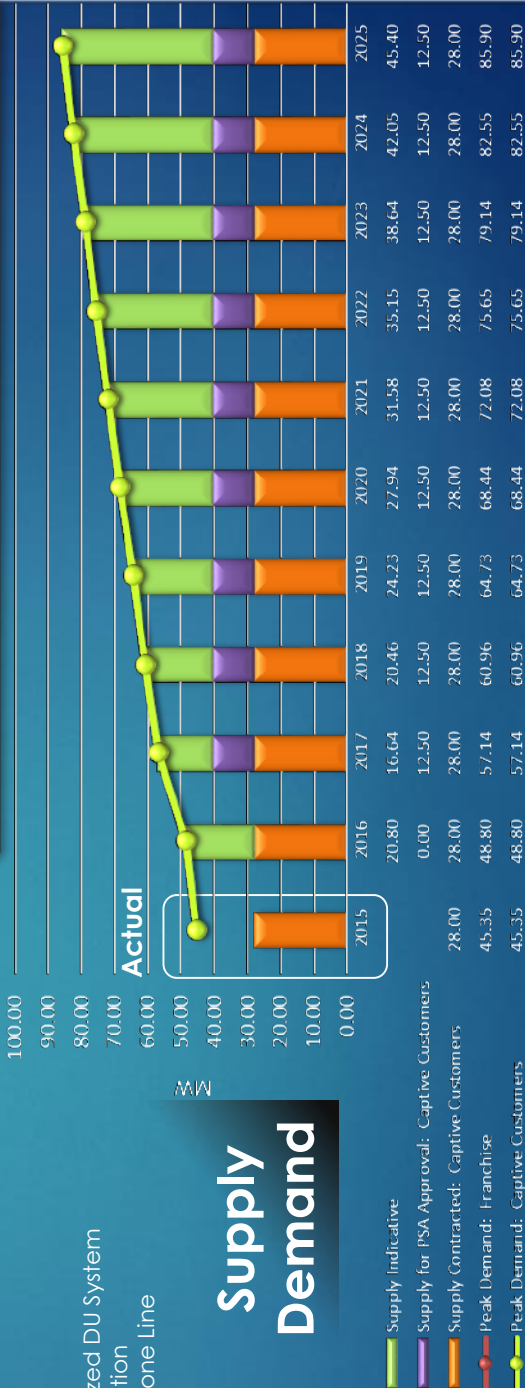
Franchise Area:
4,207 sq. km.

Franchise Population:
593,371

Circuit kilometer:
3,001.3

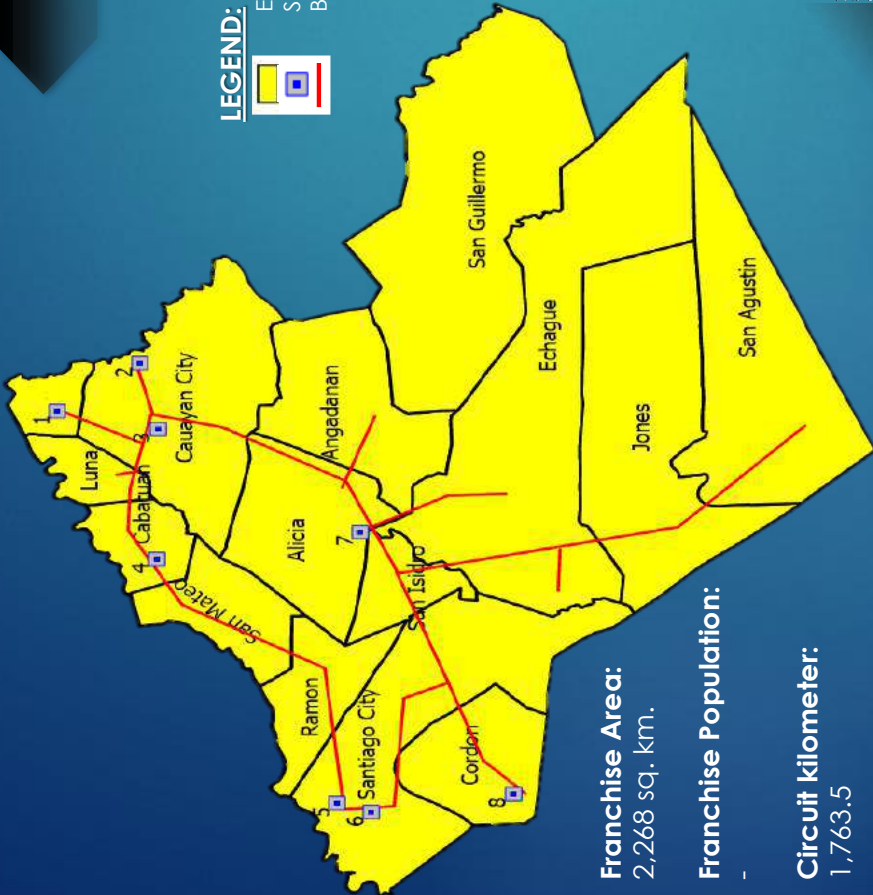
No.	SS Name	SS Capacity
1	Piat S/S	10 MVA
2	Alcala S/S	5 MVA
3	Solana S/S	15 MVA
4	Tuguegarao S/S (NGCP)	15 MVA
5	Carig S/S	10 MVA

Supply Demand



ISABELA I ELECTRIC COOPERATIVE, INC. (ISELCO I)

Number of Barangays: Status of Household Energization:
Grid: 484 98.6 % (194,839 HH / 197,700 HH)
Off-grid: -



LEGEND:



Energized DU System
Substation
Backbone Line

Franchise Area:

2,268 sq. km.

Franchise Population:

-

Circuit kilometer:

1,763.5

No.	SS Name	SS Capacity
1	Reina Mercedes S/S	10 MVA
2	Cauayan S/S	20 MVA
3	Cauayan S/S (NGCP)	10 MVA
4	Cabatuan S/S	5 MVA
5	Santiago S/S (NGCP)	20 MVA
6	Santiago Batal S/S	15 MVA
7	Alicia S/S	15 MVA
8	Cordon S/S	10 MVA

Supply Demand

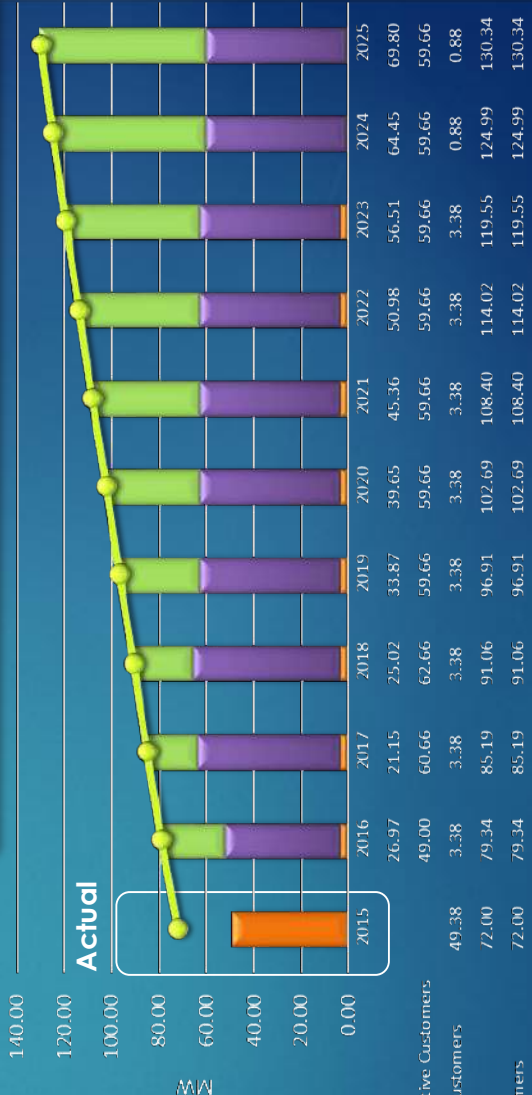
- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	159,450	140,086
Commercial	10,347	91,487
Industrial	316	66,988
Others	10,242	23,900
TOTAL	180,355	322,460

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 45,207 MWh (12.30 %)

Demand Annual Average Growth Rate (2016-2025) : 6.13 %



ISABELA II ELECTRIC COOPERATIVE, INC. (ISELCO II)

Number of Barangays: **Status of Household Energization:**
Grid: 506 83.0 % (130,360 HH / 157,000 HH)
Off-grid: 39

Franchise Area:
6,090 sq. km.

Franchise Population:

Circuit kilometer:
2,076.8



LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

No.	SS Name	SS Capacity
1	San Manuel S/S	10 MVA
2	Roxas S/S	10 MVA
3	Cabagan S/S	10 MVA
4	Ilagan S/S (NGCP)	15MVA
5	Naguilian S/S	5 MVA

60.00

50.00

40.00

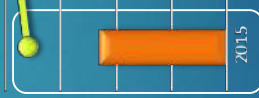
30.00

20.00

10.00

0.00

Actual



Demand Annual Average Growth Rate (2016-2025) : 3.01 %

System Loss: 27,365 MWh (14.50 %)

Customer/s Served by RES:
Sales for Customer/s served by RES:

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	131,582	90,847
Commercial	3,682	26,697
Industrial	603	25,687
Others	2,193	18,176
TOTAL	138,060	161,407



NUEVA VIZCAYA ELECTRIC COOPERATIVE, INC. (NUVELCO)

Number of Barangays: Status of Household Energization:
Grid: 255 87.9 % (84,377 HH / 96,000 HH)
Off-grid: 20

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	79,443	65,163
Commercial	2,505	7,939
Industrial	615	26,240
Others	2,494	6,666
TOTAL	85,057	106,007

Customer/s Served by RES:
Sales for Customer/s served by RES:

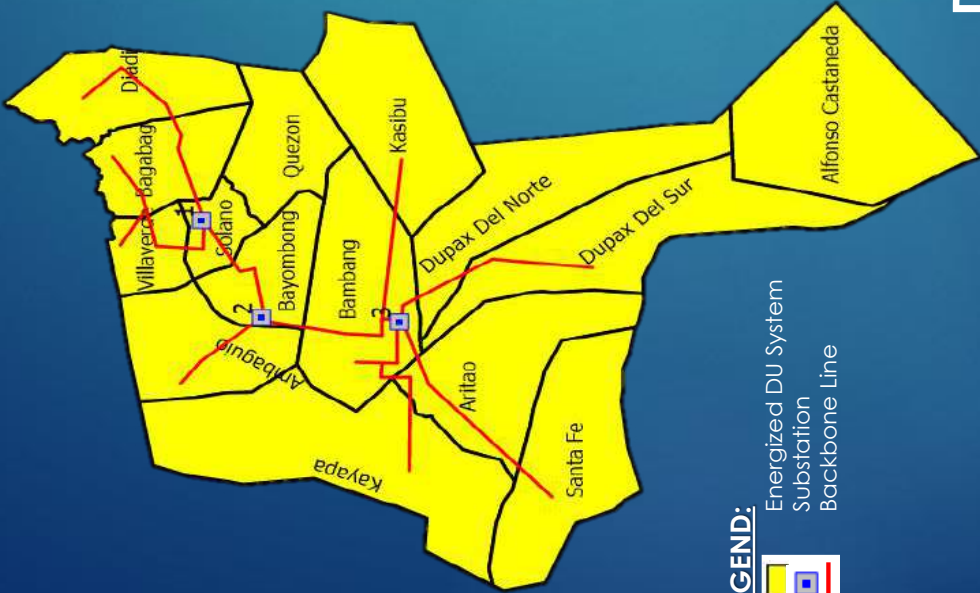
System Loss: 19,075 MWh (15.25 %)

Demand Annual Average Growth Rate (2016-2025) : 5.18 %

Franchise Area:
3,904 sq. km.

Franchise Population:
397,876

Circuit kilometer:
2,648.8



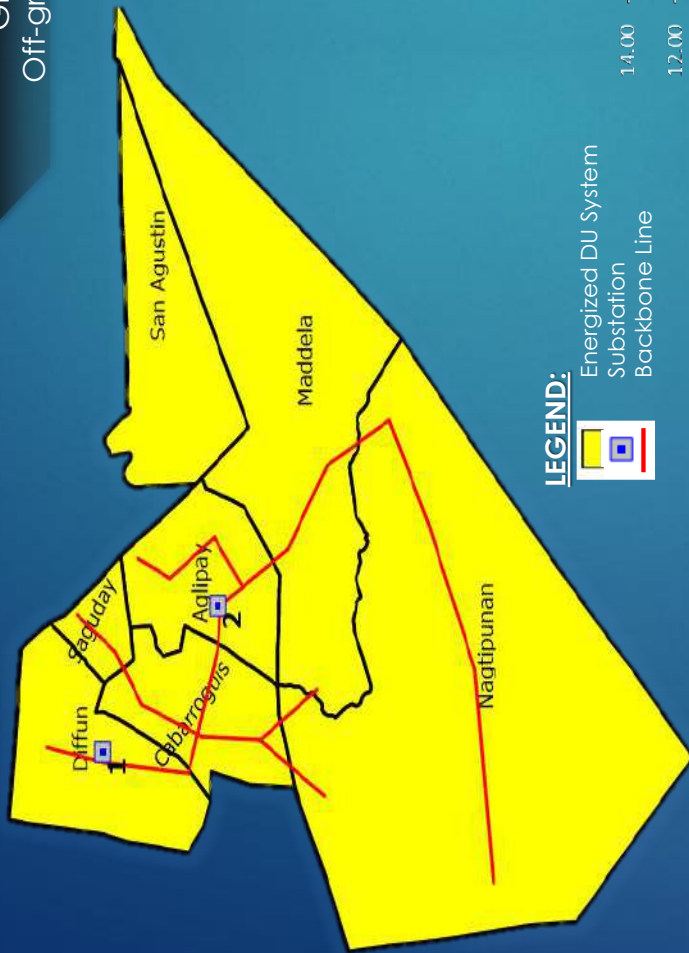
Supply
Demand

No.	SS Name	SS Capacity
1	Solano S/S	10 MVA
2	Busilac S/S	15 MVA
3	Bambang S/S	10 MVA

Supply Indicative
Supply for PSA Approval: Captive Customers
Supply Contracted: Captive Customers
Peak Demand: Franchise
Peak Demand: Captive Customers

QUIRINO ELECTRIC COOPERATIVE, INC. (QUIRELCO)

Number of Barangays: Status of Household Energization:
Grid: 144 95.7 % (46,512 HH / 48,600 HH)
Off-grid: 6



Franchise Area:
3,057 sq. km.

Franchise Population:
163,610

Circuit kilometer:
1,006.7

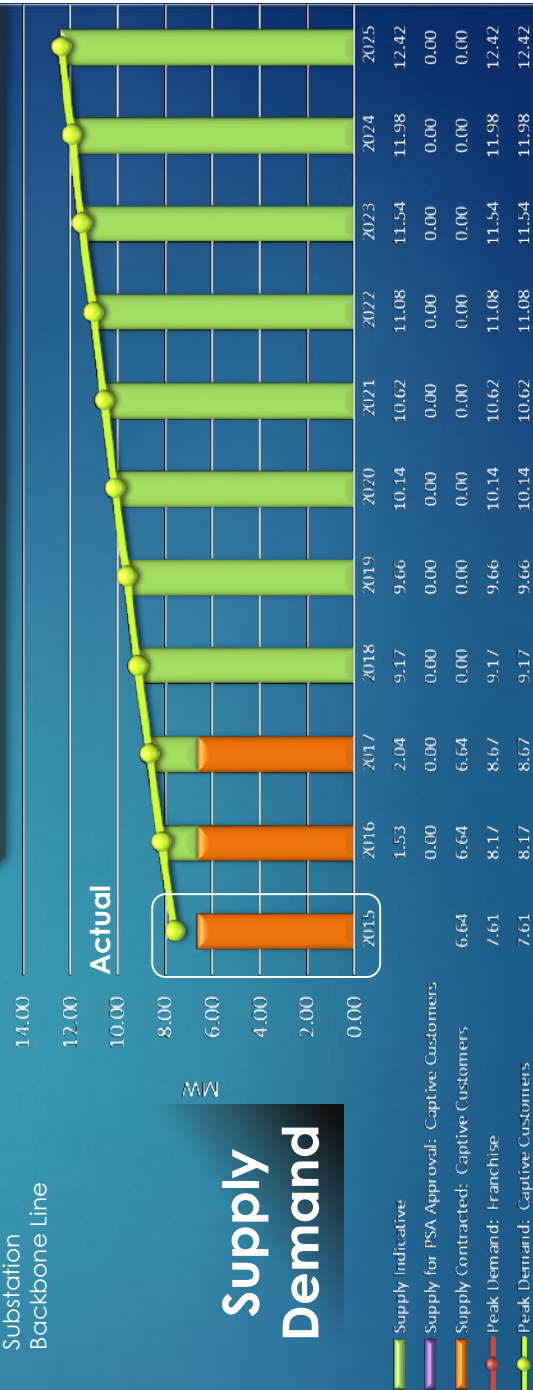
No.	SS Name	SS Capacity
1	Cajel S/S	10 MVA
2	San Leonardo S/S	5 MVA

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	32,829	18,440
Commercial	2,179	6,506
Industrial	37	2,793
Others	933	2,894
TOTAL	35,978	30,632

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 5,570 MWh (15.39 %)

Demand Annual Average Growth Rate (2016-2025) : 5.04 %



BATANES ELECTRIC COOPERATIVE, INC. (BATANELCO)

Number of Barangays: Status of Household Energization:
Grid: - 94.4 % (5,761 HH / 6,100 HH)
Off-grid: 29

Customer Classification	Captive Customer Connection*	Sales (MWh)
Residential	4,857	3,541
Commercial	577	1,350
Industrial	0	0
Others	830	1,746
TOTAL	6,264	6,637

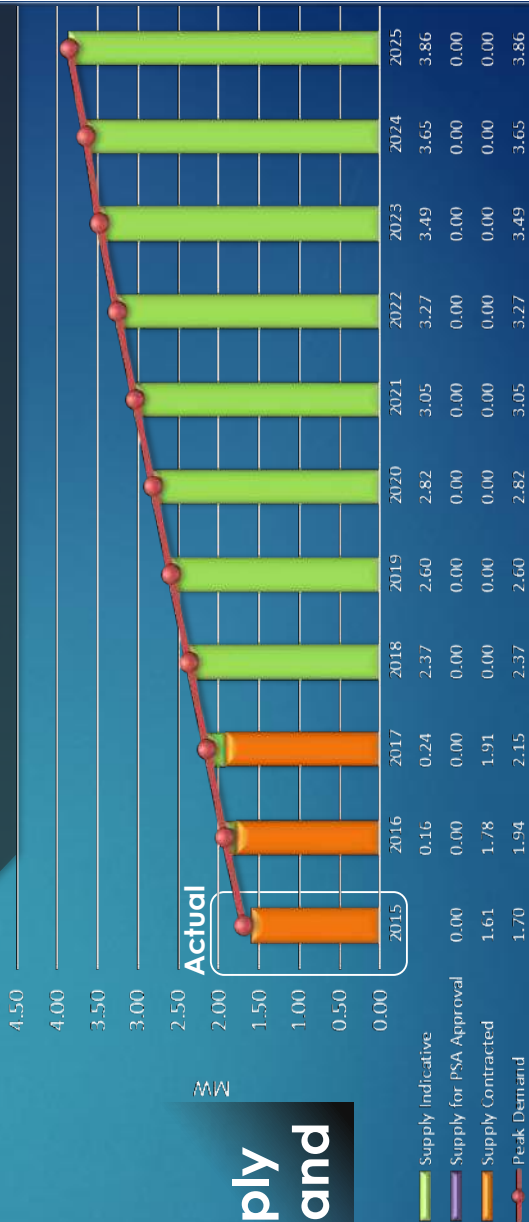
Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 375 MWh

Demand Annual Average Growth Rate (2016-2025) : 8.57 %



Supply Demand

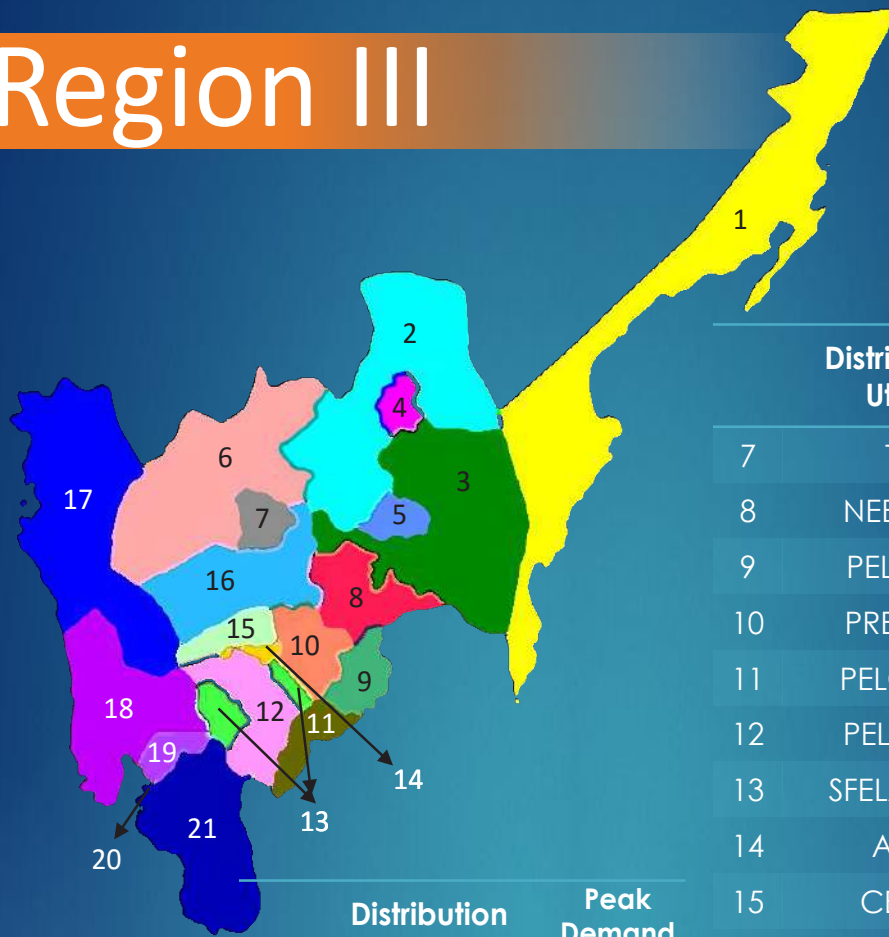


Franchise Area:
219 sq. km.

