



INFORME DE GESTION DE SEGUIMIENTO Y CONTROL DE CLIENTE LIBRE PARA LA EMPRESA PAPELERA REYES SAC

STILAR ENERGY SRL

MES DE AGOSTO DEL 2021

**Ing. Eduardo Tiravanti Zapata - CIP 67938
22/09/2021**

CONTENIDO

1. <u>Memoria Descriptiva</u>	3
2. <u>Resultados Mensuales</u>	4
3. <u>Resultados Anuales</u>	5
4. <u>Observaciones y Conclusiones</u>	6
5. <u>Anexos</u>	7
5.1	Tabla de consumos Históricos
5.2	Gráficos de Consumos Históricos
5.3	DMD para AGOSTO 2021
5.4	Consumos diarios de energía eléctrica en Agosto de 2021
5.5	Comparación de facturaciones de suministrador con Sistema de monitoreo Interno para Agosto 2021.

1. Memoria Descriptiva

- ✓ La empresa está considerada ahora como cliente libre MT1 con potencia contratada 2,500 KW, con la empresa Generadora ATRIA ENERGIA, que ha iniciado contrato desde el 01 de Junio 2016. Se sigue con la gestión para contratar un aumento de demanda contratada, en una primera etapa a 3,500 KW.
- ✓ Ya como clientes libres MT1, se ha obtenido, este mes de Agosto 2021, ahorros de **S/.76,545.39 (12.49%)**, con respecto a la tarifa regulada MT3 anterior, quedando la tabla comparativa como:

RESULTADO EVALUACION TARIFARIA
PAPELERA REYES SAC
CALIFICACION DE CLIENTE: PRESENTE HP

CONSUMOS	
KWH EN HORA PUNTA	222,977.20
KWH EN FUERA DE PUNTA	1,389,805.00
KW EN HORA PUNTA	2,782.00
KW EN FUERA DE PUNTA	2,788.00
KAVARH EXCEDE AL 30% DE KWH	0.00

PLAN TARIFARIO	MT2	MT3	MT4
MONTO A PAGAR S/.	612,350.79	595,739.93	602,901.01

OTROS (ELECTR RURAL) 14,578.52
 OTROS FIJOS 2,436.99

TOTAL MT3 **612,755.44**
PAGADO LIBRE MT1: **536,210.05**

AHORRO AGOSTO 2021: **76,545.39** **12.49 %**

2. Resultados Mensuales

- ✓ El consumo total de energía activa para los meses de Julio y Agosto fueron:

Julio	2021:	1 528,006.10	KWH
Agosto	2021:	1 612,782.20	KWH

- ✓ El pago que se realizó por dicho consumo para los meses de Julio y Agosto fueron:

Julio	2021:	462,641.73	Nuevos Soles
Agosto	2021:	536,210.05	Nuevos Soles

- ✓ La producción de papel en toneladas métricas para los meses de Julio y Agosto fueron:

Julio	2021:	1,037.571	TM
Agosto	2021:	1,114.159	TM

- ✓ El indicador energético de producción para los meses de Julio y Agosto fueron:

Julio	2021:	1,472.68	KWH/TM
Agosto	2021:	1,447.53	KWH/TM

- ✓ El costo de energía eléctrica por Tonelada producida fue:

Julio	2021:	445.89	S/.EE/TM
Agosto	2021:	481.27	S/.EE/TM

3. Resultados Anuales

Los resultados anuales están dados por los consumos e indicadores de los últimos doce meses al mes respectivo. La tabla a continuación muestra estos resultados para los últimos doce meses. Esta tabla nos servirá para poder comparar cómo irán variando las diversas variables (anuales) de gestión (línea Base) mes a mes (últimos doce meses):

Principales indicadores energéticos Anuales

MES	Consumo anual (Kwh/año)	Precio Promedio (soles/Kwh)	Costo anual (soles/año)	Producción Anual Ton	IEP kWh/Ton	IEP S./EE/ Ton	Factor de carga promedio (%)
SET 2020	19,366,194	0.2853	5,525,169	14,011.56	1,382.16	394.33	74.88
OCT 2020	19,145,379	0.2903	5,558,614	13,721.49	1,395.28	405.10	74.03
NOV 2020	19,028,971	0.2881	5,482,249	13,705.99	1,388.37	399.99	74.01
DIC 2020	18,568,498	0.2858	5,306,659	13,531.82	1,372.21	392.16	72.36
ENE 2021	18,246,736	0.2854	5,208,434	13,575.03	1,344.14	383.68	70.99
FEB 2021	18,442,560	0.2824	5,208,841	13,803.56	1,336.07	377.35	71.47
MAR 2021	18,527,566	0.2784	5,158,960	13,842.40	1,338.46	372.69	73.12
ABR 2021	19,537,814	0.2785	5,441,989	14,656.46	1,333.05	371.30	76.16
MAY 2021	19,659,961	0.2816	5,537,037	14,737.20	1,334.04	375.72	76.42
JUN 2021	19,585,176	0.2855	5,591,605	14,668.00	1,335.23	381.21	76.28
JUL 2021	19,326,831	0.2890	5,586,149	14,434.36	1,338.95	387.00	75.65
AGO 2021	19,117,559	0.2948	5,635,629	14,229.36	1,343.53	396.06	75.05

4. Observaciones y Conclusiones

- ✓ Visualizando los pagos realizados por los consumos de energía eléctrica de julio y agosto 2021, tenemos un pago mayor de **S/. 73,568.32**. Esto se debe básicamente al mayor consumo de este mes con respecto al mes anterior, producto de una mayor producción. La demanda coincidente se ha dado el **27/08/2021 a las 21:45**, y, esta hora de registro de la demanda máxima del SEIN no es común, solo ocurre cada 2 años. En este intervalo de coincidencia se obtuvo un valor de **2,276.00 KW**, mientras que en el mes anterior el valor de la demanda coincidente fue de **1,486.40 KW**, **esto también influye en el aumento del costo eléctrico de este mes**. La producción ha cerrado en **1,114.159 Toneladas**. Los indicadores energéticos han resultado en **1,447.53 KWH/TM** y de **481.27 S/.EE/TM**. Para próximos meses, siempre recordar que es importante seguir controlando los consumos que se hacen entre las **18:30 a 21:00 horas**, que es cuando se presenta normalmente la demanda coincidente.

- ✓ En este mes de Agosto, ha habido un ahorro de **S/.76,545.39 (12.49%)**, con respecto a la tarifa anterior regulada MT3.

- ✓ La relación de la energía reactiva entre la energía activa para este mes de Agosto ha sido menor al 30%, por ello no se tiene pago de penalidad por este concepto.

- ✓ Los ahorros acumulados, con respecto al mercado regulado anterior MT3, se muestran en la siguiente tabla:

MES	PLANTA		MES	PLANTA		MES	PLANTA	
	Ahorro S/.	%		Ahorro S/.	%		Ahorro S/.	%
Jul-19	53,766.14	9.83	Jul-20	144,239.32	23.56	Jul-21	97,488.72	17.40
Ago-19	41,335.99	7.22	Ago-20	130,993.77	21.21	Ago-21	76,545.39	12.49
Set-19	30,313.59	5.56	Set-20	112,356.90	19.42	Set-21		
Oct-19	167,053.48	28.67	Oct-20	115,393.71	20.44	Oct-21		
Nov-19	76,227.27	12.85	Nov-20	153,325.61	25.81	Nov-21		
Dic-19	54,055.93	9.18	Dic-20	150,958.82	29.60	Dic-21		
Ene-20	56,940.43	10.11	Ene-21	116,624.29	22.23	Ene-22		
Feb-20	45,743.35	9.58	Feb-21	140,244.37	24.49	Feb-22		
Mar-20	69,376.45	11.20	Mar-21	148,028.63	22.83	Mar-22		
Abr-20	77,803.01	23.25	Abr-21	107,149.38	16.56	Abr-22		
May-20	80,016.77	16.50	May-21	47,635.48	8.70	May-22		
Jun-20	126,124.74	20.59	Jun-21	74,594.36	12.12	Jun-22		
AHORRO TOTAL	S/. 878,757.17		AHORRO TOTAL	S/. 1,441,544.65		AHORRO TOTAL	S/. 174,034.11	

Los mayores ahorros obtenidos en el último año se deben a que se ha estado controlando las cargas que entran entre las 18:15 a 21:00 horas, que es donde se presenta la demanda máxima del SEIN.

