

## ACTA DE PRUEBAS DE CONSUMOS ESPECIFICOS NETO CENTRAL TERMoeLECTRICA SAN ISIDRO I

DATOS GENERALES	
Empresa Generadora	ENEL Generación Chile S.A.
Nombre de la Unidad	Ciclo Combinado TG01 + TV02
Configuración de la Prueba	Ciclo Abierto con Gas Natural Ciclo Abierto con Diésel Ciclo Combinado con Gas Natural Ciclo Combinado con Diésel

INICIO DE ACTA		
FECHA	HORA	LUGAR O MEDIO
21-12-2020	08:30	Plataforma Microsoft Teams

ASISTENTES A LA PRUEBA		
ENTIDAD	NOMBRE	CARGO
Por la Empresa <b>ENEL GENERACIÓN CHILE S.A.</b>	Carlos Riquelme	Responsable MMS Chile Argentina
	Pablo Villablanca	Responsable de Operación Power Plant Mid Country
	Iván Vega	Responsable de Resultados Power Plant Mid Country
	Enzo Halabí	Jefe de Turno, Central San Isidro
Experto Técnico y Equipo Clave <b>HAMEK INGENIEROS ASOCIADOS S.A.C.</b>	Amadeo Carrillo	Experto Técnico
	Marco Quispe	Experto Técnico
Por el <b>COORDINADOR ELECTRICO NACIONAL</b>	Eduardo Gonzales	Dep. de Control de la Operación

Prueba CEN en Ciclo Abierto con Gas Lunes, 21 de Diciembre del 2020				
Hito		Potencia	Inicio	Final
Toma de carga y estabilización			09:30	10:00
Prueba CEN a Carga Intermedia	P <sub>Parcial</sub>	231 MW	10:00	10:30
Toma de carga y estabilización			10:30	11:15
Prueba CEN a Potencia Máxima	P <sub>Pot. Máx</sub>	255 MW	11:15	11:45
Prueba CEN en Ciclo Abierto con Diésel Lunes, 21 de Diciembre del 2020 / Martes, 22 de Diciembre del 2020				
Hito		Potencia	Inicio	Final
Toma de carga y estabilización			20:30	21:00
Prueba CEN a Mínimo Técnico Ambiental	P <sub>Min. Téc. Amb.</sub>	198 MW	21:00	21:30
Toma de carga y estabilización			21:30	21:45
Prueba CEN a 2 <sup>da</sup> Carga Intermedia	P <sub>2da Parcial</sub>	200 MW	21:45	22:15
Toma de carga y estabilización			22:15	22:30
Prueba CEN a 3 <sup>ra</sup> Carga Intermedia	P <sub>3ra Parcial</sub>	203 MW	22:30	23:00

## INTERNAL

Toma de carga y estabilización			23:00	23:15
Prueba CEN a 4 <sup>ta</sup> Carga Intermedia	P <sub>4ta</sub> Parcial	205 MW	23:15	23:45
Toma de carga y estabilización			23:45	00:00
Prueba CEN a 5 <sup>ta</sup> Carga Intermedia	P <sub>5ta</sub> Parcial	208 MW	00:00	00:30
Toma de carga y estabilización			00:30	00:45
Prueba CEN a 6 <sup>ta</sup> Carga Intermedia	P <sub>6ta</sub> Parcial	210 MW	00:45	01:15
Toma de carga y estabilización			01:15	01:30
Prueba CEN a Potencia Máxima	P <sub>Pot. Máx</sub>	212 MW	01:30	02:00

**Prueba CEN en Ciclo Combinado con Gas**  
**Lunes, 28 de Diciembre del 2020 / Martes, 29 de Diciembre del 2020**

Hito	Potencia	Inicio	Final	
Lunes, 28 de Diciembre del 2020				
Prueba CEN a Potencia Máxima con Fuego Adicional	P <sub>Pot. Máx</sub>	380 MW	16:00	17:00
Martes, 29 de Diciembre del 2020				
Toma de carga y estabilización			12:15	17:15
Prueba CEN a Carga Intermedia	P <sub>6ta</sub> Parcial	340 MW	12:45	13:45
Toma de carga y estabilización			13:45	14:50
Prueba CEN a Potencia Máxima	P <sub>Pot. Máx</sub>	355 MW	14:50	15:50

**Prueba CEN en Ciclo Combinado con Diésel**  
**Miércoles, 30 de Diciembre del 2020**

Hito	Potencia	Inicio	Final	
Toma de carga y estabilización			17:00	17:45
Prueba CEN a Potencia Máxima	P <sub>Pot. Máx</sub>	310 MW	17:45	18:45
Toma de carga y estabilización			18:45	19:15
Prueba CEN a 2 <sup>da</sup> Carga Intermedia	P <sub>2da</sub> Parcial	305 MW	19:15	20:15
Toma de carga y estabilización			20:15	21:00
Prueba CEN a 3 <sup>ra</sup> Carga Intermedia	P <sub>3ra</sub> Parcial	301 MW (310 MW)*	21:00	22:00
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 4 <sup>ta</sup> Carga Intermedia	P <sub>4ta</sub> Parcial	297 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 5 <sup>ta</sup> Carga Intermedia	P <sub>5ta</sub> Parcial	292 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 6 <sup>ta</sup> Carga Intermedia	P <sub>6ta</sub> Parcial	288 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a Mínimo Técnico Ambiental	P <sub>Min. Téc. Amb.</sub>	284 MW	--:--	--:--

**RESULTADO DE LA PRUEBA**

Exitoso sin Interrupciones	Concluido con Interrupciones	Invalido
<b>X</b>		

REPORTE CROMATOGRÁFICO DEL GAS				
Prueba CEN en Ciclo Abierto con Gas				
Fecha	Hito		Potencia	Hora de Reporte
21/12/2020	Prueba CEN a Carga Intermedia	P Parcial	231 MW	10:15
21/12/2020	Prueba CEN a Potencia Máxima	P Pot. Máx	255 MW	11:30
Prueba CEN en Ciclo Combinado con Gas				
Fecha	Hito		Potencia	Hora de Reporte
28/12/2020	Prueba CEN a Potencia Máxima con Fuego Adicional	P Pot. Máx	231 MW	16:30
29/12/2020	Prueba CEN a Carga Intermedia	P 6ta Parcial	255 MW	13:15
29/12/2020	Prueba CEN a Potencia Máxima	P Pot. Máx	355 MW	15:20

TOMA DE MUESTRA DE DIÉSEL				
Prueba CEN en Ciclo Abierto con Diésel				
Fecha	Hito		Potencia	Hora de Reporte
21/12/2020	Prueba CEN a Mínimo Técnico Ambiental	P Min. Téc. Amb.	198 MW	21:15
21/12/2020	Prueba CEN a 2 <sup>da</sup> Carga Intermedia	P 2da Parcial	200 MW	22:00
21/12/2020	Prueba CEN a 3 <sup>ra</sup> Carga Intermedia	P 3ra Parcial	203 MW	22:45
21/12/2020	Prueba CEN a 4 <sup>ta</sup> Carga Intermedia	P 4ta Parcial	205 MW	23:30
22/12/2020	Prueba CEN a 5 <sup>ta</sup> Carga Intermedia	P 5ta Parcial	208 MW	00:15
22/12/2020	Prueba CEN a 6 <sup>ta</sup> Carga Intermedia	P 6ta Parcial	210 MW	01:00
22/12/2020	Prueba CEN a Potencia Máxima	P Pot. Máx	212 MW	01:45
Prueba CEN en Ciclo Combinado con Diésel				
Fecha	Hito		Potencia	Hora de Reporte
30/12/2020	Prueba CEN a Potencia Máxima	P Pot. Máx	310 MW	18:15
30/12/2020	Prueba CEN a 2 <sup>da</sup> Carga Intermedia	P 2da Parcial	305 MW	19:45
30/12/2020	Prueba CEN a 3 <sup>ra</sup> Carga Intermedia	P 3ra Parcial	301 MW (310 MW)*	21:30

**Nota:** En cada escalón ensayado, en Ciclo Abierto y Ciclo Combinado, se tomaron 200 ml durante la ejecución de la prueba, los que se sacarán de la línea de combustible. Luego, por cada configuración, serán mezclados en un solo depósito y se dividirá en 2 muestras, una de ellas será enviada a laboratorio para análisis y la otra permanecerá en custodia en la central (como respaldo) hasta que el Experto Técnico indique la conformidad de los resultados del laboratorio.

**DESCRIPCIÓN DE EVENTOS**  
**(Incluye desviaciones de la prueba)**

Inicialmente, se tenía programado realizar la prueba CEN en Ciclo Combinado con Diésel entre los días 23 y 24 de diciembre del 2020, pero debido a un problema que se presentó el 22 de diciembre, durante la transferencia de combustible, se tuvo que reprogramar la prueba para el 30 de diciembre del 2020.

El día 30 de diciembre del 2020, mientras se realizaba la prueba CEN en Ciclo Combinado con Diésel, cuando correspondía realizar la prueba del tercer escalón (301 MW); ENEL comunicó que en dicha carga y dada las condiciones ambientales, se estaba sobrepasando el límite de CO (Limite diaria = 0.84 t/día).

Así mismo, indicaron que no se podría superar en límite de CO establecido en la Resolución de Calificación Ambiental, por tal motivo no se pudo realizar la prueba al escalón correspondiente (301 MW), ni las cargas de los escalones siguientes (297 MW, 292 MW, 288 MW y 284 MW).

Por lo que se acordó, tener un tercer y último escalón, esta nueva carga fue la máxima carga que se pudo alcanzar dada las condiciones de temperatura ambiente.

**ANEXOS AL ACTA DE LA PRUEBA DE CONSUMOS ESPECIFICOS NETO**

<b>ANEXO A</b>	Desarrollo de la Prueba de Consumo Específicos Neto.
<b>ANEXO B</b>	Registros de Variables Primarias.
<b>ANEXO C</b>	Registros de Variables Secundarias.
<b>ANEXO D</b>	Certificados de Calibración de los Instrumentos de Medición
<b>ANEXO E</b>	Curvas de Corrección.
<b>ANEXO F</b>	Información Adicional

**CIERRA DE ACTA**

<b>FECHA</b>	<b>HORA</b>	<b>LUGAR O MEDIO</b>
30-12-2020	23:00	Plataforma Microsoft Teams

**SUSCRIPCIÓN DEL ACTA**

<b>INSTITUCIÓN</b>	<b>NOMBRE</b>	<b>FIRMA</b>
Por la Empresa <b>ENEL GENERACIÓN CHILE S.A.</b>	Carlos Riquelme Moya	 Firmado por CARLOS ROBERTO RIQUELME MOYA el 31/12/2020 a las 01:10:03 CLT
Experto Técnico y Equipo Clave <b>HAMEK INGENIEROS ASOCIADOS S.A.C.</b>	Marco Quispe	 MARCOS BASILIO QUISPE CARDENAS Ingeniero Mecánico Electricista CIP N° 235415

**ANEXO A**

Desarrollo de la Prueba de Consumos Específicos Neto.

## ACTIVIDADES, ACUERDOS Y CONSIDERACIONES PREVIAS A LA PRUEBA DE CONSUMOS ESPECÍFICOS NETO

### a) Tipo de Prueba.-

Las pruebas de Consumos Específicos Neto se efectuaron a nivel de unidad tal como se estipula en el "Protocolo de Pruebas de Consumo Específicos Neto de la Central Térmica San Isidro I", versión "CSI-1-PROT-HMK-006":

### b) Instrumentos de Medición Utilizados.-

Durante las pruebas de Consumos Específicos Neto de la Central de Ciclo Combinado San Isidro I; se utilizaron los instrumentos ya señalados en el protocolo de pruebas.

### c) Inspección de los equipos.-

Los representantes ENEL Generación Chile S.A y HAMEK Ingenieros Asociados S.A.C. efectuaron una revisión e inspección general de las variables a monitorear durante la prueba teledirigida de las unidades a evaluar, específicamente en lo que se refiere a la verificación de las variables primarias y secundarias, que nos permitirá identificar la estabilidad de la unidad.

### d) Disponibilidad de la Unidad de Generación.-

Antes del inicio de las pruebas, el representante de ENEL Generación Chile S.A manifestó la unidad se encontraba debidamente preparadas para la prueba.

### e) Condiciones de las pruebas.-

De acuerdo al procedimiento, esta prueba deberá efectuarse tomando en consideración las condiciones estables con una fluctuación en los parámetros:

Parámetro	Máxima fluctuación respecto al valor promedio
Potencia eléctrica de salida	± 1.3 %
Factor de Potencia	± 1.3 %
Presión barométrica	± 0.33 %
Temperatura de ingreso del aire	± 1.3 °F o ± 0.72 °C
Presión del combustible gaseoso suministrado a la turbina de gas	± 0.65 %
Flujo de combustible	± 1.3 %
Presión de descarga	± 0.33 %
Velocidad de rotación	± 0.65 %

**f) Pruebas de Consumos Específicos Neto.-**

De acuerdo al mismo protocolo de pruebas mencionado, se ha acordado considerar 1 hora como período de duración de cada escalón ensayado de la prueba de Consumos Específicos Neto en ciclo combinado. Mientras que, para prueba de Consumos Específicos Neto en ciclo abierto, se ha acordado considerar 1/2 hora como período de duración de cada escalón ensayado.

Mientras que, el período de integración de las mediciones primarias y secundarias será de 1 minuto.

## CRONOGRAMA DE ENSAYO DETALLADO

Tomando en cuenta los acuerdos y consideraciones descritas anteriormente, El programa definitivo se desarrolló considerando la fecha, los períodos de medición se indica en los siguientes cuadros.

### PRUEBA DE CONSUMOS ESPECIFICOS NETO DE LA CENTRAL DE CICLO COMBINADO SAN ISIDRO I CRONOGRAMA DE ENSAYOS EJECUTADO

<b>Prueba CEN en Ciclo Abierto con Gas</b>				
<b>Lunes, 21 de Diciembre del 2020</b>				
<b>Hito</b>		<b>Potencia</b>	<b>Inicio</b>	<b>Final</b>
Toma de carga y estabilización			09:30	10:00
Prueba CEN a Carga Intermedia		P <sub>Parcial</sub>	231 MW	10:00
Toma de carga y estabilización			10:30	11:15
Prueba CEN a Potencia Máxima		P <sub>Pot. Máx</sub>	255 MW	11:15
<b>Prueba CEN en Ciclo Abierto con Diésel</b>				
<b>Lunes, 21 de Diciembre del 2020 / Martes, 22 de Diciembre del 2020</b>				
<b>Hito</b>		<b>Potencia</b>	<b>Inicio</b>	<b>Final</b>
Toma de carga y estabilización			20:30	21:00
Prueba CEN a Mínimo Técnico Ambiental		P <sub>Min. Téc. Amb.</sub>	198 MW	21:00
Toma de carga y estabilización			21:30	21:45
Prueba CEN a 2 <sup>da</sup> Carga Intermedia		P <sub>2da Parcial</sub>	200 MW	21:45
Toma de carga y estabilización			22:15	22:30
Prueba CEN a 3 <sup>ra</sup> Carga Intermedia		P <sub>3ra Parcial</sub>	203 MW	22:30
Toma de carga y estabilización			23:00	23:15
Prueba CEN a 4 <sup>ta</sup> Carga Intermedia		P <sub>4ta Parcial</sub>	205 MW	23:15
Toma de carga y estabilización			23:45	00:00
Prueba CEN a 5 <sup>ta</sup> Carga Intermedia		P <sub>5ta Parcial</sub>	208 MW	00:00
Toma de carga y estabilización			00:30	00:45
Prueba CEN a 6 <sup>ta</sup> Carga Intermedia		P <sub>6ta Parcial</sub>	210 MW	00:45
Toma de carga y estabilización			01:15	01:30
Prueba CEN a Potencia Máxima		P <sub>Pot. Máx</sub>	212 MW	01:30
<b>Prueba CEN en Ciclo Combinado con Gas</b>				
<b>Lunes, 28 de Diciembre del 2020 / Martes, 29 de Diciembre del 2020</b>				
<b>Hito</b>		<b>Potencia</b>	<b>Inicio</b>	<b>Final</b>
Lunes, 28 de Diciembre del 2020				
Prueba CEN a Potencia Máxima con Fuego Adicional		P <sub>Pot. Máx</sub>	380 MW	16:00
Martes, 29 de Diciembre del 2020				
Toma de carga y estabilización			12:15	17:15
Prueba CEN a Carga Intermedia		P <sub>6ta Parcial</sub>	340 MW	12:45
Toma de carga y estabilización			13:45	14:50
Prueba CEN a Potencia Máxima		P <sub>Pot. Máx</sub>	355 MW	14:50

<b>Prueba CEN en Ciclo Combinado con Diésel</b>				
<b>Miércoles, 30 de Diciembre del 2020 / Jueves, 31 de Diciembre del 2020</b>				
<b>Hito</b>		<b>Potencia</b>	<b>Inicio</b>	<b>Final</b>
Toma de carga y estabilización			17:00	17:45
Prueba CEN a Potencia Máxima	P <sub>Pot. Máx</sub>	310 MW	17:45	18:45
Toma de carga y estabilización			18:45	19:15
Prueba CEN a 2 <sup>da</sup> Carga Intermedia	P <sub>2da Parcial</sub>	305 MW	19:15	20:15
Toma de carga y estabilización			20:15	21:00
Prueba CEN a 3 <sup>a</sup> Carga Intermedia	P <sub>3ra Parcial</sub>	301 MW (310 MW)*	21:00	22:00
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 4 <sup>ta</sup> Carga Intermedia	P <sub>4ta Parcial</sub>	297 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 5 <sup>ta</sup> Carga Intermedia	P <sub>5ta Parcial</sub>	292 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a 6 <sup>ta</sup> Carga Intermedia	P <sub>6ta Parcial</sub>	288 MW	--:--	--:--
Toma de carga y estabilización			--:--	--:--
Prueba CEN a Mínimo Técnico Ambiental	P <sub>Min. Téc. Amb.</sub>	284 MW	--:--	--:--

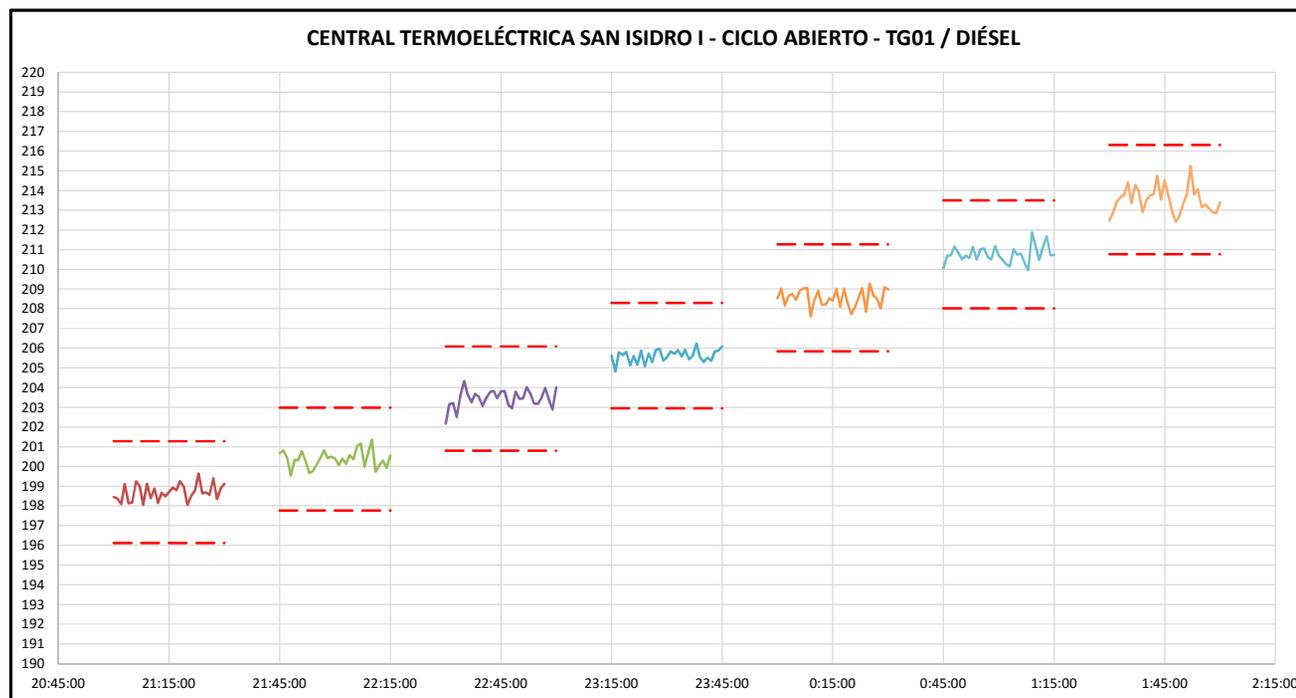
**ANEXO B**  
Registros de Variables Primarias.

RESUMEN DE REGISTROS

CENTRAL TÉRMICA	CENTRAL TERMOELÉCTRICA SAN ISIDRO I
UNIDAD	CICLO ABIERTO - TG01 / DIÉSEL
EMPRESA	ENEL GENERACIÓN S.A.
FECHA DE PRUEBA	21/12/2020

1.- Diagrama de carga

Potencia Nominal MW	Hora de Inicio	Hora de Finalización
198 MW	21:00	21:30
200 MW	21:45	22:15
203 MW	22:30	23:00
205 MW	23:15	23:45
208 MW	00:00	00:30
210 MW	00:45	01:15
212 MW	01:30	02:00



2.- Promedio de Registros

Potencia Nominal	Temperatura	Humedad Relativa	Presión	Flujo de Diésel	Potencia TG Bruta	FDP TG Bruta	Potencia TG Neta	Potencia SSAA TG	Potencia SSAA 11BJA01 TFA Edif Admin	Potencia SSAA 11BJC01 HVAC Edif Admin	Potencia SSAA 11BJC01 TFA Ampl Edif Admin
MW	°C	%	mbar	m <sup>3</sup> /h	MW		MW	KW	KW	KW	KW
198 MW	15.6 °C	76.0 %	1004.4 mbar	57.8 m3/h	198.695 MW	0.944	196.939 MW	541.9 kW	3.8 kW	2.1 kW	0.3 kW
200 MW	14.7 °C	81.3 %	1004.9 mbar	58.2 m3/h	200.375 MW	0.948	198.538 MW	563.9 kW	3.1 kW	2.0 kW	0.3 kW
203 MW	14.5 °C	80.9 %	1005.3 mbar	58.9 m3/h	203.448 MW	0.949	201.565 MW	625.5 kW	3.3 kW	2.0 kW	0.3 kW
205 MW	14.2 °C	82.0 %	1005.7 mbar	59.5 m3/h	205.618 MW	0.947	203.735 MW	636.3 kW	3.7 kW	2.0 kW	0.5 kW
208 MW	14.0 °C	84.4 %	1005.7 mbar	60.2 m3/h	208.553 MW	0.948	206.611 MW	631.0 kW	3.4 kW	2.0 kW	0.3 kW
210 MW	13.6 °C	85.8 %	1005.2 mbar	60.8 m3/h	210.756 MW	0.953	208.769 MW	634.6 kW	3.4 kW	2.0 kW	0.3 kW
212 MW	13.4 °C	85.8 %	1005.0 mbar	61.5 m3/h	213.540 MW	0.951	211.547 MW	631.6 kW	3.5 kW	2.0 kW	0.3 kW

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampli Edif Admin (kW)
198 MW	21:00:00	15.8	74.3	1004.1	57.7	198.450	0.944	196.483	539.867	3.994	2.097	0.300
	21:01:00	15.8	74.3	1004.2	57.7	198.368	0.946	196.423	536.000	3.360	2.069	0.301
	21:02:00	15.8	74.4	1004.2	57.7	198.088	0.944	196.526	538.236	3.139	2.095	0.301
	21:03:00	15.8	74.5	1004.2	57.8	199.114	0.947	197.226	550.357	3.185	2.078	0.300
	21:04:00	15.8	74.6	1004.3	57.8	198.135	0.946	196.417	548.118	4.269	2.055	0.301
	21:05:00	15.8	74.6	1004.3	57.8	198.162	0.944	196.333	544.732	4.071	2.093	0.301
	21:06:00	15.8	74.7	1004.3	57.8	199.238	0.946	197.523	543.878	3.762	2.059	0.300
	21:07:00	15.8	74.8	1004.4	57.8	199.011	0.945	197.527	541.728	3.964	2.070	0.299
	21:08:00	15.8	74.8	1004.4	57.8	198.062	0.943	196.464	540.590	4.029	2.102	0.300
	21:09:00	15.8	74.9	1004.4	57.8	199.120	0.945	197.253	543.758	4.005	2.048	0.299
	21:10:00	15.7	75.0	1004.5	57.8	198.388	0.943	196.867	541.271	3.346	2.078	0.300
	21:11:00	15.7	75.1	1004.5	57.8	198.883	0.942	197.190	542.276	3.362	2.097	0.300
	21:12:00	15.7	75.3	1004.6	57.8	198.150	0.943	196.102	542.181	3.338	2.049	0.300
	21:13:00	15.7	75.4	1004.6	57.8	198.657	0.942	196.706	542.276	3.117	2.085	0.299
	21:14:00	15.7	75.5	1004.6	57.8	198.484	0.940	196.477	542.121	3.805	2.087	0.300
	21:15:00	15.6	75.6	1004.6	57.8	198.707	0.941	196.861	539.000	3.725	2.052	0.299
	21:16:00	15.6	75.8	1004.6	57.8	198.922	0.942	197.193	545.000	4.170	2.090	0.299
	21:17:00	15.6	75.9	1004.6	57.8	198.792	0.942	196.958	541.883	4.595	2.053	0.299
	21:18:00	15.6	76.0	1004.7	57.8	199.252	0.941	197.371	541.694	5.587	2.060	0.299
	21:19:00	15.6	76.1	1004.7	57.8	198.967	0.945	197.440	541.745	4.099	2.090	0.299
	21:20:00	15.5	76.3	1004.1	57.8	198.063	0.944	196.443	539.859	4.179	2.043	0.299
	21:21:00	15.4	76.5	1004.1	57.8	198.486	0.944	196.828	538.269	3.360	2.063	0.299
	21:22:00	15.4	76.8	1004.1	57.8	198.773	0.947	196.970	545.873	3.540	2.084	0.299
	21:23:00	15.3	77.1	1004.2	57.8	199.640	0.946	197.800	544.118	3.466	2.044	0.299
	21:24:00	15.3	77.3	1004.2	57.8	198.637	0.944	196.778	540.237	3.745	2.079	0.300
	21:25:00	15.2	77.6	1004.2	57.8	198.684	0.946	197.087	540.000	3.621	2.070	0.300
	21:26:00	15.2	77.9	1004.2	57.8	198.556	0.946	196.829	535.106	3.618	2.032	0.299
	21:27:00	15.2	78.1	1004.3	57.9	199.399	0.945	197.864	542.866	4.375	2.083	0.299
	21:28:00	15.1	78.4	1004.3	57.9	198.357	0.943	196.658	544.000	3.621	2.050	0.300
	21:29:00	15.1	78.7	1004.3	58.0	198.904	0.944	197.272	539.877	4.233	2.042	0.300
21:30:00	15.1	78.8	1004.4	58.0	199.108	0.944	197.249	541.645	4.346	2.092	0.299	
PROMEDIO		15.6	76.0	1004.4	57.8	198.695	0.944	196.939	541.889	3.840	2.071	0.300