Franchise Population:
16,000

Circuit kilometer:

Region III



	Distribution Utility	Peak Demand (MW)
1	AURELCO	8.08
2	NEECO II-AREA 1	33.41
3	NEECO II-AREA 2	35.14
4	SAJELCO	18.41
5	CELCOR	43.24
6	TARELCO I	43.46

	Distribution Utility	Peak Demand (MW)
7	TEI	59.00
8	NEECO I	27.07
9	PELCO I	39.66
10	PRESCO	7.72
11	PELCO III	32.11
12	PELCO II	76.31
13	SFELAPCO	107.97
14	AEC	98.06
15	CEDC	81.00
16	TARELCO II	41.39
17	ZAMECO I	18.61
18	ZAMECO II	24.00
19	OEDC	32.38
20	SEZ	100.26
21	PENELCO	83.49
Total		1,010.75

Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	625,486	221,939
Commercial	32,244	140,677
Industrial	1,661	96,415
Others	22,297	483,906
Total	681,688	942,936

ANGELES ELECTRIC CORPORATION (AEC)

Number of Barangays: Status of Household Energization:
Grid: 33 100 % (94,387 HH / 94,387 HH)
Off-grid: -

Customer Classification	Captive Customer Connection*	Sales (MWh)
Residential	92,785	228,073
Commercial	12,270	235,380
Industrial	570	31,724
Others	452	7,887
TOTAL	106,077	503,064

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 47,834 MWh (8.48 %)

Demand Annual Average Growth Rate (2016-2025) : 6.02 %



Franchise Area:
62 sq. km.

Franchise Population:
326,336

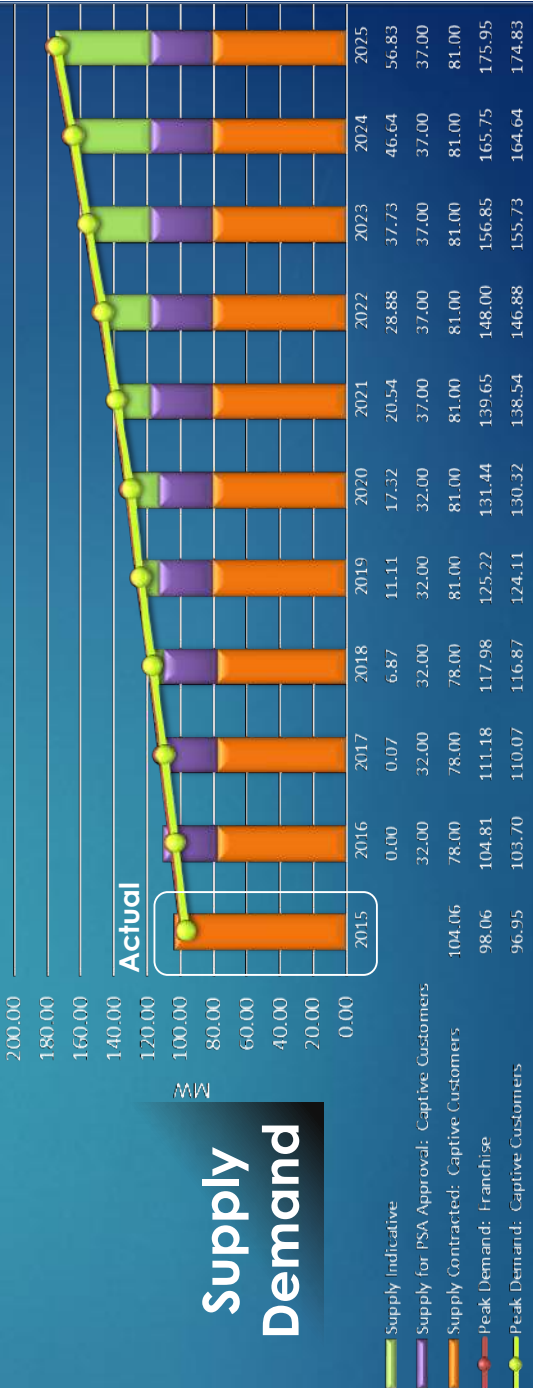
Circuit kilometer:
514.2

LEGEND:



Energized DU System
Substation
Backbone Line

Supply
Demand



No.	SS Name	Capacity
1	Milenyo S/S	35 MVA
2	Pampang S/S	50 MVA
3	Calibu S/S	40 MVA
4	Petersville S/S	40 MVA

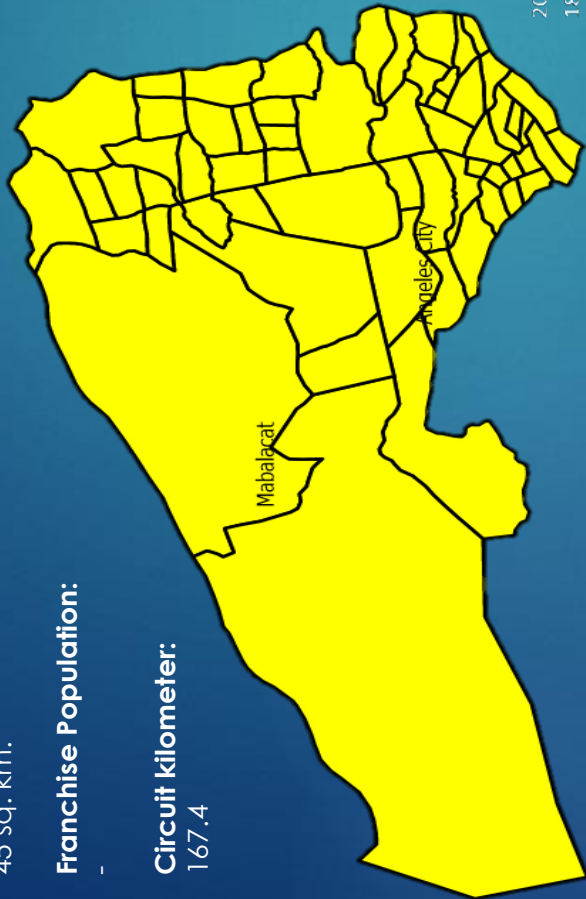
CLARK ELECTRIC DISTRIBUTION CORPORATION (CEDC)

Number of Barangays: Status of Household Energization:
Grid: 2
Off-grid: -

Franchise Area:
45 sq. km.

Franchise Population:

Circuit kilometer:
167.4



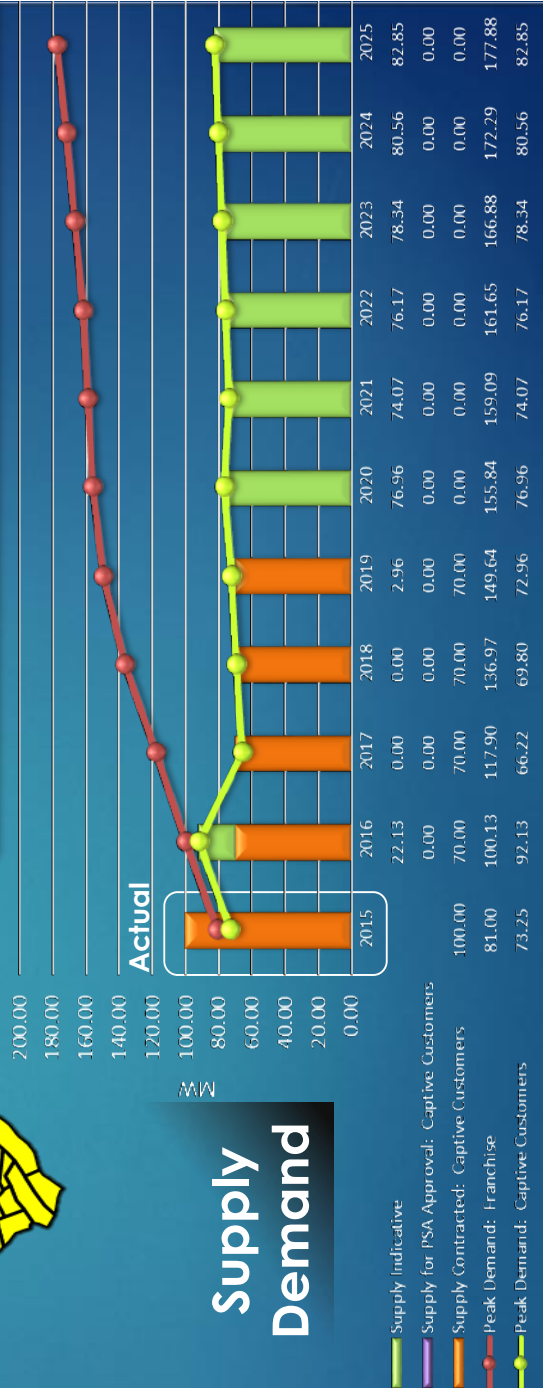
Customer Classification	Captive Customer Connection*	Sales (MWh)
Residential	653	4,004
Commercial	1,066	189,634
Industrial	133	269,289
Others	62	1,474
TOTAL	1,914	464,401

Customer/s Served by RES: 1

Sales for Customer/s served by RES: 44,999 MWh

System Loss: 21,263 MWh (3.94 %)

Demand Annual Average Growth Rate (2016-2025) : 8.43 %



Note: Franchise area includes Clark Special Economic Zone which covers parts of Angeles City and the towns of Mabalacat and Tarlac.

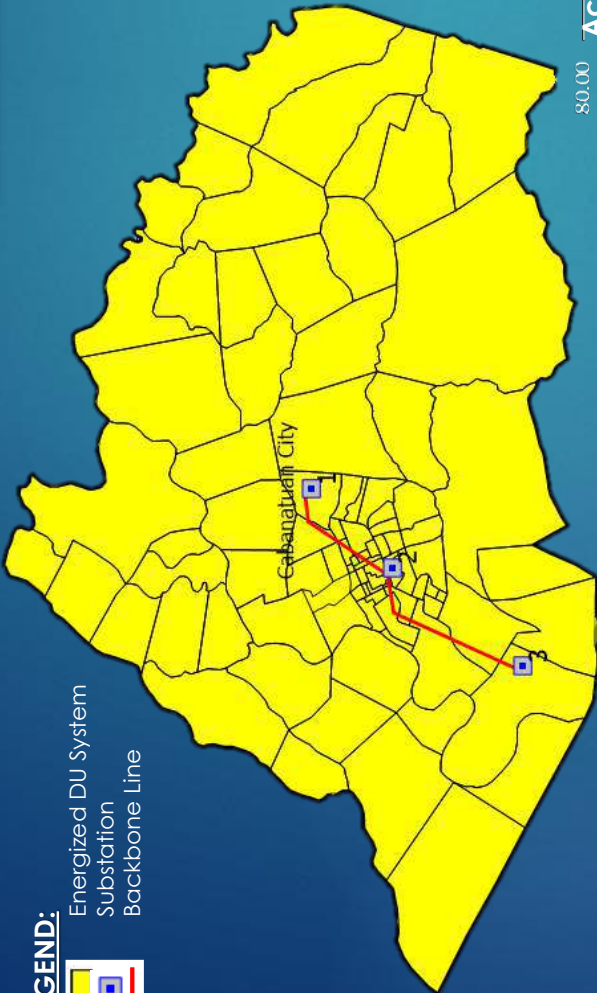
CABANATUAN ELECTRIC CORPORATION (CELCOR)

Number of Barangays: Status of Household Energization:
Grid: 89 90.4 % (66,282 HH / 73,354 HH)
Off-grid: -

LEGEND:



Energized DU System
Substation
Backbone Line



Franchise Area:
192 sq. km.

Franchise Population:
301,612

Circuit Kilometer:
911.1

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	58,615	95,461
Commercial	7,716	94,875
Industrial	44	12,095
Others	720	9,286
TOTAL	67,095	211,717

Customer/s Served by RES:
Sales for Customer/s served by RES:

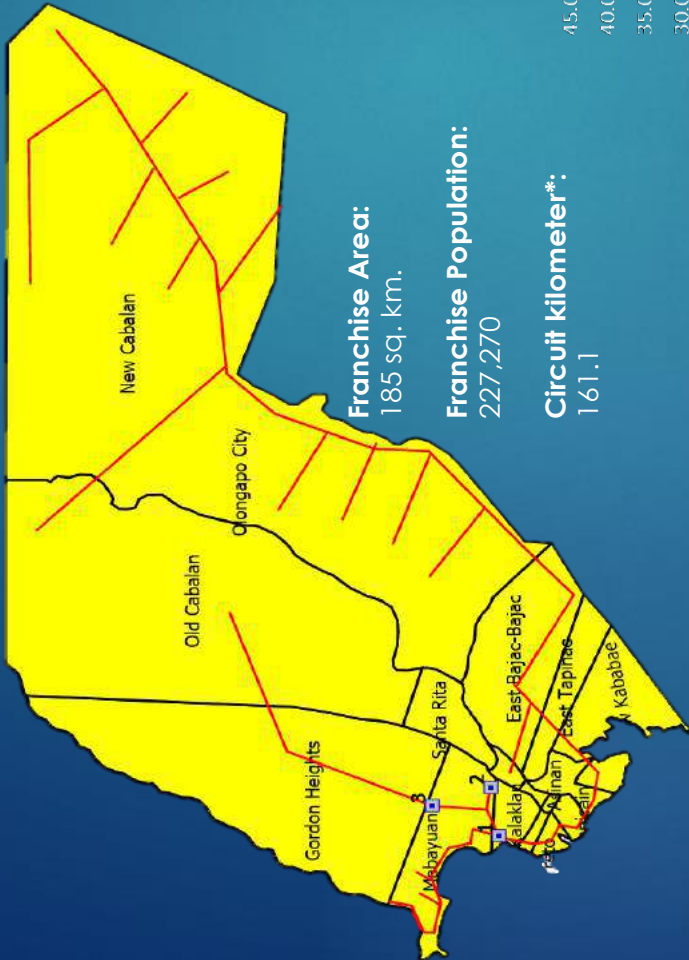
System Loss: 15,201 MWh (6.70 %)

Demand Annual Average Growth Rate (2016-2025) : 4.09 %



OLONGAPO ELECTRICITY DISTRIBUTION COMPANY, INC. (OEDC)

Number of Barangays: Status of Household Energization:
Grid: 17 96.2 % (61,025 HH / 63,454 HH)
Off-grid: -



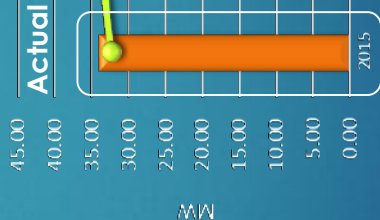
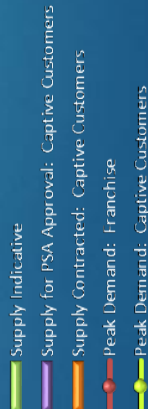
LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

No.	SS Name	SS Capacity
1	Kale S/S	10 MVA
2	Cbmu S/S	25 MVA
3	Mercurio S/S	2X15 MVA



Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	42,194	103,583
Commercial	6,228	65,057
Industrial	3	1,299
Others	363	6,029
TOTAL	48,788	175,968

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 15,201 MWh (7.26 %)

Demand Annual Average Growth Rate (2016-2025) : 2.34 %

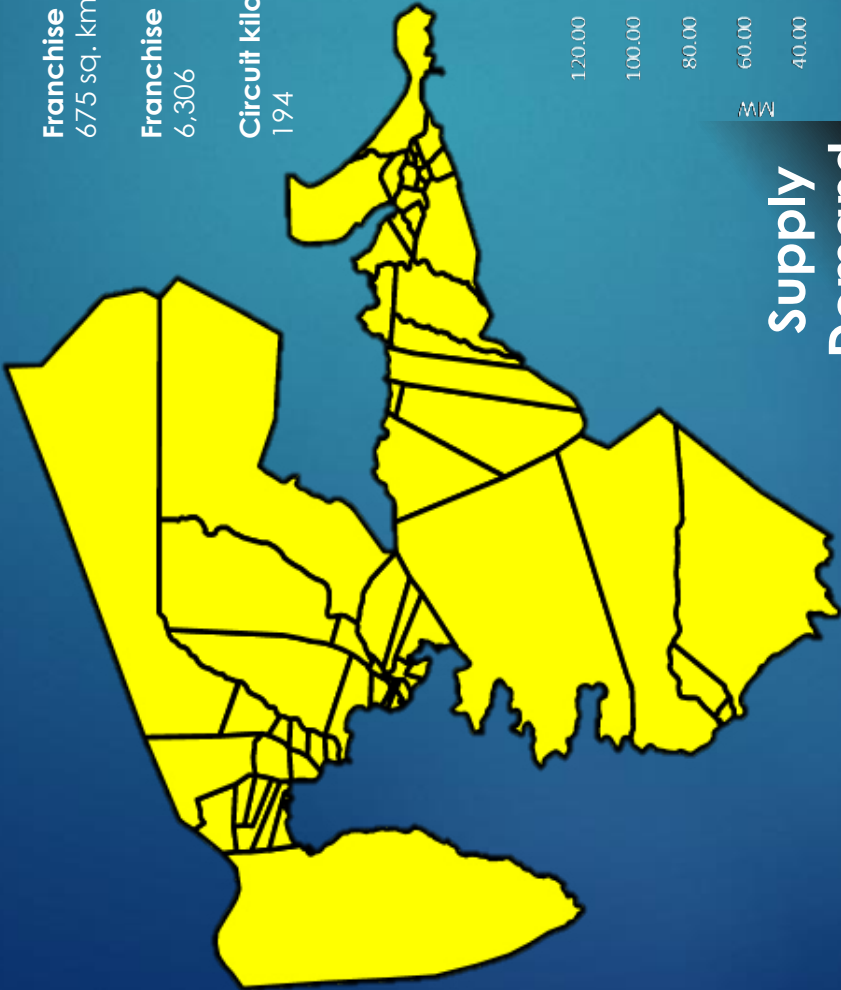
SUBIC ENERZONE CORPORATION (SEZ)

Number of Barangays: Status of Household Energization*:
Grid: - 100 % (1,861 HH / 1,861 HH)
Off-grid: -

Franchise Area:
675 sq. km.