5. Anexos

Estamos adjuntando en el siguiente acápite las Tablas y Gráficos de los Consumos Eléctricos y Producción históricos de los últimos doce meses, y, para los años 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 y 2021. Estos datos nos sirven para el seguimiento respectivo de los consumidores en la empresa y saber exactamente si mantenemos nuestros niveles de eficiencia en el consumo eléctrico de planta.

CONSUMOS ELECTRICOS ULTIMOS 12 MESES

MES	KWhr - FP	KWhr - HP	KWhr-TOTAL	KW - FP	KW - HP	DEM.COIN KW	kVArHr >30%	PRODUCC TN	IE KWH/TON	PAGADO S/.	FC %	P_PRO S./KWH	RAT PROD S./KWH/TN
Set-20	1,433,173.60	248,649.30	1,681,822.90	2,829.60	2,814.00	1,507.20	0.00	1,304.194	1,289.55	466,266.23	79.89	0.2772	357.51
Oct-20	1,363,372.40	228,650.00	1,592,022.40	2,926.80	2,808.00	1,388.40	0.00	1,088.689	1,462.33	449,048.02	73.11	0.2821	412.47
Nov-20	1,433,278.30	229,262.70	1,662,541.00	2,728.80	2,627.40	1,122.00	0.00	1,305.798	1,273.20	440,731.91	81.89	0.2651	337.52
Dic-20	1,118,825.60	201,167.10	1,319,992.70	2,720.80	2,626.80	930.80	0.00	1,118.515	1,180.13	359,091.11	65.21	0.2720	321.04
Ene-21	1,133,422.90	216,903.30	1,350,326.20	2,842.40	2,786.00	1,605.20	0.00	1,222.190	1,104.84	408,084.82	63.85	0.3022	333.90
Feb-21	1,294,806.60	228,649.30	1,523,455.90	2,965.60	2,922.80	1,472.40	0.00	1,098.769	1,386.51	432,373.80	69.05	0.2838	393.51
Mar-21	1,555,511.20	282,322.20	1,837,833.40	2,916.00	2,860.00	1,483.60	0.00	1,324.505	1,387.56	500,441.15	84.71	0.2723	377.83
Abr-21	1,529,364.60	247,468.30	1,776,832.90	3,038.80	2,988.80	2,046.00	0.00	1,312.064	1,354.23	539,796.83	78.59	0.3038	411.41
May-21	1,252,236.40	231,520.90	1,483,757.30	2,835.20	2,745.60	2,507.20	0.00	1,056.141	1,404.89	499,933.53	70.34	0.3369	473.36
Jun-21	1,490,946.20	257,240.70	1,748,186.90	2,865.20	2,826.00	2,218.00	0.00	1,246.761	1,402.18	541,010.05	82.01	0.3095	433.93
Jul-21	1,314,950.30	213,055.80	1,528,006.10	2,766.40	2,725.60	1,486.40	0.00	1,037.571	1,472.68	462,641.73	74.24	0.3028	445.89
Ago-21	1,389,805.00	222,977.20	1,612,782.20	2,788.00	2,782.00	2,276.00	0.00	1,114.159	1,447.53	536,210.05	77.75	0.3325	481.27
12 mes	16,309,693.10	2,807,866.80	19,117,559.90	3,038.80	2,988.80	2,507.20	0.00	14,229.36	1,343.53	5,635,629.23	75.05	0.2948	396.06

CONSUMOS ELECTRICOS HISTORICOS AÑO 2010

MES	KWhr - FP	KWhr - HP	KWhr-TOTAL	KW - FP	KW - HP	kVArHr	PRODUCC TN	IE KWH/TON	PAGADO S/.	FC %	PREC PROM S./KWH	RAT PROD S./KWH/TN
Ene-10	437,457.00	62,796.00	500,253.00	1,020.00	578.40	86,337.00	359.814	1,390.31	83,708.95	68.12	0.1673	232.65
Feb-10	423,939.60	61,251.00	485,190.60	1,029.60	552.00	102,390.30	345.730	1,403.38	81,958.49	65.45	0.1689	237.06
Mar-10	431,445.60	60,266.40	491,712.00	1,003.20	535.20	109,569.15	360.709	1,363.18	88,825.06	68.08	0.1806	246.25
Abr-10	445,679.40	58,387.80	504,067.20	1,068.00	561.60	136,801.35	324.724	1,552.29	90,449.33	65.55	0.1794	278.54
May-10	446,611.20	61,042.80	507,654.00	1,068.00	564.00	148,954.95	312.335	1,625.35	86,683.78	66.02	0.1708	277.53
Jun-10	418,815.00	60,342.60	479,157.60	1,209.60	549.60	77,323.95	305.550	1,568.18	85,738.48	55.02	0.1789	280.60
Jul-10	456,426.60	59,815.20	516,241.80	1,286.40	564.00	80,075.25	336.422	1,534.51	93,973.59	55.74	0.1820	279.33
Ago-10	362,750.40	50,213.40	412,963.80	1,288.80	578.40	65,163.00	362.396	1,139.54	79,775.24	44.50	0.1932	220.13
Set-10	486,242.40	69,954.60	556,197.00	1,303.20	597.60	108,458.00	333.162	1,669.45	97,727.38	59.28	0.1757	293.33
Oct-10	414,960.60	61,105.80	476,066.40	1,399.20	628.80	85,877.00	321.172	1,482.28	91,059.39	47.26	0.1913	283.52
Nov-10	495,873.60	71,441.40	567,315.00	1,327.20	645.60	130,721.00	318.801	1,779.53	102,504.01	59.37	0.1807	321.53
Dic-10	486,014.40	64,499.40	550,513.80	1,348.80	628.80	155,310.00	369.223	1,491.01	101,328.64	56.69	0.1841	274.44
TOTAL:	5,306,215.80	741,116.40	6,047,332.20	1,399.20	645.60	1,286,980.95	4,050.04	1,493.15	1,083,732.34	59.26	0.1792	267.59

CONSUMOS ELECTRICOS HISTORICOS AÑO 2011

MES	KWhr - FP	KWhr - HP	KWhr-TOTAL	KW - FP	KW - HP	kVArHr	PRODUCC TN	IE KWH/TON	PAGADO S/.	FC %	PREC PROM S./KWH	RAT PROD S./KWH/TN
Ene-11	471,238.20	67,716.00	538,954.20	1,267.20	664.80	129,054.00	355.732	1,515.06	104,251.29	59.07	0.1934	293.06
Feb-11	425,040.00	62,700.00	487,740.00	1,278.00	612.00	106,814.00	328.274	1,485.77	95,168.53	53.01	0.1951	289.91
Mar-11	503,340.00	73,080.00	576,420.00	1,350.00	1,212.00	88,860.00	318.979	1,807.08	111,206.01	59.30	0.1929	348.63
Abr-11	529,800.00	80,640.00	610,440.00	1,596.00	1,152.00	158,760.00	322.713	1,891.59	118,910.75	53.12	0.1948	368.47
May-11	677,760.00	107,880.00	785,640.00	1,722.00	930.00	267,300.00	469.039	1,675.00	145,745.38	63.37	0.1855	310.73
Jun-11	535,692.50	79,061.33	614,753.83	1,427.00	866.60	151,991.00	412.016	1,492.06	117,092.92	59.83	0.1905	284.20
Jul-11	688,893.33	96,600.00	785,493.33	1,788.00	1,026.00	169,213.00	475.863	1,650.67	146,565.29	61.02	0.1866	308.00
Ago-11	802,080.00	122,580.00	924,660.00	1,998.00	1,890.00	262,680.00	568.744	1,625.79	187,398.07	64.28	0.2027	329.49
Set-11	1,029,900.00	201,780.00	1,231,680.00	2,208.00	2,064.00	410,580.00	640.895	1,921.81	241,286.59	77.48	0.1959	376.48
Oct-11	865,020.00	156,000.00	1,021,020.00	2,190.00	2,112.00	203,820.00	555.711	1,837.32	213,234.43	64.75	0.2088	383.71
Nov-11	734,520.00	98,340.00	832,860.00	2,172.00	1,560.00	99,420.00	384.790	2,164.45	170,212.14	53.26	0.2044	442.35
Dic-11	753,120.00	102,180.00	855,300.00	1,824.00	912.00	88,140.00	466.080	1,835.09	168,387.31	65.13	0.1969	361.28
TOTAL:	8,016,404.03	1,248,557.33	9,264,961.36	2,208.00	2,112.00	2,136,632.00	5,298.84	1,748.49	1,819,458.71	61.13	0.1964	343.37