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
200 MW	21:45:00	15.0	80.0	1004.7	58.2	200.681	0.949	198.839	550.268	4.310	2.023	0.284
	21:46:00	15.0	80.1	1004.8	58.2	200.819	0.949	198.798	548.757	3.501	2.068	0.284
	21:47:00	14.9	80.2	1004.8	58.2	200.434	0.948	198.622	543.644	3.512	2.061	0.285
	21:48:00	14.9	80.3	1004.9	58.2	199.543	0.945	197.968	541.000	2.744	2.022	0.285
	21:49:00	14.9	80.4	1005.0	58.2	200.329	0.949	198.428	537.234	2.370	2.081	0.285
	21:50:00	14.9	80.5	1005.0	58.2	200.324	0.949	198.499	545.121	2.788	2.044	0.285
	21:51:00	14.8	80.6	1004.9	58.2	200.783	0.949	198.861	545.866	3.106	2.034	0.285
	21:52:00	14.8	80.8	1004.9	58.2	200.267	0.947	198.723	543.626	3.301	2.070	0.286
	21:53:00	14.8	80.9	1004.8	58.2	199.665	0.947	197.896	539.876	3.254	2.026	0.285
	21:54:00	14.8	81.0	1004.8	58.2	199.773	0.949	197.908	540.861	2.965	2.052	0.285
	21:55:00	14.7	81.2	1004.7	58.2	200.082	0.949	198.220	544.000	2.773	2.059	0.285
	21:56:00	14.7	81.3	1004.7	58.2	200.419	0.947	198.638	547.177	2.402	2.019	0.285
	21:57:00	14.7	81.5	1004.6	58.2	200.816	0.948	198.893	541.490	2.951	2.068	0.285
	21:58:00	14.6	81.6	1004.6	58.2	200.437	0.948	198.460	535.574	2.137	2.050	0.285
	21:59:00	14.6	81.7	1004.5	58.2	200.490	0.949	198.435	536.140	2.274	2.020	0.285
	22:00:00	14.6	81.9	1004.9	58.2	200.413	0.949	198.696	538.876	2.123	2.069	0.285
	22:01:00	14.6	81.9	1004.9	58.2	200.064	0.949	198.266	537.756	2.201	2.023	0.286
	22:02:00	14.6	81.9	1005.0	58.2	200.388	0.948	198.397	539.141	3.331	2.048	0.285
	22:03:00	14.7	81.9	1005.0	58.2	200.136	0.947	198.342	539.880	3.785	2.070	0.286
	22:04:00	14.7	81.9	1005.1	58.2	200.560	0.951	199.002	538.000	3.750	2.019	0.285
	22:05:00	14.7	81.9	1005.1	58.2	200.360	0.950	198.593	596.870	3.036	2.054	0.286
	22:06:00	14.7	81.9	1005.2	58.2	201.043	0.951	199.106	593.276	2.789	2.061	0.285
	22:07:00	14.7	81.9	1005.2	58.2	201.161	0.950	199.183	621.138	2.649	2.010	0.281
	22:08:00	14.7	81.9	1005.3	58.1	199.988	0.948	197.919	615.140	2.656	2.046	0.250
22:09:00	14.7	81.9	1005.3	58.1	200.680	0.950	198.778	616.000	3.757	2.066	0.250	
22:10:00	14.7	81.7	1004.7	58.1	201.355	0.949	199.414	614.277	3.388	2.006	0.250	
22:11:00	14.7	81.8	1004.8	58.1	199.743	0.948	198.161	604.720	3.652	2.051	0.251	
22:12:00	14.7	81.8	1004.8	58.1	200.077	0.948	198.358	604.000	3.682	2.050	0.250	
22:13:00	14.7	81.8	1004.9	58.1	200.297	0.948	198.551	594.751	3.566	2.017	0.251	
22:14:00	14.7	81.8	1005.0	58.1	199.936	0.948	198.033	588.000	4.252	2.059	0.250	
22:15:00	14.7	81.8	1005.0	58.1	200.552	0.949	198.685	597.880	4.213	2.040	0.250	
PROMEDIO		14.7	81.3	1004.9	58.2	200.375	0.948	198.538	563.882	3.136	2.045	0.276

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUIRPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampli Edif Admin (kW)
203 MW	22:30:00	14.6	82.0	1005.4	58.8	202.178	0.945	200.577	623.000	3.961	2.013	0.251
	22:31:00	14.6	82.0	1005.3	58.9	203.163	0.946	201.224	618.781	3.961	2.061	0.250
	22:32:00	14.6	81.9	1005.3	58.9	203.208	0.946	201.322	618.117	3.393	2.033	0.250
	22:33:00	14.6	81.9	1005.3	58.9	202.508	0.945	200.723	624.501	3.371	2.019	0.251
	22:34:00	14.6	81.9	1005.3	59.0	203.604	0.948	201.764	624.000	3.142	2.065	0.251
	22:35:00	14.6	81.9	1005.3	59.0	204.329	0.947	202.281	621.242	3.122	2.038	0.250
	22:36:00	14.6	81.8	1005.2	59.0	203.629	0.946	201.620	622.242	4.070	2.031	0.250
	22:37:00	14.7	81.8	1005.2	59.0	203.266	0.945	201.405	624.000	3.717	2.056	0.251
	22:38:00	14.7	81.8	1005.2	59.0	203.675	0.947	201.601	627.718	3.699	2.006	0.251
	22:39:00	14.7	81.7	1005.2	59.0	203.545	0.947	201.456	628.742	3.807	2.042	0.251
	22:40:00	14.7	81.7	1005.3	59.1	203.067	0.947	201.159	625.000	3.214	2.046	0.251
	22:41:00	14.7	81.5	1005.4	59.1	203.462	0.948	201.450	625.751	3.200	2.019	0.251
	22:42:00	14.7	81.3	1005.4	59.1	203.774	0.949	201.849	619.124	3.469	2.066	0.251
	22:43:00	14.7	81.1	1005.5	59.1	203.827	0.948	201.990	623.122	3.331	2.040	0.251
	22:44:00	14.7	80.9	1005.5	58.9	203.466	0.948	201.669	625.643	2.969	2.027	0.252
	22:45:00	14.7	80.7	1005.5	58.9	203.807	0.948	201.921	621.751	3.210	2.055	0.251
	22:46:00	14.6	80.5	1005.5	58.9	203.825	0.948	202.017	627.380	3.229	2.027	0.252
	22:47:00	14.6	80.3	1005.5	58.9	203.105	0.950	201.216	626.123	3.965	2.032	0.252
	22:48:00	14.6	80.1	1005.5	58.9	202.943	0.950	200.994	630.000	3.992	2.067	0.252
	22:49:00	14.6	79.8	1005.5	58.9	203.789	0.952	202.097	627.875	4.483	2.020	0.251
	22:50:00	14.5	79.6	1005.4	58.9	203.435	0.949	201.707	627.126	2.979	2.029	0.252
	22:51:00	14.4	79.7	1005.2	58.9	203.458	0.951	201.428	632.126	2.695	2.049	0.252
	22:52:00	14.4	79.8	1005.2	59.0	204.026	0.951	202.231	632.000	2.473	1.997	0.252
	22:53:00	14.4	80.0	1005.2	59.0	203.675	0.952	201.818	630.144	2.956	2.035	0.252
	22:54:00	14.3	80.1	1005.2	59.0	203.189	0.952	201.351	631.855	2.411	2.051	0.252
	22:55:00	14.3	80.2	1005.1	58.9	203.167	0.952	201.076	627.128	2.831	2.010	0.252
	22:56:00	14.3	80.4	1005.1	58.9	203.481	0.952	201.587	622.124	2.787	2.047	0.252
	22:57:00	14.2	80.5	1005.1	59.0	203.980	0.953	202.151	627.511	2.547	2.038	0.251
	22:58:00	14.2	80.6	1005.1	58.9	203.403	0.953	201.786	624.740	3.656	2.007	0.251
	22:59:00	14.2	80.8	1005.1	58.9	202.888	0.952	201.056	626.743	3.645	2.051	0.252
23:00:00	14.1	80.9	1005.1	58.9	204.004	0.954	202.002	623.858	3.554	2.038	0.252	
PROMEDIO		14.5	80.9	1005.3	58.9	203.448	0.949	201.565	625.467	3.350	2.036	0.251

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
205 MW	23:15:00	14.2	82.2	1005.5	59.5	205.614	0.945	203.628	635.295	3.626	1.991	0.253
	23:16:00	14.2	82.2	1005.5	59.5	204.819	0.946	203.006	645.026	4.119	2.042	0.253
	23:17:00	14.2	82.1	1005.5	59.5	205.796	0.947	203.951	641.116	3.432	2.016	0.253
	23:18:00	14.2	82.1	1005.5	59.5	205.653	0.947	203.606	635.718	3.631	2.002	0.252
	23:19:00	14.3	82.1	1005.5	59.5	205.820	0.945	203.954	634.717	3.477	2.051	0.252
	23:20:00	14.3	82.1	1005.5	59.5	205.125	0.945	203.178	633.716	4.250	2.013	0.252
	23:21:00	14.2	82.0	1005.4	59.4	205.597	0.945	203.758	633.746	5.055	2.012	0.540
	23:22:00	14.2	82.0	1005.5	59.5	205.167	0.946	203.487	631.746	4.987	2.045	0.536
	23:23:00	14.2	81.9	1005.5	59.6	205.868	0.946	203.932	633.250	4.186	2.020	0.536
	23:24:00	14.2	81.9	1005.6	59.5	205.076	0.946	203.170	632.642	3.389	2.022	0.536
	23:25:00	14.2	81.9	1005.6	59.4	205.736	0.947	203.666	629.141	3.490	2.045	0.536
	23:26:00	14.2	81.8	1005.6	59.5	205.299	0.948	203.501	639.129	3.254	1.997	0.536
	23:27:00	14.2	81.8	1005.7	59.5	205.911	0.948	203.965	642.871	3.219	2.027	0.536
	23:28:00	14.2	81.8	1005.7	59.5	205.965	0.946	204.110	643.571	3.475	2.042	0.536
	23:29:00	14.1	81.7	1005.7	59.3	205.373	0.946	203.431	637.287	3.204	2.006	0.536
	23:30:00	14.1	81.7	1005.8	59.5	205.540	0.947	203.514	635.878	2.978	2.034	0.536
	23:31:00	14.1	81.7	1005.6	59.5	205.851	0.948	203.980	638.732	3.147	2.042	0.535
	23:32:00	14.1	81.7	1005.6	59.5	205.716	0.948	203.718	638.710	3.393	1.995	0.536
	23:33:00	14.1	81.8	1005.6	59.5	205.899	0.949	204.293	639.605	3.440	2.038	0.535
	23:34:00	14.1	81.9	1005.7	59.5	205.582	0.948	203.753	638.708	3.400	2.032	0.536
	23:35:00	14.1	81.9	1005.7	59.5	205.913	0.948	204.141	637.955	3.586	2.004	0.536
	23:36:00	14.1	82.0	1005.7	59.4	205.440	0.948	203.611	639.708	3.200	2.044	0.536
	23:37:00	14.1	82.0	1005.7	59.5	205.610	0.947	203.830	640.000	3.226	2.017	0.536
	23:38:00	14.1	82.1	1005.8	59.5	206.233	0.949	204.343	637.245	2.980	1.989	0.535
	23:39:00	14.1	82.2	1005.8	59.5	205.538	0.947	203.817	637.000	3.673	2.053	0.536
	23:40:00	14.1	82.2	1005.8	59.5	205.304	0.950	203.453	633.127	3.653	2.022	0.536
	23:41:00	14.1	82.2	1005.8	59.5	205.523	0.949	203.574	635.000	3.887	2.003	0.536
	23:42:00	14.1	82.2	1005.8	59.4	205.370	0.950	203.528	630.127	4.318	2.041	0.535
	23:43:00	14.1	82.2	1005.8	59.5	205.837	0.949	203.896	630.384	4.440	2.003	0.536
	23:44:00	14.1	82.2	1005.8	59.5	205.877	0.950	204.062	630.744	3.897	1.997	0.536
23:45:00	14.1	82.2	1005.8	59.4	206.094	0.949	203.924	634.044	3.478	2.046	0.536	
	PROMEDIO	14.2	82.0	1005.7	59.5	205.618	0.947	203.735	636.321	3.661	2.022	0.481

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 el 21/12/2020 a las 11:11:03 AM  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampli Edif Admin (kW)
208 MW	0:00:00	14.0	83.1	1005.6	60.2	208.532	0.951	206.756	639.715	4.180	2.025	0.538
	0:01:00	14.0	83.2	1005.7	60.2	209.021	0.950	206.964	633.130	3.661	2.002	0.536
	0:02:00	14.0	83.3	1005.7	60.3	208.162	0.950	206.008	634.514	3.089	2.048	0.536
	0:03:00	14.0	83.4	1005.7	60.3	208.651	0.950	206.565	628.875	3.147	2.031	0.537
	0:04:00	14.0	83.6	1005.6	60.3	208.749	0.951	206.871	630.745	3.204	1.982	0.285
	0:05:00	14.0	83.7	1005.6	60.2	208.455	0.950	206.422	628.037	3.603	2.047	0.285
	0:06:00	14.0	83.8	1005.6	60.3	208.906	0.952	206.912	629.730	3.233	2.022	0.285
	0:07:00	14.0	83.9	1005.6	60.3	209.023	0.952	207.026	632.204	2.869	2.004	0.286
	0:08:00	14.0	84.0	1005.5	60.2	209.055	0.953	207.370	631.601	2.821	2.035	0.285
	0:09:00	14.0	84.1	1005.5	60.2	207.614	0.951	205.800	635.129	2.588	2.019	0.285
	0:10:00	14.0	84.2	1005.5	60.2	208.457	0.951	206.506	630.545	2.574	2.001	0.285
	0:11:00	14.1	84.4	1005.9	60.2	208.915	0.949	206.885	631.000	3.275	2.048	0.284
	0:12:00	14.1	84.4	1005.9	60.2	208.221	0.947	206.301	626.279	2.852	2.008	0.284
	0:13:00	14.0	84.5	1005.8	60.2	208.194	0.946	206.233	625.403	2.875	1.999	0.284
	0:14:00	14.0	84.6	1005.8	60.2	208.533	0.947	206.582	628.000	3.088	2.048	0.284
	0:15:00	14.0	84.7	1005.8	60.3	208.417	0.947	206.417	631.265	3.305	2.010	0.284
	0:16:00	14.0	84.7	1005.8	60.2	209.007	0.948	207.026	628.266	3.883	2.009	0.284
	0:17:00	14.0	84.8	1005.8	60.2	208.100	0.948	206.277	629.666	3.944	2.040	0.284
	0:18:00	14.0	84.9	1005.8	60.3	209.021	0.948	207.036	632.440	3.568	2.000	0.284
	0:19:00	14.0	84.9	1005.8	60.2	208.279	0.946	206.320	633.000	3.512	2.013	0.284
	0:20:00	13.9	85.0	1005.8	60.1	207.726	0.947	206.071	633.000	3.291	2.035	0.284
	0:21:00	13.9	85.0	1005.7	60.2	208.097	0.947	206.123	634.000	3.924	1.996	0.284
	0:22:00	13.9	85.0	1005.7	60.3	208.575	0.950	206.796	631.000	3.686	2.014	0.284
	0:23:00	13.9	85.0	1005.7	60.2	209.042	0.949	207.116	629.133	4.379	2.029	0.284
	0:24:00	13.9	85.0	1005.7	60.2	207.860	0.947	206.085	631.147	3.320	2.001	0.285
	0:25:00	13.9	85.0	1005.8	60.3	209.272	0.946	207.073	629.152	3.313	2.013	0.284
	0:26:00	13.9	85.0	1005.8	60.3	208.686	0.945	206.823	623.170	3.286	2.040	0.284
	0:27:00	13.9	85.0	1005.8	60.2	208.497	0.944	206.435	629.387	4.281	1.985	0.284
	0:28:00	13.9	85.0	1005.8	60.2	208.016	0.944	206.117	635.393	4.746	2.023	0.284
	0:29:00	13.9	85.0	1005.8	60.3	209.094	0.945	207.103	633.221	3.412	2.023	0.284
0:30:00	13.9	85.0	1005.8	60.3	208.981	0.945	206.913	632.399	3.986	1.980	0.285	
PROMEDIO		14.0	84.4	1005.7	60.2	208.553	0.948	206.611	630.985	3.448	2.017	0.317



Firmado por CARLOS ROBERTO RIQUELME MOYA  
el 31/12/2020 a las 21:10:03 CLT

Firma del Representante de  
ENEL GENERACIÓN S.A.

MARCO BASILIO  
QUISPE CARDENAS  
Ingeniero Mecánico Electricista  
CIP Nº 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
210 MW	0:45:00	13.7	85.3	1005.4	60.7	210.048	0.948	208.089	628.149	3.239	2.005	0.285
	0:46:00	13.7	85.3	1005.4	60.8	210.690	0.951	208.888	623.731	3.538	2.033	0.285
	0:47:00	13.7	85.2	1005.4	60.8	210.713	0.950	208.884	626.721	3.579	1.985	0.285
	0:48:00	13.7	85.2	1005.4	60.8	211.145	0.950	209.369	627.375	3.638	2.018	0.285
	0:49:00	13.6	85.2	1005.5	60.7	210.864	0.950	208.828	627.000	3.917	2.023	0.285
	0:50:00	13.6	85.1	1005.5	60.7	210.512	0.951	208.665	621.385	3.859	1.978	0.285
	0:51:00	13.6	85.1	1005.4	60.8	210.690	0.952	208.653	624.268	3.556	2.008	0.285
	0:52:00	13.5	85.2	1005.2	60.8	210.583	0.952	208.486	626.402	3.547	2.016	0.285
	0:53:00	13.5	85.3	1005.2	60.9	211.143	0.952	209.210	629.137	3.761	1.985	0.285
	0:54:00	13.6	85.4	1005.2	60.8	210.485	0.954	208.409	630.264	3.491	2.023	0.285
	0:55:00	13.6	85.5	1005.1	60.8	211.018	0.952	209.225	626.000	3.585	2.026	0.285
	0:56:00	13.6	85.6	1005.1	60.7	211.060	0.952	209.232	629.870	2.811	1.977	0.285
	0:57:00	13.6	85.7	1005.0	60.7	210.630	0.953	208.599	629.258	3.260	2.021	0.285
	0:58:00	13.6	85.8	1005.0	60.7	210.499	0.953	208.376	632.000	3.106	2.024	0.285
	0:59:00	13.6	85.9	1005.0	60.9	211.182	0.952	209.133	632.133	3.387	1.987	0.284
	1:00:00	13.6	86.0	1004.9	60.8	210.706	0.952	208.828	636.874	3.781	2.019	0.285
	1:01:00	13.6	86.1	1005.0	60.7	210.480	0.954	208.402	634.868	2.864	2.024	0.285
	1:02:00	13.7	86.1	1005.2	60.6	210.268	0.952	208.308	640.130	2.743	1.986	0.285
	1:03:00	13.7	86.1	1005.2	60.7	210.150	0.953	208.075	641.000	2.478	2.027	0.285
	1:04:00	13.7	86.1	1005.2	60.8	211.028	0.955	209.034	639.138	2.633	2.022	0.285
	1:05:00	13.7	86.2	1005.3	60.8	210.738	0.954	208.765	639.292	2.713	1.978	0.285
	1:06:00	13.7	86.2	1005.3	60.7	210.793	0.953	208.593	643.000	3.538	2.022	0.284
	1:07:00	13.7	86.2	1005.3	60.7	210.312	0.953	208.490	643.000	4.497	2.018	0.285
	1:08:00	13.7	86.2	1005.4	60.7	209.952	0.954	208.028	644.477	2.878	1.974	0.285
1:09:00	13.7	86.2	1005.4	60.8	211.869	0.955	209.633	639.618	3.670	2.029	0.285	
1:10:00	13.7	86.2	1005.4	60.9	211.147	0.953	209.139	642.000	3.132	2.024	0.285	
1:11:00	13.7	86.3	1005.5	60.7	210.475	0.955	208.374	641.865	3.806	1.975	0.285	
1:12:00	13.6	86.1	1004.8	60.8	211.130	0.956	209.263	641.769	4.561	2.036	0.285	
1:13:00	13.6	86.2	1004.9	60.9	211.681	0.955	209.426	647.589	3.593	2.019	0.284	
1:14:00	13.6	86.2	1004.9	60.7	210.708	0.954	208.761	641.746	3.136	1.988	0.285	
1:15:00	13.6	86.2	1005.0	60.7	210.736	0.956	208.688	643.387	2.706	2.031	0.285	
PROMEDIO		13.6	85.8	1005.2	60.8	210.756	0.953	208.769	634.627	3.387	2.009	0.285

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

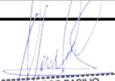
CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
212 MW	1:30:00	13.5	86.0	1005.3	61.3	212.487	0.949	210.731	642.000	3.860	2.026	0.285
	1:31:00	13.5	86.0	1005.3	61.4	212.880	0.949	210.824	635.000	3.705	1.984	0.285
	1:32:00	13.4	85.9	1004.8	61.3	213.425	0.950	211.477	637.000	3.459	2.011	0.285
	1:33:00	13.4	85.9	1004.7	61.3	213.658	0.950	211.852	633.863	3.734	2.021	0.285
	1:34:00	13.4	85.9	1004.7	61.6	213.800	0.951	211.972	634.701	3.712	1.982	0.285
	1:35:00	13.4	85.9	1004.7	61.6	214.402	0.953	212.471	636.608	3.649	2.024	0.285
	1:36:00	13.4	85.9	1004.7	61.7	213.369	0.951	211.490	635.522	3.124	2.014	0.285
	1:37:00	13.4	85.9	1004.7	61.6	214.284	0.953	212.273	634.741	3.089	1.976	0.285
	1:38:00	13.4	86.0	1004.7	61.6	213.961	0.953	211.970	630.000	2.914	2.017	0.285
	1:39:00	13.4	86.0	1004.7	61.4	212.912	0.950	210.835	630.867	3.688	2.020	0.285
	1:40:00	13.4	86.0	1004.6	61.4	213.488	0.949	211.439	628.732	3.619	1.970	0.285
	1:41:00	13.4	86.0	1004.6	61.3	213.745	0.951	211.966	631.595	2.875	2.019	0.285
	1:42:00	13.4	86.0	1005.0	61.5	213.820	0.952	211.807	629.465	3.065	2.029	0.285
	1:43:00	13.4	86.0	1005.0	61.5	214.746	0.954	212.784	625.347	3.115	1.981	0.285
	1:44:00	13.4	85.9	1005.0	61.5	213.544	0.954	211.546	629.463	4.622	2.008	0.284
	1:45:00	13.4	85.9	1005.0	61.6	214.515	0.954	212.456	631.432	4.282	2.007	0.283
	1:46:00	13.4	85.8	1005.1	61.6	213.730	0.950	211.709	632.734	4.028	1.954	0.284
	1:47:00	13.4	85.8	1005.1	61.5	212.927	0.950	210.770	632.869	3.633	2.002	0.283
	1:48:00	13.4	85.7	1005.1	61.4	212.415	0.949	210.302	628.865	3.426	2.006	0.283
	1:49:00	13.4	85.7	1005.1	61.4	212.702	0.950	210.429	631.000	4.226	1.965	0.283
	1:50:00	13.4	85.6	1005.2	61.3	213.314	0.951	211.486	627.733	2.790	2.006	0.283
	1:51:00	13.4	85.6	1005.2	61.4	213.818	0.951	211.912	631.272	2.747	1.991	0.284
	1:52:00	13.4	85.6	1005.2	61.5	215.250	0.952	213.072	629.598	3.146	1.954	0.283
	1:53:00	13.4	85.6	1005.2	61.6	213.798	0.951	211.642	628.271	3.402	2.010	0.284
1:54:00	13.4	85.6	1005.2	61.5	214.063	0.951	211.979	632.265	3.069	2.000	0.284	
1:55:00	13.4	85.6	1005.2	61.6	213.165	0.951	211.169	631.000	3.781	1.962	0.284	
1:56:00	13.4	85.6	1005.2	61.5	213.286	0.951	211.462	633.267	3.517	2.007	0.283	
1:57:00	13.4	85.6	1005.2	61.4	213.088	0.952	210.854	624.813	3.060	1.987	0.284	
1:58:00	13.4	85.6	1005.2	61.2	212.885	0.951	210.694	630.127	3.221	1.963	0.284	
1:59:00	13.4	85.6	1005.2	61.3	212.854	0.952	211.028	629.269	3.485	1.996	0.284	
2:00:00	13.4	85.6	1005.2	61.3	213.400	0.953	211.568	629.000	3.437	1.997	0.284	
PROMEDIO		13.4	85.8	1005.0	61.5	213.540	0.951	211.547	631.562	3.467	1.996	0.284