Franchise Population:
6,306

Circuit kilometer:
194

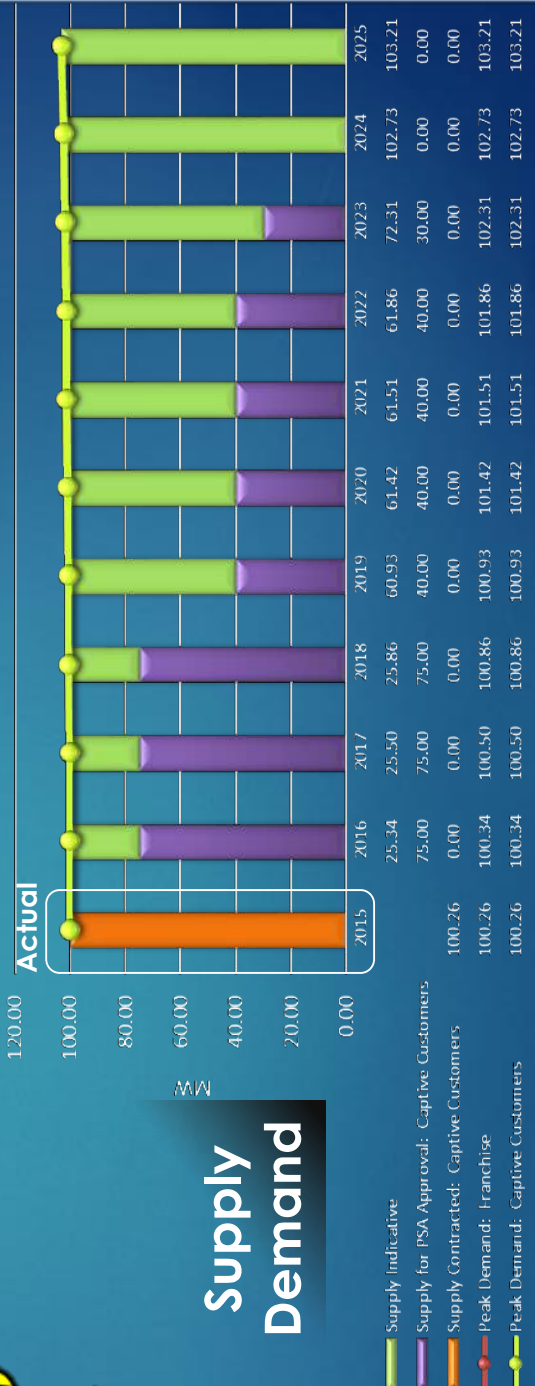


Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	1,860	11,183
Commercial	992	53,412
Industrial	116	439,445
Others	92	2,997
TOTAL	3,060	507,037

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 7,711 MWh (1.5 %)

Demand Annual Average Growth Rate (2016-2025) : 0.29 %



Note: Franchise area covers the whole Subic Bay Freeport Zone.

SAN FERNANDO ELECTRIC AND POWER COMPANY, INC. (SFELAPCO)

Number of Barangays:

Grid: 70

Off-grid: -

Status of Household Energization:

100 % (94,578 HH / 94,578 HH)

Franchise Area:

203.51 sq. km.

Franchise Population:

405,757

Circuit kilometer*:

642.5

Customer Classification	Captive Customer Connection	Sales (MWh)
-------------------------	-----------------------------	-------------

Residential 84,668 176,700

Commercial 9,333 135,751

Industrial 50 169,854

Others 175 3,637

TOTAL 94,226 485,942

Customer/s Served by RES:

Sales for Customer/s served by RES:

System Loss: 30,273 MWh (6.07 %)

Demand Annual Average Growth Rate (2016-2025) : 2.59 %



Supply Demand



No.	SS Name	SS Capacity
1	Magdalena S/S	40 MVA
2	Greenville S/S	40 MVA
3	Lourdes Height S/S	40 MVA
4	Baliti S/S	31.25 MVA
5	Fortuna S/S	10 MVA

TARLAC ELECTRIC, INC. (TEI)

Number of Barangays:

Grid: 76

Off-grid: -

Status of Household Energization:

100 % (80,020 HH / 80,020 HH)

Franchise Area:

395 sq. km.

Customer Classification

Franchise Population:

406,325

Circuit kilometer:

1,121.8

Customer Classification

Residential	66,960	Sales (MWh)
Commercial	4,110	110,376
Industrial	10	117,986
Others	37	90,566
TOTAL	71,117	4,362

Customer/s Served by RES:

Sales for Customer/s served by RES:

System Loss: 22,110 MWh (6.40 %)

Demand Annual Average Growth Rate (2016-2025) : 3.61 %

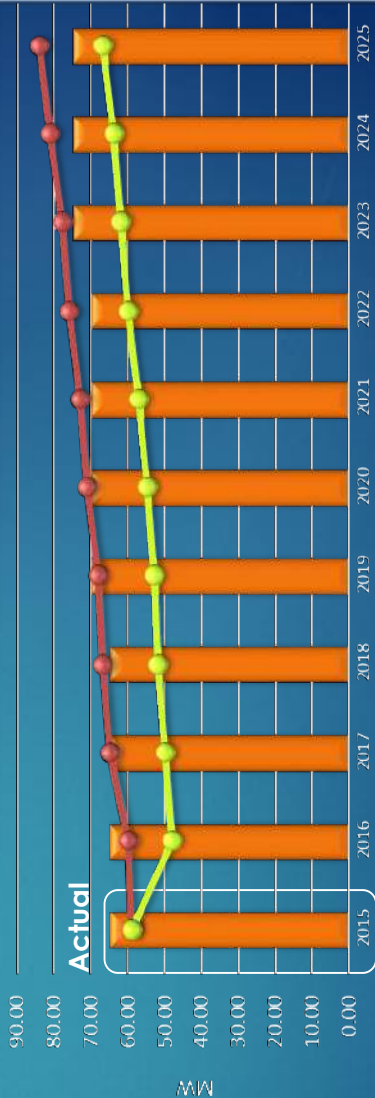
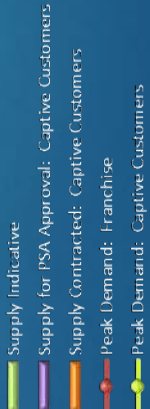


LEGEND:



Supply Demand

No.	SS Name	SS Capacity
1	TPC S/S	15/20 MVA
2	Panganiban S/S	20/25 MVA
3	Maliwalo S/S	10 MVA
4	San Rafael S/S	21/28 MVA
5	L.I.P. S/S	25/30 MVA
6	CAT S/S	5 MVA



AURORA ELECTRIC COOPERATIVE, INC. (AURELCO)

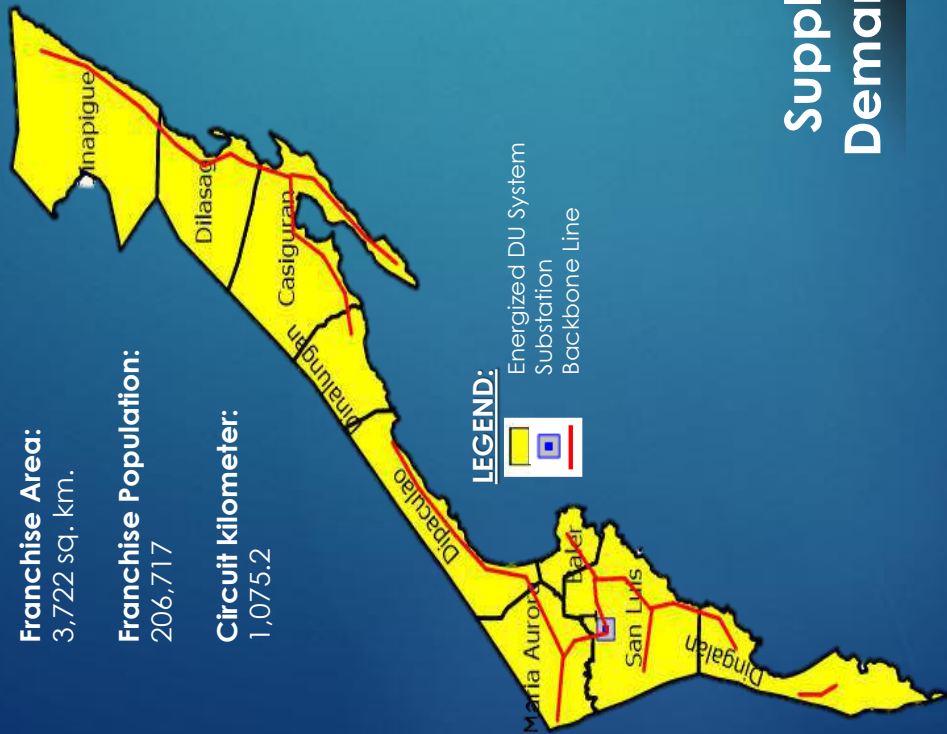
Number of Barangays:
Grid: 108
Off-grid: 49

Status of Household Energization:
95 % (48,155 HH / 50,700 HH)

Franchise Area:
3,722 sq. km.

Franchise Population:
206,717

Circuit kilometer:
1,075.2



Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 4,739 MWh (12.64 %)

Demand Annual Average Growth Rate (2016-2025) : 7.29 %



No.	SS Name	SS Capacity
1	San Isidro S/S	10 MVA

NUEVA ECIJA I ELECTRIC COOPERATIVE, INC. (NEECO I)

Number of Barangays: 97
Grid: 97
Off-grid: -

Status of Household Energization: 97.5 % (87,422 HH / 89,700 HH)

Franchise Area: 672.06 sq. m.

Franchise Population: 206,717

Circuit kilometer*: -

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	72,735	99,276
Commercial	3,250	18,116
Industrial	97	19,261
Others	226	2,076
TOTAL	76,308	138,728

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 18,882 MWh (11.46 %)

Demand Annual Average Growth Rate (2016-2025) : 6.00 %



LEGEND:



Energized Coop System Substation
Primary Backbone

No.	SS Name	Capacity
1	San Isidro S/S	10 MVA
2	Gapan S/S	20 MVA
3	Jaen S/S	20/25 MVA
4	Cabiao S/S	10MVA

Supply Demand



Actual	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Supply Indicative	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12
Supply for PSA Approval	27.07	28.69	30.41	32.24	34.17	36.22	38.40	40.70	43.14	45.73	48.48
Captive Customers	27.07	28.69	30.41	32.24	34.17	36.22	38.40	40.70	43.14	45.73	48.48
Supply Contracted	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12
Captive Customers	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12
Peak Demand	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12
Franchise	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12
Captive Customers	27.00	28.00	29.00	30.00	31.00	32.22	33.40	34.58	35.76	36.94	38.12

NUEVA ECIJA II ELECTRIC COOPERATIVE, INC. (AREA 1) (NEECO II-A1)

Number of Barangays:
Grid: 97
Off-grid: -

Status of Household Energization:
89.4 % (118,399 HH / 132,500 HH)

Franchise Area:	Customer Classification	Captive Customer Connection	Sales (MWh)
5,284 sq. km.	Residential	104,805	102,500
Franchise Population:	Commercial	3,252	7,850
558,157	Industrial	588	37,899
Circuit kilometer:	Others	1,114	4,284
955.78	TOTAL	109,759	152,533

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 18,031 MWh (10.57 %)

Demand Annual Average Growth Rate (2016-2025) : 6.10 %

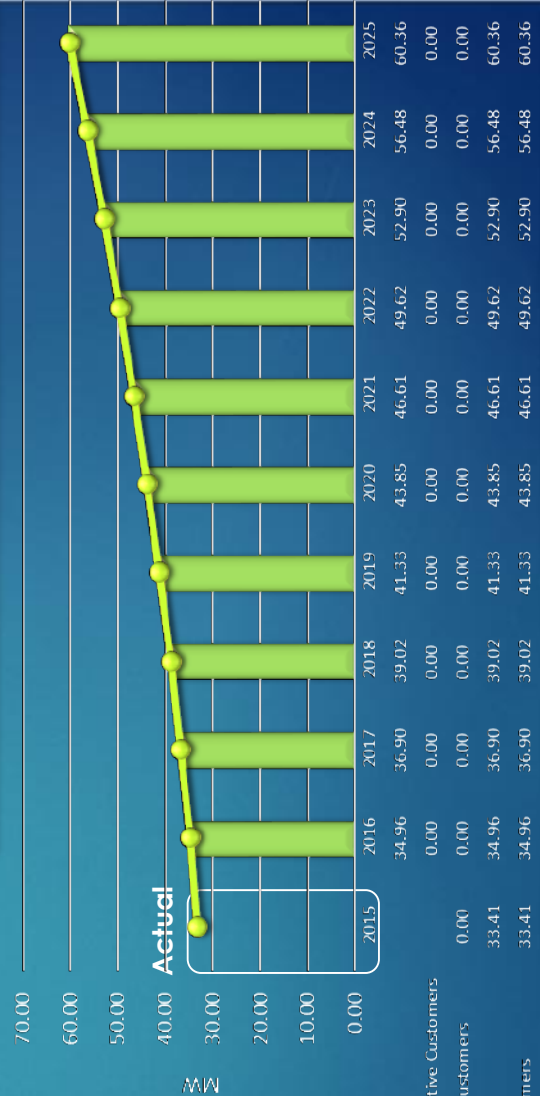
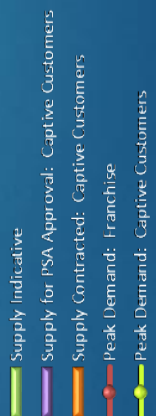


LEGEND:



Supply Demand

No.	SS Name	SS Capacity
1	Muños S/S	10 MVA
2	Lupao S/S	10 MVA
3	Talavera S/S	15 MVA
4	Quezon S/S	5 MVA
5	Aliaga S/S	5 MVA
6	Guimba S/S	10 MVA



NUEVA ECIJA II ELECTRIC COOPERATIVE, INC.-(AREA 2) (NEECO II-A2)

Number of Barangays:
Grid: 228
Off-grid: -

Status of Household Energization:
92.4 % (98,626 HH / 106,700 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	82,672	102,526
Commercial	1,798	16,224
Industrial	179	38,178
Others	1,298	4,045
TOTAL	85,947	160,973

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 19,539 MWh (10.82 %)

Demand Annual Average Growth Rate (2016-2025) : 3.53 %



Franchise Area:
1,934.2 sq. km.

Franchise Population:
106,700

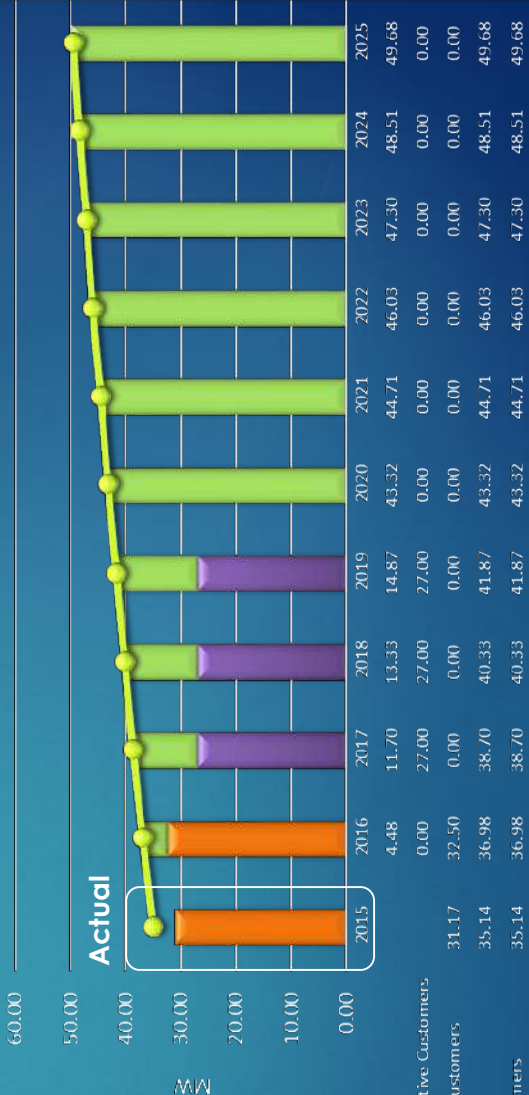
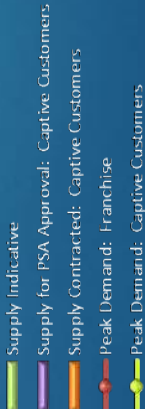
Circuit kilometer:
127.6

LEGEND:



Supply Demand

No.	SS Name	SS Capacity
1	Bongabon S/S	10 MVA
2	Gen. Natividad S/S	10 MVA
3	Sta. Rosa S/S	10 MVA
4	Gen. Tinio S/S	10 MVA
5	San Leonardo S/S	10 MVA



PAMPANGA I ELECTRIC COOPERATIVE, INC. (PELCO I)

Number of Barangays:
Grid: 112
Off-grid: -

Status of Household Energization:
98.9 % (100,607 HH / 101,700 HH)

Franchise Area:
622 sq. km.

Franchise Population:
523,506

Circuit kilometer:
628.5

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	83,331	136,246
Commercial	4,089	42,172
Industrial	19	14,613
Others	1,346	11,158
TOTAL	88,785	204,189

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 17,252 MWh (7.79 %)

Demand Annual Average Growth Rate (2016-2025) : 6.85 %



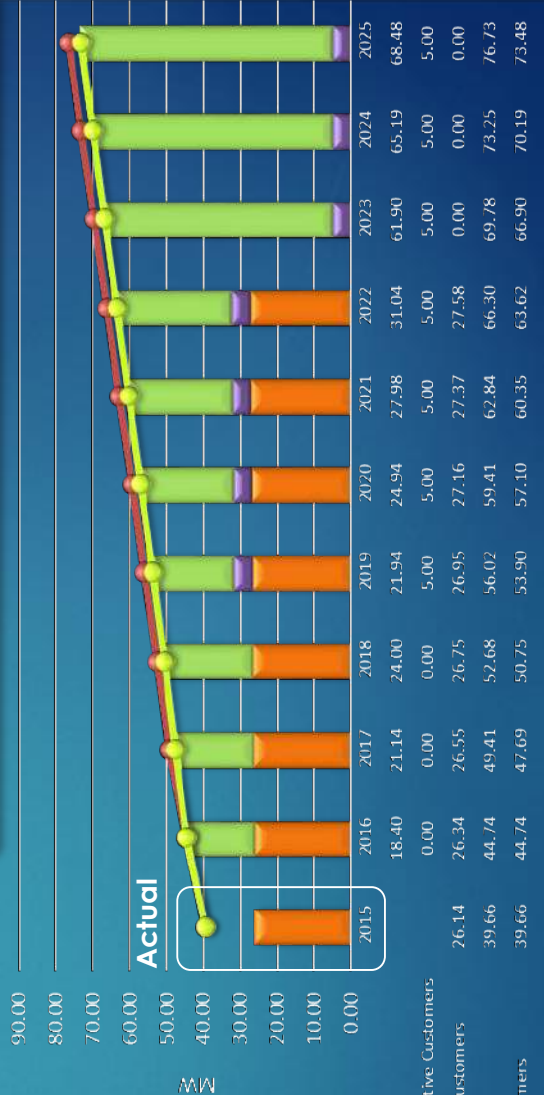
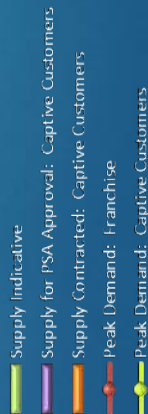
LEGEND:



Energized DU System
Substation
Backbone Line

No.	SS Name	SS Capacity
1	San Isidro S/S	5 MVA
2	Pandacaqui S/S	10 MVA
3	San Nicolas S/S	10 MVA
4	Plazang Luma S/S	10MVA
5	Lagundi S/S	10 MVA
6	Sto. Domingo S/S	10 MVA
7	San Luis S/S	5 MVA

Supply Demand



PAMPANGA II ELECTRIC COOPERATIVE, INC. (PELCO II)



LEGEND:

- Energized DU System
- Substation
- Backbone Line

No.	SS Name	SS Capacity
1	Mabalacat S/S	35 MVA
2	Manibaug S/S	10 MVA
3	Pio S/S	15 MVA
4	Guagua S/S	30 MVA
5	Remedios S/S	10 MVA
6	Sta. Cruz S/S	10 MVA

Number of Barangays:

Grid: 175
Off-grid: -

Status of Household Energization:

98.8 % (157,928 HH / 159,900 HH)

Franchise Area:

756 sq. km.

