**POWER**

**Household Served and Unserved by Electricity**

**Electric Services**

Electric Power Services are provided by CENPELCO, the nearest branch located at Brgy. Banaoang serves as the collection office of CENPELCO where Mangaldan subscribers pay their fees. The 30 barangays of Mangaldan are now all served by electricity. Of the total households of 19,056 or 77.48 percent are served (as of 2014). Others depend on kerosene for lighting.

**Table 106: Households Served and Unserved by Electricity 2014**

|  |  |  |
| --- | --- | --- |
|  | **Number of Households** | **Percentage** |
| Served | 16,159 | 77.48 |
| Unserved | 4,696 | 22.52 |
| **TOTAL** | **20,855** | **100.00** |

*Source: CENPELCO Mangaldan*

**Number of Connections by Type of Users and Average Consumption**

The types users of electric power services include residential, industrial, commercial, public/institutional, agricultural, street lights and other special lighting. Their average monthly consumption varies from their actual usage per month.

**Table 107: Number of Connections by Type of Users and Average Consumption**

| **Type of Connection** | **Number of Connections** | **Ave. Consumption (KHW/mo)** |
| --- | --- | --- |
| Residential | 15,710 | 1,637,769 |
| Industrial | 23 | 45,558 |
| Commercial | 1,121 | 556,619 |
| Public/Institutional | 148 | 170,178 |
| Agricultural | 0 | 7,212 |
| Street Lights | 13 | 5,395 |
| Special Lighting | 18 | 2,422,730 |
| **TOTAL** | 17,033 | 4,845,461 |

*Source: CENPELCO Mangaldan, 2014*

For lighting, majority of the households utilize electricity 77.48 percent of the total households use electricity, 22.52 percent use kerosene and LPG (DOH Data). But for those households which do not have electricity connections, kerosene is the alternative source. For cooking purposes LPG, followed by wood and charcoal.

**Power Interruptions**

Power supply is on a 24-hour basis. Only when there are damages on electric lines and transformers and only during storms do power interruptions occur. For minor damages, power interruptions lasts for about 1-3 hours.

**Power Consumption**

Households served have an average consumption of 1637,769 KWH/ month; whereas, commercial and industrial consumers have an average of 602,177 KWH/ month; institutional has 170,178 KWH/month; agricultural has 7,212 KWH/month; streetlights have 5,395 KWH/ month and the special lighting has 2,422,730 KWH/month.

**Projected Needs**

The quality of electric services supports and complements the economic activities of the municipality. Thus, expansion services are needed in order to provide electricity particularly in rural areas where installation of electrical post is difficult.

CENPELCO must reduce its rates in electrical connection in order for the poor residents to afford CENPELCO electric services. For remote areas, high cost of installation is the major problem. Thus, CENPELCO must extend programs and solutions that would cater to this problem. Maintenance and monitoring of facilities must be done regularly to avoid power interruptions.

**Table 108: Power Matrix Analysis**

|  |  |  |
| --- | --- | --- |
| **Problems/Issues/ Concerns** | **Recommendations** | **Policies/Strategies** |
| * Assessment of transformer’s capacity- how many residential buildings can accommodate on each power transformer unit. | * Consistent monitoring to avoid malfunctions of transformer and overloading. | - |
| * Special consideration for existing residential building to have their own power connection even they don’t have building permit/electrical permit. |  |  |
| * Electric posts and wirings | * Monitoring the standard set-up of electric posts and wirings. | - |
| * Excessive or high power rates and unexplained | * Power cost reduction and explanation of increased rates. | - |
| * Frequent power interruption | * Lessen power interruption | - |
| * Unannounced disconnection of service lines to residents. | * Distribute early notice disconnection. | - |