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
198 MW	21:00:00	0.3	-	0.0	0.1	0.1	0.0	0.2	-	-	-	-
	21:01:00	0.3	-	0.0	0.1	0.2	-0.2	0.3	-	-	-	-
	21:02:00	0.3	-	0.0	0.1	0.3	0.0	0.2	-	-	-	-
	21:03:00	0.2	-	0.0	0.1	-0.2	-0.4	-0.1	-	-	-	-
	21:04:00	0.2	-	0.0	0.1	0.3	-0.2	0.3	-	-	-	-
	21:05:00	0.2	-	0.0	0.0	0.3	0.0	0.3	-	-	-	-
	21:06:00	0.2	-	0.0	0.0	-0.3	-0.3	-0.3	-	-	-	-
	21:07:00	0.2	-	0.0	0.0	-0.2	-0.1	-0.3	-	-	-	-
	21:08:00	0.2	-	0.0	0.0	0.3	0.1	0.2	-	-	-	-
	21:09:00	0.2	-	0.0	0.0	-0.2	-0.1	-0.2	-	-	-	-
	21:10:00	0.2	-	0.0	0.0	0.2	0.1	0.0	-	-	-	-
	21:11:00	0.2	-	0.0	0.0	-0.1	0.2	-0.1	-	-	-	-
	21:12:00	0.1	-	0.0	0.0	0.3	0.1	0.4	-	-	-	-
	21:13:00	0.1	-	0.0	0.0	0.0	0.2	0.1	-	-	-	-
	21:14:00	0.1	-	0.0	0.0	0.1	0.4	0.2	-	-	-	-
	21:15:00	0.1	-	0.0	0.0	0.1	0.0	0.4	0.0	-	-	-
	21:16:00	0.1	-	0.0	0.0	0.1	-0.1	0.3	-0.1	-	-	-
	21:17:00	0.0	-	0.0	0.0	0.1	0.0	0.2	0.0	-	-	-
	21:18:00	0.0	-	0.0	0.0	0.1	-0.3	0.3	-0.2	-	-	-
	21:19:00	0.0	-	0.0	0.0	0.1	-0.1	-0.1	-0.3	-	-	-
	21:20:00	-0.1	-	0.0	0.0	0.1	0.3	0.0	0.3	-	-	-
	21:21:00	-0.1	-	0.0	0.0	0.1	0.1	0.0	0.1	-	-	-
	21:22:00	-0.2	-	0.0	0.0	0.1	0.0	-0.3	0.0	-	-	-
	21:23:00	-0.2	-	0.0	0.0	0.1	-0.5	-0.2	-0.4	-	-	-
21:24:00	-0.3	-	0.0	0.0	0.1	0.0	0.0	0.1	-	-	-	
21:25:00	-0.3	-	0.0	0.0	0.0	0.0	-0.2	-0.1	-	-	-	
21:26:00	-0.4	-	0.0	0.0	-0.1	0.1	-0.3	0.1	-	-	-	
21:27:00	-0.4	-	0.0	0.0	-0.2	-0.4	-0.1	-0.5	-	-	-	
21:28:00	-0.4	-	0.0	0.0	-0.3	0.2	0.1	0.1	-	-	-	
21:29:00	-0.5	-	0.0	0.0	-0.4	-0.1	0.0	-0.2	-	-	-	
21:30:00	-0.4	-	0.0	0.0	-0.4	-0.2	0.0	-0.2	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
200 MW	21:45:00	0.2	-	0.0	0.0	-0.2	-0.1	-0.2	-	-	-	-
	21:46:00	0.2	-	0.0	0.0	-0.2	0.0	-0.1	-	-	-	-
	21:47:00	0.2	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-
	21:48:00	0.2	-	0.0	0.0	0.4	0.3	0.3	-	-	-	-
	21:49:00	0.2	-	0.0	0.0	0.0	0.0	0.1	-	-	-	-
	21:50:00	0.1	-	0.0	0.0	0.0	-0.1	0.0	-	-	-	-
	21:51:00	0.1	-	0.0	0.0	-0.2	0.0	-0.2	-	-	-	-
	21:52:00	0.1	-	0.0	-0.1	0.1	0.2	-0.1	-	-	-	-
	21:53:00	0.0	-	0.0	-0.1	0.4	0.2	0.3	-	-	-	-
	21:54:00	0.0	-	0.0	-0.1	0.3	0.0	0.3	-	-	-	-
	21:55:00	0.0	-	0.0	0.0	0.1	0.0	0.2	-	-	-	-
	21:56:00	0.0	-	0.0	0.0	0.0	0.1	-0.1	-	-	-	-
	21:57:00	-0.1	-	0.0	0.0	-0.2	0.0	-0.2	-	-	-	-
	21:58:00	-0.1	-	0.0	0.0	0.0	0.1	0.0	-	-	-	-
	21:59:00	-0.1	-	0.0	0.0	0.0	-0.1	0.0	0.1	-	-	-
	22:00:00	-0.1	-	0.0	0.0	0.0	0.0	-0.1	-0.1	-	-	-
	22:01:00	-0.1	-	0.0	0.0	0.0	0.2	0.0	0.1	-	-	-
	22:02:00	-0.1	-	0.0	0.0	-0.1	0.0	0.1	0.1	-	-	-
	22:03:00	-0.1	-	0.0	0.0	-0.1	0.1	0.1	0.1	-	-	-
	22:04:00	-0.1	-	0.0	0.0	-0.1	-0.1	-0.3	-0.2	-	-	-
	22:05:00	-0.1	-	0.0	0.0	-0.1	0.0	-0.1	0.0	-	-	-
	22:06:00	0.0	-	0.0	0.0	0.0	-0.3	-0.2	-0.3	-	-	-
	22:07:00	0.0	-	0.0	0.0	0.0	-0.4	-0.2	-0.3	-	-	-
	22:08:00	0.0	-	0.0	0.0	0.0	0.2	0.1	0.3	-	-	-
22:09:00	0.0	-	0.0	0.0	0.1	-0.2	-0.1	-0.1	-	-	-	
22:10:00	-0.1	-	0.0	0.0	0.1	-0.5	-0.1	-0.4	-	-	-	
22:11:00	-0.1	-	0.0	0.0	0.1	0.3	0.0	0.2	-	-	-	
22:12:00	-0.1	-	0.0	0.0	0.1	0.0	0.0	0.1	-	-	-	
22:13:00	-0.1	-	0.0	0.0	0.1	0.0	0.0	0.0	-	-	-	
22:14:00	-0.1	-	0.0	0.0	0.1	0.2	0.1	0.3	-	-	-	
22:15:00	-0.1	-	0.0	0.0	0.2	-0.1	0.0	-0.1	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUESPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
203 MW	22:30:00	0.1	-	0.0	0.2	0.6	0.4	0.5	-	-	-	-
	22:31:00	0.1	-	0.0	0.0	0.1	0.3	0.2	-	-	-	-
	22:32:00	0.1	-	0.0	0.0	0.1	0.3	0.1	-	-	-	-
	22:33:00	0.1	-	0.0	0.0	0.5	0.5	0.4	-	-	-	-
	22:34:00	0.1	-	0.0	0.0	-0.1	0.1	-0.1	-	-	-	-
	22:35:00	0.1	-	0.0	-0.1	-0.4	0.2	-0.4	-	-	-	-
	22:36:00	0.1	-	0.0	-0.1	-0.1	0.3	0.0	-	-	-	-
	22:37:00	0.1	-	0.0	-0.1	0.1	0.4	0.1	-	-	-	-
	22:38:00	0.1	-	0.0	-0.1	-0.1	0.2	0.0	-	-	-	-
	22:39:00	0.1	-	0.0	0.0	-0.2	0.2	0.1	-	-	-	-
	22:40:00	0.2	-	0.0	0.0	-0.2	0.2	0.2	0.2	-	-	-
	22:41:00	0.2	-	0.0	0.0	-0.2	0.0	0.1	0.1	-	-	-
	22:42:00	0.2	-	0.0	0.0	-0.2	-0.2	0.0	-0.1	-	-	-
	22:43:00	0.2	-	0.0	0.0	-0.2	-0.2	0.1	-0.2	-	-	-
	22:44:00	0.2	-	0.0	0.0	0.1	0.0	0.1	-0.1	-	-	-
	22:45:00	0.1	-	0.0	0.0	0.1	-0.2	0.1	-0.2	-	-	-
	22:46:00	0.1	-	0.0	0.0	0.1	-0.2	0.1	-0.2	-	-	-
	22:47:00	0.1	-	0.0	0.0	0.1	0.2	-0.1	0.2	-	-	-
	22:48:00	0.1	-	0.0	0.0	0.1	0.2	-0.1	0.3	-	-	-
	22:49:00	0.1	-	0.0	0.0	0.1	-0.2	-0.3	-0.3	-	-	-
	22:50:00	0.0	-	0.0	0.0	0.1	0.0	0.0	-0.1	-	-	-
	22:51:00	-0.1	-	0.0	0.0	0.1	0.0	-0.2	0.1	-	-	-
	22:52:00	-0.1	-	0.0	0.0	-0.1	-0.3	-0.2	-0.3	-	-	-
22:53:00	-0.2	-	0.0	0.0	-0.1	-0.1	-0.3	-0.1	-	-	-	
22:54:00	-0.2	-	0.0	0.0	-0.1	0.1	-0.3	0.1	-	-	-	
22:55:00	-0.2	-	0.0	0.0	0.1	0.1	-0.3	0.2	-	-	-	
22:56:00	-0.3	-	0.0	0.0	0.2	0.0	-0.3	0.0	-	-	-	
22:57:00	-0.3	-	0.0	0.0	0.0	-0.3	-0.4	-0.3	-	-	-	
22:58:00	-0.3	-	0.0	0.0	0.0	0.0	-0.4	-0.1	-	-	-	
22:59:00	-0.4	-	0.0	0.0	0.1	0.3	-0.3	0.3	-	-	-	
23:00:00	-0.4	-	0.0	0.0	0.1	-0.3	-0.5	-0.2	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
205 MW	23:15:00	0.0	-	0.0	0.0	0.0	0.3	0.1	-	-	-	-
	23:16:00	0.1	-	0.0	0.0	0.4	0.1	0.4	-	-	-	-
	23:17:00	0.1	-	0.0	0.0	-0.1	0.1	-0.1	-	-	-	-
	23:18:00	0.1	-	0.0	-0.1	0.0	0.0	0.1	-	-	-	-
	23:19:00	0.1	-	0.0	0.0	-0.1	0.2	-0.1	-	-	-	-
	23:20:00	0.1	-	0.0	0.0	0.2	0.3	0.3	-	-	-	-
	23:21:00	0.1	-	0.0	0.1	0.0	0.2	0.0	-	-	-	-
	23:22:00	0.1	-	0.0	-0.1	0.2	0.1	0.1	-	-	-	-
	23:23:00	0.1	-	0.0	-0.1	-0.1	0.2	-0.1	-	-	-	-
	23:24:00	0.1	-	0.0	0.0	0.0	0.3	0.2	0.3	-	-	-
	23:25:00	0.0	-	0.0	0.1	-0.1	0.1	0.1	0.0	-	-	-
	23:26:00	0.0	-	0.0	-0.1	0.2	0.0	0.1	-	-	-	-
	23:27:00	0.0	-	0.0	-0.1	-0.1	0.0	-0.1	-	-	-	-
	23:28:00	0.0	-	0.0	0.0	-0.2	0.1	-0.2	-	-	-	-
	23:29:00	0.0	-	0.0	0.2	0.1	0.1	0.1	-	-	-	-
	23:30:00	0.0	-	0.0	0.0	0.0	0.0	0.1	-	-	-	-
	23:31:00	-0.1	-	0.0	0.0	0.0	-0.1	0.0	-0.1	-	-	-
	23:32:00	-0.1	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-
	23:33:00	-0.1	-	0.0	0.0	0.0	-0.1	-0.1	-0.3	-	-	-
	23:34:00	-0.1	-	0.0	0.0	0.0	0.0	-0.1	0.0	-	-	-
	23:35:00	-0.1	-	0.0	0.0	0.0	-0.1	-0.1	-0.2	-	-	-
	23:36:00	-0.1	-	0.0	0.1	0.1	-0.1	0.1	-	-	-	-
	23:37:00	-0.1	-	0.0	-0.1	0.0	0.0	0.0	-	-	-	-
	23:38:00	0.0	-	0.0	0.0	-0.3	-0.2	-0.3	-	-	-	-
23:39:00	0.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	
23:40:00	0.0	-	0.0	0.0	0.2	-0.3	0.1	-	-	-	-	
23:41:00	0.0	-	0.0	0.0	0.0	-0.2	0.1	-	-	-	-	
23:42:00	0.0	-	0.0	0.1	0.1	-0.3	0.1	-	-	-	-	
23:43:00	0.0	-	0.0	-0.1	-0.1	-0.1	-0.1	-	-	-	-	
23:44:00	0.0	-	0.0	0.0	0.0	-0.1	-0.2	-	-	-	-	
23:45:00	0.0	-	0.0	0.1	0.1	-0.2	-0.2	-	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 el 31/12/2020 a las 21:10:03 CLT.  
 Firma del Representante de  
**ENEL GENERACIÓN S.A.**

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 235415

Firma del Representante de la Consultora  
**HAMEK INGENIEROS ASOCIADOS S.A.C.**

Firma del Representante del  
**COORDINADOR ELECTRICO NACIONAL**

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
208 MW	0:00:00	0.0	-	0.0	0.0	0.0	-0.3	-0.1	-	-	-	-
	0:01:00	0.1	-	0.0	0.0	-0.2	-0.2	-0.2	-	-	-	-
	0:02:00	0.1	-	0.0	-0.1	0.2	-0.2	0.3	-	-	-	-
	0:03:00	0.0	-	0.0	-0.1	0.0	-0.2	0.0	-	-	-	-
	0:04:00	0.0	-	0.0	0.0	-0.1	-0.2	-0.1	-	-	-	-
	0:05:00	0.0	-	0.0	0.1	0.0	-0.2	0.1	-	-	-	-
	0:06:00	0.0	-	0.0	0.0	-0.2	-0.3	-0.1	-	-	-	-
	0:07:00	0.0	-	0.0	-0.1	-0.2	-0.4	-0.2	-	-	-	-
	0:08:00	0.0	-	0.0	0.1	-0.2	-0.5	-0.4	-	-	-	-
	0:09:00	0.0	-	0.0	0.1	0.5	-0.3	0.4	-	-	-	-
	0:10:00	0.0	-	0.0	0.1	0.0	-0.3	0.1	-	-	-	-
	0:11:00	0.1	-	0.0	0.0	0.0	-0.1	-0.1	-	-	-	-
	0:12:00	0.1	-	0.0	0.1	0.2	0.1	0.1	-	-	-	-
	0:13:00	0.1	-	0.0	0.1	0.2	0.2	0.2	-	-	-	-
	0:14:00	0.0	-	0.0	0.0	0.0	0.2	0.0	-	-	-	-
	0:15:00	0.0	-	0.0	-0.1	0.1	0.1	0.1	-	-	-	-
	0:16:00	0.0	-	0.0	0.0	0.0	-0.2	0.0	-0.2	-	-	-
	0:17:00	0.0	-	0.0	0.0	0.0	0.2	0.0	0.2	-	-	-
	0:18:00	0.0	-	0.0	-0.1	-0.2	-0.2	0.0	-0.2	-	-	-
	0:19:00	0.0	-	0.0	0.0	0.0	0.1	0.2	0.1	-	-	-
	0:20:00	0.0	-	0.0	0.2	0.4	0.1	0.3	-	-	-	-
	0:21:00	-0.1	-	0.0	0.0	0.0	0.2	0.1	0.2	-	-	-
	0:22:00	-0.1	-	0.0	-0.1	0.0	-0.2	-0.2	-0.1	-	-	-
	0:23:00	-0.1	-	0.0	0.0	0.0	-0.2	-0.1	-0.2	-	-	-
	0:24:00	-0.1	-	0.0	0.1	0.1	0.3	0.1	0.3	-	-	-
	0:25:00	-0.1	-	0.0	-0.2	-0.2	-0.3	0.3	-0.2	-	-	-
	0:26:00	-0.1	-	0.0	0.0	0.0	-0.1	0.4	-0.1	-	-	-
	0:27:00	-0.1	-	0.0	0.1	0.0	0.0	0.4	0.1	-	-	-
	0:28:00	-0.1	-	0.0	0.1	0.1	0.3	0.5	0.2	-	-	-
	0:29:00	-0.1	-	0.0	0.0	0.0	-0.3	0.4	-0.2	-	-	-
0:30:00	-0.1	-	0.0	0.0	0.0	-0.2	0.3	-0.1	-	-	-	



Firmado por CARLOS ROBERTO RIQUELME MOYA  
Firma del Representante de ENEL GENERACIÓN S.A.



MARCO BASILIO  
QUISPE CARDENAS  
Ingeniero Médico Electricista  
CIP N° 235415  
Firma del Representante de la Consultora HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
210 MW	0:45:00	0.1	-	0.0	0.1	0.3	0.5	0.3	-	-	-	-
	0:46:00	0.1	-	0.0	-0.1	0.0	0.2	-0.1	-	-	-	-
	0:47:00	0.0	-	0.0	-0.1	0.0	0.3	-0.1	-	-	-	-
	0:48:00	0.0	-	0.0	-0.1	-0.2	0.3	-0.3	-	-	-	-
	0:49:00	0.0	-	0.0	0.0	-0.1	0.3	0.0	-	-	-	-
	0:50:00	0.0	-	0.0	0.1	0.1	0.2	0.0	-	-	-	-
	0:51:00	-0.1	-	0.0	0.0	0.0	0.1	0.1	-	-	-	-
	0:52:00	-0.1	-	0.0	-0.1	0.1	0.1	0.1	-	-	-	-
	0:53:00	-0.1	-	0.0	-0.2	-0.2	0.1	-0.2	-	-	-	-
	0:54:00	-0.1	-	0.0	0.0	0.1	-0.1	0.2	-	-	-	-
	0:55:00	-0.1	-	0.0	0.0	-0.1	0.1	-0.2	-	-	-	-
	0:56:00	-0.1	-	0.0	0.1	-0.1	0.1	-0.2	-	-	-	-
	0:57:00	0.0	-	0.0	0.2	0.1	0.0	0.1	-	-	-	-
	0:58:00	0.0	-	0.0	0.0	0.1	0.0	0.2	-	-	-	-
	0:59:00	0.0	-	0.0	-0.2	-0.2	0.1	-0.2	-	-	-	-
	1:00:00	0.0	-	0.0	-0.1	0.0	0.1	0.0	-	-	-	-
	1:01:00	0.0	-	0.0	0.1	0.1	-0.1	0.2	-	-	-	-
	1:02:00	0.0	-	0.0	0.2	0.2	0.1	0.2	-	-	-	-
	1:03:00	0.0	-	0.0	0.1	0.3	0.0	0.3	-	-	-	-
	1:04:00	0.0	-	0.0	-0.1	-0.1	-0.2	-0.1	-	-	-	-
	1:05:00	0.0	-	0.0	-0.1	0.0	-0.1	0.0	-	-	-	-
1:06:00	0.0	-	0.0	0.0	0.0	0.0	0.1	-	-	-	-	
1:07:00	0.0	-	0.0	0.1	0.2	-0.1	0.1	-	-	-	-	
1:08:00	0.1	-	0.0	0.2	0.4	-0.2	0.4	-	-	-	-	
1:09:00	0.1	-	0.0	-0.1	-0.5	-0.2	-0.4	-	-	-	-	
1:10:00	0.1	-	0.0	-0.2	-0.2	-0.1	-0.2	-	-	-	-	
1:11:00	0.1	-	0.0	0.1	0.1	-0.3	0.2	-	-	-	-	
1:12:00	0.0	-	0.0	0.0	-0.2	-0.4	-0.2	-	-	-	-	
1:13:00	0.0	-	0.0	-0.2	-0.4	-0.2	-0.3	-	-	-	-	
1:14:00	0.0	-	0.0	0.1	0.0	-0.1	0.0	-	-	-	-	
1:15:00	0.0	-	0.0	0.2	0.0	-0.4	0.0	-	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / DIÉSEL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
212 MW	1:30:00	0.1	-	0.0	0.2	0.5	0.2	0.4	-	-	-	-
	1:31:00	0.1	-	0.0	0.0	0.3	0.2	0.3	-	-	-	-
	1:32:00	0.0	-	0.0	0.2	0.1	0.1	0.0	-	-	-	-
	1:33:00	0.0	-	0.0	0.2	-0.1	0.1	-0.1	-	-	-	-
	1:34:00	0.0	-	0.0	-0.2	-0.1	0.0	-0.2	-	-	-	-
	1:35:00	0.0	-	0.0	-0.2	-0.4	-0.1	-0.4	-	-	-	-
	1:36:00	0.0	-	0.0	-0.3	0.1	0.0	0.0	-	-	-	-
	1:37:00	0.0	-	0.0	-0.2	-0.3	-0.2	-0.3	-	-	-	-
	1:38:00	0.0	-	0.0	-0.2	-0.2	-0.2	-0.2	-	-	-	-
	1:39:00	0.0	-	0.0	0.0	0.3	0.1	0.3	-	-	-	-
	1:40:00	0.0	-	0.0	0.1	0.0	0.2	0.1	-	-	-	-
	1:41:00	0.0	-	0.0	0.3	-0.1	0.1	-0.2	-	-	-	-
	1:42:00	0.0	-	0.0	-0.1	-0.1	-0.1	-0.1	-	-	-	-
	1:43:00	0.0	-	0.0	0.0	-0.6	-0.3	-0.6	-	-	-	-
	1:44:00	0.0	-	0.0	-0.1	0.0	-0.3	0.0	-	-	-	-
	1:45:00	0.0	-	0.0	-0.2	-0.5	-0.3	-0.4	-	-	-	-
	1:46:00	0.0	-	0.0	-0.2	-0.1	0.2	-0.1	-	-	-	-
	1:47:00	0.0	-	0.0	-0.1	0.3	0.1	0.4	-	-	-	-
	1:48:00	0.0	-	0.0	0.0	0.5	0.2	0.6	-	-	-	-
	1:49:00	0.0	-	0.0	0.2	0.4	0.1	0.5	-	-	-	-
1:50:00	0.0	-	0.0	0.2	0.1	0.0	0.0	-	-	-	-	
1:51:00	0.0	-	0.0	0.2	-0.1	0.0	-0.2	-	-	-	-	
1:52:00	0.0	-	0.0	-0.1	-0.8	-0.1	-0.7	-	-	-	-	
1:53:00	0.0	-	0.0	-0.2	-0.1	0.1	0.0	-	-	-	-	
1:54:00	0.0	-	0.0	-0.1	-0.2	0.0	-0.2	-	-	-	-	
1:55:00	0.0	-	0.0	-0.2	0.2	0.0	0.2	-	-	-	-	
1:56:00	0.0	-	0.0	-0.1	0.1	0.0	0.0	-	-	-	-	
1:57:00	0.0	-	0.0	0.1	0.2	-0.1	0.3	-	-	-	-	
1:58:00	0.0	-	0.0	0.4	0.3	0.0	0.4	-	-	-	-	
1:59:00	0.0	-	0.0	0.2	0.3	-0.1	0.2	-	-	-	-	
2:00:00	0.0	-	0.0	0.3	0.1	-0.1	0.0	-	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

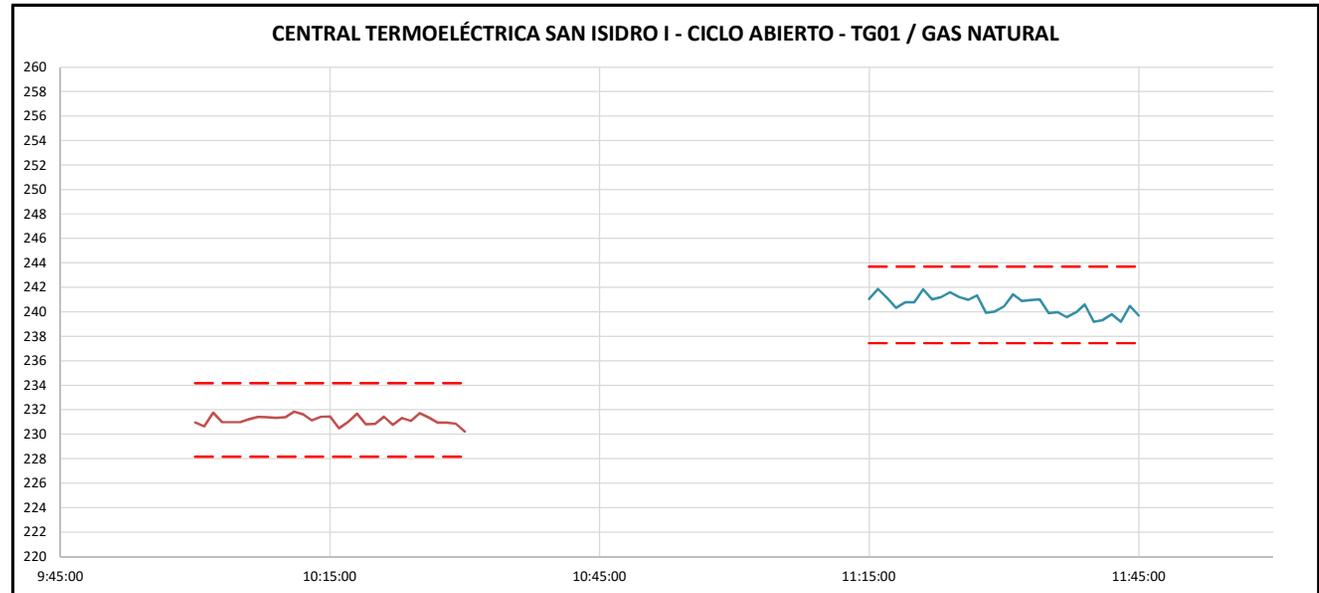
Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

RESUMEN DE REGISTROS

CENTRAL TÉRMICA	CENTRAL TERMOELÉCTRICA SAN ISIDRO I
UNIDAD	CICLO ABIERTO - TG01 / GAS NATURAL
EMPRESA	ENEL GENERACIÓN S.A.
FECHA DE PRUEBA	21/12/2020

1.- Diagrama de carga

Potencia Nominal MW	Hora de Inicio	Hora de Finalización
231 MW	10:00	10:30
255 MW	11:15	11:45



2.- Promedio de Registros

Potencia Nominal	Temperatura	Humedad Relativa	Presión	Flujo de Gas Natural	Potencia TG Bruta	FDP TG Bruta	Potencia TG Neta	Potencia SSAA TG	Potencia SSAA 11BJA01 TFA Edif Admin	Potencia SSAA 11BJC01 HVAC Edif Admin	Potencia SSAA 11BJC01 TFA Ampl Edif Admin
MW	°C	%	mbar	m <sup>3</sup> /h	MW		MW	KW	KW	KW	KW
231 MW	19.4 °C	55.0 %	1004.9 mbar	65326.7 m <sup>3</sup> /h	231.163 MW	0.945	228.815 MW	874.5 kW	18.7 kW	6.7 kW	0.3 kW
255 MW	21.8 °C	49.0 %	1004.8 mbar	67685.4 m <sup>3</sup> /h	240.567 MW	0.949	238.521 MW	452.9 kW	18.5 kW	3.1 kW	0.1 kW

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	UNIDAD CICLO ABIERTO - TG01 / GAS NATURAL
-------------------------------------	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
231 MW	10:00:00	18.9	57.5	1005.2	65136.7	230.952	0.945	228.322	883.000	18.737	7.135	0.281
	10:01:00	19.0	57.3	1005.2	65116.2	230.649	0.944	228.223	869.432	16.590	7.029	0.281
	10:02:00	19.0	57.2	1005.3	65374.9	231.758	0.945	229.512	862.000	16.332	7.130	0.280
	10:03:00	19.1	57.0	1005.3	65168.8	230.992	0.946	228.443	863.121	20.181	7.182	0.279
	10:04:00	19.2	56.6	1005.3	65137.3	230.991	0.946	228.705	864.481	19.636	7.086	0.281
	10:05:00	19.2	56.4	1005.2	65304.5	230.981	0.943	228.731	875.879	19.977	6.969	0.279
	10:06:00	19.2	56.1	1005.1	65739.1	231.238	0.945	228.828	856.121	15.024	5.761	0.280
	10:07:00	19.2	55.8	1005.1	65223.2	231.413	0.945	229.351	853.875	14.429	5.769	0.278
	10:08:00	19.2	55.6	1005.0	65558.0	231.387	0.945	229.065	859.247	18.904	5.822	0.279
	10:09:00	19.2	55.3	1005.0	65587.2	231.331	0.944	228.922	864.444	19.726	7.185	0.280
	10:10:00	19.2	55.1	1004.9	65133.1	231.382	0.945	228.872	861.000	14.051	7.187	0.280
	10:11:00	19.3	54.8	1004.8	65364.4	231.841	0.946	229.482	861.341	15.934	7.072	0.280
	10:12:00	19.3	54.5	1004.8	65259.4	231.621	0.946	229.259	861.000	18.467	6.979	0.280
	10:13:00	19.3	54.3	1004.7	65217.5	231.139	0.944	228.691	866.120	17.591	7.011	0.281
	10:14:00	19.3	54.1	1004.6	65496.8	231.427	0.946	228.942	867.000	15.670	5.815	0.281
	10:15:00	19.3	54.1	1004.7	65266.0	231.450	0.946	229.091	869.000	18.274	5.769	0.280
	10:16:00	19.4	54.1	1004.7	65645.6	230.497	0.944	227.911	865.000	24.390	5.804	0.279
	10:17:00	19.4	54.1	1004.8	65277.2	231.008	0.946	228.617	874.117	25.109	7.033	0.279
	10:18:00	19.5	54.1	1004.8	65513.1	231.668	0.947	229.138	877.000	21.405	7.079	0.279
	10:19:00	19.5	54.1	1004.9	65413.6	230.812	0.946	228.526	880.751	17.941	7.101	0.278
	10:20:00	19.6	54.2	1004.9	65416.8	230.834	0.946	228.566	887.486	15.936	7.156	0.280
	10:21:00	19.6	54.2	1005.0	65363.1	231.421	0.947	229.319	883.117	18.257	7.134	0.280
	10:22:00	19.7	54.2	1005.0	65059.3	230.777	0.946	228.247	875.233	20.550	5.722	0.280
	10:23:00	19.8	54.2	1005.1	65403.5	231.334	0.946	228.757	875.766	18.418	5.766	0.279
	10:24:00	19.8	54.2	1005.0	64933.9	231.089	0.946	228.739	891.000	17.551	5.817	0.279
	10:25:00	19.8	54.3	1004.7	65347.2	231.718	0.947	229.162	902.304	21.135	7.074	0.279
	10:26:00	19.8	54.4	1004.8	65347.3	231.371	0.945	228.888	896.243	24.657	7.023	0.280
	10:27:00	19.8	54.5	1004.8	65309.9	230.934	0.945	229.036	888.481	18.628	7.121	0.278
	10:28:00	19.9	54.6	1004.8	65331.0	230.947	0.946	228.919	891.750	16.887	7.026	0.279
	10:29:00	19.9	54.7	1004.9	65275.5	230.862	0.947	228.890	897.121	18.813	6.999	0.279
10:30:00	19.9	54.7	1004.9	65407.4	230.229	0.945	228.104	887.599	19.066	5.868	0.277	
	PROMEDIO	19.4	55.0	1004.9	65326.7	231.163	0.945	228.815	874.517	18.654	6.665	0.280