Customer Classification

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	154,833	249,879
Commercial	6,175	75,690
Industrial	273	27,591
Others	17,511	19,395
TOTAL	178,792	372,556

Franchise Population:

780,069

Circuit kilometer:

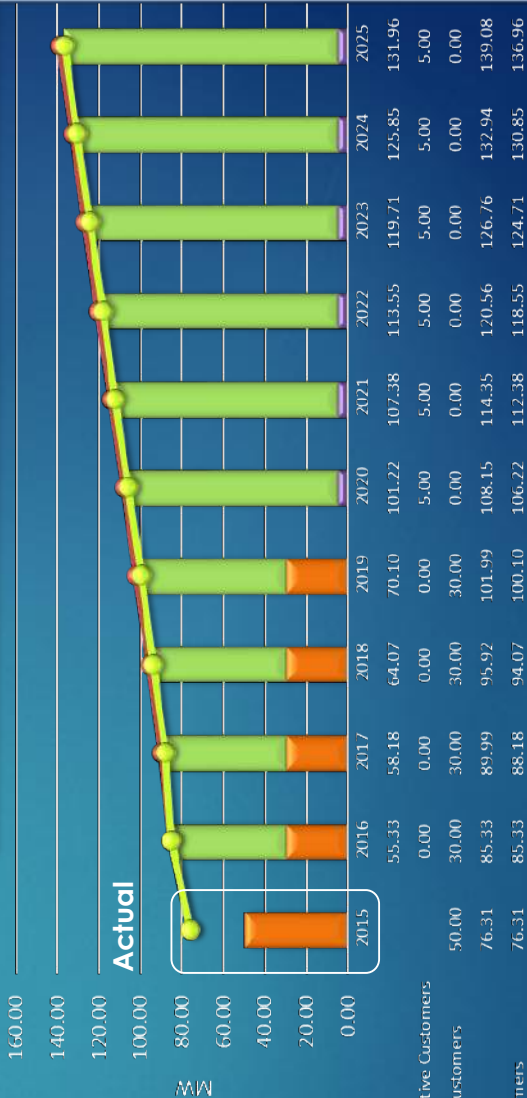
22.2

Customer/s Served by RES:

Sales for Customer/s served by RES:

System Loss: 49,015 MWh (11.63 %)

Demand Annual Average Growth Rate (2016-2025) : 6.20 %



PAMPANGA III ELECTRIC COOPERATIVE, INC. (PELCO III)

Number of Barangays:
Grid: 96
Off-grid: -

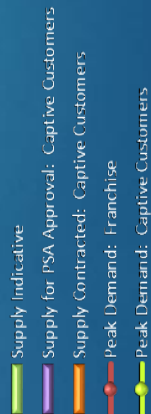
Status of Household Energization:
96.6 % (70,636 HH / 73,100 HH)



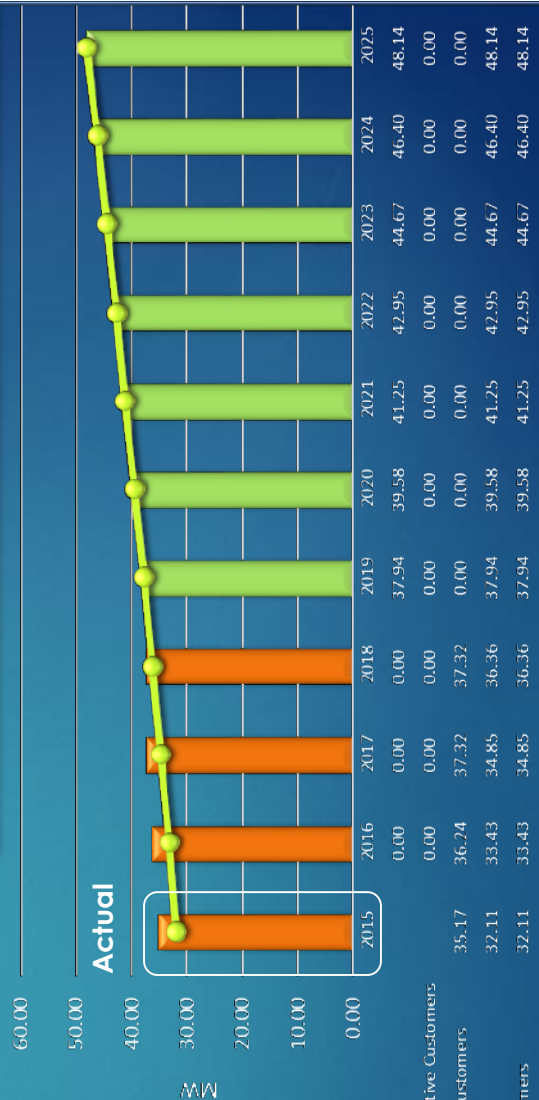
Supply Demand



No.	SS Name	SS Capacity
1	Pau S/S	20 MVA
2	Balite S/S	20 MVA
3	Macabebe S/S	10 MVA



Demand Annual Average Growth Rate (2016-2025) : 4.13 %



A map of Marikina City, Philippines, showing its 15 barangays. The city is divided into several districts, each represented by a different color. The barangays are numbered 1 through 15. The map shows the city's location relative to the surrounding areas, including the Marikina River and the Marikina Dam. The barangays are: 1. Dinalupihan, 2. Hermosa, 3. Orap, 4. Samar, 5. Abucay, 6. Balanga City, 7. Bagac, 8. Orton, 9. Limay, 10. Marikina, 11. Marikina, 12. Marikina, 13. Marikina, 14. Marikina, 15. Morong.

Grid: 237

Franchise Area:

1,373 sq. km.

Franchise Population:

687,482

Circuit kilometer:

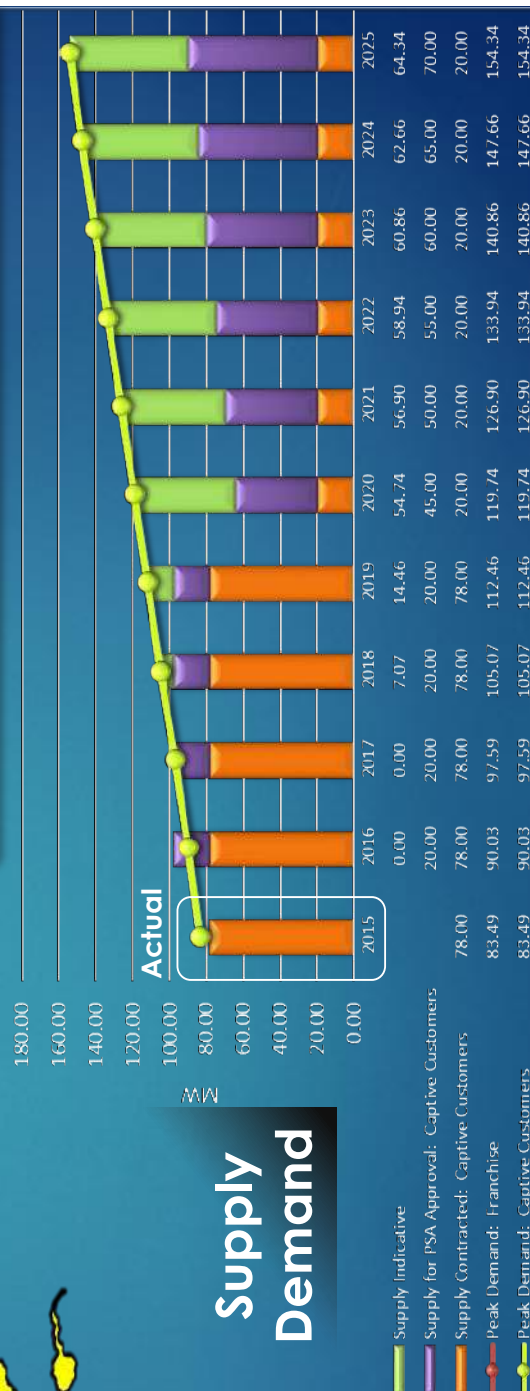
1,589.4

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 33,093 MWh (6.74 %)

Demand Annual Average Growth Rate (2016-2025) : 6.35 %

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	157,757	234,221
Commercial	8,679	37,383
Industrial	1,163	133,809
Others	2,269	52,131
TOTAL	169,868	457,544



No.	SS Name	SS Capacity
1	Dinalupihan S/S	2X10 MVA
2	Hermosa S/S	10 MVA
3	Orani S/S	10 MVA
4	Samal S/S	10 MVA
5	Abucay S/S	5 MVA
6	Balanga City I S/S	20 MVA
7	Balanga City II S/S	10 MVA
8	Orion S/S	10 MVA
9	Pilar S/S	10 MVA
10	Bagac S/S	5 MVA
11	Limay S/S	10 MVA
12	Mariveles I S/S	10 MVA
13	Mariveles II S/S	10 MVA
14	Mariveles III S/S	10 MVA
15	Marina S/S	5 MVA

PAMPANGA RURAL ELECTRIC SERVICE COOPERATIVE, INC. (PRESCO)

Number of Barangays: 34
Grid: 20,030 HH / 20,700 HH
Off-grid: -

Status of Household Energization: 96.8 % (20,030 HH / 20,700 HH)

Franchise Area: 290 sq. km.

Franchise Population: 106,276

Circuit kilometer*: 336.0

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	17,589	28,206
Commercial	398	8,594
Industrial	0	0
Others	240	1,148
TOTAL	18,227	37,948

Customer/s Served by RES: Sales for Customer/s served by RES:

System Loss: 3,606 MWh (8.68 %)

Demand Annual Average Growth Rate (2016-2025) : 6.49 %

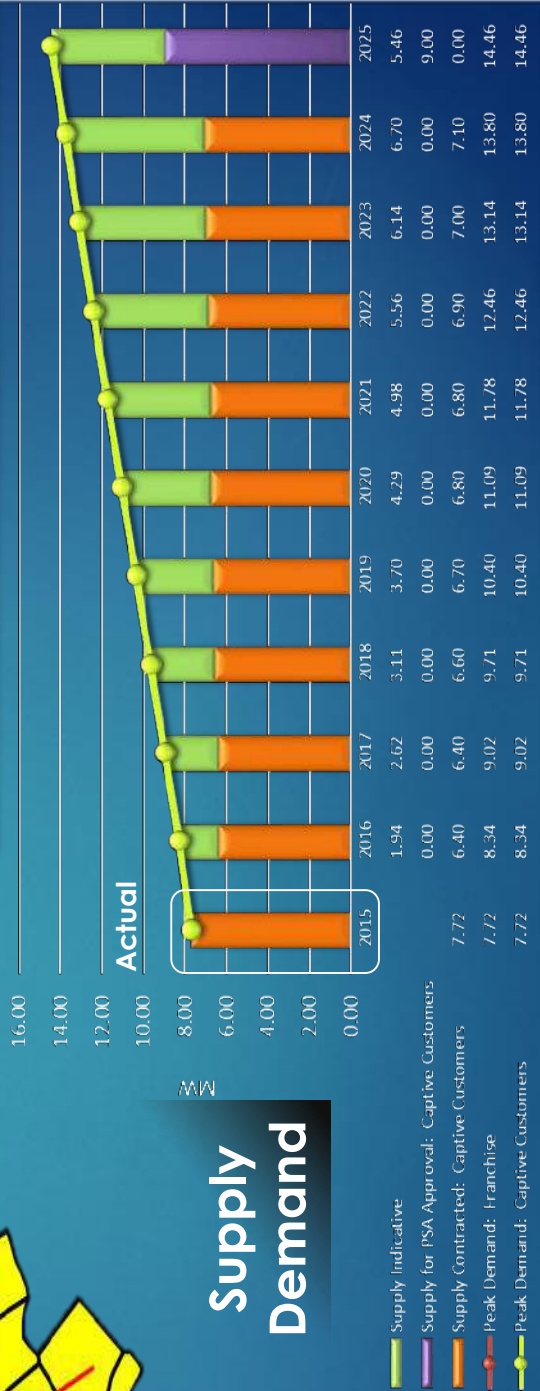


LEGEND:



Energized DU System Substation Backbone Line

Supply Demand



Supply Indicative
Supply for PSA Approval: Captive Customers
Supply Contracted: Captive Customers
Peak Demand: Franchise
Peak Demand: Captive Customers

No.	SS Name	SS Capacity
1	Anao S/S	10 MVA

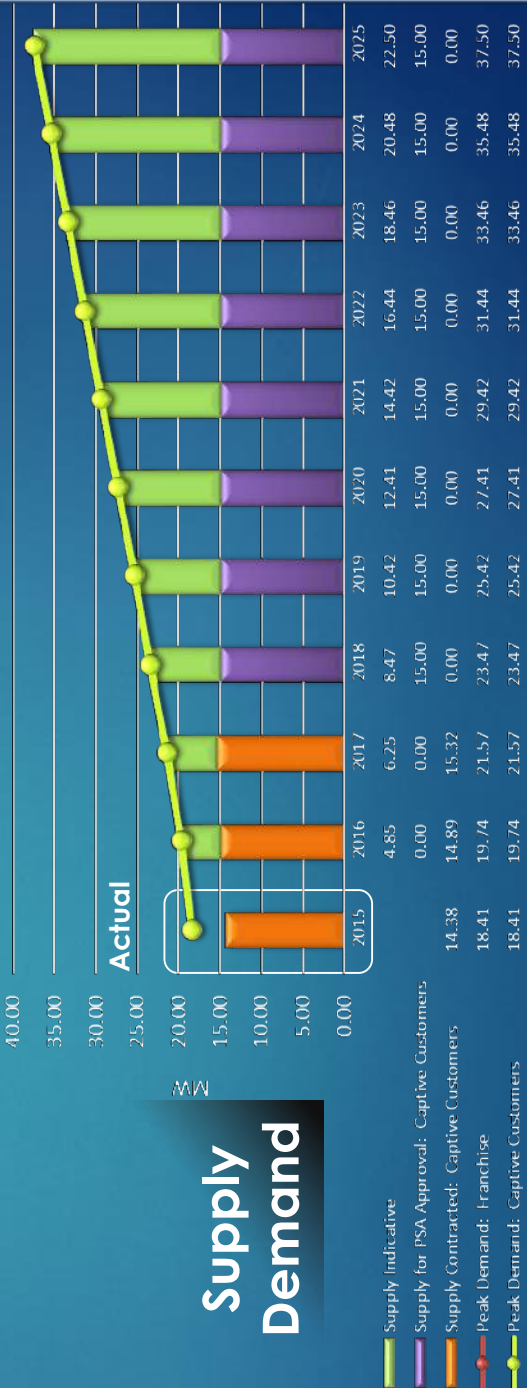
SAN JOSE CITY ELECTRIC COOPERATIVE, INC. (SAJELCO)



LEGEND:



Supply Demand



Number of Barangays:

Grid: 38

Off-grid: -

Status of Household Energization:

93.0 % (31,622 HH / 34,000 HH)

Franchise Area:

187.25 sq. km.

Franchise Population:

141,581

Circuit kilometer:

216.2

Customer Classification

Residential

Commercial

Industrial

Others

Captive Customer Connection

25,538

1,334

63

2,009

Sales (MWh)

31,503

11,694

31,297

4,358

TOTAL

28,944

78,852

Customer/s Served by RES:

Sales for Customer/s served by RES:

System Loss*: 7,600 MWh (8.79 %)

Demand Annual Average Growth Rate (2016-2025) : 7.38 %

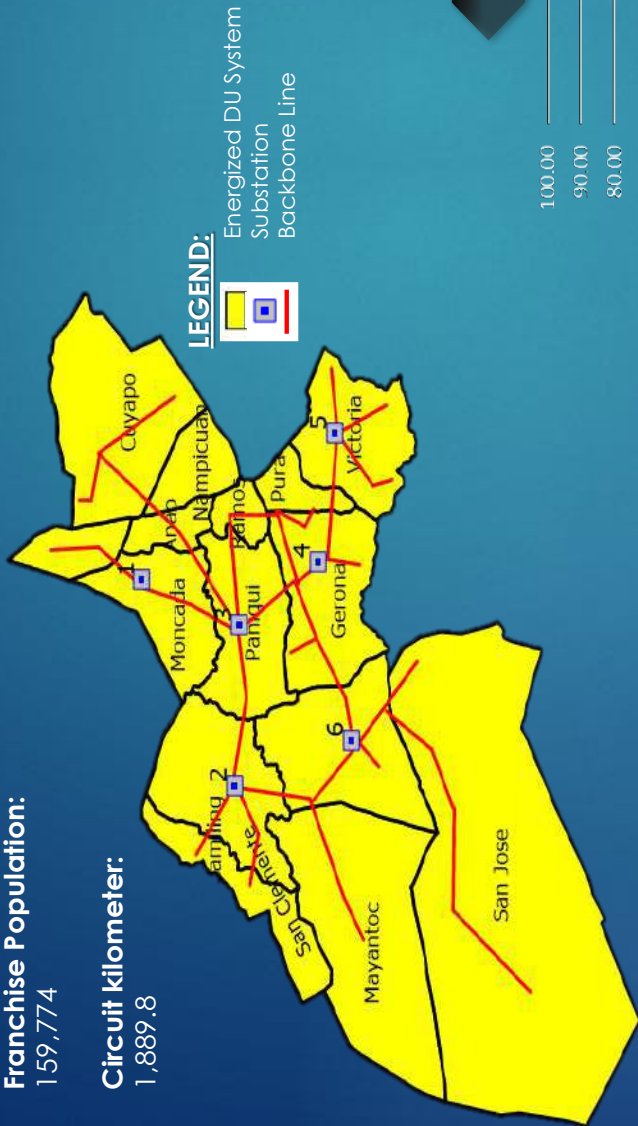
No.	SS Name	SS Capacity
1	Calaoacan S/S	10 MVA
2	Sto. Tomas S/S	15 MVA

TARLAC I ELECTRIC COOPERATIVE, INC. (TARELCO I)

Franchise Area:
2,000 sq. km.

Franchise Population:
159,774

Circuit kilometer:
1,889.8



Number of Barangays:
Grid: 421
Off-grid: -

Status of Household Energization:
97.7 % (159,774 HH / 163,600 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	148,239	122,428
Commercial	6,051	13,499
Industrial	259	66,602
Others	5,225	6,200
TOTAL	159,774	208,729

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 18,520 MWh (8.15 %)

Demand Annual Average Growth Rate (2016-2025) : 7.54 %



TARLAC II ELECTRIC COOPERATIVE, INC. (TARELCO II)

Franchise Area:
1,057 sq. km.

Franchise Population:
465,735

Circuit kilometer:
563.1



Number of Barangays:

Grid: 120

Off-grid: -

Status of Household Energization:

97.7 % (108,035 HH / 110,600 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	84,639	107,267
Commercial	5,030	50,094
Industrial	100	51,880
Others	1,048	7,337
TOTAL	90,817	216,578

Customer/s Served by RES: 1

Sales for Customer/s served by RES: 6,008 MWh

System Loss: 19,420 MWh (8.02 %)

Demand Annual Average Growth Rate (2016-2025) : 4.56 %

LEGEND:

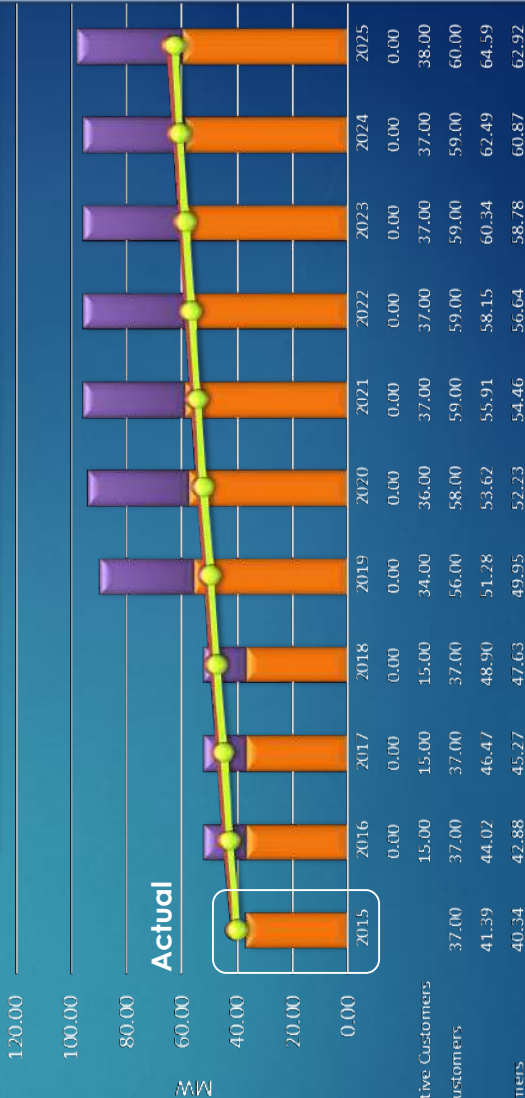


Energized DU System
Substation
Backbone Line

Supply
Demand

No.	SS Name	SS Capacity
1	Lapaz S/S	10 MVA
2	Concepcion S/S	20 MVA
3	Capas I S/S	10 MVA
4	Capas II S/S	20 MVA
5	Bamban I S/S	5 MVA
6	Bamban II S/S	5 MVA

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers



ZAMBALES I ELECTRIC COOPERATIVE, INC. (ZAMECO I)

Number of Barangays: 118
Grid: 118
Off-grid: -

Status of Household Energization: 96.2 % (59,751 HH / 62,100 HH)

Franchise Area: 2,448.83 sq. km.