CONSUMOS ELECTRICOS HISTORICOS AÑO 2012

MES	KWHr-FP	KWHr-HP	KWHr-TOTAL	KW-FP	KW-HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
							TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
Ene-12	644,400.00	97,140.00	741,540.00	1,674.00	954.00	66,540.00	451.100	1,643.85	152,858.77	61.52	0.2061	338.86
Feb-12	663,180.00	93,300.00	756,480.00	1,680.00	1,398.00	63,420.00	441.585	1,713.10	159,444.70	62.54	0.2108	361.07
Mar-12	849,960.00	124,380.00	974,340.00	2,202.00	1,314.00	159,600.00	602.707	1,616.61	199,910.25	61.46	0.2052	331.69
Abr-12	876,300.00	119,520.00	995,820.00	2,280.00	2,016.00	196,320.00	607.387	1,639.51	205,439.77	60.66	0.2063	338.24
May-12	897,900.00	129,660.00	1,027,560.00	2,322.00	1,476.00	226,740.00	624.812	1,644.59	206,310.15	61.46	0.2008	330.20
Jun-12	662,340.00	100,140.00	762,480.00	1,956.00	1,014.00	91,200.00	423.166	1,801.85	163,212.62	54.14	0.2141	385.69
Jul-12	775,080.00	108,540.00	883,620.00	1,944.00	966.00	124,920.00	562.635	1,570.50	177,905.47	63.13	0.2013	316.20
Ago-12	856,680.00	133,320.00	990,000.00	2,238.00	1,320.00	184,560.00	629.595	1,572.44	200,401.20	61.44	0.2024	318.30
Set-12	547,800.00	80,400.00	628,200.00	2,190.00	1,398.00	76,440.00	380.368	1,651.56	147,362.39	39.84	0.2346	387.42
Oct-12	1,000,500.00	151,320.00	1,151,820.00	2,196.00	1,404.00	263,880.00	775.627	1,485.02	238,324.24	72.85	0.2069	307.27
Nov-12	773,160.00	123,960.00	897,120.00	2,160.00	1,314.00	151,560.00	557.129	1,610.26	186,751.51	57.69	0.2082	335.20
Dic-12	795,660.00	121,440.00	917,100.00	2,136.00	1,320.00	165,480.00	642.569	1,427.24	187,377.61	59.63	0.2043	291.61
TOTAL:	9,342,960.00	1,383,120.00	10,726,080.00	2,322.00	2,016.00	1,770,660.00	6,698.68	1,601.22	2,225,298.68	59.70	0.2075	332.20

CONSUMOS ELECTRICOS HISTORICOS AÑO 2013

MES	KWHr-FP	KWHr-HP	KWHr-TOTAL	KW-FP	KW-HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
							TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
Ene-13	799,200.00	121,440.00	920,640.00	2,130.00	1,278.00	179,400.00	488.693	1,883.88	182,484.45	60.03	0.1982	373.41
Feb-13	713,100.00	115,860.00	828,960.00	2,148.00	1,308.00	178,680.00	515.791	1,607.16	179,350.97	53.60	0.2164	347.72
Mar-13	672,240.00	103,200.00	775,440.00	2,064.00	1,326.00	107,160.00	527.011	1,471.39	171,225.38	52.18	0.2208	324.90
Abr-13	943,380.00	134,700.00	1,078,080.00	2,172.00	1,356.00	253,380.00	694.144	1,553.11	217,758.28	68.94	0.2020	313.71
May-13	894,060.00	120,720.00	1,014,780.00	2,220.00	1,338.00	236,640.00	619.320	1,638.54	201,317.91	63.49	0.1984	325.06
Jun-13	891,900.00	116,940.00	1,008,840.00	2,226.00	1,476.00	277,320.00	560.098	1,801.18	204,983.73	62.95	0.2032	365.98
Jul-13	874,920.00	118,020.00	992,940.00	2,166.00	1,692.00	247,740.00	620.629	1,599.89	205,308.17	63.67	0.2068	330.81
Ago-13	1,122,360.00	136,320.00	1,258,680.00	2,196.00	1,362.00	391,980.00	779.504	1,614.72	250,472.68	79.61	0.1990	321.32
Set-13	882,540.00	125,100.00	1,007,640.00	2,046.00	1,296.00	245,220.00	641.162	1,571.58	211,646.31	68.40	0.2100	330.10
Oct-13	865,560.00	130,020.00	995,580.00	2,028.00	1,296.00	164,580.00	586.807	1,696.61	209,437.01	68.18	0.2104	356.91
Nov-13	763,500.00	104,040.00	867,540.00	2,046.00	1,254.00	120,900.00	426.694	2,033.17	193,784.34	58.89	0.2234	454.15
Dic-13	879,060.00	125,640.00	1,004,700.00	2,190.00	1,332.00	173,160.00	651.069	1,543.15	207,476.03	63.72	0.2065	318.67
TOTAL:	10,301,820.00	1,452,000.00	11,753,820.00	2,226.00	1,692.00	2,576,160.00	7,110.92	1,652.92	2,435,245.26	63.64	0.2072	342.47

CONSUMOS ELECTRICOS HISTORICOS AÑO 2014

MES	KWHr-FP	KWHr-HP	KWHr-TOTAL	KW-FP	KW-HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
							TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
Ene-14	1,070,040.00	140,700.00	1,210,740.00	2,214.00	1,518.00	251,580.00	829.497	1,459.61	243,242.22	75.95	0.2009	293.24
Feb-14	906,300.00	130,320.00	1,036,620.00	2,226.00	1,812.00	195,600.00	708.187	1,463.77	217,570.44	64.68	0.2099	307.22
Mar-14	891,900.00	133,680.00	1,025,580.00	2,196.00	1,440.00	197,280.00	705.431	1,453.83	217,729.73	64.86	0.2123	308.65
Abr-14	979,140.00	138,960.00	1,118,100.00	2,178.00	1,500.00	192,540.00	702.318	1,592.01	236,485.59	71.30	0.2115	336.72
May-14	954,540.00	137,760.00	1,092,300.00	2,190.00	1,566.00	243,180.00	652.623	1,673.71	264,296.08	69.27	0.2420	404.98
Jun-14	817,800.00	130,020.00	947,820.00	2,154.00	1,416.00	182,760.00	589.590	1,607.59	219,562.85	61.11	0.2317	372.40
Jul-14	758,940.00	99,780.00	858,720.00	2,178.00	1,356.00	143,640.00	497.713	1,725.33	206,291.70	54.76	0.2402	414.48
Ago-14	992,400.00	127,740.00	1,120,140.00	2,262.00	1,428.00	323,040.00	698.598	1,603.41	245,994.41	68.78	0.2196	352.13
Set-14	1,069,320.00	139,260.00	1,208,580.00	2,316.00	1,458.00	362,520.00	885.137	1,365.42	260,290.53	72.48	0.2154	294.07
Oct-14	1,150,920.00	143,040.00	1,293,960.00	2,286.00	1,500.00	360,660.00	901.615	1,435.16	279,127.25	78.62	0.2157	309.59
Nov-14	1,040,760.00	133,620.00	1,174,380.00	2,286.00	1,434.00	334,020.00	768.621	1,527.91	260,968.66	71.35	0.2222	339.53
Dic-14	1,156,320.00	144,600.00	1,300,920.00	2,232.00	1,386.00	349,800.00	960.839	1,353.94	300,736.98	80.95	0.2312	312.99
TOTAL:	11,788,380.00	1,599,480.00	13,387,860.00	2,316.00	1,812.00	3,136,620.00	8,900.17	1,504.23	2,952,296.44	69.51	0.2205	331.71