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415

Firma del Representante de la Consultora  
HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / GAS NATURAL
-------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
255 MW	11:15:00	21.6	51.5	1005.1	68011.2	241.057	0.945	238.681	454.605	22.634	3.489	0.278
	11:16:00	21.6	51.4	1005.1	67694.5	241.867	0.944	239.767	447.000	19.119	3.455	0.277
	11:17:00	21.6	51.2	1005.0	67998.4	241.153	0.947	239.151	448.200	17.327	3.483	0.278
	11:18:00	21.6	51.0	1005.0	67436.6	240.336	0.946	238.186	452.547	14.131	3.452	0.278
	11:19:00	21.6	50.8	1004.9	67875.8	240.775	0.947	238.684	450.237	17.643	3.545	0.280
	11:20:00	21.6	50.7	1004.9	67758.5	240.769	0.947	238.693	454.366	19.383	2.227	0.276
	11:21:00	21.6	50.5	1004.8	68082.3	241.844	0.947	239.987	454.794	16.431	2.218	0.278
	11:22:00	21.6	50.3	1004.8	67747.4	241.017	0.947	239.074	457.116	16.635	2.205	0.278
	11:23:00	21.6	50.1	1004.8	68279.4	241.203	0.946	239.116	453.000	25.445	3.512	0.278
	11:24:00	21.6	49.9	1004.7	67570.5	241.618	0.947	239.981	452.884	25.159	3.440	0.001
	11:25:00	21.5	49.9	1004.7	67940.2	241.210	0.947	238.965	458.900	21.900	3.502	0.001
	11:26:00	21.6	49.7	1004.7	68060.8	240.980	0.947	238.907	460.121	17.264	3.504	0.001
	11:27:00	21.6	49.6	1004.7	67785.2	241.350	0.946	239.535	460.766	19.736	3.521	0.001
	11:28:00	21.6	49.5	1004.8	67975.1	239.921	0.944	237.929	457.631	19.597	2.215	0.001
	11:29:00	21.6	49.4	1004.8	67743.7	240.037	0.953	237.967	457.000	16.991	2.241	0.001
	11:30:00	21.7	49.2	1004.8	67521.3	240.449	0.955	238.491	450.235	14.748	2.226	0.001
	11:31:00	21.7	49.1	1004.9	67856.5	241.424	0.955	239.445	450.235	20.459	3.463	0.001
	11:32:00	21.7	49.0	1004.9	67773.3	240.891	0.955	238.741	445.740	19.354	3.552	0.001
	11:33:00	21.7	48.9	1005.0	67707.6	240.952	0.950	238.840	444.261	19.235	3.535	0.001
	11:34:00	21.8	48.7	1005.0	67851.8	241.028	0.952	239.114	446.128	19.257	3.578	0.001
	11:35:00	21.8	48.3	1004.4	67486.1	239.888	0.952	237.816	443.346	16.734	3.553	0.001
	11:36:00	21.9	48.1	1004.5	67193.6	239.973	0.952	237.924	449.110	17.050	3.557	0.001
	11:37:00	21.9	47.9	1004.5	67133.0	239.561	0.952	237.356	449.000	17.019	2.262	0.001
	11:38:00	22.0	47.6	1004.5	67724.9	239.957	0.950	237.941	445.927	17.466	2.248	0.001
	11:39:00	22.1	47.4	1004.6	67644.1	240.605	0.951	238.482	451.764	14.404	2.239	0.001
	11:40:00	22.2	47.1	1004.6	67401.6	239.192	0.949	236.992	451.000	16.913	3.518	0.001
	11:41:00	22.3	46.9	1004.6	67865.3	239.337	0.949	237.510	461.109	19.820	3.517	0.001
11:42:00	22.4	46.6	1004.6	67145.7	239.815	0.951	237.445	457.228	21.903	3.529	0.001	
11:43:00	22.5	46.4	1004.7	66935.6	239.184	0.951	237.326	460.000	17.220	3.531	0.001	
11:44:00	22.6	46.1	1004.7	67520.7	240.480	0.951	238.415	460.778	16.192	3.513	0.001	
11:45:00	22.6	46.1	1005.0	67525.8	239.715	0.948	237.683	456.411	16.954	2.253	0.001	
	PROMEDIO	21.8	49.0	1004.8	67685.4	240.567	0.949	238.521	452.950	18.520	3.099	0.081

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / GAS NATURAL
-------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 21/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
231 MW	10:00:00	-0.5	-	0.0	0.3	0.1	0.0	0.2	-	-	-	-
	10:01:00	-0.5	-	0.0	0.3	0.2	0.2	0.3	-	-	-	-
	10:02:00	-0.4	-	0.0	-0.1	-0.3	0.0	-0.3	-	-	-	-
	10:03:00	-0.3	-	0.0	0.2	0.1	0.0	0.2	-	-	-	-
	10:04:00	-0.3	-	0.0	0.3	0.1	0.0	0.0	-	-	-	-
	10:05:00	-0.2	-	0.0	0.0	0.1	0.2	0.0	-	-	-	-
	10:06:00	-0.2	-	0.0	-0.6	0.0	0.1	0.0	-	-	-	-
	10:07:00	-0.2	-	0.0	0.2	-0.1	0.1	-0.2	-	-	-	-
	10:08:00	-0.2	-	0.0	-0.4	-0.1	0.1	-0.1	-	-	-	-
	10:09:00	-0.2	-	0.0	-0.4	-0.1	0.2	0.0	-	-	-	-
	10:10:00	-0.2	-	0.0	0.3	-0.1	0.1	0.0	-	-	-	-
	10:11:00	-0.2	-	0.0	-0.1	-0.3	-0.1	-0.3	-	-	-	-
	10:12:00	-0.2	-	0.0	0.1	-0.2	0.0	-0.2	-	-	-	-
	10:13:00	-0.1	-	0.0	0.2	0.0	0.1	0.1	-	-	-	-
	10:14:00	-0.1	-	0.0	-0.3	-0.1	0.0	-0.1	-	-	-	-
	10:15:00	-0.1	-	0.0	0.1	-0.1	-0.1	-0.1	-	-	-	-
	10:16:00	0.0	-	0.0	-0.5	0.3	0.2	0.4	-	-	-	-
	10:17:00	0.0	-	0.0	0.1	0.1	0.0	0.1	-	-	-	-
	10:18:00	0.1	-	0.0	-0.3	-0.2	-0.2	-0.1	-	-	-	-
	10:19:00	0.1	-	0.0	-0.1	0.2	-0.1	0.1	-	-	-	-
	10:20:00	0.2	-	0.0	-0.1	0.1	-0.1	0.1	-	-	-	-
	10:21:00	0.2	-	0.0	-0.1	-0.1	-0.1	-0.2	-	-	-	-
	10:22:00	0.3	-	0.0	0.4	0.2	-0.1	0.2	-	-	-	-
	10:23:00	0.3	-	0.0	-0.1	-0.1	-0.1	0.0	-	-	-	-
	10:24:00	0.4	-	0.0	0.6	0.0	-0.1	0.0	-	-	-	-
	10:25:00	0.4	-	0.0	0.0	-0.2	-0.2	-0.2	-	-	-	-
	10:26:00	0.4	-	0.0	0.0	-0.1	0.0	0.0	-	-	-	-
	10:27:00	0.4	-	0.0	0.0	0.1	0.1	-0.1	-	-	-	-
	10:28:00	0.4	-	0.0	0.0	0.1	0.0	0.0	-	-	-	-
	10:29:00	0.5	-	0.0	0.1	0.1	-0.2	0.0	-	-	-	-
10:30:00	0.5	-	0.0	-0.1	0.4	0.1	0.3	-	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 el 21/12/2020 a las 21:10:03 CLT  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO ABIERTO - TG01 / GAS NATURAL
-------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: #REF!

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TG Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Amplif Edif Admin (kW)
255 MW	11:15:00	-0.2	-	0.0	-0.5	-0.2	0.4	-0.1	-	-	-	-
	11:16:00	-0.2	-	0.0	0.0	-0.5	0.6	-0.5	-	-	-	-
	11:17:00	-0.2	-	0.0	-0.5	-0.2	0.3	-0.3	-	-	-	-
	11:18:00	-0.2	-	0.0	0.4	0.1	0.3	0.1	-	-	-	-
	11:19:00	-0.2	-	0.0	-0.3	-0.1	0.3	-0.1	-	-	-	-
	11:20:00	-0.2	-	0.0	-0.1	-0.1	0.2	-0.1	-	-	-	-
	11:21:00	-0.2	-	0.0	-0.6	-0.5	0.2	-0.6	-	-	-	-
	11:22:00	-0.3	-	0.0	-0.1	-0.2	0.2	-0.2	-	-	-	-
	11:23:00	-0.3	-	0.0	-0.9	-0.3	0.3	-0.2	-	-	-	-
	11:24:00	-0.3	-	0.0	0.2	-0.4	0.2	-0.6	-	-	-	-
	11:25:00	-0.3	-	0.0	-0.4	-0.3	0.3	-0.2	-	-	-	-
	11:26:00	-0.3	-	0.0	-0.6	-0.2	0.3	-0.2	-	-	-	-
	11:27:00	-0.2	-	0.0	-0.1	-0.3	0.3	-0.4	-	-	-	-
	11:28:00	-0.2	-	0.0	-0.4	0.3	0.5	0.2	-	-	-	-
	11:29:00	-0.2	-	0.0	-0.1	0.2	-0.4	0.2	-	-	-	-
	11:30:00	-0.2	-	0.0	0.2	0.0	-0.6	0.0	-	-	-	-
	11:31:00	-0.1	-	0.0	-0.3	-0.4	-0.6	-0.4	-	-	-	-
	11:32:00	-0.1	-	0.0	-0.1	-0.1	-0.6	-0.1	-	-	-	-
	11:33:00	-0.1	-	0.0	0.0	-0.2	-0.1	-0.1	-	-	-	-
	11:34:00	-0.1	-	0.0	-0.2	-0.2	-0.3	-0.2	-	-	-	-
	11:35:00	-0.1	-	0.0	0.3	0.3	-0.3	0.3	-	-	-	-
	11:36:00	0.0	-	0.0	0.7	0.2	-0.3	0.3	-	-	-	-
	11:37:00	0.1	-	0.0	0.8	0.4	-0.3	0.5	-	-	-	-
	11:38:00	0.2	-	0.0	-0.1	0.3	-0.1	0.2	-	-	-	-
11:39:00	0.3	-	0.0	0.1	0.0	-0.2	0.0	-	-	-	-	
11:40:00	0.4	-	0.0	0.4	0.6	0.0	0.6	-	-	-	-	
11:41:00	0.5	-	0.0	-0.3	0.5	0.0	0.4	-	-	-	-	
11:42:00	0.6	-	0.0	0.8	0.3	-0.2	0.5	-	-	-	-	
11:43:00	0.6	-	0.0	1.1	0.6	-0.2	0.5	-	-	-	-	
11:44:00	0.7	-	0.0	0.2	0.0	-0.2	0.0	-	-	-	-	
11:45:00	0.8	-	0.0	0.2	0.4	0.1	0.4	-	-	-	-	

  
 Firmado por CARLOS ROBERTO RIQUELME MOYA  
 el 31/12/2020 a las 11:45:03.017  
 Firma del Representante de  
 ENEL GENERACIÓN S.A.

  
 MARCO BASILIO  
 QUIRPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP N° 235415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

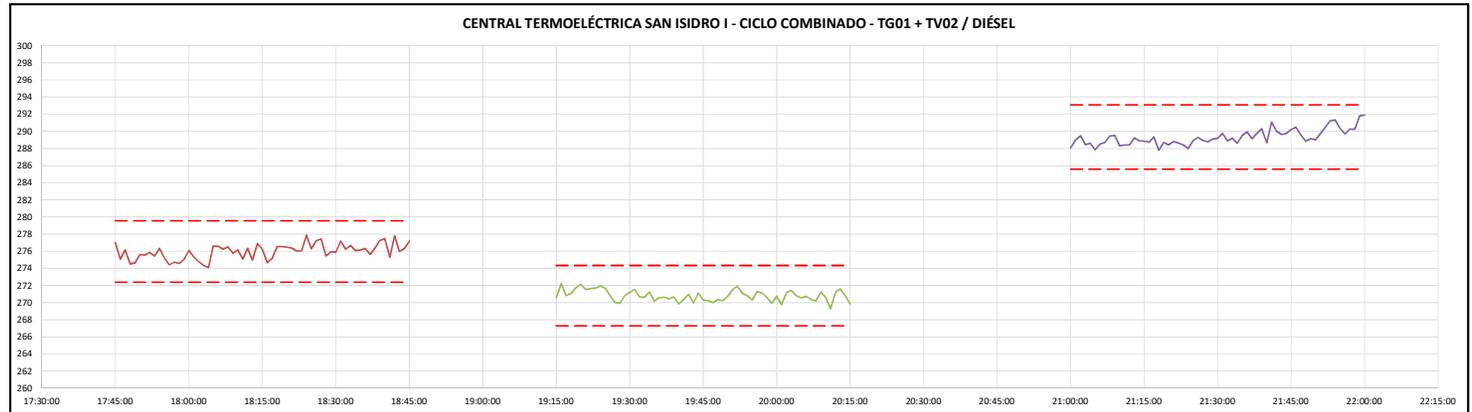
RESUMEN DE REGISTROS

CENTRAL TÉRMICA	CENTRAL TERMOELÉCTRICA SAN ISIDRO I
UNIDAD	CICLO COMBINADO - TG01 + TV02 / DIESEL
EMPRESA	ENEL GENERACIÓN S.A.
FECHA DE PRUEBA	30/12/2020

1.- Diagrama de carga

Potencia Nominal MW	Hora de Inicio	Hora de Finalización
310 MW	17:45	18:45
305 MW	19:15	20:15
301 MW (310 MW)*	21:00	22:00

0.729167  
0.927083  
0.010417



2.- Promedio de Registros

Potencia Nominal	Temperatura	Humedad Relativa	Presión	Flujo de Diésel	Potencia TG Bruta	FDP TG Bruta	Potencia TV Bruta	FDP TV Bruta	Potencia TG Neta	Potencia TV Neta	Potencia CC Bruta	Potencia CC Neta	Potencia SSAA TG	Potencia SSAA TV	Potencia SSAA 11BJA01 TFA Edif Admin	Potencia SSAA 11BJC01 HVAC Edif Admin	Potencia SSAA 11BJC01 TFA Ampl Edif Admin
MW	°C	%	mbar	m³/h	MW		MW		MW	MW	MW	MW	KW	KW	KW	KW	KW
310 MW	30.5 °C	23.9 %	1001.7 mbar	56.3 m³/h	188.254 MW	0.953	87.713 MW	0.951	185.206 MW	84.167 MW	275.967 MW	269.373 MW	189.1 kW	2804.5 kW	11.0 kW	3.3 kW	0.3 kW
305 MW	27.0 °C	27.3 %	1001.8 mbar	55.4 m³/h	185.874 MW	0.963	84.934 MW	0.959	182.846 MW	81.402 MW	270.809 MW	264.248 MW	188.3 kW	2775.3 kW	9.3 kW	2.8 kW	0.2 kW
301 MW (310 MW)*	21.4 °C	36.6 %	1002.0 mbar	58.8 m³/h	200.204 MW	0.951	89.125 MW	0.945	197.036 MW	85.469 MW	289.329 MW	282.505 MW	1903.9 kW	2824.0 kW	4.1 kW	2.5 kW	0.3 kW

CENTRAL TERMOLÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / DIESEL
------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 30/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia S5AA TG (kW)	Potencia S5AA TV (kW)	Potencia S5AA 11BJA01 TFA Edif Admin (kW)	Potencia S5AA 11BJC01 HVAC Edif Admin (kW)	Potencia S5AA 11BJC01 TFA Ampl Edif Admin (kW)
310 MW	17:45:00	31.0	24.0	1002.0	56.3	188.985	0.952	88.012	0.948	185.983	84.359	276.997	270.341	1894.000	2849.243	12.147	6.110	0.247
	17:46:00	31.0	24.0	1001.9	56.2	187.424	0.950	87.527	0.951	184.450	84.048	275.051	268.499	1893.815	2840.538	11.580	6.084	0.247
	17:47:00	31.0	24.0	1001.9	56.2	188.243	0.951	87.914	0.949	185.403	84.376	276.157	269.780	1893.883	2837.947	11.496	6.056	0.247
	17:48:00	31.0	24.0	1001.8	56.2	186.897	0.947	87.631	0.950	183.895	84.143	274.528	268.038	1895.224	2835.896	15.162	6.086	0.247
	17:49:00	31.0	24.0	1001.8	56.2	196.998	0.947	87.636	0.943	184.104	84.061	274.634	268.165	1902.000	2832.637	15.138	6.043	0.248
	17:50:00	31.0	24.1	1001.8	56.2	187.810	0.947	87.799	0.949	184.760	84.169	275.609	268.929	1893.450	2816.225	13.574	6.021	0.248
	17:51:00	31.0	24.1	1001.8	56.3	187.729	0.947	87.812	0.948	184.899	84.288	275.541	269.147	1886.110	2812.780	14.117	2.761	0.248
	17:52:00	31.0	24.1	1001.9	56.3	188.022	0.946	87.534	0.948	184.232	84.227	275.856	269.070	1899.867	2817.778	14.068	2.746	0.248
	17:53:00	31.0	24.1	1001.8	56.4	187.758	0.948	87.690	0.947	184.607	84.183	275.448	268.790	1892.440	2819.776	14.079	2.777	0.248
	17:54:00	31.0	24.1	1001.8	56.4	188.455	0.948	87.871	0.943	185.340	84.199	276.326	269.539	1895.765	2840.412	13.991	2.764	0.248
	17:55:00	31.0	24.1	1001.8	56.3	187.542	0.950	87.689	0.949	184.592	84.064	275.231	268.655	1890.231	2822.000	13.800	2.767	1.947
	17:56:00	31.0	24.0	1002.0	56.1	186.824	0.949	87.588	0.947	183.605	84.035	274.412	267.640	1885.346	2809.847	13.381	2.774	2.152
	17:57:00	31.0	23.9	1001.9	55.9	186.905	0.950	87.803	0.951	183.958	84.262	274.708	269.220	1886.358	2812.834	10.367	2.777	0.246
	17:58:00	31.0	23.8	1001.9	55.8	186.834	0.951	87.739	0.949	183.741	84.133	274.573	267.874	1894.886	2792.456	10.222	2.770	0.248
	17:59:00	30.9	23.5	1001.8	56.2	187.308	0.950	87.722	0.948	184.226	84.140	275.030	268.366	1897.228	2807.798	10.326	2.762	0.248
	18:00:00	30.9	23.5	1001.8	56.2	188.287	0.951	87.799	0.949	184.941	84.196	276.086	269.137	1893.882	2820.530	11.141	2.764	0.248
	18:01:00	30.8	23.4	1001.7	56.3	187.897	0.948	87.467	0.944	184.950	84.000	275.364	268.950	1877.081	2784.402	10.314	2.750	0.248
	18:02:00	30.8	23.2	1001.7	56.0	187.097	0.948	87.696	0.946	183.994	84.122	274.795	268.026	1881.462	2771.924	12.590	2.742	0.248
	18:03:00	30.8	23.1	1001.6	56.1	187.166	0.950	87.713	0.951	183.771	83.668	274.329	267.439	1896.235	2830.872	18.832	2.746	0.246
	18:04:00	30.7	23.0	1001.5	56.0	186.763	0.950	87.326	0.950	183.969	83.825	274.089	267.495	1894.348	2810.566	10.286	2.752	0.249
	18:05:00	30.7	22.9	1001.6	56.1	188.569	0.953	88.051	0.952	185.462	84.528	276.620	269.990	1898.099	2820.954	9.578	2.739	0.248
	18:06:00	30.7	23.0	1002.0	56.2	188.507	0.953	88.058	0.953	185.514	84.581	276.565	270.095	1894.887	2817.306	9.566	2.765	0.248
	18:07:00	30.7	23.0	1002.0	56.4	188.430	0.951	87.823	0.951	185.440	84.376	276.253	269.816	1891.114	2795.773	9.837	2.748	0.248
	18:08:00	30.7	23.0	1002.0	56.2	188.407	0.952	88.113	0.952	185.357	84.340	276.520	269.897	1893.520	2813.441	9.312	2.746	0.248
	18:09:00	30.8	23.1	1002.0	56.3	187.949	0.952	87.799	0.952	184.803	84.234	275.748	269.137	1890.353	2818.888	9.448	2.740	0.248
	18:10:00	30.8	23.1	1002.0	56.3	188.323	0.952	87.834	0.953	185.106	84.334	276.157	269.441	1893.663	2815.582	9.426	2.749	0.248
	18:11:00	30.8	23.1	1002.0	56.1	187.489	0.951	87.610	0.947	184.582	84.103	275.088	268.685	1884.611	2774.334	8.776	2.741	0.248
	18:12:00	30.8	23.1	1002.0	56.2	188.516	0.952	87.836	0.952	185.281	84.260	276.352	269.542	1888.762	2789.000	11.227	2.746	0.249
	18:13:00	30.8	23.2	1002.0	56.1	187.331	0.953	87.646	0.953	184.405	84.103	274.977	268.508	1884.000	2804.475	10.741	2.750	0.248
	18:14:00	30.8	23.2	1002.0	56.5	188.222	0.953	87.696	0.955	186.032	84.155	276.888	270.207	1892.224	2785.290	9.286	2.750	0.249
	18:15:00	30.9	23.2	1002.0	56.4	188.453	0.956	87.740	0.955	186.562	84.227	276.233	269.692	1876.504	2794.207	8.945	3.810	0.249
	18:16:00	30.8	23.3	1001.9	56.2	187.219	0.954	87.432	0.956	184.342	83.785	274.654	268.127	1883.486	2830.557	8.949	3.830	0.248
	18:17:00	30.7	23.5	1001.8	56.1	187.482	0.957	87.657	0.958	184.324	84.062	275.139	268.385	1887.000	2806.823	9.646	3.834	0.247
	18:18:00	30.6	23.6	1001.7	56.2	188.590	0.959	87.938	0.962	185.449	84.362	276.528	269.811	1884.232	2815.305	13.430	3.826	0.247
	18:19:00	30.5	23.8	1001.7	56.4	188.847	0.958	87.687	0.959	185.726	84.077	276.534	269.804	1890.884	2825.303	13.343	3.836	0.248
	18:20:00	30.4	23.9	1001.6	56.6	188.972	0.958	87.496	0.960	186.018	83.847	276.468	269.865	1894.000	2831.985	15.603	3.847	0.248
	18:21:00	30.3	24.1	1001.6	56.4	188.707	0.958	87.652	0.958	185.549	84.039	276.359	269.588	1893.317	2806.372	13.298	3.866	0.247
	18:22:00	30.3	24.2	1001.5	56.3	188.465	0.960	87.551	0.958	185.495	84.057	276.016	269.552	1898.335	2796.117	13.328	3.886	0.249
	18:23:00	30.2	24.4	1001.5	56.4	188.555	0.959	87.505	0.959	185.573	83.954	276.060	269.527	1897.354	2797.236	13.264	3.890	0.249
	18:24:00	30.1	24.5	1001.4	56.4	189.971	0.959	87.909	0.959	187.166	84.372	277.880	271.538	1893.885	2782.193	12.331	3.909	0.248
	18:25:00	30.0	24.7	1001.4	56.4	188.668	0.955	87.611	0.959	185.587	84.168	276.279	269.755	1893.000	2818.203	13.033	3.913	0.246
	18:26:00	30.0	24.7	1001.4	56.5	189.542	0.954	87.680	0.953	186.187	84.078	277.222	270.265	1899.243	2788.336	13.073	2.741	0.248
	18:27:00	30.1	24.6	1001.5	56.4	189.576	0.955	87.881	0.953	186.482	84.328	277.457	270.810	1893.232	2799.884	13.347	2.732	0.248
	18:28:00	30.1	24.5	1001.5	56.3	187.928	0.953	87.536	0.954	185.737	83.933	275.464	268.676	1897.367	2811.489	10.192	2.746	0.248
	18:29:00	30.1	24.5	1001.6	56.3	188.213	0.954	87.734	0.954	185.293	84.235	275.947	269.529	1899.880	2792.640	9.603	2.739	0.249
	18:30:00	30.2	24.4	1001.7	56.4	188.231	0.955	87.680	0.953	185.405	84.168	275.891	269.573	1890.538	2786.308	8.890	2.736	0.249
	18:31:00	30.2	24.3	1001.7	56.2	189.242	0.956	87.928	0.956	186.280	84.416	277.170	270.696	1895.048	2787.857	8.733	2.716	0.248
	18:32:00	30.2	24.3	1001.8	56.4	188.615	0.956	87.629	0.953	185.444	84.134	276.244	269.579	1893.119	2785.119	8.169	2.721	0.249
18:33:00	30.3	24.2	1001.9	56.3	188.808	0.955	87.861	0.953	185.728	84.317	276.669	270.045	1891.349	2778.699	8.140	2.732	0.247	
18:34:00	30.3	24.1	1001.9	56.3	188.377	0.952	87.703	0.951	185.334	84.103	276.080	269.437	1890.000	2799.179	8.274	2.849	0.249	
18:35:00	30.3	24.1	1002.0	56.3	188.521	0.952	87.615	0.944	185.290	84.076	276.136	269.366	1886.758	2789.121	8.903	2.845	0.250	
18:36:00	30.2	24.0	1001.4	56.4	188.716	0.953	87.613	0.948	185.771	84.050	276.329	269.821	1889.493	2807.986	11.405	2.852	0.249	
18:37:00	30.1	24.1	1001.4	56.4	188.141	0.951	87.490	0.945	185.620	83.949	275.611	269.261	1894.616	2773.558	9.812	2.833	0.250	
18:38:00	30.1	24.2	1001.4	56.4	188.697	0.953	87.688	0.953	185.857	84.214	276.385	270.071	1894.884	2786.728	9.536	2.825	0.249	
18:39:00	30.0	24.2	1001.4	56.4	189.309	0.953	87.933	0.950	186.180	84.537	277.242	270.717	1897.762	2786.735	9.265	2.701	0.249	
18:40:00	29.9	24.3	1001.4	56.5	189.724	0.953	87.756	0.945	186.596	84.241	277.480	270.817	1897.761	2780.197	9.021	2.708	0.250	
18:41:00	29.9	24.4	1001.4	56.3	187.846	0.952	87.443	0.946	184.862	83.910	275.289	268.771	1895.118	2782.942	8.585	2.711	0.250	
18:42:00	29.8	24.5	1001.4	56.4	188.392	0.954	88.007	0.946	186.638	84.860	277.800	271.524	1890.626	2805.514	7.866	2.710	0.249	
18:43:00	29.7	24.6	1001.4	56.3	188.458</													