Franchise Population: 257,710

Circuit kilometer: 830.6

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	51,895	56,253
Commercial	3,281	15,138
Industrial	99	17,378
Others	680	5,248
TOTAL	55,955	94,016

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 11,850 MWh (11.61 %)

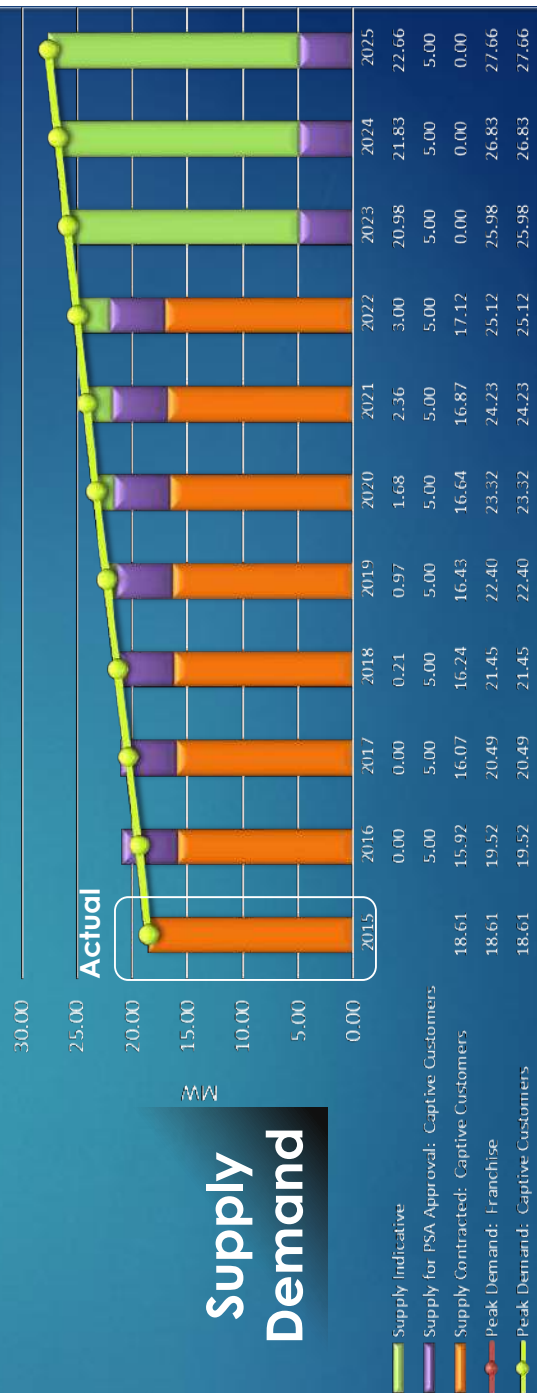
Demand Annual Average Growth Rate (2016-2025) : 4.04 %



LEGEND:

Energized DU System
Substation
Backbone Line

Supply Demand



No.	SS Name	SS Capacity
1	Candelaria S/S	10 MVA
2	Salaza S/S	5 MVA
3	Iba S/S	10 MVA
4	Botolan S/S	5 MVA

ZAMBALES II ELECTRIC COOPERATIVE, INC. (ZAMECO II)

Number of Barangays:
Grid: 112
Off-grid: -

Status of Household Energization:
97.3 % (77,240 HH / 79,400 HH)

Franchise Area:
1,343.69 sq. km.

Franchise Population:
276,733

Circuit kilometer:
760.6

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	63,399	79,894
Commercial	3,938	19,198
Industrial	84	12,232
Others	2,747	11,057
TOTAL	70,168	122,382

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 16,056 MWh (11.65 %)

LEGEND:

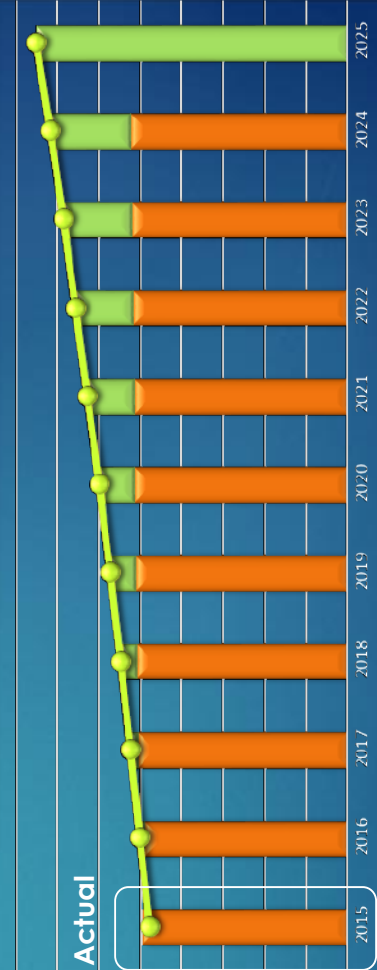
- Energized DU System
- Substation
- Backbone Line



Supply Demand

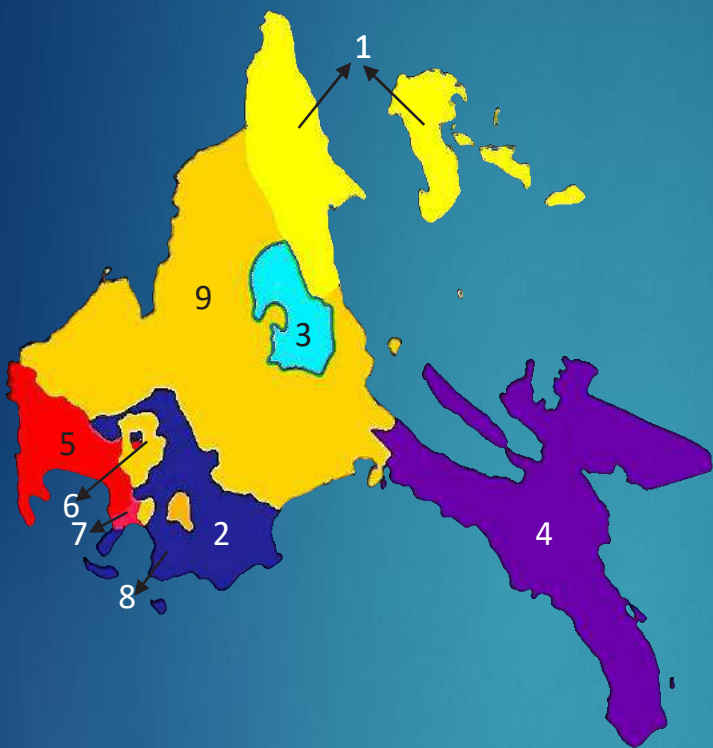
No.	SS Name	SS Capacity
1	San Felipe S/S	5 MVA
2	San Narciso S/S	10 MVA
3	Castillejos S/S	10 MVA
4	NETC S/S	1.5 MVA
5	Subic S/S	2X10 MVA

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers



Demand Annual Average Growth Rate (2016-2025) : 4.59 %

Region IV-A



	Distribution Utility	Peak Demand (MW)
1	QUEZELCO II	7.14
2	BATELEC II	136.00
3	FLECO	17.76
4	QUEZELCO I	32.69
5	BATELEC I	57.43
6	LEZ	26.46
7	FBPC	9.88
8	IEC	4.06
Total		291.42
9	MERALCO	

Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	590,883	305,087
Commercial	22,603	414,193
Industrial	472	113,441
Others	23,204	663,780
Total	637,162	1,496,500

Note: Excluding data for MERALCO

IBAAN ELECTRIC AND ENGINEERING CORPORATION (IEEC)



LEGEND:



Energized DU System
Substation
Backbone Line

Number of Barangays:

Grid: 27

Off-grid: -

Status of Household Energization:

98.4 % (12,251 HH / 12,449 HH)

Franchise Area:

72 sq. km.

Franchise Population:

-

Circuit kilometer:

50.2

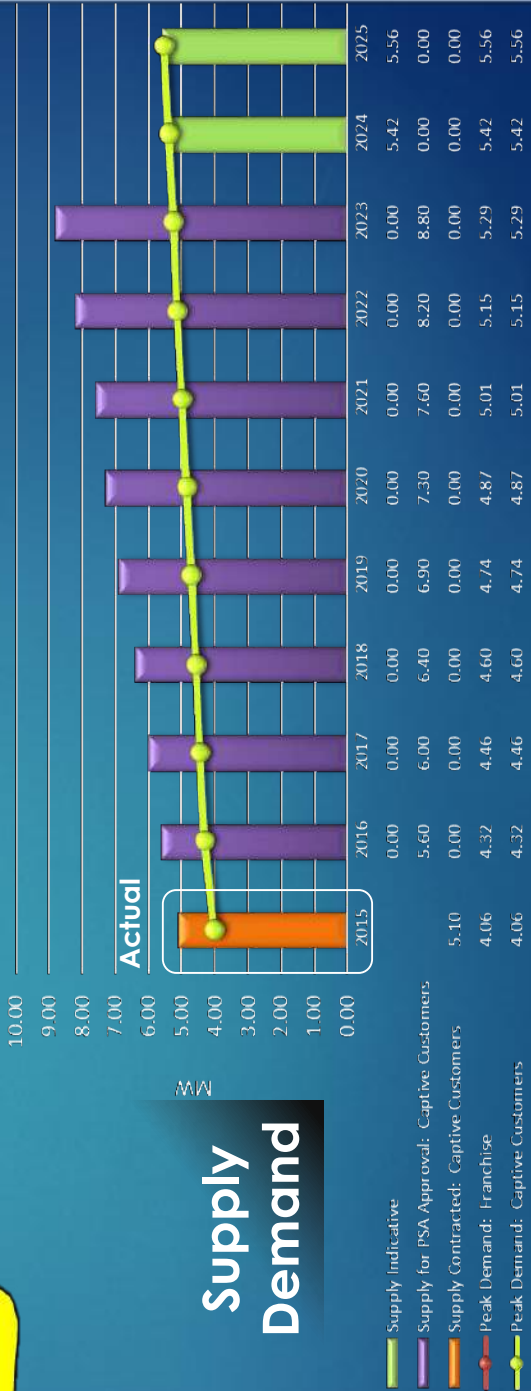
Customer Classification

Residential	11,665	13,363
Commercial	748	5,101
Industrial	37	2,977
Others	64	442
TOTAL	12,514	21,882

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 2,042 MWh (8.53 %)

Demand Annual Average Growth Rate (2016-2025) : 3.20 %



No.	SS Name	SS Capacity
1	Palindan S/S	10 MVA

BATANGAS I ELECTRIC COOPERATIVE, INC. (BATELEC I)

Number of Barangays: 33
Grid: 33
Off-grid: -

Status of Household Energization:
98.2 % (164,587 HH / 167,600 HH)

Franchise Area:
1,800 sq. km.

Franchise Population:
-

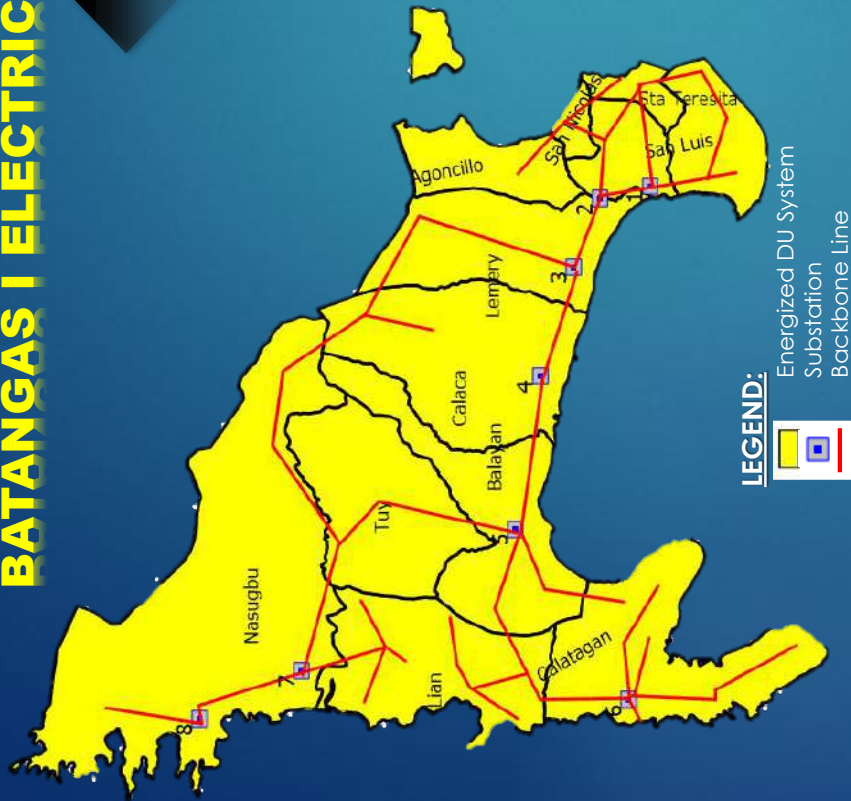
Circuit kilometer:
2,203

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	131,536	145,281
Commercial	4,332	70,251
Industrial	25	55,188
Others	13,163	27,772
TOTAL	149,056	298,492

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 38,020 MWh (11.30 %)

Demand Annual Average Growth Rate (2016-2025) : 4.02 %



LEGEND:

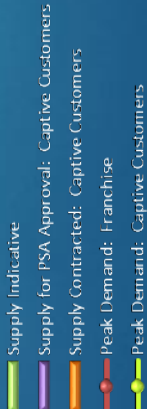


Actual

MW

Supply Demand

No.	SS Name	SS Capacity
1	Butong S/S	15 MVA
2	Palanas S/S	10 MVA
3	Mataas Na Bayan S/S	10 MVA
4	Calaca Mobile S/S	10 MVA
5	Balayan S/S	15 MVA
6	Calatagan S/S	10 MVA
7	Nasugbu S/S	20 MVA
8	Natipunan S/S	10 MVA



BATANGAS II ELECTRIC COOPERATIVE, INC. (BATELEC II)

Number of Barangays:

Grid: 466

Off-grid: 15

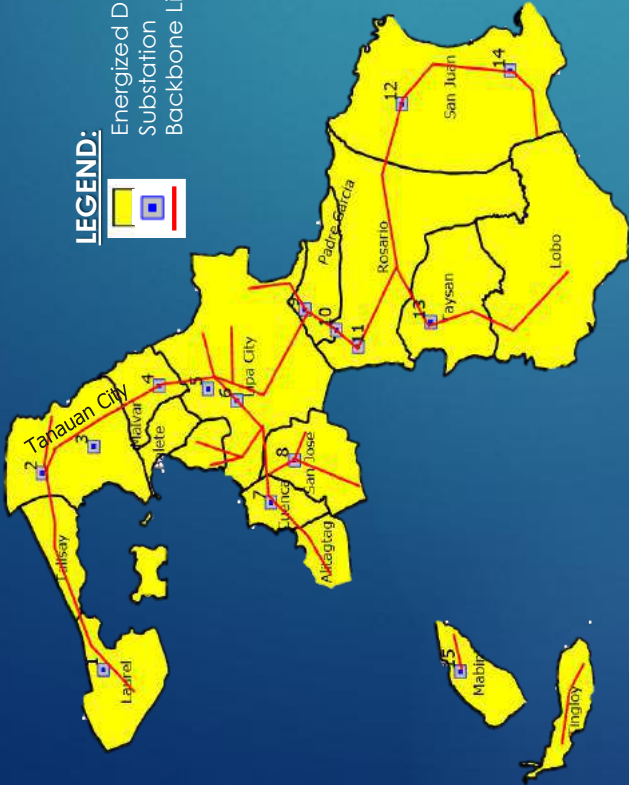
Status of Household Energization:

99 % (279,940 HH / 282,700 HH)

LEGEND:



Energized DU System Substation Backbone Line



Franchise Area:

1,602.21 sq. km.

Franchise Population:

1,089,427

Circuit kilometer:

2,137.1

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	222,471	305,282
Commercial	8,782	180,573
Industrial	56	184,120
Others	3,577	62,578
TOTAL	234,886	732,554

Customer/s Served by RES: 1

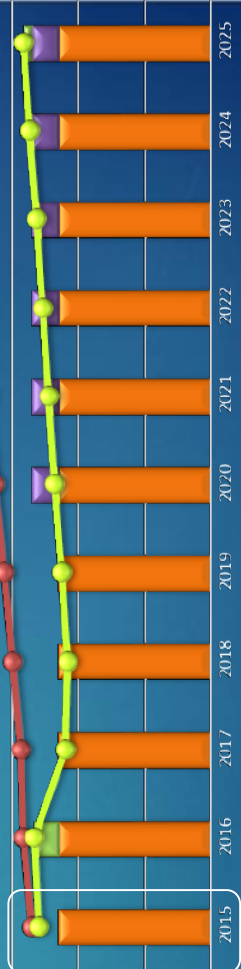
Sales for Customer/s served by RES: 21,072 MWh

System Loss: 83,135 MWh (13.89 %)

Demand Annual Average Growth Rate (2016-2025) : 4.12 %

No.	SS Name
1	LAUREL SS
2	TALAGA SS
3	TANAUAN SS
4	MALVAR SS
5	STO. TORIBIO SS
6	SAN CARLOS SS
7	CUENCA SS
8	SAN JOSE SS
9	PADRE GARCIA SS
10	SAN ROQUE SS
11	MASAYA SS
12	SAN JUAN SS
13	TAYSAN SS
14	NAGSAULAY SS
15	MABINI SS

Actual



Supply Demand

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

FIRST LAGUNA ELECTRIC COOPERATIVE, INC. (FLECO)

Number of Barangays:
Grid: 164
Off-grid: -

Status of Household Energization:
98.2 % (64,441 HH / 65,600 HH)

Franchise Area:
526.44 sq. km.

Franchise Population:
273,923

Circuit kilometer*:
512.5

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	60,792	60,356
Commercial	2,259	10,215
Industrial	164	8,794
Others	1,043	5,805
TOTAL	64,258	85,170

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 12,525 MWh (12.82 %)

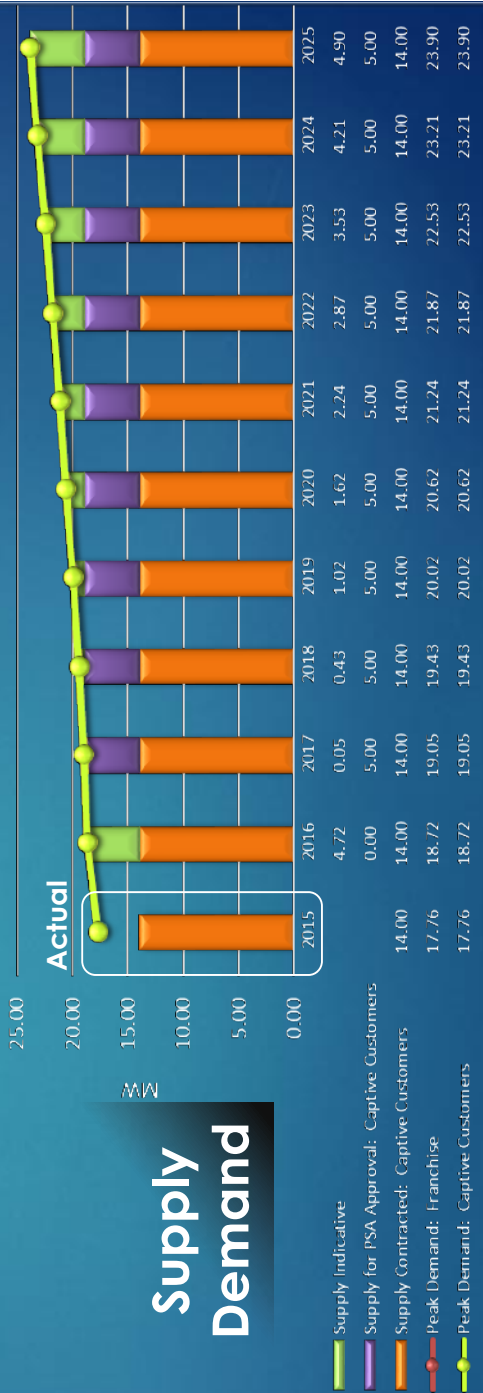
Demand Annual Average Growth Rate (2016-2025) : 3.02 %



LEGEND:

- Energized DU System
- Substation
- Backbone Line

Supply Demand



No.	SS Name	SS Capacity
1	Famy S/S	10 MVA
2	Pakil S/S	5 MVA
3	Lumban S/S	15 MVA
4	Pagsanjan S/S	10 MVA

QUEZON I ELECTRIC COOPERATIVE, INC. (QUEZELCO I)