CONSUMOS ELECTRICOS HISTORICOS AÑO 2015

MES	KWHr -FP	KWHr -HP	KWHr-TOTAL	KW -FP	KW -HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
							TN	KWH/TON	\$/.	%	\$/KWH	\$/KWH/TN
Ene-15	754,200.00	114,720.00	868,920.00	2,142.00	1,374.00	169,080.00	594.504	1,461.59	216,258.75	56.34	0.2489	363.76
Feb-15	938,820.00	126,120.00	1,064,940.00	2,172.00	1,362.00	297,720.00	857.518	1,241.89	255,744.10	68.10	0.2401	298.24
Mar-15	1,044,360.00	137,940.00	1,182,300.00	2,196.00	1,332.00	314,280.00	867.607	1,362.71	277,714.52	74.78	0.2349	320.09
Abr-15	1,200,480.00	140,160.00	1,340,640.00	2,268.00	1,800.00	330,420.00	981.844	1,365.43	306,117.48	82.10	0.2283	311.78
May-15	1,035,120.00	133,620.00	1,168,740.00	2,262.00	1,662.00	392,700.00	838.864	1,393.24	290,838.45	71.76	0.2488	346.71
Jun-15	1,089,420.00	144,720.00	1,234,140.00	2,262.00	1,698.00	346,200.00	928.048	1,329.82	302,045.38	75.78	0.2447	325.46
Jul-15	1,130,220.00	138,960.00	1,269,180.00	2,262.00	1,362.00	309,240.00	959.203	1,323.16	319,987.26	77.93	0.2521	333.60
Ago-15	1,186,500.00	148,800.00	1,335,300.00	2,316.00	1,716.00	364,320.00	916.012	1,457.73	368,442.70	80.08	0.2759	402.22
Set-15	1,217,580.00	152,340.00	1,369,920.00	2,394.00	1,440.00	400,140.00	1,073.644	1,275.95	350,860.12	79.48	0.2561	326.79
Oct-15	1,175,286.00	150,109.20	1,325,395.20	2,382.00	1,446.00	366,438.00	918.306	1,443.30	342,676.24	77.28	0.2585	373.16
Nov-15	539,040.00	85,740.00	624,780.00	2,280.00	1,320.00	92,760.00	373.495	1,672.79	210,103.44	38.06	0.3363	562.53
Dic-15	983,940.00	129,660.00	1,113,600.00	2,418.00	1,938.00	306,420.00	667.773	1,667.63	304,412.89	63.96	0.2734	455.86
TOTAL:	12,294,966.00	1,602,889.20	13,897,855.20	2,418.00	1,938.00	3,689,718.00	9,976.82	1,393.01	3,545,201.33	70.47	0.2551	355.34

CONSUMOS ELECTRICOS HISTORICOS AÑO 2016

MES	KWHr -FP	KWHr -HP	KWHr-TOTAL	KW -FP	KW -HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
						>30%	TN	KWH/TON	\$/.	%	\$/KWH	\$/KWH/TN
Ene-16	1,063,380.00	148,380.00	1,211,760.00	2,520.00	1,866.00	0.00	933.173	1,298.54	338,970.45	66.79	0.2797	363.25
Feb-16	863,280.00	117,300.00	980,580.00	2,022.00	1,710.00	0.00	698.139	1,404.56	279,135.06	67.35	0.2847	399.83
Mar-16	1,136,400.00	137,580.00	1,273,980.00	2,412.00	2,010.00	12,546.00	933.670	1,364.49	346,623.43	73.36	0.2721	371.25
Abr-16	1,017,840.00	153,360.00	1,171,200.00	2,556.00	1,998.00	0.00	927.227	1,263.12	321,709.84	63.64	0.2747	346.96
May-16	841,476.00	116,070.00	957,546.00	2,124.00	1,836.00	0.00	784.786	1,220.14	266,412.00	62.61	0.2782	339.47
Jun-16	875,038.00	115,428.00	990,466.00	2,117.00	1,222.00	0.00	768.338	1,289.10	279,378.08	64.98	0.2821	363.61
Jul-16	1,049,805.00	129,546.00	1,179,351.00	2,200.02	1,698.69	12,369.00	923.391	1,277.20	314,865.79	74.45	0.2670	340.99
Ago-16	1,034,886.20	138,838.70	1,173,724.90	2,118.00	1,374.00	0.00	1,002.895	1,170.34	320,079.96	76.97	0.2727	319.16
Set-16	945,352.90	133,075.70	1,078,428.60	2,109.20	1,268.00	0.00	871.645	1,237.23	303,152.22	71.01	0.2811	347.79
Oct-16	1,064,150.00	151,444.00	1,215,594.00	2,574.87	2,247.45	0.00	964.899	1,259.81	323,432.94	65.57	0.2661	335.20
Nov-16	957,955.60	132,316.80	1,090,272.40	2,079.20	1,273.60	0.00	950.805	1,146.68	294,602.97	72.83	0.2702	309.85
Dic-16	594,389.70	81,536.00	675,925.70	1,976.00	1,113.20	0.00	490.475	1,378.10	196,015.84	47.51	0.2900	399.64
TOTAL:	11,443,953.40	1,554,875.20	12,998,828.60	2,574.87	2,247.45	24,915.00	10,249.44	1,268.25	3,584,378.58	67.26	0.2757	349.71

CONSUMOS ELECTRICOS HISTORICOS AÑO 2017

MES	KWHr -FP	KWHr -HP	KWHr-TOTAL	KW -FP	KW -HP	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
						>30%	TN	KWH/TON	\$/.	%	\$/KWH	\$/KWH/TN
Ene-17	1,117,591.40	171,477.90	1,289,069.30	2,438.40	2,202.40	33,945.31	1,107.598	1,163.84	356,505.97	73.42	0.2766	321.87
Feb-17	996,099.20	151,726.10	1,147,825.30	2,506.80	1,994.00	0.00	998.492	1,149.56	305,642.58	63.60	0.2663	306.10
Mar-17	1,044,739.60	165,197.00	1,209,936.60	2,553.20	2,090.00	0.00	979.032	1,235.85	324,373.74	65.82	0.2681	331.32
Abr-17	1,033,596.20	121,240.80	1,154,837.00	2,160.80	2,049.60	0.00	854.551	1,351.40	308,439.67	74.23	0.2671	360.94
May-17	764,025.30	121,501.20	885,526.50	2,171.60	1,951.20	0.00	584.692	1,514.52	230,963.43	56.64	0.2608	395.02
Jun-17	1,088,819.30	153,585.30	1,242,404.60	2,597.60	2,357.20	0.00	961.725	1,291.85	332,394.75	66.43	0.2675	345.62
Jul-17	1,307,567.50	186,427.40	1,493,994.90	2,592.80	2,140.00	20,476.53	1,132.994	1,318.63	359,426.94	80.03	0.2406	317.24
Ago-17	1,153,143.30	162,276.40	1,315,419.70	2,458.80	2,175.60	0.00	1,036.456	1,269.15	288,901.67	74.30	0.2196	278.74
Set-17	929,457.90	171,690.80	1,101,148.70	2,344.80	2,211.20	0.00	866.642	1,270.59	267,526.43	65.22	0.2430	308.69
Oct-17	1,074,323.70	165,875.00	1,240,198.70	2,339.20	2,200.00	0.00	969.048	1,279.81	284,730.43	73.64	0.2296	293.82
Nov-17	1,076,401.30	156,891.40	1,233,292.70	2,387.20	2,178.40	0.00	971.298	1,269.74	285,057.47	71.75	0.2311	293.48
Dic-17	981,105.40	142,945.10	1,124,050.50	2,329.60	2,119.60	0.00	863.861	1,301.19	323,782.79	67.01	0.2881	374.81
TOTAL:	12,566,870.10	1,870,834.40	14,437,704.50	2,597.60	2,357.20	54,421.84	11,326.39	1,274.70	3,667,745.87	69.34	0.2540	323.82

