

F2. POWER

Electricity is one of the most important blessings that science has given to mankind. It has also become a part of modern life and one cannot think of a world without it.

Electricity stands out among the most imperative favors that science has given to humanity. It has additionally turned into a piece of present day life. Power has numerous utilizations in our everyday life. It is utilized for lighting rooms, working fans and residential apparatuses like utilizing electric stoves. All these give solace to individuals. In industrial facilities, huge machines are worked with the assistance of power. Fundamental things like nourishment, material, paper and numerous different things are the result of power.

Table IF-13. Households Served with Electricity

Barangay	2014				
	Total No. of HH	Served		Unserved	
		No.	%	No.	%
Urban					
Alma Villa	323	252	78.02%	71	21.98%
Balete	598	498	83.28%	100	16.72%
Lucio Laurel	582	459	78.87%	123	21.13%
Macario Adriatico	244	190	77.87%	54	22.13%
Malamig	613	499	81.40%	114	18.60%
Malayong	255	115	45.10%	140	54.90%
Subtotal	2,615	2,013	76.98%	602	23.02%
Rural					
Agsalin	174	108	62.07%	66	37.93%
Agos	278	186	66.91%	92	33.09%
A. Bonifacio	285	247	86.67%	38	13.33%
Banus	492	377	76.63%	115	23.37%
Banutan	176	167	94.89%	9	5.11%
Buong Lupa	234	78	33.33%	156	66.67%
Bulaklakan	222	189	85.14%	33	14.86%
Gaudencio Antonino	357	323	90.48%	34	9.52%
Guimbonan	270	251	92.96%	19	7.04%
Kawit	444	369	83.11%	75	16.89%
Malubay	177	125	70.62%	52	29.38%
Manguyang	344	206	59.88%	138	40.12%
Maragooc	298	251	84.23%	47	15.77%
Mirayan	250	103	41.20%	147	58.80%
Narra	513	437	85.19%	76	14.81%
Papandungin	264	179	67.80%	85	32.20%
San Antonio	283	174	61.48%	109	38.52%
Sta. Maria	447	390	87.25%	57	12.75%
Sta. Theresa	352	275	78.13%	77	21.88%
Tambong	615	497	80.81%	118	19.19%
Subtotal	6,475	4,932	76.17%	1,543	23.83%
TOTAL	9,090	6,945	76.40%	2,145	23.60%

Source: Community-Based Monitoring System, 2014

Barangays are categorized into two: rural and urban barangays. Urban areas are composed of six barangays while rural barangays are composed of twenty one. With the total of 2,615 households in urban areas, 76.98% are served with electricity. 23.02% are unserved for the past three years.

Among the 6,475 households under rural barangays, 4,932 households are served with electricity while 1,543 are unserved for the past three years. In totality, 6,945 households are served and 2,145 are unserved.

Table IF-14. Number of Connections by Type of Users and Average Consumption

Type of Consumers	2014		
	No. of connections	KW	%
Domestic/ Residential	4,512	236,203	64.63%
Industrial	5	18,659	5.11%
Commercial	449	78,236	21.41%
Public Bldg.	157	31,839	8.71%
Streetlights (Public)	8	547	0.15%
Others			
Total	5,131	365,484	100.00%

Source: Local Power Service 2014

In terms of number of connections, domestic/residential consumers cover the majority with 4,512 connections. The residential sector includes single-family homes and multi-family housing, and it accounts for more than a third of the electricity used nationwide. Industrial consumers have the least number with 5 connections. Industrial customers' facilities and equipment use electricity for processing, producing, or assembling goods, including such diverse industries as manufacturing, mining, agriculture, and construction. In Municipality of Gloria, 5,131 connections are present.

Table IF-15. Projected Number of Connections by Type of Users and Average Consumption (KWH/Mo.)

Type of Consumers	2014		2015		2016		2017		2018	
	KW	%	KW	%	KW	%	KW	%	KW	%
1. Domestic	236,203	64.63%	242,108	64.63%	248,161	64.63%	254,365	64.63%	260,724	64.63%
2. Industrial	18,659	5.11%	19,125	5.11%	19,604	5.11%	20,094	5.11%	20,596	5.11%
3. Commercial	78,236	21.41%	80,192	21.41%	82,197	21.41%	84,252	21.41%	86,358	21.41%
4. Institutional	31,839	8.71%	32,635	8.71%	33,451	8.71%	34,287	8.71%	35,144	8.71%
5. Agricultural	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
6. Streetlights (Public)	547	0.15%	561	0.15%	575	0.15%	589	0.15%	604	0.15%
Total	365,484	100.00%	374,621	100.00%	383,987	100.00%	393,587	100.00%	403,426	100.00%

Source: Local Power Service 2014

The number of connections depends on the type of consumers. For the past years, domestic consumers have the greatest consumption in electricity. Agricultural consumers have zero consumption. It is noticeable that every year has increase in electricity consumption as interpreted and projected in connections and average consumption.

Table IF-17. Power Substations, Year 2017

Name of Substation	Barangay	Area Occupied (ha)	Year Constructed	Voltage	Hazard Susceptibility (H/M/L)						
				(kw)	Fl	Tc	Eq	Vo	Ln	Ts	Su
Mindoro Grid Corp.	Maligaya	0.075	2017	5,000	L	L	L	L	L	L	L

Source: Municipal Engineering Office 2017

Mindoro Grid Corp is the first power substation in the Municipality of Gloria. It is located at Barangay Maligaya with 0.075 hectares area occupied. The substation has low level in all hazard susceptibilities.

Table IF-18. Power Plants, Year 2017

Name of Power Plant	Barangay	Ownership	Area Occupied	Year Constructed	Capacity (MW)	Type of Plant	Date of Commission/ Operation	Hazard Susceptibility (H/M/L)						
								Fl	Tc	Eq	Vo	Ln	Ts	Su
NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE							

Power plants produce electricity that sustains the community. However, there is no existing plant in Gloria in any type and form.

Development Needs

Power services in Gloria are currently provided by the National Electrification Administration through the Oriental Mindoro Electric Cooperative, Inc. (ORMECO). There is one power substation in Gloria named Mindoro Grid Coporation that supplies electricity to Gloria and nearby municipality. There is also cases of unserved households are barangays like Manguyang, Banus, Malayong, Buong Lupa and Mirayan. These barangays are situated in remote areas of the municipality. In order to speed up developments in these areas, there is clearly a need to provide for a cheap and efficient source of electricity.