Number of Barangays: 802
Grid: 3
Off-grid: 3

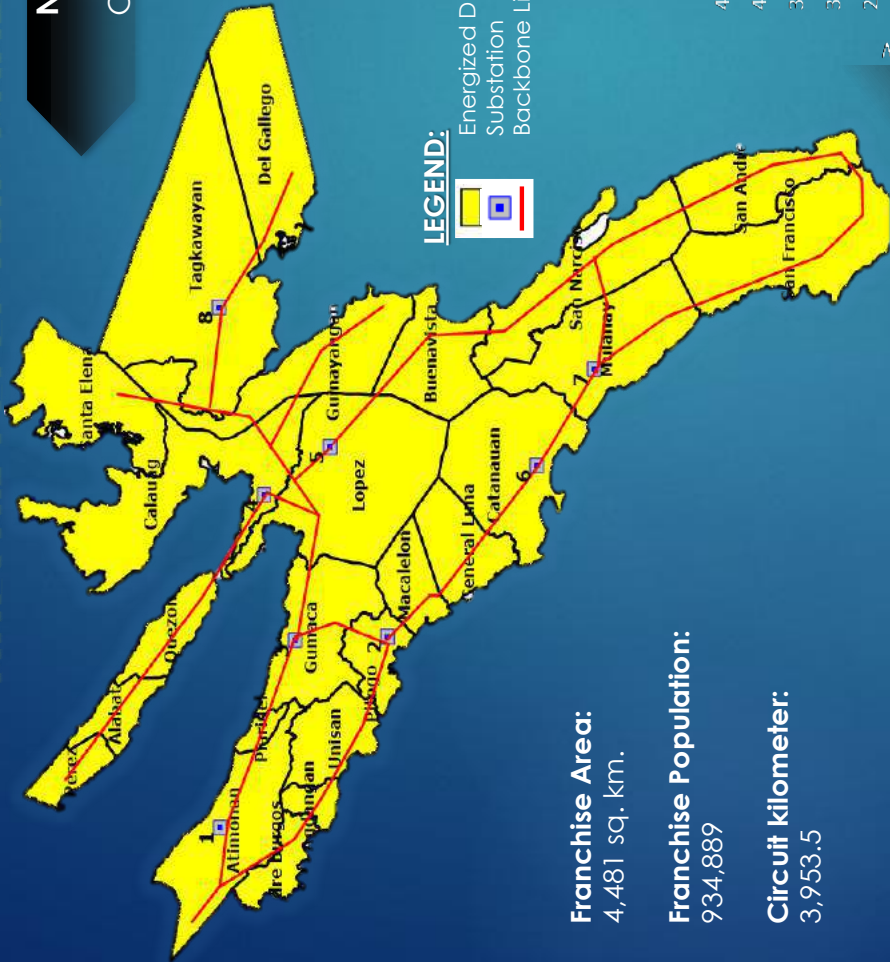
Status of Household Energization:
88.4 % (161,036 HH / 182,200 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	118,591	91,771
Commercial	3,256	14,168
Industrial	81	14,844
Others	3,405	11,716
TOTAL	125,333	132,498

Customer/s Served by RES:
Sales for Customer/s served by RES:

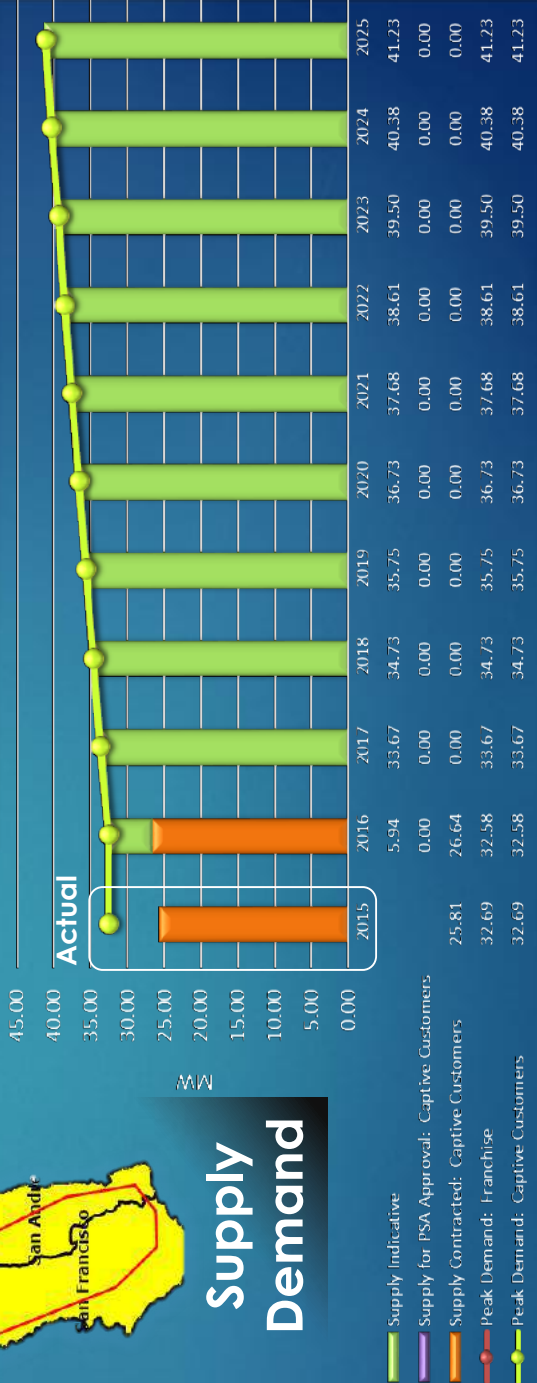
System Loss: 28,212 MWh (17.55 %)

Demand Annual Average Growth Rate (2016-2025) : 2.35 %



Franchise Area:
4,481 sq. km.
Franchise Population:
934,889
Circuit kilometer:
3,953.5

No.	SS Name	SS Capacity
1	Atimonan S/S	5 MVA
2	Pitogo S/S	5 MVA
3	Gumaca S/S	5 MVA
4	Hondagua S/S	5 MVA
5	Bacungan S/S	5 MVA
6	Catanauan S/S	5 MVA
7	Mulanay S/S	5 MVA
8	Tagkawayan S/S	5 MVA



QUEZON II ELECTRIC COOPERATIVE, INC. (QUEZELCO II)

Number of Barangays:
Grid: 72
Off-grid: 57

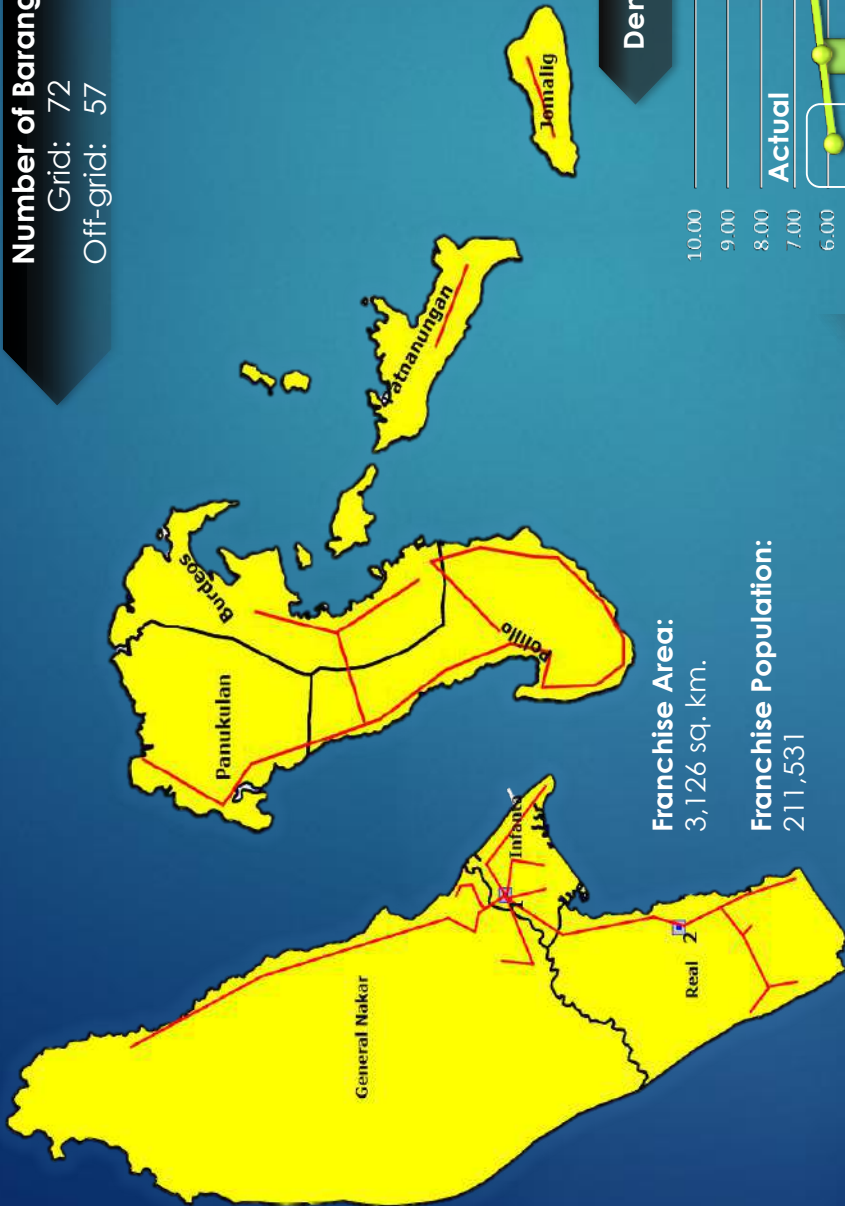
Status of Household Energization:
84.1 % (33,453 HH / 39,800 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	17,016	14,557
Commercial	1,158	3,772
Industrial	26	1,242
Others	1,010	2,245
TOTAL	19,210	21,816

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 2,975 MWh (12.0 %)

Demand Annual Average Growth Rate (2016-2025) : 4.63 %



Franchise Area:
3,126 sq. km.

Franchise Population:
211,531

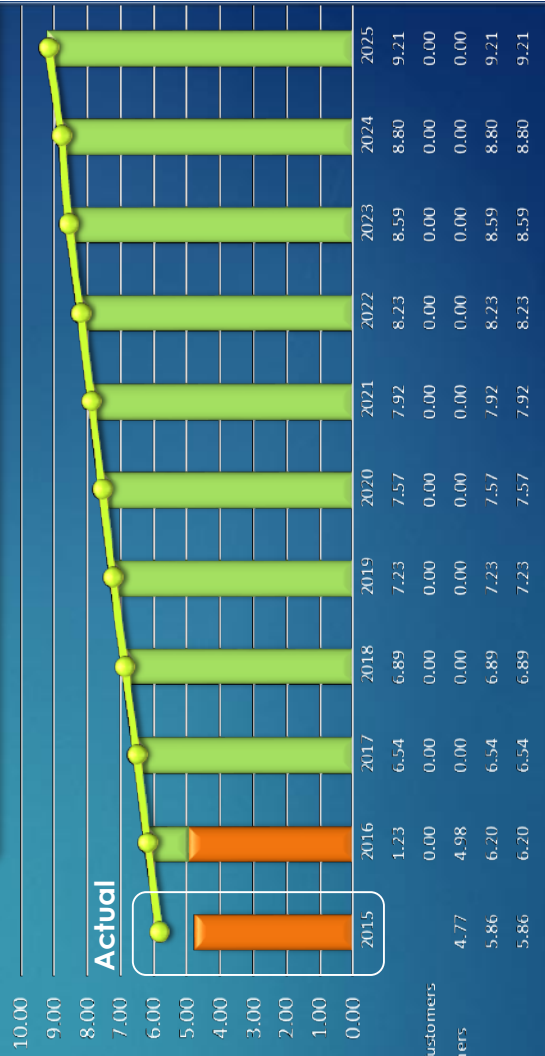
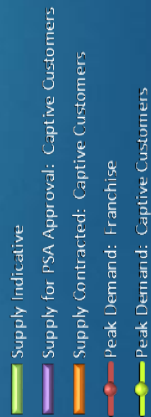
Circuit kilometer:
313.3

LEGEND:



Supply Demand

No.	SS Name	SS Capacity
1	Comon S/S	5 MVA
2	Capalong S/S	5 MVA

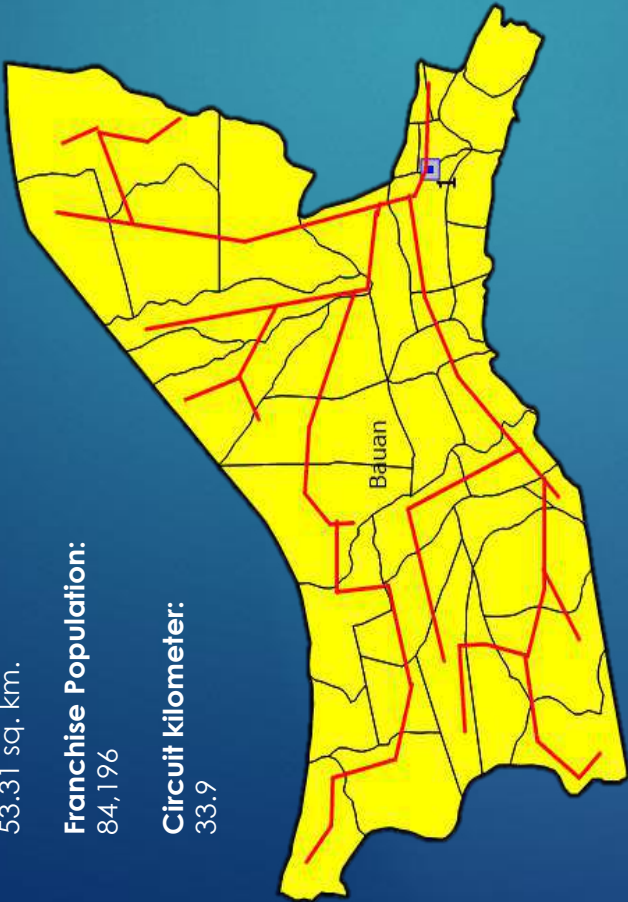


FIRST BAY POWER CORPORATION (FBPC)

Franchise Area:
53.31 sq. km.

Franchise Population:
84,196

Circuit kilometer:
33.9



LEGEND:



Energized DU System
Substation
Backbone Line

Supply
Demand

No.	SS Name	SS Capacity
1	FBPC S/S	15/18 MVA

Number of Barangays:
Grid: 40
Off-grid: -

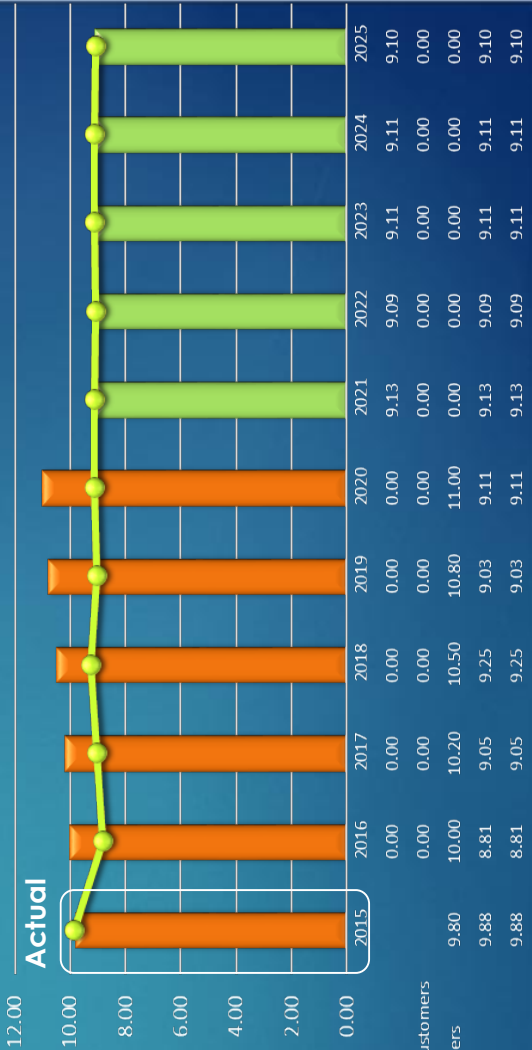
Status of Household Energization:
0 % (0 HH / 22,214 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	19,820	28,390
Commercial	1,945	17,945
Industrial	0	0
Others	358	2,325
TOTAL	22,123	48,660

Customer/s Served by RES:
Sales for Customer/s served by RES:

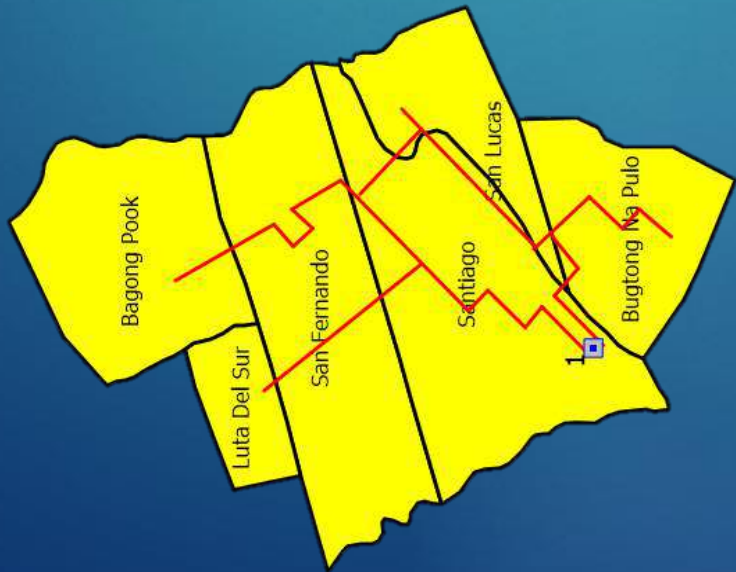
System Loss: 6,440 MWh (11.69 %)

Demand Annual Average Growth Rate (2016-2025) : -0.75%



- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

LIMA ENERZONE CORPORATION (LEZ)



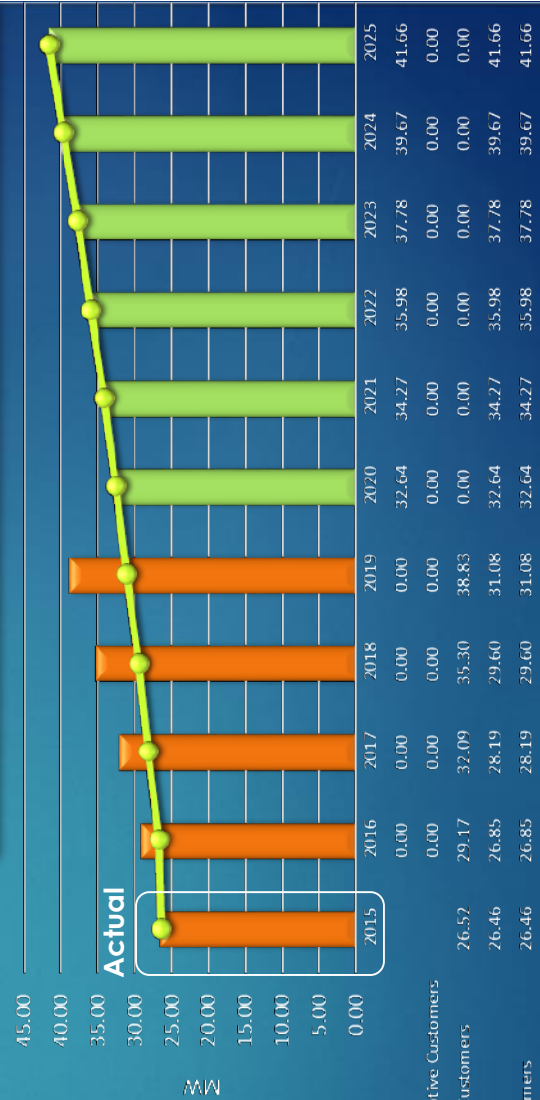
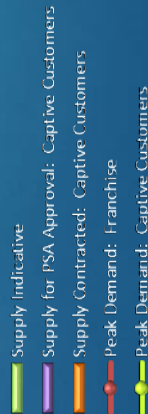
LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

No.	SS Name	SS Capacity
1	LIMA SS	2X50 MVA



Number of Barangays:

Grid: -
Off-grid: -

Status of Household Energization:

- % (1,861 HH / 1,861 HH)

Franchise Area:

5 sq. km.