CONSUMOS ELECTRICOS HISTORICOS AÑO 2018

MES	KWHr-FP	KWHr-HP	KWHr-TOTAL	kW-FP	kW-HP	kVArHr >30%	PRODUCC TN	IE KWH/TON	PAGADO S/.	FC %	PREC PROM S/.KWH	RAT PROD S/.KWH/TN
Ene-18	257,442.10	60,902.80	318,344.90	2,026.00	2,017.20	29,429.23	190.507	1,671.04	168,614.52	21.82	0.5297	885.08
Feb-18	1,011,110.20	209,648.30	1,220,758.50	2,377.60	2,330.40	70,837.85	880.741	1,386.06	340,071.85	71.31	0.2786	386.12
Mar-18	1,277,384.20	252,811.40	1,530,195.60	2,651.60	2,639.20	209,838.22	1,157.453	1,322.04	435,888.66	80.15	0.2849	376.59
Abr-18	1,179,767.30	218,618.70	1,398,386.00	2,695.60	2,650.40	185,934.60	1,060.047	1,319.17	393,397.79	72.05	0.2813	371.11
May-18	1,228,496.60	258,278.60	1,486,775.20	2,611.20	2,584.80	144,596.74	1,147.239	1,295.96	361,002.86	79.08	0.2428	314.67
Jun-18	1,178,268.00	237,155.70	1,415,423.70	2,496.80	2,452.40	84,431.79	1,139.934	1,241.67	406,989.90	78.74	0.2875	357.03
Jul-18	1,485,504.10	240,345.70	1,725,849.80	2,600.40	2,574.00	66,795.57	1,029.235	1,676.83	391,575.22	92.18	0.2269	380.45
Ago-18	1,318,171.10	243,759.20	1,561,930.30	2,618.80	2,490.80	118,431.91	1,147.894	1,360.69	414,732.79	80.17	0.2655	361.30
Set-18	1,303,381.60	236,400.80	1,539,782.40	2,626.80	2,530.40	154,747.28	1,166.760	1,319.71	400,237.63	78.79	0.2599	343.03
Oct-18	1,369,188.10	270,071.60	1,639,259.70	2,658.80	2,591.20	186,842.79	1,254.017	1,307.21	447,308.63	82.87	0.2729	356.70
Nov-18	1,356,987.90	271,074.20	1,628,062.10	2,686.00	2,708.40	194,649.87	1,270.149	1,281.79	451,439.82	81.47	0.2773	355.42
Dic-18	1,463,243.20	254,504.50	1,717,747.70	2,714.80	2,702.40	146,332.79	1,324.917	1,296.49	473,054.16	85.04	0.2754	357.04
TOTAL:	14,428,944.40	2,753,571.50	17,182,515.90	2,714.80	2,708.40	1,592,868.64	12,768.89	1,345.65	4,684,313.83	75.31	0.2726	366.85

CONSUMOS ELECTRICOS HISTORICOS AÑO 2019

MES	KWHr-FP	KWHr-HP	KWHr-TOTAL	kW-FP	kW-HP	DEM_COIN KW	kVArHr >30%	PRODUCC TN	IE KWH/TON	PAGADO S/.	FC %
Ene-19	1,453,051.80	293,522.00	1,746,573.80	2,710.80	2,714.40	2,353.60	137,289.56	1,347.235	1,296.41	484,485.15	86.60
Feb-19	1,238,797.90	249,416.10	1,488,214.00	2,724.40	2,614.00	2,095.20	97,554.90	1,094.508	1,359.71	426,637.95	73.42
Mar-19	1,422,311.60	284,065.70	1,706,377.30	2,700.40	2,635.60	1,530.00	107,454.71	1,370.772	1,244.83	430,831.64	87.76
Abr-19	1,303,219.00	249,635.80	1,552,854.80	2,747.60	2,663.60	2,637.20	98,102.06	1,210.884	1,282.41	470,993.72	78.50
May-19	1,303,297.00	288,666.80	1,591,963.80	2,727.60	2,706.80	2,337.40	127,603.16	1,231.573	1,292.63	469,258.95	81.06
Jun-19	976,386.50	184,654.30	1,161,040.80	2,636.00	2,640.00	1,205.20	45,646.16	870.632	1,333.56	325,697.07	59.20
Jul-19	1,444,353.90	274,951.20	1,719,305.10	2,714.40	2,692.00	2,351.60	119,853.27	1,331.731	1,291.03	492,923.03	85.13
Ago-19	1,554,545.10	311,230.60	1,865,775.70	2,872.80	2,799.20	2,482.40	103,600.29	1,473.407	1,266.30	531,036.46	87.29
Set-19	1,452,297.60	297,022.30	1,749,319.90	2,876.40	2,799.60	2,471.60	29,376.93	1,345.675	1,299.96	514,999.16	81.74
Oct-19	1,515,784.10	297,052.80	1,812,836.90	2,925.20	2,937.60	307.60	31,589.23	1,315.593	1,377.96	415,602.73	83.30
Nov-19	1,465,391.90	313,557.70	1,778,949.60	2,911.20	2,898.80	2,389.60	0.00	1,321.297	1,346.37	517,096.96	82.13
Dic-19	1,470,202.20	310,263.40	1,780,465.60	2,814.40	2,805.20	2,664.80	0.00	1,292.684	1,377.34	534,681.17	85.03
TOTAL:	16,599,638.60	3,354,038.70	19,953,677.30	2,925.20	2,937.60	2,664.80	898,070.27	15,205.99	1,312.22	5,614,243.99	80.93

CONSUMOS ELECTRICOS HISTORICOS AÑO 2020

MES	KWHr - FP	KWHr - HP	KWHr-TOTAL	KW - FP	KW - HP	DEM_COIN	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
						KW	>30%	TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
Ene-20	1,375,381.18	296,706.95	1,672,088.13	2,797.20	2,800.00	2,610.80	0.00	1,178.978	1,418.25	506,309.23	80.35	0.3028	429.45
Feb-20	1,101,001.80	226,629.90	1,327,631.70	2,823.60	2,785.60	2,400.00	0.00	870.235	1,525.60	431,967.75	63.20	0.3254	496.38
Mar-20	1,429,088.70	323,748.80	1,752,837.50	3,629.20	2,826.80	2,628.40	0.00	1,285.672	1,363.36	550,322.14	67.08	0.3140	428.04
Abr-20	607,464.90	159,110.10	766,575.00	2,443.60	2,365.60	1,341.20	0.00	498.000	1,539.31	256,767.33	43.57	0.3350	515.60
May-20	1,123,095.40	238,514.40	1,361,609.80	2,724.40	2,444.00	1,900.40	0.00	975.406	1,395.94	404,885.47	69.41	0.2974	415.09
Jun-20	1,519,627.20	303,344.80	1,822,972.00	2,926.80	2,872.40	1,618.80	0.00	1,315.955	1,385.28	486,441.77	83.72	0.2668	369.65
Jul-20	1,523,579.00	262,772.80	1,786,351.80	2,933.60	3,014.40	1,202.00	0.00	1,271.214	1,405.23	468,098.53	81.85	0.2620	368.23
Ago-20	1,559,002.20	263,051.20	1,822,053.40	2,886.00	2,840.80	1,384.00	0.00	1,319.162	1,381.22	486,729.90	84.86	0.2671	368.97
Set-20	1,433,173.60	248,649.30	1,681,822.90	2,829.60	2,814.00	1,507.20	0.00	1,304.194	1,289.55	466,266.23	79.89	0.2772	357.51
Oct-20	1,363,372.40	228,650.00	1,592,022.40	2,926.80	2,808.00	1,388.40	0.00	1,088.689	1,462.33	449,048.02	73.11	0.2821	412.47
Nov-20	1,433,278.30	229,262.70	1,662,541.00	2,728.80	2,627.40	1,122.00	0.00	1,305.798	1,273.20	440,731.91	81.89	0.2651	337.52
Dic-20	1,118,825.60	201,167.10	1,319,992.70	2,720.80	2,626.80	930.80	0.00	1,118.515	1,180.13	359,091.11	65.21	0.2720	321.04
TOTAL:	15,586,890.28	2,981,608.05	18,568,498.33	3,629.20	3,014.40	2,628.40	0.00	13,531.82	1,372.21	5,306,659.39	72.84	0.2858	392.16