CENTRAL TERMOLÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / DIÉSEL
------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 30/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m <sup>3</sup> /h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Ampl Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
	19:15:00	28.2	26.1	1001.7	55.2	185.122	0.959	85.456	0.954	182.108	81.899	270.578	264.007	1880.116	2766.809	18.473	2.657	0.249
	19:16:00	28.1	26.2	1001.7	55.2	186.396	0.964	85.533	0.960	183.132	82.166	272.219	265.298	1889.777	2796.669	15.711	2.668	0.249
	19:17:00	28.0	26.3	1001.7	55.3	185.243	0.963	85.558	0.959	182.077	81.964	270.801	264.041	1887.000	2803.895	15.122	2.661	0.248
	19:18:00	28.0	26.3	1001.7	55.2	185.249	0.961	85.626	0.956	182.326	82.152	271.075	264.479	1881.757	2765.972	14.804	2.652	0.249
	19:19:00	27.9	26.4	1001.6	55.4	186.288	0.964	85.445	0.960	183.341	81.998	271.324	265.339	1890.119	2821.477	15.246	2.656	0.249
	19:20:00	27.9	26.4	1001.6	55.3	186.555	0.964	85.609	0.958	183.388	82.014	272.164	265.402	1892.648	2794.591	14.559	2.664	0.250
	19:21:00	27.9	26.5	1001.6	55.4	186.130	0.964	85.394	0.962	182.803	81.823	271.524	264.826	1888.128	2798.128	11.265	2.669	0.249
	19:22:00	27.8	26.5	1001.6	55.5	186.186	0.964	85.469	0.959	183.127	81.880	271.855	265.008	1888.983	2772.413	10.895	2.651	0.250
	19:23:00	27.8	26.6	1001.5	55.5	186.455	0.964	85.234	0.961	182.970	81.673	271.689	264.643	1892.000	2815.785	10.853	2.644	0.249
	19:24:00	27.7	26.6	1001.5	55.4	186.583	0.965	85.369	0.963	183.557	81.803	271.952	265.360	1889.754	2804.401	13.164	2.649	0.248
	19:25:00	27.7	26.7	1001.5	55.4	186.198	0.966	85.459	0.961	183.201	81.874	271.666	265.075	1887.379	2789.994	14.278	2.652	0.248
	19:26:00	27.7	26.8	1001.5	55.5	185.755	0.964	85.039	0.960	182.723	81.418	270.794	264.141	1897.641	2814.239	11.688	2.640	0.249
	19:27:00	27.6	26.9	1001.7	55.4	185.068	0.962	84.935	0.956	182.089	81.298	270.003	263.387	1889.000	2776.462	11.675	2.642	0.250
	19:28:00	27.6	26.9	1001.7	55.3	184.996	0.962	84.948	0.956	182.025	81.416	269.944	263.441	1878.249	2775.496	11.623	2.649	0.250
	19:29:00	27.5	27.0	1001.7	55.4	185.716	0.963	85.126	0.959	182.736	81.686	270.842	264.421	1876.749	2775.121	11.198	2.640	0.249
	19:30:00	27.5	27.0	1001.6	55.4	185.997	0.964	85.191	0.962	183.300	81.587	271.188	264.887	1887.247	2791.123	11.462	2.687	0.249
	19:31:00	27.4	27.1	1001.6	55.5	186.449	0.964	85.093	0.958	183.407	81.462	271.542	264.869	1879.879	2762.154	10.888	3.712	0.250
	19:32:00	27.4	27.1	1001.6	55.5	185.702	0.964	84.965	0.962	182.479	81.374	270.667	263.863	1897.152	2805.942	10.989	3.733	0.249
	19:33:00	27.3	27.2	1001.6	55.5	185.767	0.965	84.848	0.963	182.753	81.337	270.615	264.090	1893.626	2800.875	10.877	3.748	0.250
	19:34:00	27.3	27.2	1001.5	55.3	185.915	0.966	85.119	0.962	183.010	81.821	271.234	264.831	1897.868	2785.659	10.524	3.728	0.249
	19:35:00	27.2	27.2	1001.5	55.3	185.388	0.964	84.778	0.959	182.315	81.306	270.166	263.621	1885.000	2770.129	11.213	3.755	0.250
	19:36:00	27.2	27.3	1001.5	55.5	185.761	0.964	84.799	0.960	182.538	81.311	270.560	263.849	1879.390	2781.267	11.232	3.774	0.250
	19:37:00	27.2	27.3	1001.5	55.4	185.681	0.966	84.960	0.962	182.729	81.387	270.641	264.116	1881.754	2774.157	11.241	3.777	0.250
	19:38:00	27.1	27.3	1001.6	55.5	185.553	0.966	84.900	0.962	182.661	81.302	270.453	263.963	1894.241	2799.253	11.333	3.787	0.250
	19:39:00	27.1	27.4	1001.6	55.3	185.970	0.963	84.706	0.958	182.538	81.210	270.676	263.748	1892.124	2774.487	10.382	3.792	0.250
	19:40:00	27.1	27.4	1001.7	55.3	185.062	0.963	84.761	0.963	182.097	81.303	269.823	263.400	1882.625	2740.125	10.215	3.797	0.250
	19:41:00	27.1	27.4	1001.7	55.5	185.561	0.965	84.790	0.963	182.623	81.341	270.351	263.876	1884.615	2780.231	12.347	3.806	0.250
	19:42:00	27.0	27.5	1001.8	55.4	186.056	0.963	84.927	0.959	183.019	81.508	270.983	264.527	1885.000	2767.366	10.880	2.630	0.250
	19:43:00	27.0	27.5	1001.8	55.5	185.147	0.963	84.801	0.960	182.278	81.308	269.948	263.886	1883.877	2758.630	10.611	2.620	0.250
	19:44:00	27.0	27.5	1001.9	55.4	186.203	0.965	84.904	0.961	183.315	81.493	271.107	264.808	1886.950	2767.750	10.542	2.616	0.249
	19:45:00	27.0	27.6	1001.9	55.5	185.520	0.963	84.768	0.959	182.467	81.234	270.308	263.701	1877.962	2768.504	10.364	2.622	0.250
	19:46:00	26.9	27.6	1002.0	55.4	185.327	0.964	84.880	0.962	182.310	81.414	270.207	263.724	1875.000	2743.172	10.305	2.613	0.250
	19:47:00	26.9	27.6	1002.0	55.5	185.232	0.963	84.773	0.961	182.131	81.232	270.005	263.363	1876.646	2754.292	10.731	2.617	0.250
	19:48:00	26.9	27.6	1002.1	55.4	185.492	0.964	84.871	0.960	182.601	81.390	270.363	263.997	1871.251	2737.871	10.680	2.618	0.250
	19:49:00	26.9	27.5	1002.1	55.4	185.531	0.965	84.703	0.961	182.304	81.242	270.234	263.546	1866.126	2727.012	6.139	2.611	0.250
	19:50:00	26.9	27.5	1002.1	55.4	185.925	0.965	84.908	0.962	182.907	81.294	270.733	264.201	1864.963	2753.972	6.088	2.605	0.249
	19:51:00	26.8	27.5	1002.1	55.4	186.611	0.968	84.922	0.962	183.454	81.375	271.533	264.629	1873.000	2781.038	6.234	2.594	0.249
	19:52:00	26.8	27.5	1002.1	55.5	186.890	0.968	85.022	0.966	183.917	81.557	271.912	265.475	1862.746	2747.364	5.646	2.602	0.249
	19:53:00	26.8	27.4	1002.1	55.3	186.014	0.969	85.056	0.966	183.514	81.514	271.070	264.358	1874.315	2755.315	5.694	2.608	0.249
	19:54:00	26.8	27.4	1002.1	55.4	185.963	0.968	84.831	0.966	183.108	81.420	270.794	264.528	1868.760	2755.360	5.161	2.589	0.250
	19:55:00	26.8	27.4	1002.1	55.4	185.723	0.969	84.591	0.966	182.838	81.065	270.394	263.903	1884.644	2770.644	5.223	2.607	0.250
	19:56:00	26.7	27.4	1002.2	55.5	185.525	0.962	84.800	0.959	183.376	81.285	271.325	264.661	1886.242	2771.495	4.821	2.592	0.249
	19:57:00	26.7	27.4	1002.1	55.4	186.046	0.959	85.072	0.954	183.087	81.504	271.118	264.592	1875.123	2730.138	5.578	2.591	0.250
	19:58:00	26.6	27.4	1002.1	55.4	185.817	0.962	84.781	0.958	182.858	81.282	270.598	264.140	1872.380	2732.000	5.850	2.590	0.250
	19:59:00	26.6	27.4	1002.1	55.4	185.365	0.960	84.542	0.953	182.536	81.040	269.907	263.576	1874.000	2747.156	6.568	2.578	0.250
	20:00:00	26.5	27.4	1002.0	55.4	186.001	0.958	84.727	0.955	182.952	81.248	270.728	264.200	1877.243	2746.850	6.599	2.586	0.250
	20:01:00	26.5	27.5	1002.0	55.5	185.284	0.959	84.483	0.952	182.510	81.055	269.767	263.965	1880.249	2769.871	6.571	2.588	0.249
	20:02:00	26.4	27.5	1002.0	55.5	186.395	0.959	84.783	0.954	183.304	81.203	271.178	264.506	1870.239	2768.718	6.505	2.585	0.249
	20:03:00	26.4	27.5	1002.0	55.6	186.701	0.960	84.700	0.952	183.585	81.205	271.401	264.791	1874.636	2784.787	6.741	2.598	0.249
	20:04:00	26.3	27.5	1001.9	55.4	186.019	0.961	84.791	0.954	183.062	81.208	270.810	264.269	1871.608	2765.972	5.951	2.592	0.249
	20:05:00	26.3	27.6	1001.9	55.5	185.930	0.962	84.637	0.954	183.003	81.123	270.567	264.126	1871.249	2767.623	7.026	2.583	0.250
	20:06:00	26.2	27.6	1001.9	55.4	185.994	0.962	84.750	0.958	183.294	81.213	270.734	264.477	1879.009	2796.876	5.266	2.571	0.249
	20:07:00	26.1	27.6	1001.7	55.3	185.613	0.959	84.748	0.953	182.748	81.251	270.974	263.739	1865.093	2778.554	5.555	2.579	0.250
	20:08:00	26.1	27.7	1001.7	55.4	185.673	0.961	84.514	0.957	182.622	81.029	270.187	263.651	1875.500	2792.875	5.526	2.583	0.250
	20:09:00	26.1	27.8	1001.8	55.4	186.492	0.961	84.716	0.953	183.421	81.150	271.208	264.572	1872.630	2781.000	5.496	2.566	0.249
	20:10:00	26.0	27.8	1001.8	55.5	186.061	0.960	84.566	0.956	183.044	81.080	270.627	264.124	1875.000	2795.509	5.442	2.572	0.250
	20:11:00	26.0	27.9	1001.8	55.3	184.882	0.960	84.394	0.953	181.970	80.866	269.276	262.826	1878.737	2789.228	5.881	2.570	0.249
	20:12:00	26.0	28.0	1001.9														

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / DIÉSEL
-------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 30/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Ampl Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
301 MW (310 MW)	21:00:00	22.0	34.5	1001.8	58.6	199.119	0.954	88.951	0.946	195.996	85.286	288.070	281.283	1901.000	2818.339	4.038	3.615	0.252
	21:01:00	22.0	34.5	1001.9	58.6	199.862	0.955	89.108	0.944	196.636	85.499	288.970	282.155	1904.390	2813.740	3.894	3.630	0.252
	21:02:00	22.0	34.6	1001.9	58.7	200.319	0.955	89.158	0.944	197.087	85.490	289.477	282.577	1904.000	2807.225	4.549	3.683	0.251
	21:03:00	22.0	34.6	1002.0	58.7	199.598	0.955	88.827	0.945	196.435	85.235	288.425	281.669	1902.870	2816.260	4.554	2.433	0.252
	21:04:00	22.0	34.7	1002.0	58.6	199.642	0.955	88.964	0.944	196.475	85.351	288.606	281.826	1910.345	2812.131	4.053	2.439	0.252
	21:05:00	21.9	34.7	1002.1	58.6	198.969	0.954	88.867	0.944	195.721	85.178	287.836	280.898	1909.000	2820.768	4.124	2.451	0.252
	21:06:00	21.9	34.8	1002.1	58.6	199.510	0.955	88.998	0.946	196.305	85.367	288.508	281.672	1906.656	2828.573	4.027	2.410	0.252
	21:07:00	21.9	34.8	1002.1	58.6	199.662	0.955	89.046	0.946	196.308	85.407	288.708	281.915	1903.606	2826.989	4.243	2.467	0.252
	21:08:00	21.9	34.9	1002.3	58.7	200.279	0.956	89.167	0.948	197.146	85.628	289.446	282.774	1905.473	2830.550	4.951	2.434	0.251
	21:09:00	21.9	34.9	1002.3	58.7	200.411	0.956	89.108	0.947	197.279	85.408	289.519	282.687	1905.851	2820.490	4.445	2.426	0.252
	21:10:00	21.9	35.0	1002.3	58.7	199.244	0.955	89.043	0.945	196.068	85.374	288.287	281.442	1902.000	2816.019	4.841	2.450	0.252
	21:11:00	21.9	35.0	1002.3	58.7	199.473	0.954	88.947	0.945	196.260	85.337	288.420	281.597	1901.263	2814.181	4.568	2.419	0.253
	21:12:00	21.9	35.1	1002.3	58.5	199.418	0.956	88.993	0.949	196.319	85.435	288.411	281.754	1899.737	2824.737	4.547	2.465	0.252
	21:13:00	21.9	35.1	1002.3	58.6	200.044	0.955	89.172	0.948	196.676	85.425	289.216	282.101	1906.450	2832.626	4.089	2.447	0.252
	21:14:00	21.9	35.1	1002.3	58.7	199.746	0.956	88.156	0.946	196.665	85.471	288.902	282.125	1902.250	2823.125	3.809	2.421	0.252
	21:15:00	21.9	35.2	1002.3	58.7	199.766	0.955	89.089	0.946	196.508	85.311	288.855	281.819	1903.120	2819.842	3.893	2.456	0.252
	21:16:00	21.9	35.2	1002.3	58.7	199.715	0.957	89.012	0.948	196.633	85.490	288.727	282.123	1904.254	2820.493	4.114	2.412	0.252
	21:17:00	21.9	35.3	1002.3	58.6	200.243	0.956	89.114	0.945	197.105	85.370	289.357	282.475	1896.371	2798.623	4.098	2.443	0.253
	21:18:00	21.8	35.3	1002.3	58.7	199.940	0.956	88.750	0.945	195.924	85.178	287.790	281.102	1897.128	2811.583	3.970	2.451	0.252
	21:19:00	21.8	35.3	1002.2	58.6	199.657	0.956	89.045	0.948	196.396	85.365	288.702	281.761	1905.871	2831.871	4.884	2.411	0.252
	21:20:00	21.8	35.3	1002.2	58.6	199.350	0.957	89.051	0.949	196.185	85.420	288.401	281.605	1909.843	2835.527	4.730	2.467	0.252
	21:21:00	21.8	35.4	1002.1	58.4	199.681	0.956	89.120	0.948	196.409	85.532	288.801	281.941	1905.052	2814.209	5.120	2.441	0.252
	21:22:00	21.8	35.4	1002.1	58.8	199.546	0.957	89.086	0.947	196.317	85.394	288.637	281.711	1902.873	2804.889	5.118	2.425	0.252
	21:23:00	21.7	35.4	1002.1	58.8	199.501	0.951	88.904	0.947	196.451	85.302	288.405	281.754	1903.000	2811.532	5.377	2.447	0.252
	21:24:00	21.7	35.4	1002.0	58.7	199.085	0.949	88.902	0.941	195.999	85.311	287.987	281.510	1904.401	2804.267	4.460	2.411	0.252
	21:25:00	21.7	35.4	1002.0	58.8	199.965	0.945	88.890	0.949	196.804	85.323	288.955	282.127	1903.521	2809.590	3.770	2.439	0.252
	21:26:00	21.7	35.5	1001.9	58.9	200.237	0.945	89.031	0.947	196.957	85.370	289.688	282.327	1906.536	2832.670	3.473	2.438	0.253
	21:27:00	21.7	35.5	1001.9	58.8	199.880	0.946	89.048	0.940	196.874	85.359	288.928	282.233	1903.133	2798.919	3.331	2.416	0.253
	21:28:00	21.7	35.6	1002.3	58.7	199.774	0.947	89.003	0.942	196.716	85.340	288.777	282.056	1903.055	2825.978	3.504	2.445	0.252
	21:29:00	21.7	35.6	1002.3	58.7	200.042	0.947	89.044	0.942	196.989	85.427	289.086	282.417	1904.867	2817.666	4.199	2.403	0.252
	21:30:00	21.7	35.7	1002.2	58.7	200.206	0.946	89.978	0.940	196.994	85.350	289.184	282.344	1906.260	2814.558	3.751	2.429	0.253
	21:31:00	21.7	35.7	1002.2	58.8	200.427	0.948	89.338	0.943	197.317	85.638	289.785	282.955	1905.732	2840.558	4.841	2.438	0.252
	21:32:00	21.7	35.8	1002.2	58.8	199.797	0.946	89.087	0.942	196.600	85.464	288.884	282.604	1911.023	2836.930	4.026	2.399	0.252
	21:33:00	21.7	35.8	1002.2	58.8	199.992	0.948	89.123	0.942	196.823	85.572	289.175	282.395	1904.000	2824.375	4.033	2.446	0.252
	21:34:00	21.6	35.8	1002.1	58.7	199.643	0.947	88.972	0.942	196.530	85.352	288.615	281.902	1897.532	2833.426	4.424	2.407	0.252
	21:35:00	21.6	35.9	1002.1	58.8	200.365	0.949	89.135	0.942	197.209	85.466	289.500	282.675	1897.000	2812.409	4.258	2.429	0.253
	21:36:00	21.6	35.9	1002.1	58.9	200.564	0.948	89.365	0.944	197.362	85.647	289.929	283.009	1895.132	2839.195	4.205	2.449	0.252
	21:37:00	21.6	36.0	1002.0	58.7	199.893	0.948	89.248	0.945	196.819	85.534	289.141	282.353	1895.418	2839.721	4.715	2.394	0.252
	21:38:00	21.6	36.1	1001.6	58.8	200.469	0.948	89.253	0.944	197.339	85.675	289.722	283.014	1904.606	2841.818	4.479	2.457	0.252
	21:39:00	21.5	36.4	1001.7	58.8	200.875	0.949	89.433	0.941	197.667	85.997	290.308	283.264	1908.591	2840.817	4.709	2.409	0.252
	21:40:00	21.4	36.7	1001.8	58.9	199.678	0.949	88.984	0.943	196.580	85.373	288.662	281.953	1911.000	2849.000	4.752	2.411	0.253
	21:41:00	21.4	37.0	1001.8	58.9	201.589	0.951	89.459	0.945	198.185	85.751	291.057	283.936	1908.616	2847.905	4.192	2.442	0.252
	21:42:00	21.3	37.2	1001.9	58.9	200.858	0.949	89.189	0.943	197.842	85.425	290.047	283.267	1911.788	2850.657	3.559	2.395	0.252
	21:43:00	21.3	37.5	1002.0	58.9	200.545	0.949	89.091	0.943	197.438	85.473	289.636	282.911	1908.416	2834.812	3.544	2.409	0.252
	21:44:00	21.2	37.8	1002.0	58.9	200.558	0.949	89.184	0.949	197.341	85.457	289.742	282.798	1911.526	2839.711	3.523	2.419	0.252
	21:45:00	21.2	38.1	1002.1	59.2	201.191	0.949	89.005	0.947	198.042	85.371	290.196	283.413	1913.892	2835.728	3.353	2.389	0.252
	21:46:00	21.1	38.4	1002.2	59.0	201.125	0.949	89.368	0.947	197.898	85.645	290.893	283.543	1909.000	2838.033	3.819	2.433	0.252
	21:47:00	21.0	38.6	1002.2	58.9	200.392	0.948	89.166	0.945	197.219	85.460	289.558	282.679	1914.272	2840.000	3.838	2.401	0.253
21:48:00	20.9	38.7	1001.6	58.6	199.632	0.946	88.912	0.945	196.455	85.546	288.844	282.021	1915.464	2835.939	3.799	2.382	0.253	
21:49:00	20.8	38.9	1001.6	58.7	199.976	0.949	89.172	0.946	196.708	85.535	289.148	282.243	1918.133	2827.531	3.549	2.438	0.253	
21:50:00	20.7	39.1	1001.7	58.8	199.943	0.949	89.050	0.946	196.800	85.468	288.993	282.268	1911.114	2826.706	3.306	2.396	0.252	
21:51:00	20.7	39.2	1001.7	59.0	200.551	0.949	89.172	0.946	197.367	85.594	289.723	282.961	1904.444	2835.305	3.532	2.403	0.253	
21:52:00	20.6	39.4	1001.7	59.2	201.351	0.950	89.147	0.945	198.196	85.658	290.498	283.681	1907.678	2835.949	4.346	2.415	0.253	
21:53:00	20.5	39.6	1001.7	59.1	201.949	0.951	89.282	0.946	198.790	85.689	291.231	284.454	1899.173	2810.414	3.411	2.361	0.252	
21:54:00	20.4	39.8	1001.7	59.3	202.018	0.951	89.296	0.945	198.830	85.574	291.314	284.403	1896.865	2819.865	4.391	2.417	0.253	
21:55:00	20.3	39.9	1001.7	59.0	201.147	0.948	89.188	0.943	197.935	85.511	290.335	283.446	1894.865	2809.269	4.356	2.398	0.253	
21:56:00	20.3	40.1	1001.8	58.9	200.512	0.949	89.179	0.947	197.472	85.597	289.691	283.069	1897.273	2825.819	4.090	2.353	0.253	
21:57:00	20.2	40.3	1001.8	58.7	200.387	0.949	89.374	0.948	197.440	85.594	289.361	282.637	1899.000	2827.495	3.827	2.419	0.253	
21:58:00	20.2	40.5	1002.0	59.0	201.017	0.950	89.227	0.943</										



CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / DIÉSEL
-------------------------------------	--	--

REGISTRO DE VARIABLES PRIMARIAS

Día: 30/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampli Edif Admin (kW)
305 MW	19:15:00	1.2	-	0.0	0.3	0.4	0.4	-0.6	0.4	0.4	-0.6	0.1	0.1	-	-	-	-	-
	19:16:00	1.1	-	0.0	-0.2	-0.3	-0.1	-1.1	-0.1	-0.2	-0.9	-0.5	-0.4	-	-	-	-	-
	19:17:00	1.0	-	0.0	0.2	0.3	0.0	-0.7	0.0	0.4	-0.7	0.0	0.1	-	-	-	-	-
	19:18:00	1.0	-	0.0	0.5	0.3	0.2	-1.0	0.2	0.3	-0.9	-0.1	-0.1	-	-	-	-	-
	19:19:00	1.0	-	0.0	0.0	-0.2	-0.1	-0.6	-0.1	-0.3	-0.7	-0.3	-0.4	-	-	-	-	-
	19:20:00	0.9	-	0.0	0.1	-0.4	-0.1	-0.8	-0.1	-0.3	-0.8	-0.5	-0.4	-	-	-	-	-
	19:21:00	0.9	-	0.0	0.0	-0.1	-0.1	-0.5	-0.1	-0.0	-0.5	-0.3	-0.1	-	-	-	-	-
	19:22:00	0.8	-	0.0	-0.1	-0.2	0.0	-0.5	0.0	-0.2	-0.6	-0.3	-0.3	-	-	-	-	-
	19:23:00	0.8	-	0.0	-0.2	-0.3	-0.1	-0.4	-0.1	-0.1	-0.3	-0.1	-0.1	-	-	-	-	-
	19:24:00	0.8	-	0.0	0.0	-0.4	-0.2	-0.5	-0.2	-0.4	-0.5	-0.4	-0.4	-	-	-	-	-
	19:25:00	0.7	-	0.0	0.0	-0.2	-0.3	-0.6	-0.3	-0.2	-0.6	-0.3	-0.3	-	-	-	-	-
	19:26:00	0.7	-	0.0	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	-	-	-	-	-
	19:27:00	0.6	-	0.0	0.1	0.4	0.1	0.0	0.1	0.4	0.1	0.3	0.3	-	-	-	-	-
	19:28:00	0.6	-	0.0	0.1	0.5	0.1	0.0	0.1	0.4	0.0	0.3	0.3	-	-	-	-	-
	19:29:00	0.5	-	0.0	0.0	0.1	0.0	-0.2	0.0	0.1	-0.3	0.0	-0.1	-	-	-	-	-
	19:30:00	0.5	-	0.0	0.0	-0.1	-0.1	-0.3	-0.1	-0.2	-0.2	-0.1	-0.2	-	-	-	-	-
	19:31:00	0.4	-	0.0	-0.1	-0.3	-0.1	-0.2	-0.1	-0.3	-0.1	-0.3	-0.2	-	-	-	-	-
	19:32:00	0.4	-	0.0	-0.1	0.1	-0.1	-0.1	0.0	-0.1	0.2	0.0	0.1	-	-	-	-	-
	19:33:00	0.3	-	0.0	-0.2	0.4	0.0	-0.2	0.1	-0.2	0.1	0.1	0.1	-	-	-	-	-
	19:34:00	0.3	-	0.0	0.2	0.0	-0.3	-0.5	-0.3	-0.1	-0.5	-0.2	-0.2	-	-	-	-	-
	19:35:00	0.2	-	0.0	0.3	0.3	-0.1	0.2	-0.1	0.3	0.1	0.2	0.2	-	-	-	-	-
	19:36:00	0.2	-	0.0	-0.2	0.1	-0.1	0.2	-0.1	0.2	0.1	0.1	0.1	-	-	-	-	-
	19:37:00	0.2	-	0.0	0.0	0.1	-0.3	0.0	-0.3	0.1	0.0	0.1	0.0	-	-	-	-	-
	19:38:00	0.1	-	0.0	-0.2	0.2	-0.3	0.0	-0.3	0.1	0.1	0.1	0.1	-	-	-	-	-
	19:39:00	0.1	-	0.0	0.2	-0.1	0.1	0.3	-0.1	0.2	0.2	0.0	0.2	-	-	-	-	-
	19:40:00	0.1	-	0.0	0.2	0.4	0.0	0.2	0.0	0.4	0.1	0.4	0.3	-	-	-	-	-
	19:41:00	0.1	-	0.0	-0.1	0.2	-0.2	0.2	-0.2	0.1	0.1	0.2	0.1	-	-	-	-	-
	19:42:00	0.1	-	0.0	0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-	-	-	-	-
	19:43:00	0.0	-	0.0	-0.1	0.4	0.0	0.2	0.0	0.3	0.1	0.3	0.3	-	-	-	-	-
	19:44:00	0.0	-	0.0	0.0	-0.2	-0.2	0.0	-0.2	-0.3	-0.1	-0.1	-0.2	-	-	-	-	-
	19:45:00	0.0	-	0.0	-0.1	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	-	-	-	-	-
	19:46:00	0.0	-	0.0	-0.1	0.3	-0.1	0.1	-0.1	0.3	0.0	0.2	0.2	-	-	-	-	-
	19:47:00	0.0	-	0.0	-0.1	0.3	0.0	0.2	0.0	0.4	0.2	0.3	0.3	-	-	-	-	-
	19:48:00	-0.1	-	0.0	0.0	0.2	-0.1	0.1	-0.1	0.1	0.0	0.2	0.1	-	-	-	-	-
	19:49:00	-0.1	-	0.0	0.1	0.2	-0.2	0.3	-0.2	0.3	0.2	0.2	0.3	-	-	-	-	-
	19:50:00	-0.1	-	0.0	0.0	0.0	-0.2	0.0	-0.2	0.0	0.1	0.0	0.0	-	-	-	-	-
	19:51:00	-0.1	-	0.0	-0.1	-0.4	-0.5	0.0	-0.5	-0.3	0.0	-0.3	-0.2	-	-	-	-	-
	19:52:00	-0.2	-	0.0	-0.1	-0.5	-0.6	-0.1	-0.6	-0.6	-0.2	-0.4	-0.5	-	-	-	-	-
	19:53:00	-0.2	-	0.0	0.1	-0.1	-0.6	-0.1	-0.6	0.0	-0.1	-0.1	0.0	-	-	-	-	-
	19:54:00	-0.2	-	0.0	0.0	0.0	-0.5	0.1	-0.5	-0.1	0.0	0.0	-0.1	-	-	-	-	-
	19:55:00	-0.2	-	0.0	0.0	0.1	-0.6	0.4	-0.6	0.0	0.4	0.2	0.1	-	-	-	-	-
	19:56:00	-0.3	-	0.0	-0.1	-0.4	0.1	0.2	0.1	-0.3	0.1	-0.2	-0.2	-	-	-	-	-
	19:57:00	-0.3	-	0.0	0.1	-0.1	0.4	-0.2	0.4	-0.1	-0.1	-0.1	-0.1	-	-	-	-	-
	19:58:00	-0.3	-	0.0	0.0	0.0	0.4	0.2	0.4	0.0	0.1	0.1	0.0	-	-	-	-	-
	19:59:00	-0.4	-	0.0	0.0	0.3	0.3	0.5	0.3	0.2	0.4	0.3	0.3	-	-	-	-	-
	20:00:00	-0.5	-	0.0	0.1	-0.1	0.6	0.2	0.6	0.2	-0.1	0.2	0.0	-	-	-	-	-
	20:01:00	-0.5	-	0.0	-0.2	0.3	0.4	0.5	0.4	0.2	0.4	0.5	0.4	-	-	-	-	-
	20:02:00	-0.6	-	0.0	-0.1	-0.3	0.4	0.2	0.4	-0.3	0.2	-0.1	-0.1	-	-	-	-	-
20:03:00	-0.6	-	0.0	-0.3	-0.4	0.3	0.3	-0.4	0.2	-0.2	-0.2	-0.2	-	-	-	-	-	
20:04:00	-0.7	-	0.0	0.0	-0.1	0.2	0.2	0.2	-0.1	0.2	0.0	0.0	-	-	-	-	-	
20:05:00	-0.7	-	0.0	-0.2	0.0	0.2	0.3	0.2	-0.1	0.3	0.1	0.0	-	-	-	-	-	
20:06:00	-0.8	-	0.0	0.0	-0.1	0.1	0.2	0.1	-0.2	0.2	0.0	-0.1	-	-	-	-	-	
20:07:00	-0.8	-	0.0	0.2	0.1	0.4	0.2	0.4	0.2	0.2	0.2	0.2	-	-	-	-	-	
20:08:00	-0.9	-	0.0	0.0	0.1	0.2	0.5	0.2	0.1	0.5	0.2	0.2	-	-	-	-	-	
20:09:00	-0.9	-	0.0	0.0	-0.3	0.2	0.3	0.2	-0.3	0.3	-0.1	-0.1	-	-	-	-	-	
20:10:00	-1.0	-	0.0	-0.1	-0.1	0.3	0.4	0.3	-0.1	0.4	0.1	0.0	-	-	-	-	-	
20:11:00	-1.0	-	0.0	0.2	0.5	0.3	0.6	0.3	0.5	0.7	0.6	0.5	-	-	-	-	-	
20:12:00	-1.0	-	0.0	-0.2	-0.5	0.2	0.5	0.2	-0.4	0.5	-0.2	-0.1	-	-	-	-	-	
20:13:00	-1.0	-	0.0	-0.2	-0.5	0.2	0.2	-0.2	-0.4	0.1	-0.3	-0.3	-	-	-	-	-	
20:14:00	-1.1	-	0.0	0.0	-0.2	0.2	0.4	0.2	-0.2	0.4	0.0	0.0	-	-	-	-	-	
20:15:00	-1.1	-	0.0	-0.2	0.2	0.2	0.7	0.2	0.2	0.8	0.4	0.4	-	-	-	-	-	