Franchise Population:

100

Circuit kilometer*:

114

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	0	0
Commercial	16	2,742
Industrial	83	147,028
Others	0	49

TOTAL 99 149,819

Customer/s Served by RES:
Sales for Customer/s served by RES:

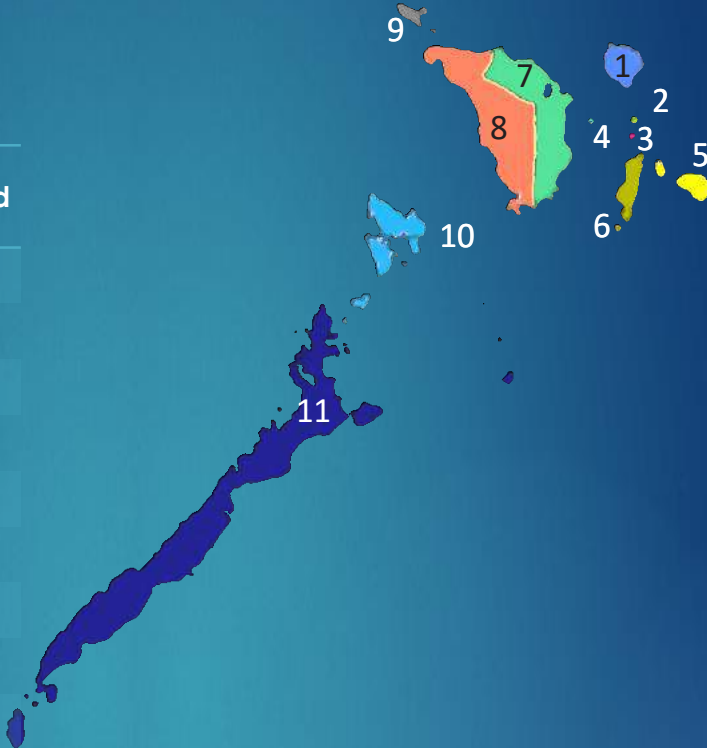
System Loss: 1,944 MWh (1.28 %)

Demand Annual Average Growth Rate (2016-2025) : 4.65%

Actual

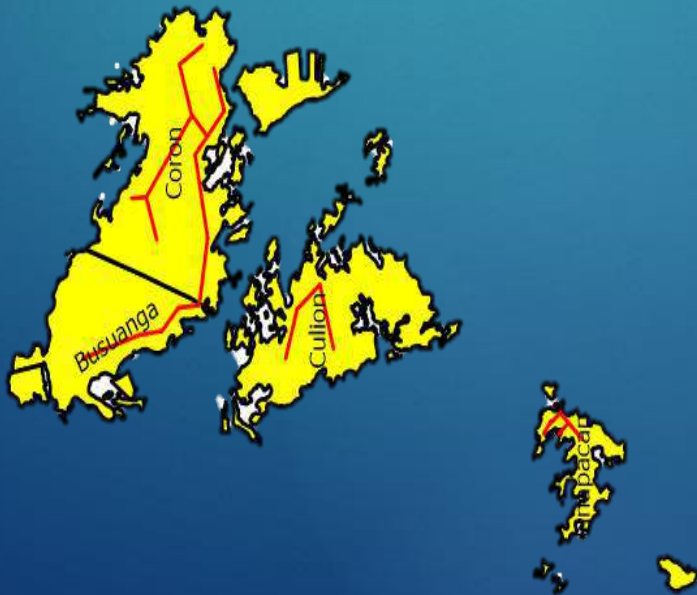
MIMAROPA Region

	Distribution Utility	Peak Demand (MW)
1	MARELCO	8.57
2	Banton	0.22
3	Corcuera	0.31
4	Concepcion	0.23
5	ROMELCO	3.42
6	TIELCO	6.14
7	ORMECO	42.70
8	OMECO	17.34
9	LUBELCO	0.80
10	BISELCO	3.93
11	PALECO	43.70
Total		127.34



Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	397,754	156,872
Commercial	27,338	56,024
Industrial	712	67,984
Others	12,724	303,337
Total	438,528	584,218

BUSUANGA ISLAND ELECTRIC COOPERATIVE, INC. (BISELCO)



Number of Barangays:

Grid: -
Off-grid: 61

Status of Household Energization:

76.6 % (12,334 HH / 16,100 HH)

Franchise Area:
1,777 sq. km.

Franchise Population:
109,656

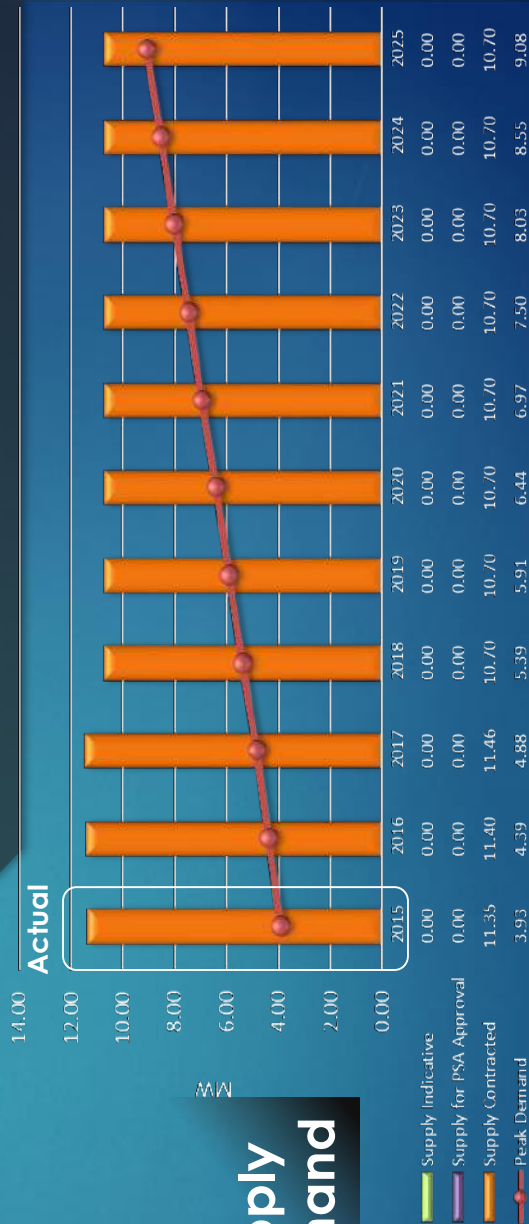
Circuit kilometer:
316.6

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	8,115	6,561
Commercial	1,160	8,139
Industrial	6	1,465
Others	331	1,374
TOTAL	9,612	17,539

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 2,631 MWh (13.04 %)

Demand Annual Average Growth Rate (2016-2025) : 8.75 %



LEGEND:

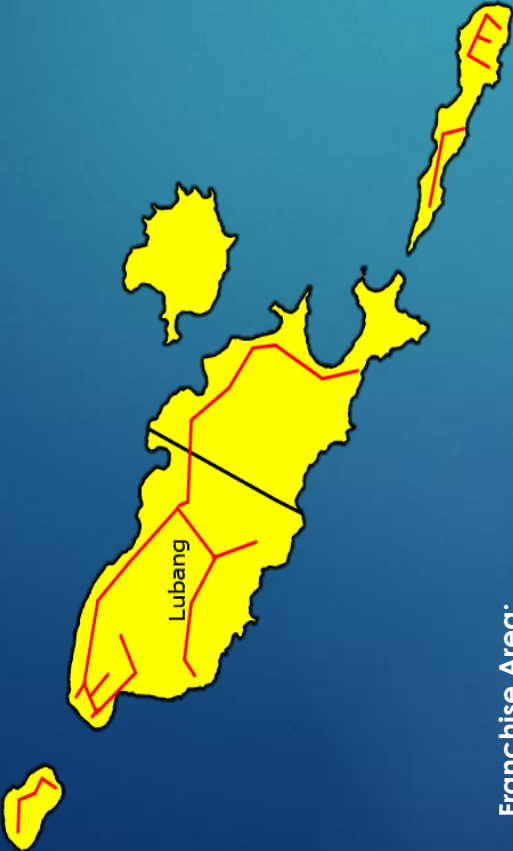


Energized Coop System
Primary Backbone

LUBANG ELECTRIC COOPERATIVE, INC. (LUBELCO)

Number of Barangays:
Grid: -
Off-grid: 25

Status of Household Energization:
80.1 % (7,688 HH / 9,600 HH)



Franchise Area:
31.1 sq. km.

Franchise Population:

Circuit kilometer:

LEGEND:



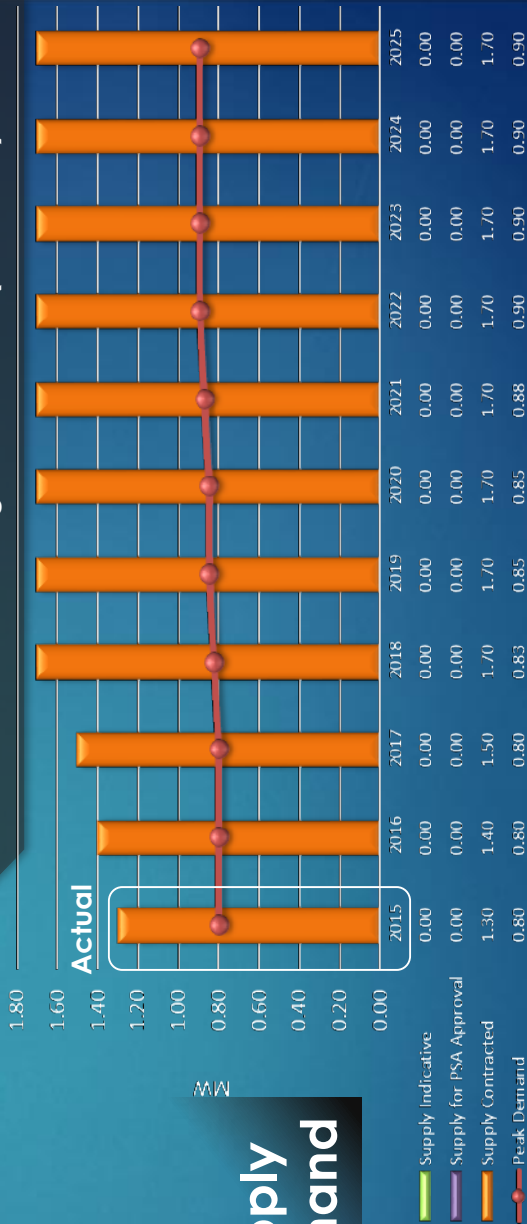
Energized Coop System
Primary Backbone

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	6,225	2,078
Commercial	131	601
Industrial	25	53
Others	181	331
TOTAL	6,562	3,063

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 373 MWh (11.29 %)

Demand Annual Average Growth Rate (2016-2025) : 1.20 %



MARINDUQUE ELECTRIC COOPERATIVE, INC. (MARELCO)



Number of Barangays:
Grid: -
Off-grid: 218

Status of Household Energization:
96.3 % (50,859 HH / 52,800 HH)

Franchise Area:
958 sq. km.

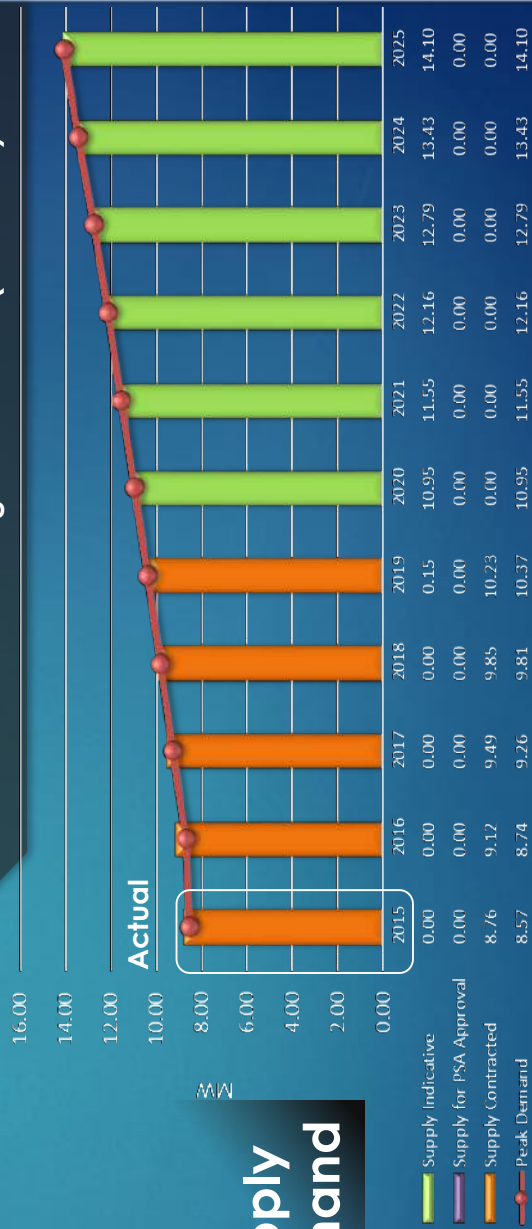
Franchise Population:
232,312

Circuit kilometer:
539.9

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	42,140	23,115
Commercial	2,617	5,093
Industrial	192	1,748
Others	1,374	5,974
TOTAL	46,323	35,931

System Loss: 6,919 MWh (16.15 %)

Demand Annual Average Growth Rate (2016-2025) : 5.11 %



LEGEND:

- Energized Coop System
- Primary Backbone

OCCIDENTAL MINDORO ELECTRIC COOPERATIVE, INC. (OMECO)

Number of Barangays: 137
Grid: -
Off-grid: 137

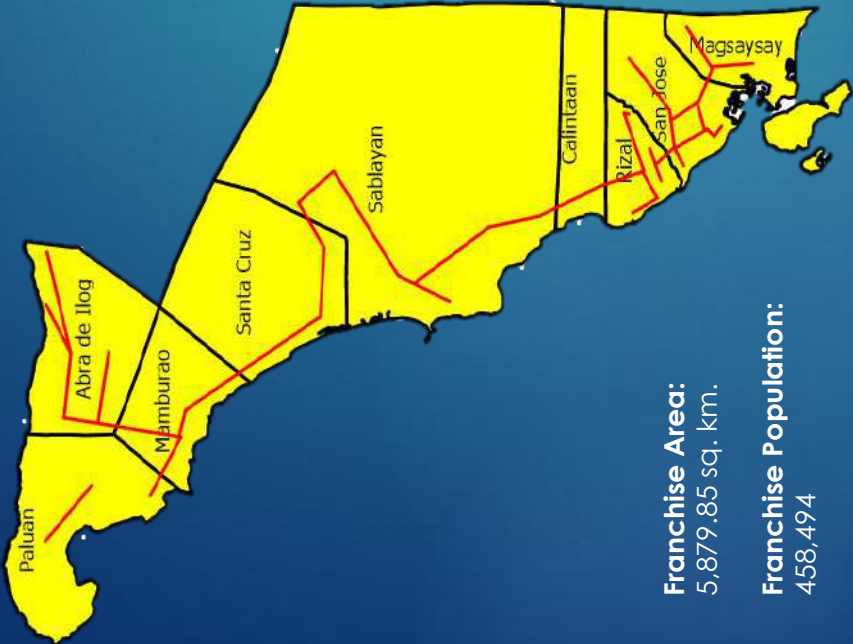
Status of Household Energization:
91.1 % (73,606 HH / 80,800 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	60,355	39,125
Commercial	3,686	15,857
Industrial	81	14,129
Others	1,525	6,788
TOTAL	65,647	75,899

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 6,919 MWh (16.15 %)

Demand Annual Average Growth Rate (2016-2025) : 5.43 %



Franchise Area:
5,879.85 sq. km.

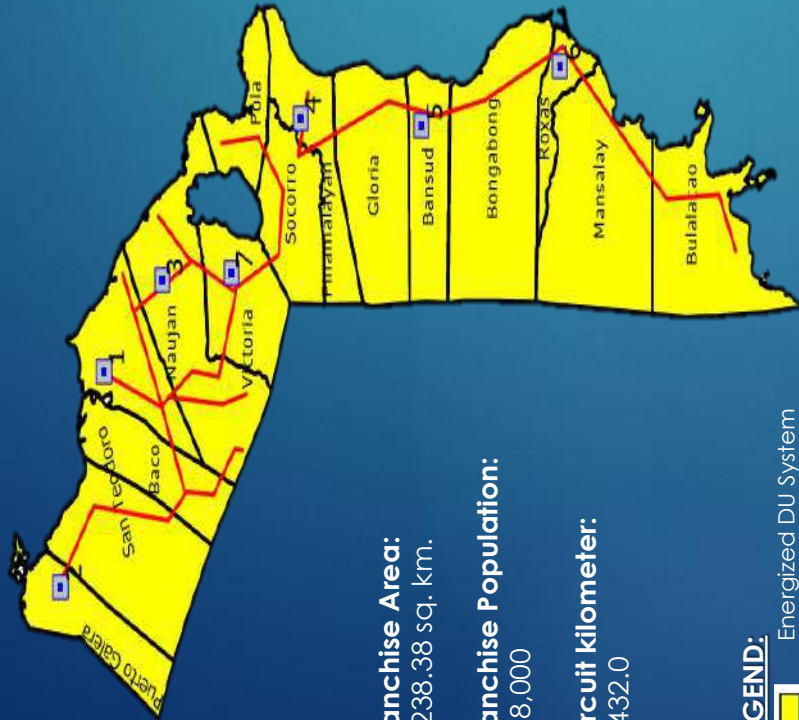
Franchise Population:
458,494

Circuit kilometer:
1,102.9

LEGEND:

- Energized Coop System
- Primary Backbone

ORIENTAL MINDORO ELECTRIC COOPERATIVE, INC. (ORMECO)



Franchise Area:
4,238.38 sq. km.

Franchise Population:
158,000

Circuit kilometer:
2,432.0

LEGEND:

- Energized DU System
- Substation
- Backbone Line

Number of Barangays:

Grid: -
Off-grid: 426

Status of Household Energization:

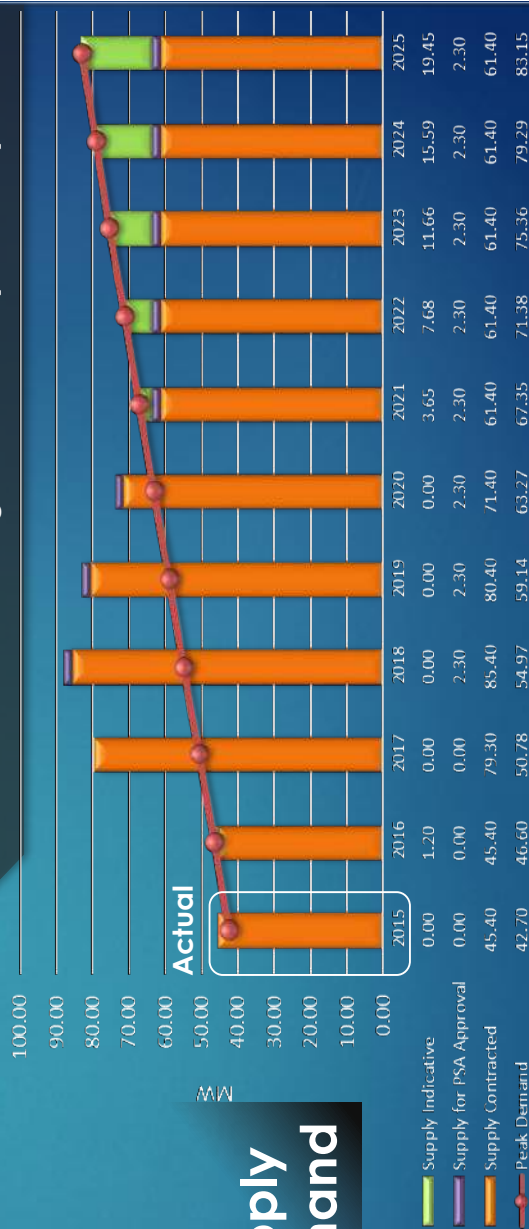
97.9 % (187,425 HH / 191,400 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	144,418	110,525
Commercial	9,621	42,904
Industrial	139	25,429
Others	4,194	20,506
TOTAL	158,372	199,364

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 25,007 MWh (11.15 %)