CONSUMOS ELECTRICOS HISTORICOS AÑO 2021

MES	KWHr - FP	KWHr - HP	KWHr-TOTAL	KW - FP	KW - HP	DEM_COIN	kVArHr	PRODUCC	IE	PAGADO	FC	PREC PROM	RAT PROD
						KW	>30%	TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
Ene-21	1,133,422.90	216,903.30	1,350,326.20	2,842.40	2,788.00	1,605.20	0.00	1,222.190	1,104.84	408,084.82	63.85	0.3022	333.90
Feb-21	1,294,806.60	228,649.30	1,523,455.90	2,965.60	2,922.80	1,472.40	0.00	1,098.769	1,386.51	432,373.80	69.05	0.2838	393.51
Mar-21	1,555,511.20	282,322.20	1,837,833.40	2,918.00	2,860.00	1,483.60	0.00	1,324,505	1,387.56	500,441.15	87.54	0.2723	377.83
Abr-21	1,529,364.80	247,488.30	1,776,853.10	3,038.80	2,988.80	2,046.00	0.00	1,312,064	1,354.23	639,796.83	81.21	0.3038	411.41
May-21	1,252,236.40	231,520.90	1,483,757.30	2,835.20	2,745.60	2,507.20	0.00	1,056,141	1,404.89	499,933.53	72.89	0.3369	473.36
Jun-21	1,490,946.20	257,240.70	1,748,186.90	2,885.20	2,826.00	2,218.00	0.00	1,246,761	1,402.18	541,010.05	82.01	0.3095	433.93
Jul-21	1,314,950.30	213,055.80	1,528,006.10	2,766.40	2,725.60	1,486.40	0.00	1,037,571	1,472.68	462,641.73	74.24	0.3028	445.89
Ago-21	1,389,805.00	222,977.20	1,612,782.20	2,788.00	2,782.00	2,276.00	0.00	1,114,159	1,447.53	636,210.05	77.75	0.3325	481.27
Set-21		0.00							#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!
Oct-21		0.00							#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!
Nov-21		0.00							#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!
Dic-21		0.00							#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!
TOTAL:	10,961,043.20	1,900,137.70	12,861,180.90	3,038.80	2,988.80	2,507.20	0.00	9,412.16	1,366.44	3,920,491.96	#DIV/0!	0.3048	416.53

INDICADORES ENERGETICOS ELECTRICOS POR AÑOS

ANO	KWHr - FP	KWHr - HP	KWHr-TOTAL	KW - FP	KW - HP	PRODUCC	IE	PAGADO	FC-PROM	PREC PROM	RAT PROD
				MAX	MAX	TN	KWH/TON	\$/	%	\$/KWH	\$/KWH/TN
2005	5,546,679.05	768,483.44	6,315,162.49	1,390.69	1,146.49	2,913.291	2,167.71	1,217,476.98	63.50	0.1928	417.90
2006	4,890,486.60	722,850.00	5,613,336.60	1,039.20	633.60	3,441.090	1,631.27	962,572.74	66.96	0.1715	279.73
2007	5,125,817.60	714,840.40	5,840,658.00	1,008.00	573.60	3,922.883	1,488.87	989,474.37	68.97	0.1694	252.23
2008	5,210,710.80	706,950.00	5,917,660.80	981.60	542.40	3,975.352	1,488.59	992,253.13	72.71	0.1677	249.60
2009	5,318,506.20	725,119.20	6,043,625.40	1,046.40	588.00	4,050.505	1,492.07	1,046,149.50	70.04	0.1731	258.28
2010	5,306,215.80	741,116.40	6,047,332.20	1,399.20	645.60	4,050.038	1,493.15	1,083,732.34	59.26	0.1792	267.59
2011	8,016,404.03	1,248,557.33	9,264,961.36	2,208.00	2,112.00	5,298.836	1,748.49	1,819,458.71	61.13	0.1964	343.37
2012	9,342,960.00	1,383,120.00	10,726,080.00	2,322.00	2,016.00	6,698.680	1,601.22	2,225,298.68	59.70	0.2075	332.20
2013	10,301,820.00	1,452,000.00	11,753,820.00	2,226.00	1,692.00	7,110.922	1,652.92	2,435,245.26	63.64	0.2072	342.47
2014	11,788,380.00	1,599,480.00	13,387,860.00	2,316.00	1,812.00	8,900.169	1,504.23	2,952,296.44	69.51	0.2205	331.71
2015	12,294,966.00	1,602,889.20	13,897,855.20	2,418.00	1,938.00	9,976.818	1,393.01	3,545,201.33	70.47	0.2551	355.34
2016	11,443,953.40	1,554,875.20	12,998,828.60	2,574.87	2,247.45	10,249.443	1,268.25	3,584,378.58	67.26	0.2757	349.71
2017	12,566,870.10	1,870,834.40	14,437,704.50	2,597.60	2,119.60	11,326.389	1,274.70	3,667,745.87	69.34	0.2540	323.82
2018	14,428,944.40	2,753,571.50	17,182,515.90	2,714.80	2,708.40	12,768.893	1,345.65	4,684,313.83	75.31	0.2726	366.85
2019	16,599,638.60	3,354,038.70	19,953,677.30	2,925.20	2,937.60	15,205.991	1,312.22	5,614,243.99	80.93	0.2814	369.21
2020	15,586,890.28	2,981,608.05	18,568,498.33	3,629.20	3,014.40	13,531.818	1,372.21	5,306,659.39	72.36	0.2858	392.16

5.2 Gráficos de consumos e indicadores energéticos Históricos

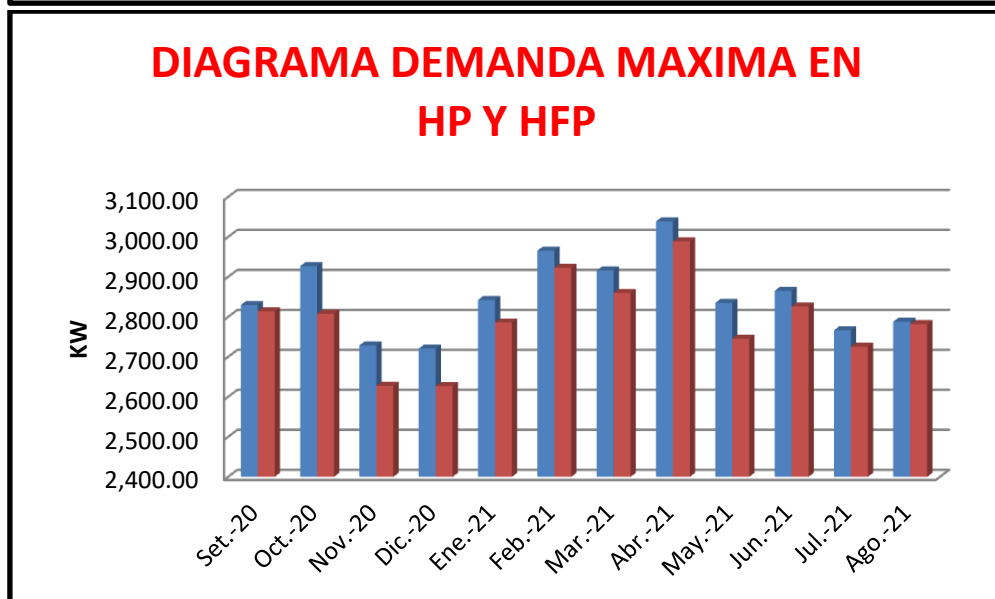
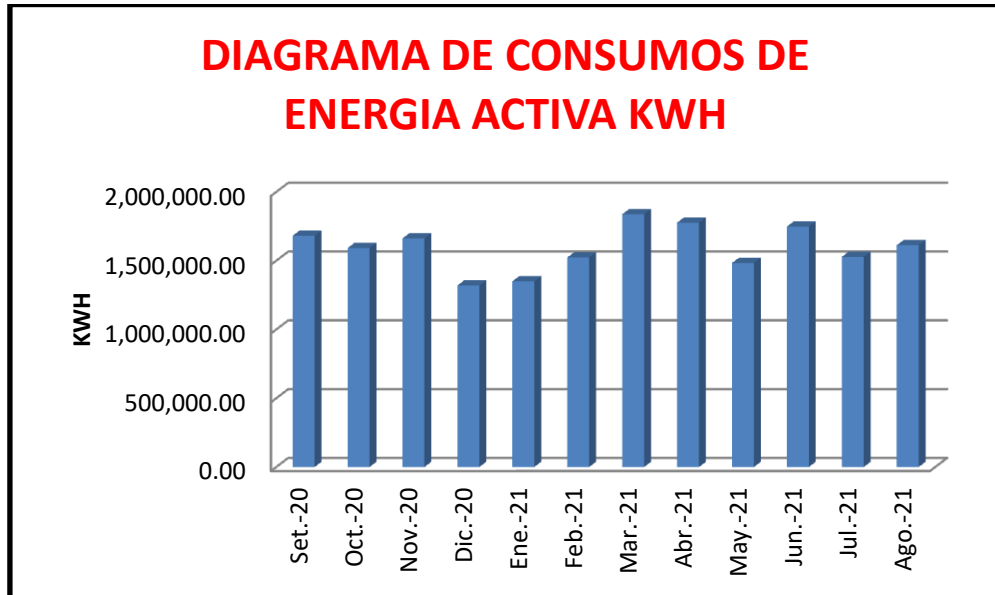