  
 Firma del Representante de  
 CA ENEL GENERACION S.A. RIQUELME MOYA  
 el 31/12/2020 a las 01:10:03 CLT

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 238415  
 Firma del Representante de la Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / DIÉSEL
-------------------------------------	--	--

**REGISTRO DE VARIABLES PRIMARIAS**

Dia: 30/12/2020																			
Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Diésel (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampli Edif Admin (kW)	
301 MW (310 MW)	21:00:00	0.6	-	0.0	0.4	0.5	-0.3	0.2	-0.3	0.5	0.2	0.4	0.4	-	-	-	-	-	
	21:01:00	0.5	-	0.0	0.3	0.2	-0.4	0.0	-0.4	0.2	0.0	0.1	0.1	-	-	-	-	-	
	21:02:00	0.5	-	0.0	0.2	-0.1	-0.4	0.0	-0.4	0.0	0.0	0.0	0.0	-	-	-	-	-	
	21:03:00	0.5	-	0.0	0.1	0.3	-0.4	0.3	-0.4	0.3	0.3	0.3	0.3	-	-	-	-	-	
	21:04:00	0.5	-	0.0	0.3	0.3	-0.4	0.2	-0.4	0.3	0.1	0.2	0.2	-	-	-	-	-	
	21:05:00	0.5	-	0.0	0.3	0.6	-0.3	0.3	-0.3	0.7	0.3	0.5	0.6	-	-	-	-	-	
	21:06:00	0.5	-	0.0	0.4	0.3	-0.4	0.1	-0.4	0.4	0.1	0.3	0.3	-	-	-	-	-	
	21:07:00	0.5	-	0.0	0.3	0.3	0.3	-0.5	0.0	-0.5	0.3	0.1	0.2	-	-	-	-	-	
	21:08:00	0.5	-	0.0	0.2	0.0	-0.5	0.0	-0.5	-0.1	-0.2	0.0	0.0	-	-	-	-	-	
	21:09:00	0.5	-	0.0	0.1	-0.1	-0.5	0.0	-0.5	-0.1	-0.1	-0.1	-0.1	-	-	-	-	-	
	21:10:00	0.5	-	0.0	0.2	0.5	-0.4	0.1	-0.4	0.5	0.1	0.4	0.4	-	-	-	-	-	
	21:11:00	0.5	-	0.0	0.2	0.4	-0.4	0.2	-0.4	0.4	0.2	0.3	0.3	-	-	-	-	-	
	21:12:00	0.5	-	0.0	0.5	0.4	-0.5	0.1	-0.5	0.4	0.0	0.3	0.3	-	-	-	-	-	
	21:13:00	0.5	-	0.0	0.3	0.1	-0.4	-0.1	-0.4	0.2	0.1	0.0	0.1	-	-	-	-	-	
	21:14:00	0.4	-	0.0	0.2	0.2	-0.5	0.0	-0.5	0.2	0.0	0.1	0.1	-	-	-	-	-	
	21:15:00	0.4	-	0.0	0.2	0.2	-0.4	0.0	-0.4	0.3	0.2	0.2	0.2	-	-	-	-	-	
	21:16:00	0.4	-	0.0	0.1	0.2	-0.6	0.1	-0.6	0.2	0.0	0.2	0.1	-	-	-	-	-	
	21:17:00	0.4	-	0.0	0.2	0.0	-0.5	0.0	-0.5	0.0	0.1	0.0	0.0	-	-	-	-	-	
	21:18:00	0.4	-	0.0	0.2	0.6	-0.5	0.4	-0.5	0.6	0.3	0.5	0.5	-	-	-	-	-	
	21:19:00	0.4	-	0.0	0.3	0.3	-0.5	0.1	-0.5	0.3	0.1	0.2	0.3	-	-	-	-	-	
	21:20:00	0.4	-	0.0	0.3	0.4	-0.6	0.1	-0.6	0.4	0.1	0.3	0.3	-	-	-	-	-	
	21:21:00	0.3	-	0.0	0.2	0.3	-0.6	0.0	-0.6	0.3	0.0	0.2	0.2	-	-	-	-	-	
	21:22:00	0.3	-	0.0	0.0	0.3	-0.6	0.0	-0.6	0.4	0.1	0.2	0.3	-	-	-	-	-	
	21:23:00	0.3	-	0.0	0.0	0.4	0.0	0.2	0.0	0.3	0.2	0.3	0.3	-	-	-	-	-	
	21:24:00	0.3	-	0.0	0.1	0.6	0.7	0.3	0.7	0.5	0.2	0.5	0.4	-	-	-	-	-	
	21:25:00	0.3	-	0.0	0.0	0.1	0.6	0.2	0.6	0.1	0.2	0.1	0.1	-	-	-	-	-	
	21:26:00	0.2	-	0.0	-0.1	0.0	0.6	0.1	0.6	0.0	0.1	0.0	0.1	-	-	-	-	-	
	21:27:00	0.2	-	0.0	0.1	0.2	0.5	0.1	0.5	0.1	0.1	0.1	0.1	-	-	-	-	-	
	21:28:00	0.3	-	0.0	0.1	0.2	0.5	0.1	0.5	0.2	0.2	0.2	0.2	-	-	-	-	-	
	21:29:00	0.3	-	0.0	0.1	0.1	0.5	0.1	0.5	0.0	0.0	0.1	0.0	-	-	-	-	-	
	21:30:00	0.3	-	0.0	0.1	0.0	0.5	0.3	0.2	0.5	0.2	0.1	0.1	-	-	-	-	-	
	21:31:00	0.2	-	0.0	0.0	-0.1	0.3	-0.2	0.3	-0.1	-0.2	-0.2	-0.2	-	-	-	-	-	
	21:32:00	0.2	-	0.0	0.0	0.2	0.5	0.0	0.5	0.2	0.0	0.2	0.2	-	-	-	-	-	
	21:33:00	0.2	-	0.0	0.0	0.1	0.3	-0.1	0.3	0.1	-0.1	0.1	0.0	-	-	-	-	-	
	21:34:00	0.2	-	0.0	0.1	0.3	0.4	0.2	0.4	0.2	0.1	0.2	0.2	-	-	-	-	-	
	21:35:00	0.2	-	0.0	0.0	-0.1	0.2	0.0	0.2	-0.1	0.0	-0.1	-0.1	-	-	-	-	-	
	21:36:00	0.2	-	0.0	0.1	-0.2	0.3	-0.3	0.3	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-	
	21:37:00	0.2	-	0.0	0.1	0.2	0.3	-0.1	0.3	0.1	-0.1	0.1	0.1	-	-	-	-	-	
	21:38:00	0.1	-	0.0	0.0	-0.1	0.3	-0.1	0.3	-0.2	-0.2	-0.1	-0.2	-	-	-	-	-	
	21:39:00	0.1	-	0.0	0.0	-0.3	0.2	-0.3	0.2	-0.3	-0.1	-0.3	-0.3	-	-	-	-	-	
	21:40:00	0.0	-	0.0	-0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	-	-	-	-	-	
	21:41:00	-0.1	-	0.0	-0.1	-0.7	0.1	-0.4	0.1	-0.6	-0.3	-0.6	-0.6	-	-	-	-	-	
	21:42:00	-0.1	-	0.0	-0.3	-0.3	0.2	-0.1	0.2	-0.4	0.1	-0.2	-0.3	-	-	-	-	-	
	21:43:00	-0.2	-	0.0	-0.3	-0.2	0.2	0.0	0.2	-0.2	0.0	-0.1	-0.1	-	-	-	-	-	
	21:44:00	-0.2	-	0.0	-0.2	-0.2	0.2	-0.1	0.2	-0.2	0.0	-0.1	-0.1	-	-	-	-	-	
	21:45:00	-0.3	-	0.0	-0.7	-0.5	0.2	0.1	0.2	-0.5	0.1	-0.3	-0.3	-	-	-	-	-	
	21:46:00	-0.3	-	0.0	-0.4	-0.5	0.2	-0.3	0.2	-0.4	-0.2	-0.4	-0.4	-	-	-	-	-	
	21:47:00	-0.4	-	0.0	-0.1	-0.1	0.2	0.0	0.2	-0.1	0.0	-0.1	-0.1	-	-	-	-	-	
21:48:00	-0.5	-	0.0	0.2	0.3	0.3	-0.1	0.3	0.3	-0.1	0.2	0.2	-	-	-	-	-		
21:49:00	-0.6	-	0.0	0.2	0.1	0.2	-0.1	0.2	0.2	-0.1	0.1	0.1	-	-	-	-	-		
21:50:00	-0.7	-	0.0	-0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.1	-	-	-	-	-		
21:51:00	-0.8	-	0.0	-0.3	-0.2	0.3	-0.1	0.3	-0.2	-0.1	-0.1	-0.2	-	-	-	-	-		
21:52:00	-0.9	-	0.0	-0.6	-0.6	0.1	-0.0	0.1	-0.6	0.0	-0.4	-0.4	-	-	-	-	-		
21:53:00	-0.9	-	0.0	-0.9	-0.9	0.1	-0.2	0.1	-0.9	-0.2	-0.7	-0.7	-	-	-	-	-		
21:54:00	-1.0	-	0.0	-0.9	-0.9	0.1	-0.2	0.1	-0.9	-0.1	-0.7	-0.7	-	-	-	-	-		
21:55:00	-1.1	-	0.0	-0.4	-0.5	0.4	-0.1	0.4	-0.5	0.0	-0.3	-0.3	-	-	-	-	-		
21:56:00	-1.2	-	0.0	-0.1	-0.2	0.2	-0.1	0.2	-0.2	-0.1	-0.1	-0.2	-	-	-	-	-		
21:57:00	-1.2	-	0.0	0.1	-0.2	-0.2	-0.5	-0.2	-0.2	-0.4	-0.3	-0.3	-	-	-	-	-		
21:58:00	-1.2	-	0.0	-0.3	-0.4	-0.1	-0.4	-0.1	-0.4	-0.1	-0.3	-0.3	-	-	-	-	-		
21:59:00	-1.3	-	0.0	-0.6	-1.1	0.1	-0.4	0.1	-1.1	-0.4	-0.9	-0.9	-	-	-	-	-		
22:00:00	-1.4	-	0.0	-0.7	-1.1	0.1	-0.5	0.1	-1.1	-0.5	-0.9	-0.9	-	-	-	-	-		

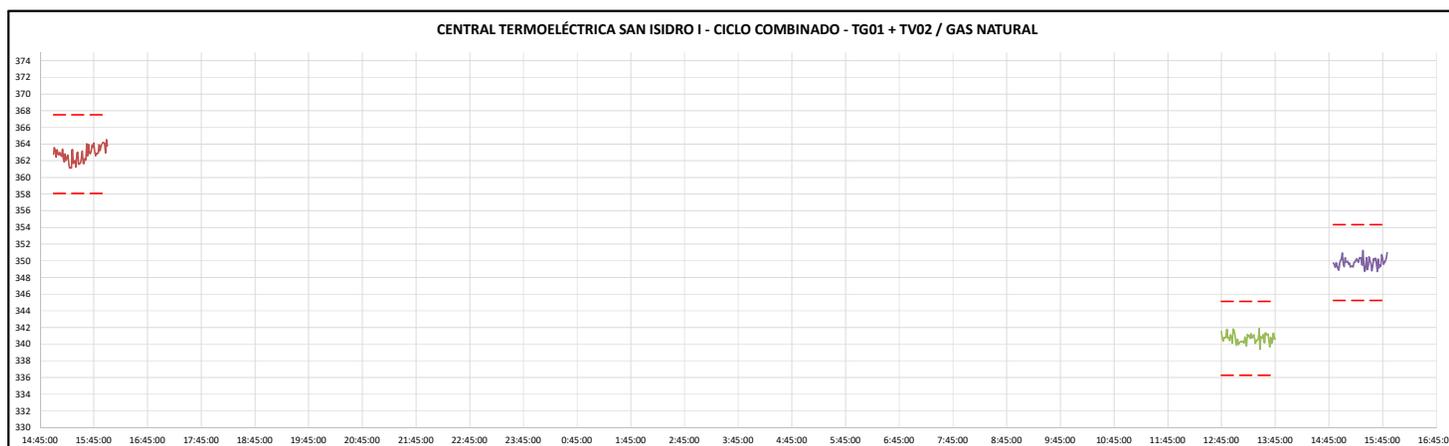
 Firmado por <b>CHANEL-GENERACION S.A. RIQUELME MOYA</b> el 31/12/2020 a las 01:10:03 CLT	 <b>MARCO BASILIO</b> <b>QUISPE CARDENAS</b> Ingeniero Mecánico Electricista CIP N° 238415	Firma del Representante de la Consultora <b>HAMEK INGENIEROS ASOCIADOS S.A.C.</b>	Firma del Representante del <b>COORDINADOR ELECTRICO NACIONAL</b>
--	--	--	--

RESUMEN DE REGISTROS

CENTRAL TÉRMICA	CENTRAL TERMOELÉCTRICA SAN ISIDRO I
UNIDAD	CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
EMPRESA	ENEL GENERACION S.A.
FECHA DE PRUEBA	28/12/2020 - 29/12/2020

1.- Diagrama de carga

Potencia Nominal MW	Hora de Inicio	Hora de Finalización
380 MW	15:00	16:00
340 MW	12:45	13:45
355 MW	14:50	15:50



2.- Promedio de Registros

Potencia Nominal	Temperatura	Humedad Relativa	Presión	Flujo de Gas Natural	Potencia TG Bruta	FDP TG Bruta	Potencia TV Bruta	FDP TV Bruta	Potencia TG Neta	Potencia TV Neta	Potencia CC Bruta	Potencia CC Neta	Potencia SSAA TG	Potencia SSAA TV	Potencia SSAA 11BJA01 TFA Edif Admin	Potencia SSAA 11BJC01 HVAC Edif Admin	Potencia SSAA 11BJC01 TFA Ampl Edif Admin
MW	°C	%	mbar	m <sup>3</sup> /h	MW		MW		MW	MW	MW	MW	KW	KW	KW	KW	KW
380 MW	22.1 °C	57.4 %	1007.4 mbar	71213.6 m <sup>3</sup> /h	237.546 MW	0.950	125.242 MW	0.943	234.301 MW	121.199 MW	362.788 MW	355.500 MW	1729.9 KW	2916.6 KW	19.1 KW	2.9 KW	0.3 KW
340 MW	20.0 °C	63.7 %	1009.7 mbar	65966.4 m <sup>3</sup> /h	232.235 MW	0.942	108.466 MW	0.937	229.224 MW	104.737 MW	340.701 MW	333.961 MW	1588.6 KW	2852.0 KW	18.2 KW	2.3 KW	0.3 KW
355 MW	22.6 °C	52.5 %	1008.9 mbar	67401.5 m <sup>3</sup> /h	237.176 MW	0.944	112.605 MW	0.942	234.072 MW	108.798 MW	349.782 MW	342.871 MW	1597.7 KW	2913.0 KW	14.8 KW	5.9 KW	0.2 KW

CENTRAL TERMOLÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Día: 28/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m <sup>3</sup> /h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
	15:00:00	22.0	57.9	1007.4	71226.6	237.402	0.946	125.395	0.942	234.129	121.353	362.797	355.482	1739.132	2899.868	20.961	2.294	0.250
	15:01:00	22.0	57.8	1007.4	71096.5	237.990	0.946	125.578	0.942	234.737	121.491	363.967	356.228	1707.870	2890.181	24.145	2.293	0.251
	15:02:00	22.0	57.8	1007.4	71207.0	237.976	0.945	125.319	0.940	234.662	121.298	363.295	355.960	1702.257	2894.129	22.269	2.287	0.251
	15:03:00	22.0	57.8	1007.4	71245.0	237.165	0.946	125.263	0.941	233.972	121.222	362.427	355.194	1698.161	2890.516	18.192	2.297	0.251
	15:04:00	21.9	57.8	1007.5	71213.8	238.005	0.946	125.303	0.942	234.720	121.322	362.407	356.042	1698.253	2896.138	20.352	2.294	0.251
	15:05:00	21.9	57.7	1007.5	71168.8	237.727	0.945	125.150	0.940	234.438	121.122	362.877	355.560	1697.284	2887.054	18.210	2.288	0.251
	15:06:00	21.9	57.7	1007.5	70988.6	237.402	0.945	125.316	0.940	234.231	121.312	362.718	355.542	1704.824	2892.810	15.948	2.290	0.251
	15:07:00	21.9	57.7	1007.5	71281.0	237.620	0.946	125.367	0.940	234.440	121.243	362.987	355.683	1713.032	2905.639	19.961	2.300	0.251
	15:08:00	21.9	57.8	1007.7	71203.5	237.431	0.945	125.311	0.941	234.229	121.275	362.742	355.504	1719.253	2907.735	20.696	2.294	0.251
	15:09:00	21.9	57.6	1007.7	71204.7	237.224	0.943	125.316	0.939	233.910	121.265	362.540	355.175	1709.991	2894.870	16.948	2.283	0.250
	15:10:00	22.1	57.4	1007.7	70954.6	237.967	0.944	125.417	0.939	234.628	121.351	363.384	356.179	1749.645	2871.299	15.039	2.284	0.250
	15:11:00	22.1	57.2	1007.6	71323.8	236.968	0.944	125.365	0.940	233.753	121.260	362.334	355.013	1741.381	2884.254	20.919	2.298	0.251
	15:12:00	22.2	57.0	1007.6	70671.8	236.706	0.945	125.180	0.940	233.458	121.135	361.886	354.593	1746.527	2894.527	20.525	2.279	0.251
	15:13:00	22.3	66.9	1007.6	71173.6	237.671	0.945	125.136	0.938	234.438	121.161	362.808	355.596	1744.908	2870.654	17.907	2.271	0.250
	15:14:00	22.4	56.7	1007.6	71484.2	236.921	0.943	125.141	0.937	233.728	121.088	362.062	354.816	1743.130	2892.167	15.400	2.288	0.251
	15:15:00	22.5	56.5	1007.5	71375.2	237.252	0.946	125.173	0.940	234.063	121.137	362.425	355.200	1742.502	2872.879	19.683	2.284	0.250
	15:16:00	22.6	56.3	1007.5	71263.2	237.415	0.948	125.244	0.943	234.176	121.279	362.659	355.455	1735.332	2883.889	17.549	2.275	0.250
	15:17:00	22.7	56.1	1007.5	71132.7	236.292	0.948	125.236	0.944	233.013	121.228	361.527	354.241	1732.806	2901.128	14.971	2.294	0.250
	15:18:00	22.7	55.8	1007.2	70914.9	236.940	0.943	125.092	0.939	232.842	121.098	361.136	354.040	1729.875	2891.728	15.220	2.303	0.250
	15:19:00	22.7	55.8	1007.3	70949.9	236.972	0.944	125.150	0.940	232.631	121.124	361.122	353.755	1719.871	2877.141	19.973	2.304	0.250
	15:20:00	22.7	55.8	1007.3	71100.0	236.101	0.943	125.040	0.939	232.882	121.004	361.141	353.886	1725.382	2886.891	20.498	2.299	0.250
	15:21:00	22.7	55.8	1007.3	70859.9	237.937	0.947	125.398	0.941	234.678	121.471	363.335	356.149	1727.600	2884.333	18.669	2.295	0.250
	15:22:00	22.7	55.9	1007.3	70944.6	236.674	0.944	125.032	0.938	233.390	120.995	361.706	354.385	1729.998	2882.620	18.565	2.307	0.250
	15:23:00	22.7	55.9	1007.3	71073.8	236.797	0.945	125.072	0.940	233.597	121.021	361.809	354.618	1738.129	2920.129	24.606	2.301	0.250
	15:24:00	22.7	55.9	1007.3	69976.2	236.746	0.946	125.270	0.940	233.589	121.200	362.016	354.889	1744.538	2904.154	17.863	2.302	0.249
	15:25:00	22.7	55.9	1007.3	71073.2	236.011	0.946	125.245	0.941	232.815	121.135	361.255	353.950	1751.496	2936.739	14.717	2.559	0.250
	15:26:00	22.6	56.0	1007.3	70700.0	237.589	0.949	125.312	0.939	234.200	121.270	362.900	355.470	1746.677	2916.803	14.662	2.295	0.249
	15:27:00	22.6	56.0	1007.3	70777.6	237.768	0.949	125.249	0.938	234.683	121.198	363.017	355.881	1746.609	2909.000	19.558	2.295	0.250
	15:28:00	22.6	56.1	1007.6	71295.1	236.404	0.950	125.168	0.940	233.170	121.103	361.571	354.273	1745.693	2915.493	17.006	2.293	0.250
	15:29:00	22.6	56.2	1007.6	70690.3	236.600	0.949	125.045	0.940	233.350	120.991	361.645	354.341	1738.865	2901.082	14.225	2.283	0.251
	15:30:00	22.5	56.4	1007.6	71403.5	236.473	0.950	125.237	0.939	233.257	121.223	361.715	354.480	1736.074	2897.037	13.815	2.303	0.251
	15:31:00	22.5	56.5	1007.6	70844.6	236.953	0.951	125.302	0.942	233.735	121.255	362.255	354.990	1741.714	2911.429	22.492	2.373	0.250
	15:32:00	22.4	56.7	1007.6	71073.9	237.709	0.950	125.458	0.942	234.382	121.515	363.168	355.897	1740.077	2902.155	22.594	3.721	0.250
	15:33:00	22.4	56.9	1007.6	71381.2	236.690	0.950	125.033	0.940	233.491	120.971	361.693	354.462	1738.734	2911.266	18.972	3.691	0.251
	15:34:00	22.3	57.0	1007.6	71580.3	236.580	0.950	125.074	0.941	233.430	121.033	361.655	354.463	1735.499	2907.747	15.052	3.670	0.250
	15:35:00	22.2	57.2	1007.6	70849.3	237.067	0.952	125.167	0.942	233.774	121.236	362.234	355.010	1735.459	2898.082	19.300	3.698	0.251
	15:36:00	22.2	57.3	1007.6	71307.6	236.900	0.953	125.187	0.943	233.607	121.173	362.087	354.780	1740.133	2907.532	14.444	3.710	0.251
	15:37:00	22.1	57.5	1007.6	71405.8	238.525	0.954	125.495	0.943	235.250	121.541	364.020	356.791	1732.869	2915.608	14.484	3.715	0.250
	15:38:00	22.0	57.5	1007.2	71020.3	237.454	0.952	125.127	0.941	234.245	121.158	362.582	355.403	1732.639	2902.556	15.502	3.715	0.251
	15:39:00	22.0	57.6	1007.2	71260.9	238.472	0.953	125.477	0.944	235.157	121.393	363.948	356.560	1733.748	2942.496	20.767	3.706	0.250
	15:40:00	22.0	57.7	1007.3	71282.0	237.811	0.952	125.169	0.942	234.518	121.179	362.980	355.697	1731.621	2931.621	16.220	3.721	0.251
	15:41:00	22.0	57.7	1007.3	71217.6	237.574	0.953	125.260	0.942	234.333	121.143	362.834	355.476	1731.619	2916.746	17.846	3.719	0.250
	15:42:00	22.0	57.8	1007.4	71685.2	238.003	0.953	125.170	0.943	234.515	121.137	363.172	355.652	1703.131	2949.794	19.806	3.733	0.250
	15:43:00	22.0	57.8	1007.4	71456.9	238.324	0.946	125.328	0.946	235.384	121.224	363.872	356.607	1705.000	2947.733	22.444	3.743	0.250
	15:44:00	22.0	57.9	1007.5	71506.9	238.162	0.956	125.472	0.946	234.874	121.380	363.624	356.267	1701.869	2933.427	15.313	3.738	0.249
	15:45:00	22.0	58.0	1007.6	71816.1	238.693	0.956	125.417	0.947	235.537	121.296	364.110	356.833	1707.493	2935.370	18.509	3.744	0.249
	15:46:00	22.0	58.0	1007.7	71591.5	237.894	0.957	125.250	0.946	234.682	121.137	363.144	355.819	1708.873	2931.361	20.947	3.745	0.250
	15:47:00	21.9	58.1	1007.7	71556.5	237.692	0.955	124.908	0.947	234.430	120.906	362.601	355.336	1712.375	2950.624	23.511	3.778	0.250
	15:48:00	21.9	57.9	1007.4	71217.3	237.904	0.956	124.973	0.946	234.601	120.910	362.877	355.511	1722.453	2946.680	21.335	3.782	0.250
	15:49:00	21.8	58.1	1007.4	71085.4	237.648	0.957	125.204	0.948	234.337	121.105	362.852	355.442	1725.609	2958.304	23.305	3.770	0.249
	15:50:00	21.8	58.2	1007.4	71954.4	237.848	0.958	124.994	0.949	234.723	120.986	362.962	355.709	1725.905	2951.905	23.277	3.783	0.250
	15:51:00	21.7	58.4	1007.3	72058.8	238.856	0.956	125.081	0.946	235.530	120.988	363.937	356.618	1744.131	2936.097	20.938	3.864	0.250
	15:52:00	21.6	58.4	1007.3	71274.3	238.139	0.957	125.053	0.945	234.983	120.943	363.223	355.943	1742.847	2915.506	17.621	3.873	0.250
	15:53:00	21.6	58.7	1007.3	71621.8	238.596	0.957	125.169	0.949	235.312	121.052	362.933	356.364	1744.873	2957.747	22.793	3.862	0.248
	15:54:00	21.5	58.8	1007.3	71436.8	238.773	0.955	125.218	0.947	235.389	121.109	363.991	356.498	1744.637	2973.892	20.944	2.471	0.250
	15:55:00	21.4	59.0	1007.2	71410.4	238.679	0.957	125.517	0.948	235.494	121.463	364.196	356.957	1737.735</				