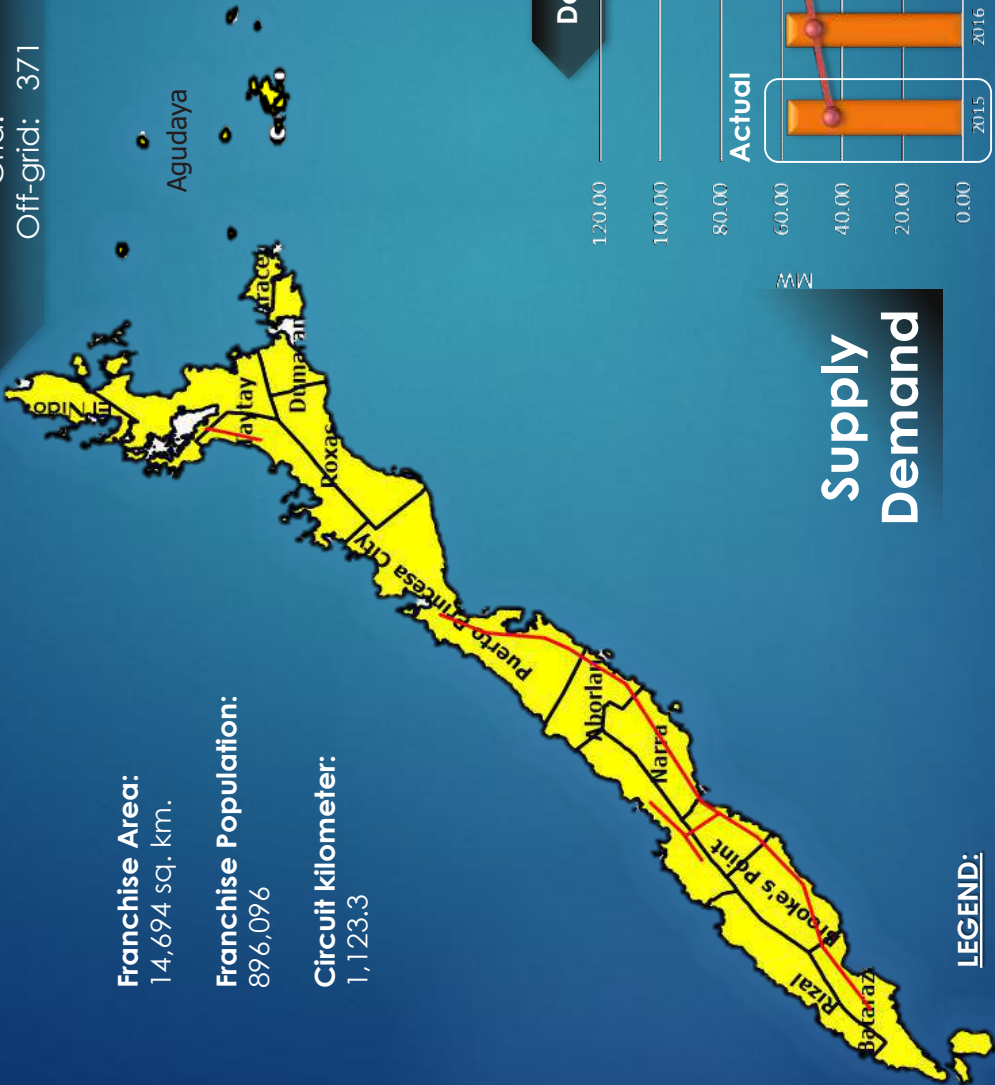
Demand Annual Average Growth Rate (2016-2025) : 6.90 %



Supply Demand

No.	SS Name	SS Capacity
1	Calapan City S/S	10 MVA
2	Puerto Galera S/S	5 MVA
3	Naujan S/S	5 MVA
4	Pinamalayan S/S	5 MVA
5	Bansud S/S	5 MVA
6	Roxas S/S	5 MVA
7	Victoria S/S	2.5 MVA

PALAWAN ELECTRIC COOPERATIVE, INC. (PALECO)



ROMBLON ELECTRIC COOPERATIVE, INC. (ROMELCO)

Number of Barangays:
Grid: -
Off-grid: 66

Status of Household Energization:
99.3 % (20,951 HH / 21,100 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	16,502	8,784
Commercial	799	2,099
Industrial	14	269
Others	728	2,590
TOTAL	18,043	13,743

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 1,565 MWh (10.23 %)

Demand Annual Average Growth Rate (2016-2025) : 3.86 %



Franchise Area:
517 sq. km.

Franchise Population:

Circuit kilometer:
378.7

LEGEND:



Energized Coop System
Primary Backbone



TABLAS ISLAND ELECTRIC COOPERATIVE, INC. (TIELCO)

Number of Barangays:

Grid: -

Off-grid: 112

Status of Household Energization:

98.4 % (37,309 HH / 37,900 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	31,996	18,663
Commercial	1,337	3,512
Industrial	126	1,147
Others	1,766	3,543
TOTAL	35,225	26,866

Franchise Area:
23.43 sq. km.

Franchise Population:
152,638

Circuit kilometer:
552.6

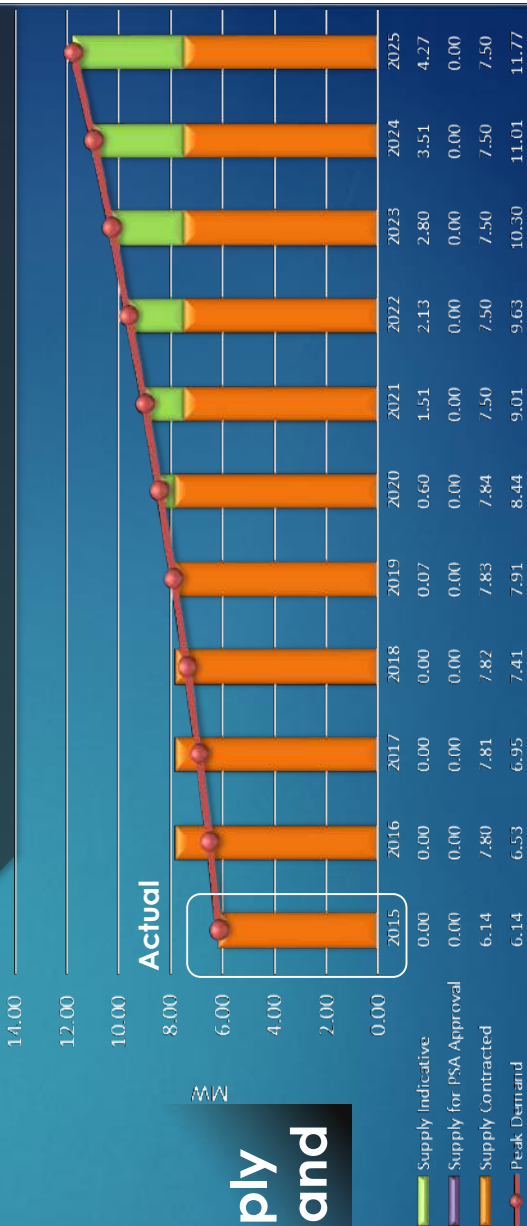
LEGEND:



Energized Coop System
Primary Backbone

System Loss: 2,633 MWh (8.92 %)

Demand Annual Average Growth Rate (2016-2025) : 6.72 %



BANTON ELECTRIC SYSTEM (BANTON)



Number of Barangays:
Grid: -
Off-grid: 112

Status of Household Energization:
0 % (0 HH / 1,816 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	1,377	175
Commercial	33	28
Industrial	0	0
Others	44	16
TOTAL	1,454	218

Franchise Area:
32.48 sq. km.

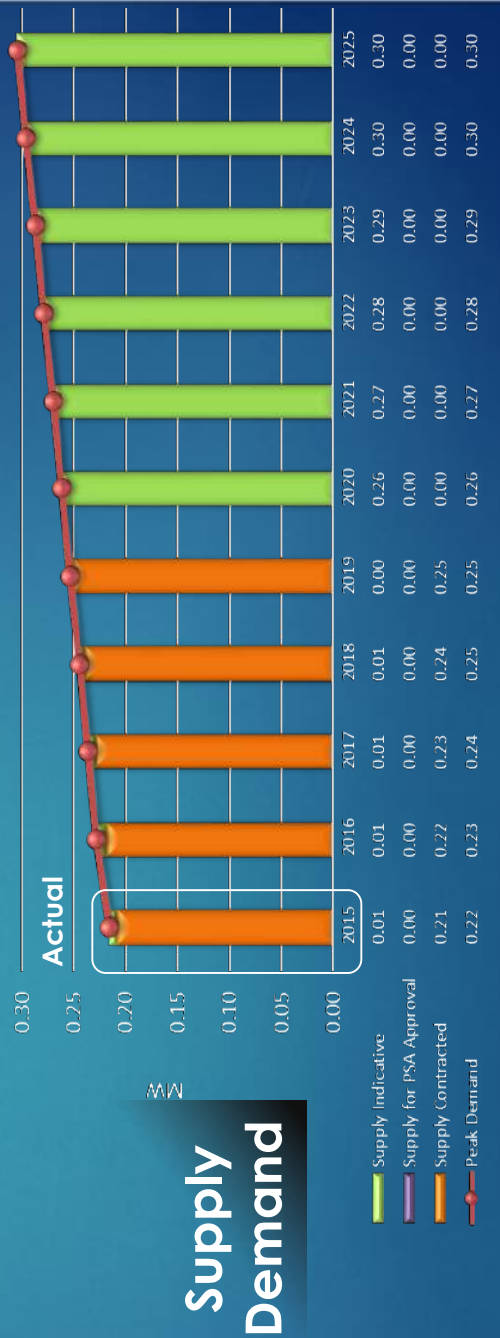
Franchise Population:
5,963

Circuit kilometer:
28.7

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 37 MWh (14.60 %)

Demand Annual Average Growth Rate (2016-2025) : 3.50 %



LEGEND:

- Energized Coop System
- Primary Backbone

CONCEPCION ELECTRIC SYSTEM (CONCEPCION)

Number of Barangays:
Grid: -
Off-grid: 9

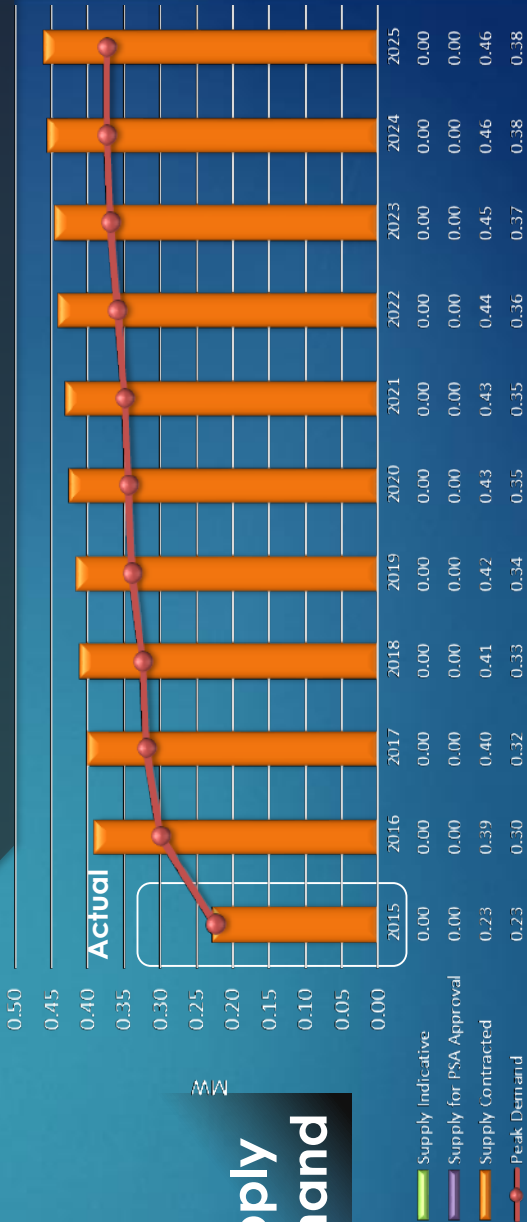
Status of Household Energization:
100 % (1,294 HH / 1,294 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	1,191	1,970
Commercial	35	243
Industrial	0	0
Others	62	559
TOTAL	1,288	2,773

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 352 MWh (10.7 %)

Demand Annual Average Growth Rate (2016-2025) : 5.61 %



Franchise Area:
20 sq. km.

Franchise Population:
4,445

Circuit kilometer:
-

CORCUERA ELECTRIC SYSTEM (CORCUERA)

Number of Barangays:
Grid: -
Off-grid: 9

Status of Household Energization:
87 % (2,457 HH / 2,825 HH)

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	2,305	398
Commercial	38	20
Industrial	0	0
Others	81	84
TOTAL	2,424	502

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 315 MWh (38.6 %)

Demand Annual Average Growth Rate (2016-2025) : 4.50 %



Franchise Area:
23.43 sq. km.
Franchise Population:
12,057
Circuit kilometer:
-



Region V

	Distribution Utility	Peak Demand (MW)
1	CANORECO	29.57
2	CASURECO I	12.91
3	CASURECO II	54.65
4	CASURECO IV	10.06
5	FICELCO	9.13
6	CASURECO III	-
7	ALECO/APEC	70.61
8	SORECO II	20.11
9	SORECO I	9.76
10	TISELCO	1.71
11	MASELCO	15.45
Total		233.96



Customer Classification	2015 Number of Customers	2015 Energy Sales
Residential	744,823	299,794
Commercial	46,751	65,668
Industrial	5,559	115,385
Others	24,515	614,845
Total	821,648	1,095,692

ALBAY ELECTRIC COOPERATIVE, INC./ALBAY POWER ENERGY CORPORATION (ALECO/APEC)

Number of Barangays: 34
Grid: 686
Off-grid: 34

Status of Household Energization:
93.8 % (235,235 HH / 250,700 HH)

Franchise Area:
2,554 sq. km.
Franchise Population:
1,223,433
Circuit kilometer:
1,833.5

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	167,632	159,244
Commercial	9,343	87,878
Industrial	382	22,863
Others	2,805	29,627
TOTAL	180,162	299,611

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 104,650 MWh (25.89 %)

Demand Annual Average Growth Rate (2016-2025) : 5.57 %



Supply Demand

No.	SS Name	SS Capacity
1	Malinao S/S	10 MVA
2	Tabaco S/S	40 MVA
3	Sto Domingo S/S	10 MVA
4	Bitano S/S	25 MVA
5	Washington S/S	20 MVA
6	Ligao S/S	15 MVA
7	Polangui S/S	10 MVA

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers



CAMARINES NORTE ELECTRIC COOPERATIVE, INC. (CANORECO)

Number of Barangays:
Grid: 273
Off-grid: -

Status of Household Energization:
94.1 % (108,911 HH / 115,800 HH)

Franchise Area:
2,200 sq. km.

Franchise Population:
-

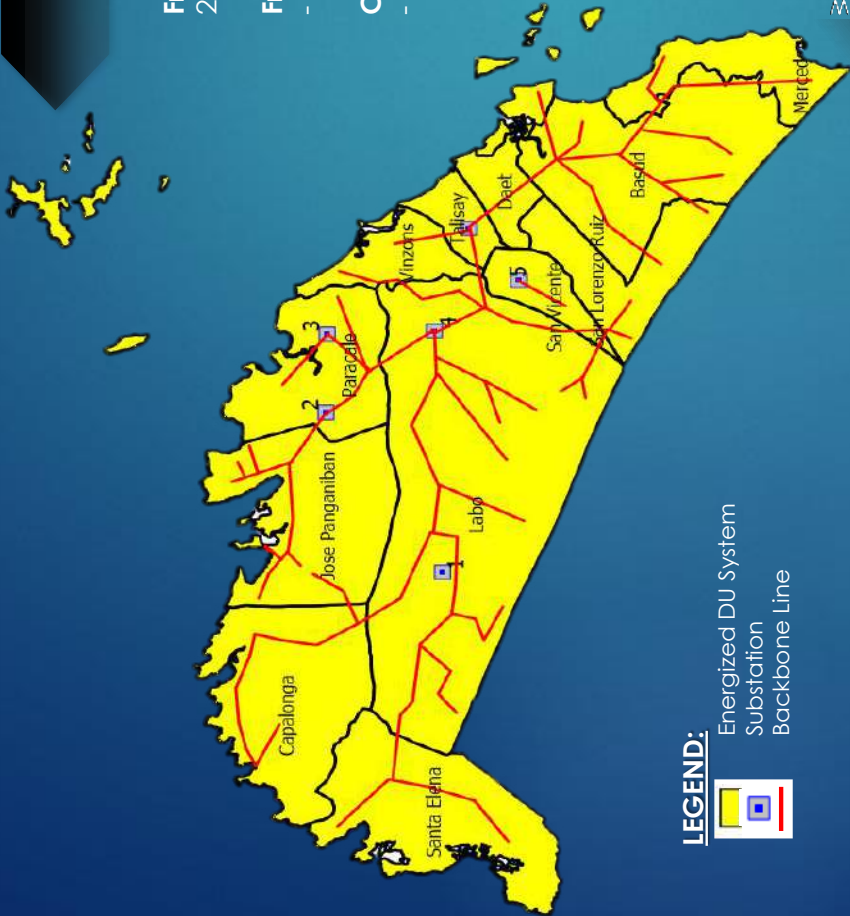
Circuit kilometer:
-

Customer Classification	Captive Customer Connection	Sales (MWh)
Residential	83,792	81,882
Commercial	4,240	31,850
Industrial	42	5,622
Others	2,127	13,794
TOTAL	90,201	133,147

Customer/s Served by RES:
Sales for Customer/s served by RES:

System Loss: 13,924 MWh (9.47 %)

Demand Annual Average Growth Rate (2016-2025) : 5.10 %



LEGEND:



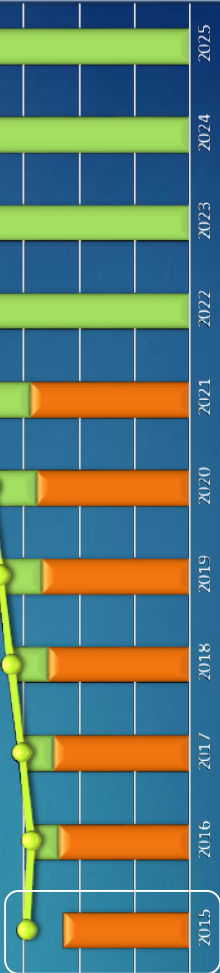
Energized DU System Substation Backbone Line

Supply Demand

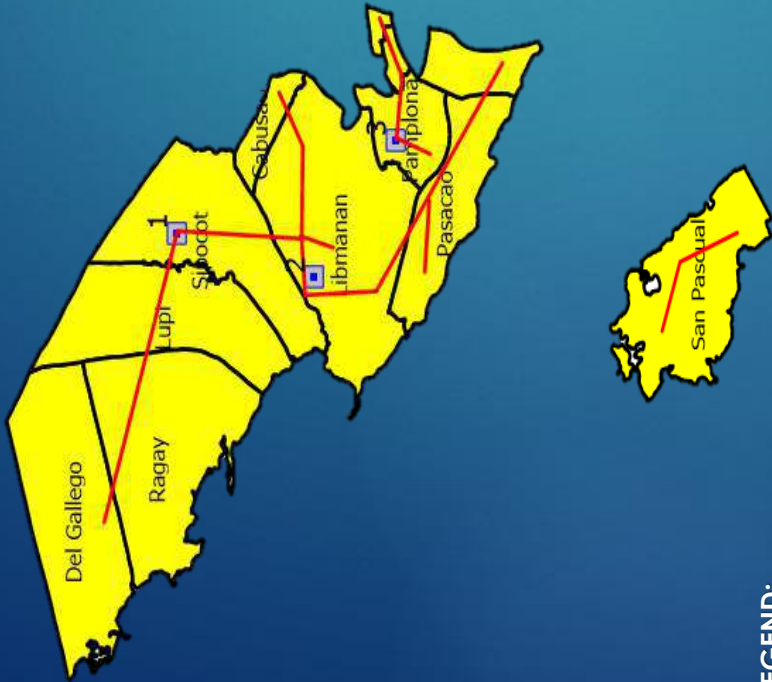
No.	SS Name	SS Capacity
1	Malatap S/S	5 MVA
2	Sta. Rosa S/S	5 MVA
3	Tawig S/S	5 MVA
4	Talobatib S/S	5 MVA
5	Calintaan S/S	15 MVA
6	Log-on S/S	10 MVA

- Supply Indicative
- Supply for PSA Approval: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

Actual



CAMARINES SUR I ELECTRIC COOPERATIVE, INC. (CASURECO I)



LEGEND:



Energized DU System
Substation
Backbone Line

Supply Demand

- Supply Indicative
- Supply for PSA Approved: Captive Customers
- Supply Contracted: Captive Customers
- Peak Demand: Franchise
- Peak Demand: Captive Customers

No.	SS Name	SS Capacity
1	Sipocot S/S	5 MVA
2	Libmanan S/S	5 MVA
3	Pamplona S/S	10 MVA

Number of Barangays:

Grid: 287

Off-grid: -

Status of Household Energization:

81.5 % (71,470 HH / 87,700 HH)

Franchise Area:

1,528.97 sq. km.

Franchise Population:

414,490

Circuit kilometer:

869.7

Customer Classification

Residential	61,918
Commercial	2,655
Industrial	65
Others	4,724

Captive Customer Connection

Residential	61,918
Commercial	2,655
Industrial	65
Others	4,724

Sales (MWh)

Residential	40,160
Commercial	8,895
Industrial	2,680
Others	4,919

TOTAL 69,362

Customer/s Served by RES:

Sales for Customer/s served by RES:

System Loss: 7,650 MWh (11.90 %)

Demand Annual Average Growth Rate (2016-2025) : 7.90 %