DIAGRAMA DE PAGOS MENSUALES POR ENERGIA ELECTRICA

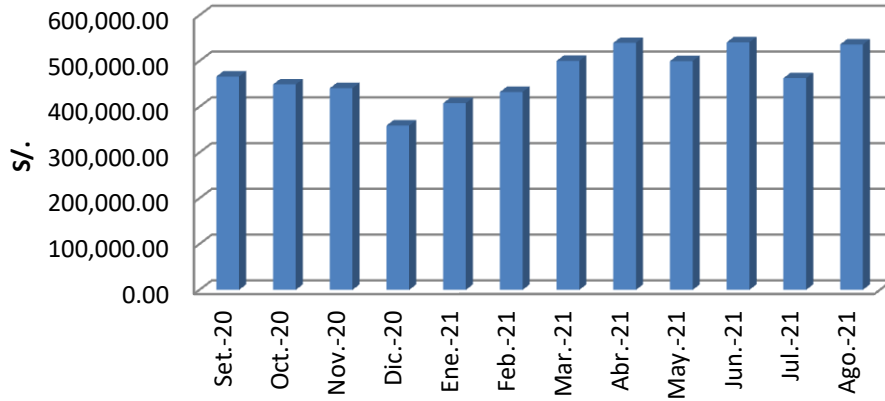


DIAGRAMA DE PRECIO PROMEDIO

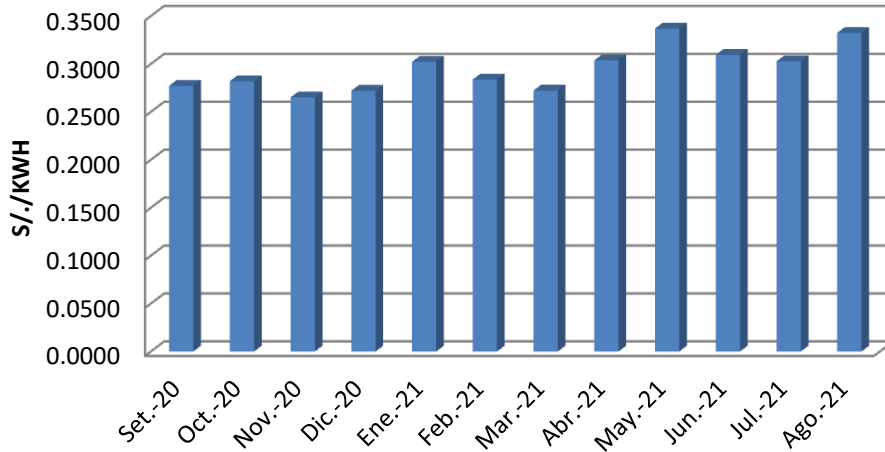
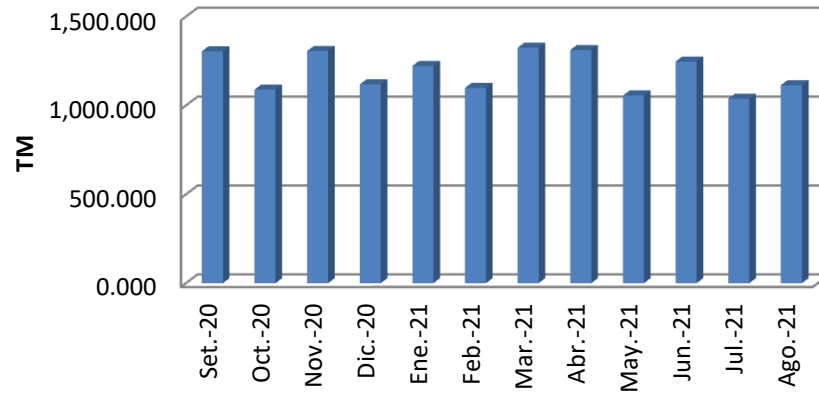
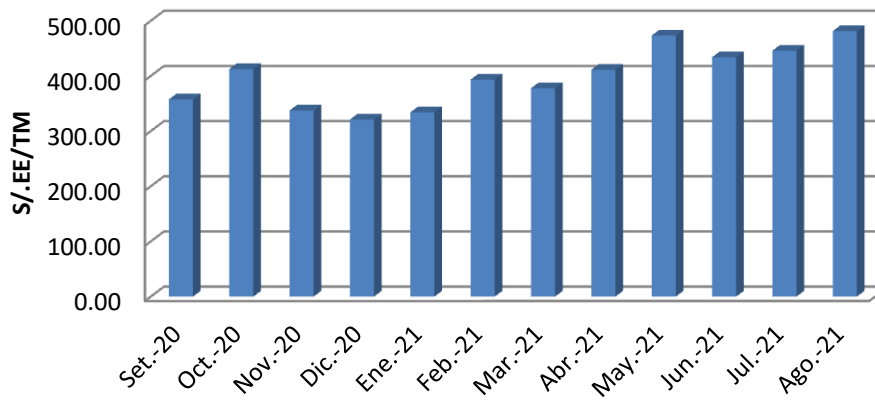