CENTRAL TERMOLÉCTRICA SAN ISIDRO I										PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS										UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL		
------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--

REGISTRO DE VARIABLES PRIMARIAS

Día: 29/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neto (MW)	Potencia TV Neto (MW)	Potencia CC Bruta (MW)	Potencia CC Neto (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
	12:45:00	19.3	66.7	1010.0	66202.2	233.130	0.942	108.383	0.935	230.087	104.680	341.513	334.767	1589.039	2740.803	17.022	2.209	0.254
	12:46:00	19.3	66.6	1010.0	65976.7	232.518	0.942	108.107	0.934	229.471	104.457	340.625	333.528	1582.875	2723.129	16.438	2.235	0.254
	12:47:00	19.3	66.5	1010.0	66479.4	232.218	0.946	108.168	0.940	229.785	104.641	340.386	334.426	1561.601	2755.399	20.818	2.217	0.253
	12:48:00	19.3	66.3	1009.9	66569.7	232.576	0.946	108.248	0.942	230.063	104.673	340.824	334.736	1556.000	2756.582	20.725	2.225	0.253
	12:49:00	19.3	66.2	1009.9	66452.5	232.357	0.946	108.399	0.942	229.807	104.807	340.756	334.574	1553.403	2773.208	18.193	2.233	0.253
	12:50:00	19.3	66.1	1010.0	66153.1	232.428	0.947	108.388	0.944	229.581	104.756	340.817	334.337	1555.354	2782.095	16.701	2.206	0.252
	12:51:00	19.3	66.3	1010.0	66179.9	233.235	0.947	108.532	0.944	230.654	104.873	341.767	335.527	1559.133	2783.469	22.173	2.244	0.252
	12:52:00	19.3	66.4	1010.0	66656.2	232.382	0.946	108.349	0.942	229.726	104.743	340.731	334.469	1555.864	2786.407	22.028	2.255	0.252
	12:53:00	19.4	66.5	1010.0	65745.0	232.418	0.946	108.357	0.943	229.212	104.668	340.775	333.880	1552.392	2794.306	20.315	2.220	0.252
	12:54:00	19.4	66.7	1010.0	65952.9	232.052	0.947	108.368	0.940	229.181	104.699	340.420	333.880	1557.129	2800.583	15.961	2.232	0.252
	12:55:00	19.4	66.8	1010.1	66179.8	232.714	0.946	108.415	0.941	229.689	104.705	341.129	334.394	1564.764	2807.528	20.947	2.250	0.252
	12:56:00	19.4	66.9	1010.1	66177.9	232.569	0.946	108.334	0.939	229.622	104.653	340.904	333.735	1563.511	2804.151	16.473	2.228	0.252
	12:57:00	19.4	67.0	1010.1	66300.3	231.738	0.948	108.391	0.942	228.906	104.739	340.130	333.645	1580.871	2810.129	16.034	2.235	0.252
	12:58:00	19.4	67.2	1010.1	65700.6	233.118	0.946	108.671	0.940	230.177	104.975	341.789	335.152	1580.105	2814.895	18.518	2.232	0.252
	12:59:00	19.4	67.3	1010.1	65796.8	232.835	0.945	108.806	0.943	229.623	105.075	341.641	334.688	1576.524	2804.345	21.160	2.220	0.252
	13:00:00	19.4	67.2	1009.8	66189.1	232.486	0.946	108.537	0.940	229.253	104.807	341.023	334.600	1586.138	2823.106	16.379	2.244	0.252
	13:01:00	19.5	66.8	1009.8	66320.6	231.942	0.940	108.291	0.934	228.922	104.570	340.232	333.492	1591.652	2803.564	15.472	2.246	0.252
	13:02:00	19.5	66.4	1009.8	66492.0	231.593	0.940	108.274	0.930	228.184	104.597	339.867	332.781	1606.311	2827.862	17.913	2.239	0.253
	13:03:00	19.6	66.1	1009.8	66294.9	232.682	0.939	108.372	0.932	229.229	104.748	340.955	333.977	1602.264	2821.604	20.364	2.239	0.253
	13:04:00	19.6	65.7	1009.8	66188.9	231.684	0.939	108.275	0.930	228.809	104.572	339.869	333.381	1601.868	2832.868	17.362	2.278	0.252
	13:05:00	19.7	65.3	1009.8	65959.7	231.746	0.939	108.377	0.930	228.547	104.654	340.122	333.201	1606.000	2819.211	15.110	2.258	0.252
	13:06:00	19.7	64.9	1009.8	65791.7	231.854	0.939	108.438	0.925	229.056	104.663	340.292	333.719	1609.871	2824.000	18.299	2.267	0.253
	13:07:00	19.8	64.6	1009.8	65970.1	231.907	0.943	108.466	0.928	228.872	104.594	340.354	333.466	1608.722	2844.834	18.372	2.321	0.254
	13:08:00	19.8	64.2	1009.8	66204.0	231.778	0.947	108.482	0.933	228.802	104.780	340.280	333.562	1599.123	2827.755	15.471	2.298	0.253
	13:09:00	19.8	63.8	1009.8	65880.4	231.846	0.947	108.481	0.935	228.883	104.715	340.329	333.686	1602.370	2862.842	17.588	2.290	0.249
	13:10:00	19.8	63.7	1009.4	65824.2	231.977	0.944	108.161	0.933	228.671	104.464	340.138	333.135	1606.246	2859.231	17.824	2.286	0.251
	13:11:00	19.9	63.6	1009.5	65728.4	232.442	0.946	108.414	0.933	229.340	104.672	340.856	334.012	1606.253	2867.760	18.062	2.306	0.250
	13:12:00	19.9	63.4	1009.5	65839.7	232.051	0.945	108.372	0.930	228.994	104.686	340.424	333.680	1609.263	2885.182	15.462	2.272	0.251
	13:13:00	20.0	63.3	1009.6	65713.5	231.553	0.944	108.253	0.931	228.332	104.512	339.806	332.844	1597.271	2880.625	16.224	2.298	0.250
	13:14:00	20.0	63.1	1009.6	65853.5	232.658	0.944	108.502	0.937	229.291	104.789	341.159	334.080	1599.864	2880.593	15.585	2.301	0.250
	13:15:00	20.0	63.0	1009.7	65945.0	232.293	0.946	108.243	0.934	229.607	104.960	340.936	334.567	1594.136	2892.919	14.866	2.298	0.250
	13:16:00	20.1	62.8	1009.7	65755.5	232.502	0.946	108.492	0.932	229.348	104.788	340.994	334.136	1599.279	2892.140	14.892	2.297	0.251
	13:17:00	20.1	62.7	1009.7	66027.6	232.287	0.945	108.393	0.929	229.017	104.590	340.680	333.607	1595.134	2877.072	14.997	2.271	0.251
	13:18:00	20.1	62.5	1009.8	65817.0	232.717	0.946	108.561	0.932	229.573	104.863	341.277	334.436	1594.356	2877.644	12.184	2.315	0.250
	13:19:00	20.2	62.4	1009.8	65952.1	232.304	0.946	108.442	0.933	229.402	104.708	340.745	334.110	1604.637	2878.853	20.892	2.315	0.250
	13:20:00	20.2	62.2	1009.5	66268.2	232.361	0.944	108.578	0.932	229.326	104.890	340.937	334.206	1604.621	2887.116	23.221	2.292	0.250
	13:21:00	20.2	62.1	1009.5	64815.6	232.682	0.947	108.466	0.932	229.568	104.686	341.128	334.254	1609.409	2907.774	19.678	2.315	0.250
	13:22:00	20.2	62.0	1009.5	66370.5	232.311	0.945	108.423	0.933	228.906	104.604	340.734	333.510	1609.464	2901.330	16.447	2.306	0.250
	13:23:00	20.2	61.8	1009.6	64938.7	231.757	0.944	108.339	0.932	229.383	104.530	340.096	333.913	1598.597	2877.403	16.846	2.278	0.250
	13:24:00	20.2	61.9	1009.5	65897.3	232.067	0.947	108.401	0.934	228.929	104.695	340.468	333.624	1602.411	2889.726	20.949	2.313	0.250
	13:25:00	20.2	61.9	1009.5	66331.6	231.917	0.946	108.524	0.933	229.038	104.786	340.441	333.804	1602.368	2904.356	20.738	2.330	0.249
	13:26:00	20.3	61.8	1009.5	65939.5	232.117	0.942	108.502	0.928	229.113	104.784	340.620	333.897	1604.608	2900.739	18.300	2.300	0.250
	13:27:00	20.3	61.7	1009.5	65966.6	233.090	0.943	108.796	0.912	230.078	105.026	341.886	335.104	1602.609	2904.089	20.726	2.290	0.251
	13:28:00	20.3	61.6	1009.5	65901.2	231.039	0.932	108.345	0.902	227.709	104.428	339.384	332.137	1606.000	2901.717	20.627	2.294	0.250
	13:29:00	20.3	61.6	1009.5	65615.7	232.294	0.938	108.600	0.935	229.089	104.753	340.894	333.842	1572.866	2887.000	19.486	2.286	0.250
	13:30:00	20.4	61.9	1010.0	66178.6	232.174	0.938	108.660	0.938	229.101	104.904	340.834	334.004	1575.893	2882.320	15.736	2.275	0.249
	13:31:00	20.4	61.8	1009.9	66041.8	232.190	0.939	108.493	0.951	229.321	104.702	340.683	334.023	1578.490	2901.234	15.518	2.270	0.249
	13:32:00	20.5	61.7	1009.9	66281.9	232.607	0.939	108.556	0.928	229.534	104.797	341.163	334.331	1574.264	2894.613	18.556	2.289	0.254
	13:33:00	20.5	61.7	1009.9	65812.1	231.776	0.941	108.399	0.925	229.171	104.688	340.715	333.859	1572.408	2876.680	15.756	2.276	0.254
	13:34:00	20.5	61.6	1009.8	65934.2	232.674	0.940	108.678	0.950	229.620	104.876	341.352	334.696	1571.131	2875.131	17.170	2.263	0.252
	13:35:00	20.6	61.6	1009.8	65716.6	232.607	0.949	108.673	0.949	229.548	104.914	341.280	334.462	1580.104	2891.347	19.558	2.322	0.251
	13:36:00	20.6	61.5	1009.8	66053.5	232.331	0.938	108.746	0.947	229.248	104.895	341.077	334.112	1588.328	2887.924	19.164	2.297	0.252
	13:37:00	20.6	61.4	1009.7	65740.6	232.631	0.937	108.560	0.949	229.916	104.741	341.191	334.656	1580.870	2885.889	18.796	2.292	0.252
	13:38:00	20.7	61.4	1009.7	66083.4	231.982	0.937	108.571	0.951	228.926	104.793	340.553	333.719	1572.487	2879.269	16.815	2.303	0.251
	13:39:00	20.7	61.3	1009.7	66124.2	231.290	0.935	108.383	0.948	228.050	104.644	339.672	332.684	1602.994	2885.189	21.703	2.323	0.252
	13:40:00	20.8	61.3	1009.6	65960.8	232.196	0.937	108.620	0.948	229.062	104.837	340.817	333.899	1602.872	2883.255	19.478		

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
-------------------------------------	--	---

**REGISTRO DE VARIABLES PRIMARIAS**

Dia: 29/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neto (MW)	Potencia TV Neto (MW)	Potencia CC Bruta (MW)	Potencia CC Neto (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
	14:50:00	22.6	52.3	1009.0	67185.3	237.226	0.944	112.499	0.940	234.118	108.815	349.725	342.933	1595.353	2867.824	15.722	3.653	0.252
	14:51:00	22.6	52.3	1009.4	67176.3	236.902	0.944	112.640	0.942	233.847	108.881	349.542	342.728	1579.990	2858.495	14.907	3.645	0.252
	14:52:00	22.6	52.4	1009.4	67204.2	236.627	0.943	112.589	0.942	233.528	108.827	349.216	342.355	1582.395	2875.132	12.169	3.684	0.252
	14:53:00	22.6	52.4	1009.4	67184.1	237.075	0.944	112.693	0.942	233.981	108.919	349.768	342.900	1582.253	2892.138	17.393	3.647	0.250
	14:54:00	22.6	52.5	1009.4	67296.0	236.861	0.944	112.598	0.942	233.799	108.808	349.459	342.607	1585.000	2889.387	15.875	3.643	0.251
	14:55:00	22.5	52.5	1009.4	67084.0	236.573	0.944	112.510	0.942	233.469	108.742	349.083	342.210	1593.258	2896.773	15.517	3.579	0.250
	14:56:00	22.5	52.6	1009.4	67223.6	236.460	0.943	112.416	0.944	233.324	108.705	348.877	342.029	1592.867	2894.834	13.116	3.661	0.251
	14:57:00	22.5	52.6	1009.3	67273.2	237.027	0.943	112.629	0.941	233.894	108.817	349.056	342.711	1598.731	2901.000	15.326	3.684	0.250
	14:58:00	22.4	52.7	1009.3	66785.2	237.316	0.944	112.651	0.945	234.189	108.922	349.967	343.111	1598.168	2906.420	15.263	3.646	0.250
	14:59:00	22.4	52.7	1009.3	68040.5	237.527	0.943	112.689	0.942	234.423	108.921	350.216	343.343	1597.945	2893.248	14.943	3.645	0.250
	15:00:00	22.4	52.8	1009.3	67447.1	238.287	0.944	112.653	0.941	235.140	108.790	350.939	343.931	1600.362	2893.638	15.532	3.655	0.250
	15:01:00	22.4	52.8	1009.2	67316.8	238.976	0.944	112.662	0.942	235.810	108.870	349.638	342.680	1587.031	2900.869	17.755	3.630	0.250
	15:02:00	22.4	52.8	1009.1	67513.0	236.844	0.944	112.468	0.941	233.722	108.600	349.311	342.322	1576.874	2906.377	15.685	3.649	0.251
	15:03:00	22.5	52.8	1009.1	67643.6	237.802	0.944	112.566	0.941	234.716	108.683	350.368	343.399	1577.452	2924.767	12.835	6.875	0.250
	15:04:00	22.5	52.7	1009.1	67650.9	237.302	0.943	112.547	0.939	234.166	108.712	349.849	342.878	1572.133	2907.400	12.549	7.561	0.250
	15:05:00	22.5	52.7	1009.0	67896.0	237.520	0.943	112.366	0.945	234.405	108.641	349.886	343.045	1569.529	2899.779	15.067	7.432	0.250
	15:06:00	22.6	52.7	1009.0	67663.5	237.491	0.946	112.429	0.942	234.359	108.678	349.920	343.036	1568.410	2910.000	15.065	7.279	0.250
	15:07:00	22.6	52.6	1008.9	67563.7	237.300	0.943	112.287	0.941	234.155	108.530	349.588	342.685	1587.044	2929.176	15.237	7.518	0.249
	15:08:00	22.6	52.6	1008.9	67475.8	237.458	0.943	112.224	0.939	234.430	108.409	349.712	342.839	1590.087	2919.865	14.240	7.249	0.249
	15:09:00	22.7	52.6	1008.9	67862.6	237.014	0.943	112.266	0.940	233.924	108.506	349.869	342.631	1604.000	2923.919	14.747	7.317	0.250
	15:10:00	22.7	52.6	1008.8	67315.4	237.021	0.942	112.297	0.940	233.839	108.508	349.319	342.347	1613.865	2926.674	14.797	7.453	0.250
	15:11:00	22.7	52.8	1008.8	66973.0	236.945	0.943	112.433	0.940	233.808	108.551	349.378	342.358	1616.455	2919.318	14.397	7.468	0.250
	15:12:00	22.7	52.5	1008.8	67243.9	236.796	0.943	112.455	0.939	233.632	108.673	349.250	342.305	1607.264	2922.264	12.068	7.472	0.249
	15:13:00	22.7	52.5	1008.8	67555.7	237.325	0.943	112.503	0.941	234.237	108.674	349.828	342.911	1586.737	2928.948	15.147	7.532	0.250
	15:14:00	22.6	52.6	1008.8	66862.1	237.322	0.943	112.490	0.939	234.340	108.646	349.812	342.887	1585.879	2911.781	15.058	7.577	0.250
	15:15:00	22.6	52.5	1008.8	67191.9	237.415	0.943	112.600	0.940	234.262	108.800	350.014	343.062	1581.742	2913.324	15.285	7.397	0.250
	15:16:00	22.6	52.4	1008.7	67470.0	237.777	0.944	112.455	0.942	234.571	108.653	350.232	343.404	1586.871	2921.743	13.509	6.591	0.249
	15:17:00	22.6	52.4	1008.7	67497.7	237.337	0.944	112.682	0.942	234.250	108.828	350.019	343.078	1575.868	2920.073	15.535	6.135	0.250
	15:18:00	22.6	52.4	1008.7	67673.6	237.157	0.944	112.672	0.942	233.979	108.861	349.829	342.841	1602.879	2926.394	17.936	6.123	0.250
	15:19:00	22.6	52.4	1008.7	66981.4	237.713	0.944	112.549	0.944	234.611	108.851	350.362	343.462	1603.868	2913.527	15.033	6.144	0.250
	15:20:00	22.5	52.4	1008.7	68019.2	237.635	0.944	112.700	0.943	234.536	108.896	350.334	343.432	1602.156	2928.368	12.155	6.145	0.250
	15:21:00	22.5	52.3	1008.8	67193.2	237.708	0.945	112.647	0.942	234.548	108.722	350.355	343.318	1585.451	2926.666	14.784	6.218	0.250
	15:22:00	22.5	52.2	1008.8	67225.9	237.053	0.945	112.432	0.942	233.978	108.626	349.485	342.604	1593.046	2901.223	15.126	6.211	0.250
	15:23:00	22.5	52.2	1008.7	67595.7	238.363	0.946	112.861	0.944	235.285	109.027	351.223	344.311	1600.489	2915.466	16.009	6.220	0.250
	15:24:00	22.6	52.2	1008.7	67537.0	237.054	0.945	112.572	0.942	233.897	108.789	349.626	342.686	1588.130	2913.821	14.702	6.202	0.250
	15:25:00	22.6	52.1	1008.7	67007.6	235.997	0.945	112.744	0.945	232.939	108.969	348.741	341.508	1605.844	2925.487	14.406	6.116	0.250
	15:26:00	22.6	52.1	1008.7	67557.9	236.498	0.944	112.482	0.943	233.400	108.684	348.979	342.093	1612.527	2934.791	15.444	6.117	0.250
	15:27:00	22.6	52.1	1008.7	67300.2	237.644	0.943	112.728	0.940	234.548	108.866	350.372	343.414	1624.134	2917.074	12.568	6.091	0.250
	15:28:00	22.6	52.1	1008.7	67418.1	236.342	0.943	112.598	0.942	233.149	108.944	348.940	342.092	1628.115	2923.064	16.281	6.083	0.250
	15:29:00	22.6	52.0	1008.7	67494.9	236.775	0.947	112.687	0.941	233.816	108.816	349.461	342.632	1626.259	2940.352	17.914	6.095	0.250
	15:30:00	22.7	52.0	1008.6	67586.0	237.551	0.944	112.923	0.942	234.538	109.061	350.474	343.600	1624.473	2922.132	17.588	6.129	0.250
	15:31:00	22.7	52.2	1008.9	67247.1	237.424	0.945	112.578	0.940	234.292	108.779	350.003	343.074	1619.132	2908.921	11.954	6.288	0.249
	15:32:00	22.7	52.2	1008.9	67866.6	237.182	0.944	112.504	0.942	234.067	108.722	349.687	342.789	1618.726	2920.821	12.864	6.237	0.249
	15:33:00	22.7	52.2	1008.9	67912.7	238.157	0.943	112.641	0.942	233.024	108.781	348.798	341.805	1610.655	2927.917	18.339	6.213	0.250
	15:34:00	22.7	52.2	1008.9	67163.5	236.725	0.944	112.670	0.941	233.709	108.842	349.395	342.551	1607.602	2924.000	18.289	6.164	0.250
	15:35:00	22.8	52.2	1008.9	67334.4	237.504	0.944	112.755	0.940	234.404	108.974	350.259	343.378	1614.000	2920.000	13.253	6.004	0.249
	15:36:00	22.8	52.2	1008.9	67253.9	237.528	0.944	112.577	0.941	234.487	108.735	350.104	343.222	1616.758	2913.759	13.217	6.211	0.249
	15:37:00	22.8	52.2	1008.8	67899.4	237.717	0.942	112.593	0.943	234.582	108.852	350.309	343.434	1578.665	2892.520	15.110	6.267	0.250
	15:38:00	22.8	52.2	1008.8	67542.1	236.895	0.943	112.788	0.944	234.784	109.019	349.683	342.773	1574.531	2902.469	14.018	6.086	0.250
	15:39:00	22.8	52.2	1008.8	67222.6	236.178	0.944	112.556	0.942	233.066	108.785	348.733	341.851	1580.243	2914.095	16.429	6.126	0.250
	15:40:00	22.8	52.2	1008.8	67927.2	237.409	0.945	112.791	0.946	234.297	108.996	350.200	343.292	1572.000	2897.293	16.522	6.026	0.249
	15:41:00	22.8	52.2	1008.8	67585.3	236.624	0.944	112.515	0.942	233.487	108.716	349.139	342.203	1575.136	2918.949	16.260	6.081	0.249
	15:42:00	22.8	52.2	1008.8	67360.5	236.905	0.944	112.595	0.941	234.085	108.753	349.877	342.645	1578.861	2920.000	14.311	6.153	0.250
	15:43:00	22.8	52.4	1008.8	66874.8	236.557	0.943	112.735	0.940	234.029	108.832	349.964	342.981	1622.119	2903.308	14.843	6.223	0.249
	15:44:00	22.7	52.5	1008.8	67258.2	237.853	0.944	112.880	0.941	234.779	109.040	350.733	343.820	1598.734	2906.334	15.224	6.084	0.249
	15:45:00	22.7	52.6	1008.8	67364.7	237.373	0.944	112.907	0.941	234.333	109.114	350.280	343.348	1602.214	2926			

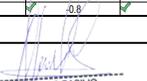
CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
-------------------------------------	--	---