DIAGRAMA DE PRODUCCION MENSUAL



INDICADOR ENERGETICO ECONOMICO DE PRODUCCION



INDICADOR ENERGETICO DE PRODUCCION

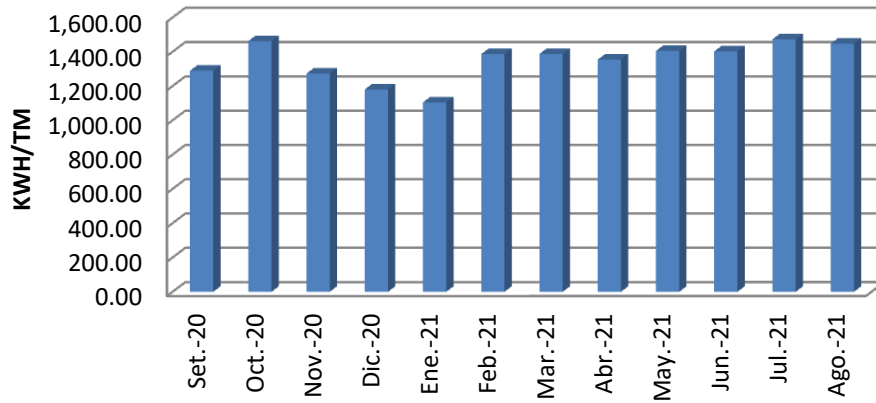
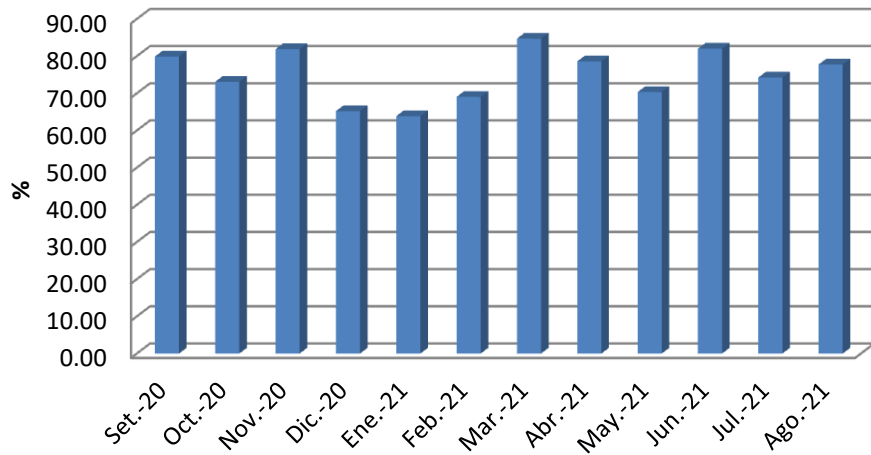
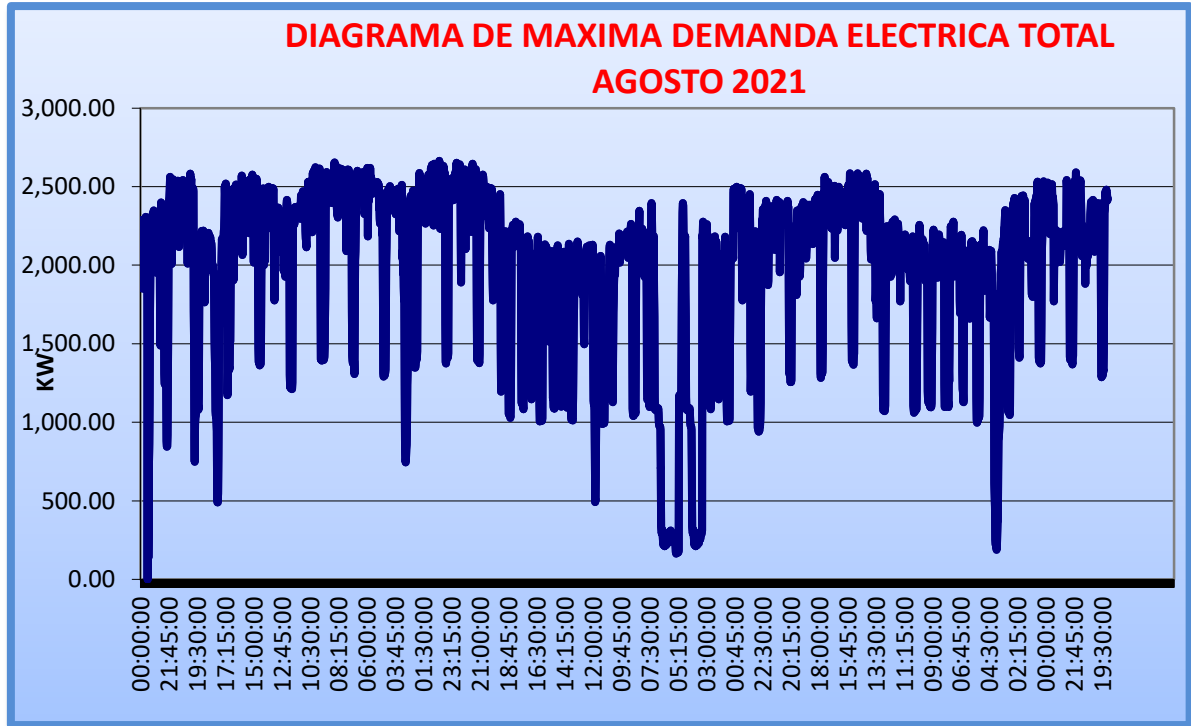


DIAGRAMA DE FACTOR DE CARGA



5.3 Diagramas de demanda máxima.



5.4 Consumos diarios de energía eléctrica en Agosto de 2021

TABLA DE CONSUMOS DIARIOS DE ENERGIA ELECTRICA
Ago-21

DIA	FECHA	KWH TOTAL	KWH_HP	KWH_FP	Prod Ton	Ind.Energ Kwh/Ton	F.C. 0.61	MAX KWH HP MES 150,632.17
1	1/08/2021	0.00	0.00	0.00	38.189	0.00		
2	2/08/2021	51,685.15	7,322.03	44,363.11	34.940	1,479.25		
3	3/08/2021	44,780.01	8,930.83	35,849.18	33.721	1,327.96		
4	4/08/2021	54,908.26	9,216.32	45,691.94	41.553	1,321.40		
5	5/08/2021	52,076.30	8,920.04	43,156.26	36.754	1,416.89		
6	6/08/2021	54,697.58	8,574.97	46,122.60	42.150	1,297.69		
7	7/08/2021	57,285.58	9,518.91	47,766.68	42.283	1,354.81		
8	8/08/2021	58,244.77	0.00	58,244.77	41.697	1,348.89		
9	9/08/2021	50,390.92	9,484.66	40,906.26	33.962	1,483.74		
10	10/08/2021	57,094.97	9,678.49	47,416.48	42.208	1,352.77		
11	11/08/2021	57,121.76	9,621.67	47,500.09	42.820	1,334.00		
12	12/08/2021	48,861.49	8,219.90	40,641.59	36.035	1,355.95		
13	13/08/2021	43,173.07	7,391.50	35,781.57	30.532	1,414.03		
14	14/08/2021	40,199.67	7,637.74	32,561.93	29.851	1,346.68		
15	15/08/2021	41,824.87	0.00	41,824.87	31.548	1,319.50		
16	16/08/2021	45,711.65	7,651.98	38,059.67	32.287	1,415.79		
17	17/08/2021	28,422.77	1,208.90	27,213.87	14.180	2,004.43		
18	18/08/2021	17,396.14	1,208.90	16,187.25	22.950	758.00		
19	19/08/2021	43,173.07	7,391.50	35,781.57	30.906	1,396.92		
20	20/08/2021	48,195.51	7,497.03	40,698.48	36.848	1,307.95		
21	21/08/2021	51,978.64	8,800.69	43,177.95	41.456	1,253.83		
22	22/08/2021	52,983.44	0.00	52,983.44	40.484	1,308.75		
23	23/08/2021	55,307.18	9,741.19	45,565.99	43.642	1,267.29		
24	24/08/2021	52,366.57	8,251.46	44,115.11	36.817	1,422.35		
25	25/08/2021	47,267.41	7,238.02	40,029.39	32.637	1,448.28		
26	26/08/2021	42,778.21	6,428.09	36,350.12	34.553	1,238.05		
27	27/08/2021	44,942.18	7,341.30	37,600.87	33.316	1,348.97		
28	28/08/2021	39,914.15	8,084.36	31,829.79	31.641	1,261.47		
29	29/08/2021	50,797.77	0.00	50,797.77	41.725	1,217.44		
30	30/08/2021	52,033.33	0.00	52,033.33	38.013	1,368.83		
31	31/08/2021	52,409.68	9,313.58	43,096.10	46.465	1,127.94		
TOTAL:		1,435,822.10	194,674.07	1,241,148.03	1,114.159	1,288.70		

SALDO KWH HP MES -44,041.90
MAX KWH/DIA QUE RE STAN

5.5 Comparación de la Facturación eléctrica del suministrador con el sistema de monitoreo interno.

<u>COMPARACIÓN DE DATOS: FACTURACION V.S. MEDICIÓN CON SIST. ECS (AGOSTO 2021)</u>			
DESCRIPCIÓN	FACTURACIÓN	SIST. ECS	PORCENTAJE DE VARIACIÓN
Demanda Registrada H.P. (Kw)	2,782.00	2,601.53	6.49%
Demanda Registrada F.P. (Kw)	2,788.00	2,664.46	4.43%
Energía Activa H.P. (Kwh)	222,977.20	194,674.07	12.69%
Energía Activa F.P. (Kwh)	1,389,805.00	1,288,224.64	7.31%
kwh totales ECS	1,482,898.70		
kwh totales Edelnor	1,612,782.20		
diferencia en kwh:	129,883.50		
% de diferencia:	8.05		