REGISTRO DE VARIABLES PRIMARIAS

Dia: 28/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
380 MW	15:00:00	-0.1	-	0.0	0.0	0.1	0.4	-0.1	0.4	0.1	-0.1	0.0	0.0	-	-	-	-	-
	15:01:00	-0.1	-	0.0	0.0	-0.2	0.4	-0.3	0.4	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-
	15:02:00	-0.1	-	0.0	0.0	-0.2	0.5	-0.1	0.5	-0.2	-0.1	-0.1	-0.1	-	-	-	-	-
	15:03:00	-0.1	-	0.0	0.0	0.2	0.4	0.0	0.4	0.1	0.0	0.1	0.1	-	-	-	-	-
	15:04:00	-0.2	-	0.0	0.0	-0.2	0.4	0.0	0.4	-0.2	-0.1	-0.1	-0.2	-	-	-	-	-
	15:05:00	-0.2	-	0.0	0.1	-0.1	0.5	-0.1	0.5	-0.1	0.1	0.0	0.0	-	-	-	-	-
	15:06:00	-0.2	-	0.0	0.3	0.1	0.6	-0.1	0.6	0.0	-0.1	0.0	0.0	-	-	-	-	-
	15:07:00	-0.2	-	0.0	-0.1	0.0	0.5	-0.1	0.5	-0.1	0.0	-0.1	-0.1	-	-	-	-	-
	15:08:00	-0.2	-	0.0	0.0	0.0	0.5	-0.1	0.5	0.0	-0.1	0.0	0.0	-	-	-	-	-
	15:09:00	-0.1	-	0.0	0.0	0.1	0.7	-0.1	0.7	0.2	-0.1	0.1	0.1	-	-	-	-	-
	15:10:00	0.0	-	0.0	0.4	-0.2	0.6	-0.1	0.6	0.6	-0.2	-0.1	-0.2	-	-	-	-	-
	15:11:00	0.0	-	0.0	-0.2	0.2	0.6	-0.1	0.6	0.2	-0.1	0.1	0.1	-	-	-	-	-
	15:12:00	0.1	-	0.0	0.8	0.4	0.5	0.0	0.5	0.4	0.1	0.2	0.3	-	-	-	-	-
	15:13:00	0.2	-	0.0	0.1	-0.1	0.6	0.1	0.6	-0.1	0.0	0.0	0.0	-	-	-	-	-
	15:14:00	0.3	-	0.0	-0.4	0.3	0.7	0.1	0.7	0.2	0.1	0.2	0.2	-	-	-	-	-
	15:15:00	0.4	-	0.0	-0.2	0.1	0.4	0.1	0.4	0.1	0.1	0.1	0.1	-	-	-	-	-
	15:16:00	0.5	-	0.0	-0.1	0.1	0.2	0.0	0.2	0.1	-0.1	-0.1	0.0	-	-	-	-	-
	15:17:00	0.6	-	0.0	0.1	0.5	0.2	0.0	0.2	0.5	0.0	0.3	0.4	-	-	-	-	-
	15:18:00	0.6	-	0.0	0.6	0.7	0.6	0.7	0.1	0.6	0.7	0.1	0.4	-	-	-	-	-
	15:19:00	0.6	-	0.0	0.8	0.7	0.6	0.7	0.1	0.6	0.7	0.1	0.5	-	-	-	-	-
	15:20:00	0.6	-	0.0	0.2	0.6	0.8	0.2	0.8	0.6	0.2	0.5	0.5	-	-	-	-	-
	15:21:00	0.6	-	0.0	0.5	-0.2	0.4	-0.1	0.4	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-
	15:22:00	0.6	-	0.0	0.4	0.4	0.7	0.2	0.7	0.4	0.2	0.3	0.3	-	-	-	-	-
	15:23:00	0.6	-	0.0	0.2	0.3	0.5	0.2	0.5	0.3	0.1	0.3	0.2	-	-	-	-	-
	15:24:00	0.6	-	0.0	0.7	0.3	0.5	0.0	0.5	0.3	-0.1	0.2	0.2	-	-	-	-	-
	15:25:00	0.6	-	0.0	0.2	0.6	0.5	0.0	0.5	0.6	0.1	0.4	0.4	-	-	-	-	-
	15:26:00	0.5	-	0.0	0.7	0.0	0.1	-0.1	0.1	0.0	-0.1	0.0	0.0	-	-	-	-	-
	15:27:00	0.5	-	0.0	0.6	-0.1	0.1	0.0	0.1	-0.2	0.0	-0.1	-0.1	-	-	-	-	-
	15:28:00	0.5	-	0.0	-0.1	0.5	0.0	0.1	0.0	0.5	0.1	0.3	0.3	-	-	-	-	-
	15:29:00	0.5	-	0.0	0.7	0.4	0.1	0.2	0.1	0.4	0.2	0.3	0.3	-	-	-	-	-
	15:30:00	0.4	-	0.0	1.1	0.4	0.1	0.4	0.1	0.4	0.0	0.3	0.3	-	-	-	-	-
	15:31:00	0.4	-	0.0	0.5	0.2	-0.1	0.0	-0.1	0.2	0.0	0.1	0.1	-	-	-	-	-
	15:32:00	0.3	-	0.0	0.2	-0.1	0.0	-0.2	0.0	0.0	-0.3	-0.1	-0.1	-	-	-	-	-
	15:33:00	0.3	-	0.0	-0.2	0.4	0.0	0.2	0.0	0.3	0.2	0.3	0.3	-	-	-	-	-
	15:34:00	0.2	-	0.0	-0.5	0.4	0.0	0.1	0.0	0.4	0.1	0.3	0.3	-	-	-	-	-
	15:35:00	0.1	-	0.0	0.5	0.2	-0.2	0.1	-0.2	0.2	0.0	0.2	0.1	-	-	-	-	-
	15:36:00	0.1	-	0.0	-0.1	0.3	-0.3	0.0	-0.3	0.3	0.0	0.2	0.2	-	-	-	-	-
	15:37:00	0.0	-	0.0	-0.3	-0.4	-0.4	-0.2	-0.4	-0.4	-0.3	-0.3	-0.4	-	-	-	-	-
	15:38:00	-0.1	-	0.0	0.3	0.0	-0.2	0.1	-0.2	0.0	0.0	0.1	0.0	-	-	-	-	-
	15:39:00	-0.1	-	0.0	-0.1	-0.4	-0.3	-0.2	-0.3	-0.4	-0.2	-0.3	-0.3	-	-	-	-	-
	15:40:00	-0.1	-	0.0	-0.1	-0.1	-0.2	0.1	-0.2	-0.1	0.0	-0.1	-0.1	-	-	-	-	-
	15:41:00	-0.1	-	0.0	0.0	0.0	-0.3	0.0	-0.3	0.0	0.0	0.0	0.0	-	-	-	-	-
	15:42:00	-0.1	-	0.0	-0.7	-0.2	-0.3	0.1	-0.3	-0.1	0.1	-0.1	0.0	-	-	-	-	-
	15:43:00	-0.1	-	0.0	-0.3	-0.4	-0.6	-0.1	-0.6	-0.5	0.0	-0.3	-0.3	-	-	-	-	-
	15:44:00	-0.1	-	0.0	-0.4	-0.3	-0.6	-0.2	-0.6	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-
	15:45:00	-0.1	-	0.0	-0.8	-0.5	-0.6	-0.2	-0.6	-0.5	-0.1	-0.4	-0.4	-	-	-	-	-
	15:46:00	-0.1	-	0.0	-0.1	-0.7	-0.7	0.0	-0.7	-0.2	0.1	-0.1	-0.1	-	-	-	-	-
	15:47:00	-0.2	-	0.0	-0.5	-0.1	-0.5	0.3	-0.5	-0.1	0.2	0.1	0.0	-	-	-	-	-
15:48:00	-0.2	-	0.0	-0.2	-0.2	-0.6	0.2	-0.6	-0.1	0.2	0.0	0.0	-	-	-	-	-	
15:49:00	-0.3	-	0.0	0.2	0.0	-0.7	0.0	-0.7	0.0	0.1	0.0	0.0	-	-	-	-	-	
15:50:00	-0.3	-	0.0	-1.0	-0.2	-0.8	0.2	-0.8	-0.2	0.2	0.0	-0.1	-	-	-	-	-	
15:51:00	-0.4	-	0.0	-1.2	-0.6	-0.6	0.1	-0.6	-0.6	0.2	-0.3	-0.3	-	-	-	-	-	
15:52:00	-0.4	-	0.0	-1.1	-0.4	-0.7	0.1	-0.7	-0.3	0.1	-0.1	-0.1	-	-	-	-	-	
15:53:00	-0.5	-	0.0	-0.6	-0.4	-0.7	0.1	-0.7	-0.4	0.1	-0.3	-0.2	-	-	-	-	-	
15:54:00	-0.6	-	0.0	-0.3	-0.5	-0.5	0.0	-0.5	-0.5	0.1	-0.3	-0.3	-	-	-	-	-	
15:55:00	-0.7	-	0.0	-0.3	-0.5	-0.7	-0.2	-0.7	-0.5	-0.2	-0.4	-0.4	-	-	-	-	-	
15:56:00	-0.7	-	0.0	-0.9	-0.5	-0.7	-0.1	-0.7	-0.5	-0.1	-0.4	-0.4	-	-	-	-	-	
15:57:00	-0.8	-	0.0	-0.2	-0.5	-0.8	-0.2	-0.8	-0.5	-0.2	-0.4	-0.4	-	-	-	-	-	
15:58:00	-0.9	-	0.0	-0.5	-0.1	-0.5	0.1	-0.5	-0.1	0.0	0.0	0.0	-	-	-	-	-	
15:59:00	-1.0	-	0.0	-0.7	-0.6	-0.6	-0.2	-0.6	-0.6	-0.2	-0.5	-0.5	-	-	-	-	-	
16:00:00	-0.9	-	0.0	-0.1	-0.4	-0.8	-0.1	-0.8	-0.4	0.0	-0.3	-0.3	-	-	-	-	-	

  
 Firmado por: **RICHELME MOYA**  
 el 31/12/2020 a las 01:10:03 CLT

  
**MARCO BASILIO**  
 QUISEPÉ CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP: Nº 235415  
 Firma del Representante de la Consultora  
**HAMEK INGENIEROS ASOCIADOS S.A.C.**

Firma del Representante del  
**COORDINADOR ELECTRICO NACIONAL**

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
-------------------------------------	--	---

REGISTRO DE VARIABLES PRIMARIAS

Dia: 29/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)
340 MW	12:45:00	-0.7	-	0.0	-0.4	-0.4	0.0	0.1	0.0	-0.4	0.1	-0.2	-0.2	-	-	-	-	-
	12:46:00	-0.7	-	0.0	-0.0	-0.1	0.0	0.3	0.0	-0.1	0.3	0.0	0.0	-	-	-	-	-
	12:47:00	-0.7	-	0.0	-0.8	0.0	-0.4	0.3	-0.4	-0.2	0.1	0.1	0.1	-	-	-	-	-
	12:48:00	-0.7	-	0.0	0.5	-0.1	-0.4	0.2	-0.4	-0.4	0.1	0.0	-0.2	-	-	-	-	-
	12:49:00	-0.7	-	0.0	0.8	-0.1	-0.4	0.1	-0.4	-0.2	-0.1	0.0	-0.2	-	-	-	-	-
	12:50:00	-0.7	-	0.0	-0.3	-0.1	-0.5	0.1	-0.5	-0.2	0.0	0.0	-0.1	-	-	-	-	-
	12:51:00	-0.7	-	0.0	-0.3	-0.4	-0.5	-0.1	-0.5	-0.6	-0.1	-0.3	-0.5	-	-	-	-	-
	12:52:00	-0.6	-	0.0	-1.0	-0.1	-0.3	0.1	-0.3	-0.2	0.0	0.0	-0.2	-	-	-	-	-
	12:53:00	-0.6	-	0.0	0.3	-0.1	-0.4	0.1	-0.4	0.0	0.1	0.0	0.0	-	-	-	-	-
	12:54:00	-0.6	-	0.0	0.0	0.1	-0.4	0.1	-0.4	0.0	0.0	0.0	0.0	-	-	-	-	-
	12:55:00	-0.6	-	0.0	-0.3	-0.2	-0.4	0.0	-0.4	-0.2	0.0	0.0	-0.1	-	-	-	-	-
	12:56:00	-0.6	-	0.0	-0.3	-0.1	-0.4	0.1	-0.4	0.1	-0.1	-0.1	-0.1	-	-	-	-	-
	12:57:00	-0.6	-	0.0	-0.5	0.2	-0.6	0.1	-0.6	0.1	0.0	0.2	0.1	-	-	-	-	-
	12:58:00	-0.6	-	0.0	0.4	-0.4	-0.4	-0.2	-0.4	-0.4	-0.2	-0.3	-0.4	-	-	-	-	-
	12:59:00	-0.6	-	0.0	0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.3	-0.3	-	-	-	-	-
	13:00:00	-0.5	-	0.0	-0.3	-0.1	-0.3	-0.1	-0.3	0.0	-0.1	-0.1	-0.1	-	-	-	-	-
	13:01:00	-0.5	-	0.0	-0.5	0.1	0.3	0.2	0.3	0.1	0.2	0.1	0.1	-	-	-	-	-
	13:02:00	-0.5	-	0.0	-0.8	0.3	0.2	0.2	0.2	0.5	0.1	0.2	0.4	-	-	-	-	-
	13:03:00	-0.4	-	0.0	-0.5	0.0	0.3	0.1	0.3	0.0	0.0	0.0	0.0	-	-	-	-	-
	13:04:00	-0.4	-	0.0	-0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	-	-	-	-	-
	13:05:00	-0.3	-	0.0	0.2	0.2	0.3	0.1	0.3	0.3	0.1	0.2	0.2	-	-	-	-	-
	13:06:00	-0.3	-	0.0	0.3	0.2	0.4	0.0	0.4	0.1	0.1	0.1	0.1	-	-	-	-	-
	13:07:00	-0.2	-	0.0	0.0	0.1	-0.1	0.0	-0.1	0.2	0.1	0.1	0.1	-	-	-	-	-
	13:08:00	-0.2	-	0.0	-0.5	0.2	-0.5	0.0	-0.5	0.2	0.0	0.1	0.1	-	-	-	-	-
	13:09:00	-0.1	-	0.0	0.1	0.2	-0.4	0.0	-0.4	0.1	0.0	0.1	0.1	-	-	-	-	-
	13:10:00	-0.1	-	0.0	0.1	0.1	-0.2	0.3	-0.2	0.2	0.3	0.2	0.2	-	-	-	-	-
	13:11:00	-0.1	-	0.0	0.4	-0.1	-0.4	0.0	-0.4	-0.1	0.1	0.0	0.0	-	-	-	-	-
	13:12:00	-0.1	-	0.0	0.2	0.1	-0.3	0.1	-0.3	0.1	0.0	0.1	0.1	-	-	-	-	-
	13:13:00	0.0	-	0.0	0.4	0.3	-0.1	0.2	-0.1	0.4	0.2	0.3	0.3	-	-	-	-	-
	13:14:00	0.0	-	0.0	0.2	-0.2	-0.1	0.0	-0.1	0.0	0.0	-0.1	0.0	-	-	-	-	-
	13:15:00	0.0	-	0.0	0.0	0.0	0.0	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-
	13:16:00	0.1	-	0.0	0.3	-0.1	-0.3	0.0	-0.3	-0.1	0.0	-0.1	-0.1	-	-	-	-	-
	13:17:00	0.1	-	0.0	-0.1	0.0	-0.3	0.1	-0.3	0.1	0.1	0.0	0.1	-	-	-	-	-
	13:18:00	0.2	-	0.0	0.2	-0.2	-0.3	-0.1	-0.3	-0.2	-0.1	-0.2	-0.1	-	-	-	-	-
	13:19:00	0.2	-	0.0	0.0	0.0	-0.3	0.0	-0.3	-0.1	0.0	0.0	0.0	-	-	-	-	-
	13:20:00	0.2	-	0.0	-0.5	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-	-	-	-	-
	13:21:00	0.2	-	0.0	1.7	-0.2	-0.4	0.0	-0.4	-0.2	0.0	-0.1	-0.1	-	-	-	-	-
	13:22:00	0.2	-	0.0	-0.6	0.0	-0.3	0.0	-0.3	0.1	0.1	0.0	0.1	-	-	-	-	-
	13:23:00	0.2	-	0.0	1.6	0.2	-0.2	0.1	-0.2	-0.1	0.2	0.2	0.2	-	-	-	-	-
	13:24:00	0.2	-	0.0	0.1	0.1	-0.5	0.1	-0.5	0.1	0.0	0.1	0.1	-	-	-	-	-
	13:25:00	0.2	-	0.0	-0.6	0.1	-0.3	-0.1	-0.3	0.1	0.0	0.1	0.0	-	-	-	-	-
	13:26:00	0.3	-	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
	13:27:00	0.3	-	0.0	0.4	-0.4	-0.1	-0.3	-0.1	-0.4	-0.3	-0.3	-0.3	-	-	-	-	-
	13:28:00	0.3	-	0.0	0.1	0.5	0.5	0.1	0.5	0.7	0.3	0.4	0.5	-	-	-	-	-
	13:29:00	0.3	-	0.0	0.5	0.0	0.4	-0.1	0.4	0.1	0.0	-0.1	0.0	-	-	-	-	-
	13:30:00	0.4	-	0.0	-0.3	0.0	0.5	-0.2	0.5	0.1	-0.2	0.0	0.0	-	-	-	-	-
	13:31:00	0.4	-	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
	13:32:00	0.5	-	0.0	-0.4	-0.2	0.4	-0.1	0.4	-0.1	-0.1	-0.1	-0.1	-	-	-	-	-
13:33:00	0.5	-	0.0	0.2	0.2	0.1	0.2	0.2	0.0	0.0	0.2	0.0	-	-	-	-	-	
13:34:00	0.5	-	0.0	0.0	-0.2	0.3	-0.2	0.3	-0.3	-0.1	-0.2	-0.2	-	-	-	-	-	
13:35:00	0.6	-	0.0	0.4	-0.2	0.3	-0.2	0.3	-0.1	-0.2	-0.2	-0.2	-	-	-	-	-	
13:36:00	0.6	-	0.0	-0.1	0.0	0.4	-0.3	0.4	0.0	-0.1	-0.1	0.0	-	-	-	-	-	
13:37:00	0.6	-	0.0	0.3	-0.2	0.6	-0.1	0.6	-0.3	0.1	0.1	0.1	-	-	-	-	-	
13:38:00	0.7	-	0.0	-0.2	0.6	0.6	-0.1	0.6	0.1	-0.1	0.0	0.1	-	-	-	-	-	
13:39:00	0.7	-	0.0	-0.2	0.4	0.8	0.1	0.8	0.5	0.1	0.3	0.4	-	-	-	-	-	
13:40:00	0.8	-	0.0	0.0	0.0	0.6	-0.1	0.6	0.1	-0.1	0.0	0.0	-	-	-	-	-	
13:41:00	0.8	-	0.0	-0.2	0.3	0.6	0.0	0.6	0.3	-0.1	0.2	0.2	-	-	-	-	-	
13:42:00	0.8	-	0.0	-0.7	0.1	0.8	0.0	0.8	0.1	0.1	0.1	0.1	-	-	-	-	-	
13:43:00	0.8	-	0.0	0.6	-0.1	0.5	-0.3	0.5	-0.3	-0.2	-0.2	-0.2	-	-	-	-	-	
13:44:00	0.8	-	0.0	-0.3	0.1	0.7	-0.1	0.7	0.1	-0.1	0.0	0.0	-	-	-	-	-	
13:45:00	0.9	-	0.0	0.0	0.1	0.7	-0.2	0.7	0.2	-0.1	0.0	0.1	-	-	-	-	-	

  
 Firmado por: **RICHELME MOYA**  
 el 31/12/2020 a las 11:10:03 CLT

  
**MARCO BASILIO**  
 QUIPE CARDENAS  
 Ingeniero Mecánico Electricista  
 CIP Nº 232415  
 Firma del Representante de la Consultora  
**HAMEK INGENIEROS ASOCIADOS S.A.C.**

Firma del Representante del  
**COORDINADOR ELECTRICICO NACIONAL**

CENTRAL TERMOELÉCTRICA SAN ISIDRO I	PRUEBAS DE CONSUMOS ESPECIFICOS NETO DE UNIDADES GENERADORAS	UNIDAD CICLO COMBINADO - TG01 + TV02 / GAS NATURAL
-------------------------------------	--	---

REGISTRO DE VARIABLES PRIMARIAS

Dia: 29/12/2020

Carga	Hora	Temperatura (°C)	Humedad Relativa (%)	Presión (mbar)	Flujo de Gas Natural (m³/h)	Potencia TG Bruta (MW)	FDP TG Bruta	Potencia TV Bruta (MW)	FDP TV Bruta	Potencia TG Neta (MW)	Potencia TV Neta (MW)	Potencia CC Bruta (MW)	Potencia CC Neta (MW)	Potencia SSAA TG (kW)	Potencia SSAA TV (kW)	Potencia SSAA 11BJA01 TFA Edif Admin (kW)	Potencia SSAA 11BJC01 HVAC Edif Admin (kW)	Potencia SSAA 11BJC01 TFA Ampl Edif Admin (kW)	
355 MW	14:50:00	0.0	-	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	
	14:51:00	0.0	-	-0.1	0.3	0.0	-0.1	0.0	-0.1	0.1	-0.1	0.1	0.0	-	-	-	-	-	
	14:52:00	0.0	-	0.0	0.3	0.2	0.1	0.0	0.1	0.2	0.0	0.2	0.0	-	-	-	-	-	
	14:53:00	0.0	-	0.0	0.3	0.0	-0.1	-0.1	-0.1	0.0	-0.1	0.0	0.0	-	-	-	-	-	
	14:54:00	-0.1	-	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	-	-	-	-	-	
	14:55:00	-0.1	-	0.0	0.5	0.3	0.0	0.1	0.0	0.3	0.1	0.2	0.2	-	-	-	-	-	
	14:56:00	-0.1	-	0.0	0.3	0.3	0.0	0.2	0.0	0.3	0.1	0.3	0.2	-	-	-	-	-	
	14:57:00	-0.1	-	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	-	-	-	-	-	
	14:58:00	-0.2	-	0.0	0.9	-0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.1	-	-	-	-	-	
	14:59:00	-0.2	-	0.0	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-	-	-	-	-	
	15:00:00	-0.2	-	0.0	-0.1	-0.5	0.0	0.0	0.0	0.0	-0.5	0.0	-0.3	-0.3	-	-	-	-	-
	15:01:00	-0.2	-	0.0	0.1	0.1	0.0	-0.1	0.0	0.0	0.1	-0.1	0.0	0.1	-	-	-	-	-
	15:02:00	-0.2	-	0.0	-0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.1	0.2	0.1	-	-	-	-	-
	15:03:00	-0.1	-	0.0	-0.4	-0.3	0.0	0.0	0.0	-0.3	0.1	-0.2	-0.2	-0.2	-	-	-	-	-
	15:04:00	-0.1	-	0.0	-0.4	-0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	-	-	-	-	-
	15:05:00	-0.1	-	0.0	-0.7	-0.1	0.1	0.2	0.1	-0.1	0.1	0.0	-0.1	-0.1	-	-	-	-	-
	15:06:00	0.0	-	0.0	-0.4	-0.2	0.2	-0.2	0.2	-0.2	-0.1	0.1	0.0	0.0	-	-	-	-	-
	15:07:00	0.0	-	0.0	-0.2	-0.1	0.1	0.3	0.1	0.0	0.2	0.1	0.1	0.1	-	-	-	-	-
	15:08:00	0.0	-	0.0	-0.1	-0.1	0.1	0.1	0.3	0.1	-0.2	0.4	0.0	0.0	-	-	-	-	-
	15:09:00	0.0	-	0.0	-0.7	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	-	-	-	-	-
	15:10:00	0.1	-	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.3	0.1	0.2	0.2	-	-	-	-	-
	15:11:00	0.1	-	0.0	0.6	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	-	-	-	-	-
	15:12:00	0.1	-	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	-	-	-	-	-
	15:13:00	0.0	-	0.0	-0.2	-0.1	0.1	0.1	0.1	0.1	-0.1	0.1	0.0	0.0	-	-	-	-	-
	15:14:00	0.0	-	0.0	0.6	-0.1	0.1	0.1	0.1	-0.1	0.1	0.0	0.0	0.0	-	-	-	-	-
	15:15:00	0.0	-	0.0	0.3	-0.1	0.1	0.0	0.1	-0.1	0.0	-0.1	-0.1	-0.1	-	-	-	-	-
	15:16:00	0.0	-	0.0	-0.1	-0.3	0.0	0.1	0.0	0.0	-0.3	0.1	-0.1	-0.2	-	-	-	-	-
	15:17:00	0.0	-	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	-0.1	0.0	-0.1	-0.1	-	-	-	-	-
	15:18:00	0.0	-	0.0	-0.4	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	-	-	-	-	-
	15:19:00	-0.1	-	0.0	0.6	-0.2	0.0	0.0	0.0	-0.2	0.0	-0.2	0.0	-0.2	-	-	-	-	-
	15:20:00	-0.1	-	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-0.1	0.5	-0.2	0.3	0.3	-	-	-	-	-
	15:21:00	-0.1	-	0.0	0.3	-0.2	-0.1	0.0	-0.1	-0.2	0.0	-0.2	0.0	-0.2	-	-	-	-	-
	15:22:00	-0.1	-	0.0	0.3	0.1	-0.1	0.2	0.2	-0.1	0.0	0.2	0.1	0.1	-	-	-	-	-
	15:23:00	-0.1	-	0.0	-0.3	-0.5	-0.2	-0.2	-0.2	-0.5	-0.2	-0.4	-0.4	-0.4	-	-	-	-	-
	15:24:00	-0.1	-	0.0	-0.2	0.1	-0.2	0.0	-0.2	0.1	0.0	0.0	0.0	0.1	-	-	-	-	-
	15:25:00	0.0	-	0.0	0.6	0.5	-0.1	-0.1	-0.1	0.5	-0.2	0.3	0.3	0.3	-	-	-	-	-
	15:26:00	0.0	-	0.0	-0.2	0.3	0.0	0.1	0.0	0.3	0.1	0.2	0.2	0.2	-	-	-	-	-
	15:27:00	0.0	-	0.0	0.2	-0.2	0.1	-0.1	0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-	-	-	-	-
	15:28:00	0.0	-	0.0	0.4	0.1	0.0	0.1	0.1	0.4	-0.1	0.2	0.2	0.2	-	-	-	-	-
	15:29:00	0.0	-	0.0	-0.1	0.2	-0.4	-0.1	-0.4	0.1	0.0	0.1	0.1	0.1	-	-	-	-	-
15:30:00	0.0	-	0.0	-0.3	-0.2	0.0	-0.3	0.0	-0.2	-0.2	-0.2	-0.2	-0.2	-	-	-	-	-	
15:31:00	0.1	-	0.0	0.2	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	-	-	-	-	-	
15:32:00	0.1	-	0.0	-0.7	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	-	-	-	-	-	
15:33:00	0.1	-	0.0	-0.8	0.4	0.1	0.0	0.1	0.4	0.0	0.3	0.3	0.3	-	-	-	-	-	
15:34:00	0.1	-	0.0	0.4	0.2	0.0	-0.1	0.0	0.2	0.0	0.1	0.1	0.1	-	-	-	-	-	
15:35:00	0.1	-	0.0	0.1	-0.1	0.0	-0.1	0.0	-0.1	-0.2	-0.1	-0.1	-0.1	-	-	-	-	-	
15:36:00	0.1	-	0.0	-0.1	0.0	0.0	0.0	0.0	-0.2	0.1	-0.1	-0.1	-0.1	-	-	-	-	-	
15:37:00	0.2	-	0.0	-0.7	-0.2	0.2	0.0	0.2	-0.2	0.0	-0.2	-0.2	-0.2	-	-	-	-	-	
15:38:00	0.2	-	0.0	-0.2	0.1	0.1	-0.2	0.1	0.1	-0.2	0.0	0.0	0.0	-	-	-	-	-	
15:39:00	0.2	-	0.0	0.3	0.4	0.0	0.0	0.0	0.4	0.0	0.3	0.3	0.3	-	-	-	-	-	
15:40:00	0.2	-	0.0	-0.8	-0.1	-0.1	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	-0.1	-	-	-	-	-	
15:41:00	0.2	-	0.0	-0.3	0.2	0.0	0.1	0.0	0.2	0.1	0.2	0.2	0.2	-	-	-	-	-	
15:42:00	0.2	-	0.0	0.1	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.1	0.1	0.1	-	-	-	-	-	
15:43:00	0.1	-	0.0	0.8	0.3	0.1	-0.2	0.1	0.2	0.2	-0.1	0.1	0.1	-	-	-	-	-	
15:44:00	0.1	-	0.0	0.2	-0.3	0.0	-0.2	0.0	-0.3	-0.2	-0.3	-0.3	-0.3	-	-	-	-	-	
15:45:00	0.1	-	0.0	0.1	-0.1	0.0	-0.3	0.0	-0.1	-0.3	-0.1	-0.1	-0.1	-	-	-	-	-	
15:46:00	0.1	-	0.0	1.0	0.2	0.1	-0.1	0.1	0.2	0.0	0.1	0.1	0.1	-	-	-	-	-	
15:47:00	0.0	-	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	
15:48:00	0.0	-	0.0	0.3	0.0	0.1	0.1	-0.1	0.1	0.3	-0.1	-0.1	-0.1	-	-	-	-	-	
15:49:00	0.0	-	0.0	-0.2	-0.1	-0.3	-0.1	-0.3	-0.2	0.0	-0.1	-0.1	-0.1	-	-	-	-	-	
15:50:00	0.0	-	0.0	-0.4	-0.4	-0.4	-0.4	-0.3	-0.4	-0.3	-0.3	-0.3	-0.3	-	-	-	-	-	

  
 Firmado por: Firma del Representante de ENEL GENERACION S.A.  
 el 31/12/2020 a las 01:16:03 CLT

  
 MARCO BASILIO  
 QUISPE CARDENAS  
 Ingeniero Mecánico-Electricista  
 Firma de Responsables de Consultora  
 HAMEK INGENIEROS ASOCIADOS S.A.C.

Firma del Representante del  
 COORDINADOR ELECTRICO NACIONAL

**ANEXO C**

Registros de Variables Secundarias.

Se adjunta en versión digital

**ANEXO D**

Certificados de Calibración de los Instrumentos de Medición

Los certificados de calibración son las presentadas en el protocolo de pruebas

**ANEXO E**  
Curvas de Corrección.

Las curvas de corrección son las presentadas en el  
protocolo de pruebas

**ANEXO F**  
Información Adicional.

## INTERNAL

	% molar hexano	% molar CO2	% molar Etano	% molar Isobutano	% molar isopentano	% molar Metano	% molar normal Pentano	% molar Nitrógeno	% molar Neopentano	% molar Isobutano	% molar Propano	Poder calorífico Inferior	Poder calorífico Superior
	%	%	%	%	%	%	%	%	%	%	%	kcal/m3	kcal/m3
21/Dic/20 10:15:00	0.00	-	3.54	0.02	0.00	96.05	0.00	0.13	-	0.02	0.22	8,378.88	9,296.10
21/Dic/20 11:30:00	0.00	-	3.57	0.02	0.00	96.02	0.00	0.13	-	0.02	0.22	8,381.92	9,299.37
28/Dic/20 16:30:00	0.00	-	3.53	0.02	0.00	96.05	0.00	0.15	-	0.02	0.22	8,377.29	9,294.35
29/Dic/20 13:15:00	0.00	-	3.76	0.03	0.00	95.84	0.00	0.10	-	0.03	0.24	8,398.96	9,317.73
29/Dic/20 15:20:00	0.00	-	3.65	0.02	0.00	95.96	0.00	0.10	-	0.02	0.23	8,390.05	9,308.16