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GRUPO MERCADOS ENERGÉTICOS CONSULTORES

INFORME DE DETERMINACIÓN DE POTENCIA MÁXIMA

Parque Eólico Cerro Tigre



Noviembre 2022

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Abreviaturas y acrónimos

CEN	Coordinador Eléctrico Nacional
CNE	Comisión Nacional de Energía
ERNC	Energía Renovables No Convencional
NTSyCS	Norma Técnica de Seguridad y Calidad de Servicio
NT SSMM	Norma Técnica de Seguridad y Calidad de Servicio para Sistemas Medianos
PE	Parque Eólico
SE	Subestación Eléctrica
AT	Alta tensión
MT	Media tensión
BT	Baja tensión
ONAN	Oil Natural Air Natural
ONAF	Oil Natural Air Forced
SEN	Sistema Eléctrico Nacional
RCB	Regulador Bajo Carga
PMU	Power Management Unit



REGISTRO DE COMUNICACIONES

Registro de las actividades, comunicaciones y aprobación de informes.

Número	Fecha dd/mm/año	Objeto	Ref	Observaciones	Responsable
1	14/01/2021	Emisión original	V1	Preparó EA - BL	FM
2	18/07/2022	Respuesta a observaciones - registros de 3 aerogeneradores faltantes	V2	Preparó EA	FM
3	30/11/2022	Se agrega tabla con detalle de potencias y pérdidas	V3	Preparó EA	FM

SECCIÓN PRINCIPAL

1. INTRODUCCIÓN

En el presente informe se exhiben los resultados obtenidos en los ensayos de campo realizados en el Parque Eólico Cerro Tigre, durante los días 13 y 14 de diciembre de 2021, en relación al proceso de determinación de los parámetros de potencia máxima de la planta.

Los ensayos fueron realizados encontrándose en servicio 41 de los 44 aerogeneradores que conforman la totalidad del parque (WT 21, 22 y 78 fuera de servicio). La potencia disponible al momento de las pruebas fue de 172,2 MW de un total de 184,8 MW.

El día 07/05/2022 se complementaron los registros con mediciones de las unidades 21, 22 y 78 a máxima potencia.

1.1. Marco normativo

Las pruebas realizadas se programaron en base al ANEXO TÉCNICO de la NTSyCS “Pruebas de Potencia Máxima en Unidades Generadoras”. En particular es de aplicación el Artículo 39 “Potencia Máxima en unidades generadoras cuya fuente es renovable no convencional sin capacidad de regulación” del TÍTULO VIII – CENTRALES CUYA FUENTE ES RENOVABLE NO CONVENCIONAL” al tratarse de una planta de ERNC sin capacidad de almacenamiento de energía. En tal sentido, el valor de Potencia Máxima se obtiene a partir de registros de operación y mediciones de los recursos naturales que inciden en la operación de estas tecnologías, especificándose las metodologías, cálculos y todos los antecedentes y aspectos técnicos usados para la obtención de dicho valor.

1.2. Descripción de la planta

El PE Cerro Tigre se encuentra ubicado a 65 km al suroeste de la ciudad de Antofagasta, en la región homónima de Chile. Está compuesto por 44 aerogeneradores de 4,2 MW marca Vestas, clase **V117-4.0/4.2 MW Strong Wind**, modelo **V117-4.2 MW IEC S / IEC IIA 50/60 Hz Power Optimized Mode (PO1)**, totalizando una potencia de 184,8 MW.

El punto de conexión del parque eólico corresponde a las barras de 220 kV de la SE Cerro Tigre y la vinculación al SEN se realiza a través de una línea de transmisión 1 x 220 kV de 12,7 km de longitud que une las SE Cerro Tigre y Farellón.

La distribución en media tensión se realiza mediante un sistema colector en 33 kV formado por 11 circuitos que recolectan la potencia de los aerogeneradores, y que acometen a la barra de 33 kV del transformador de potencia de 230/33 kV y 200 MVA (ONAF) de la SE Cerro Tigre.

En el Gráfico 1 se presenta un esquema unilineal de la zona de influencia, en el Gráfico 2 un esquema unilineal de la SE Cerro Tigre, y por último, en los Gráficos 3 a 5 se detalla el esquema unilineal del sistema colector en 33 kV.

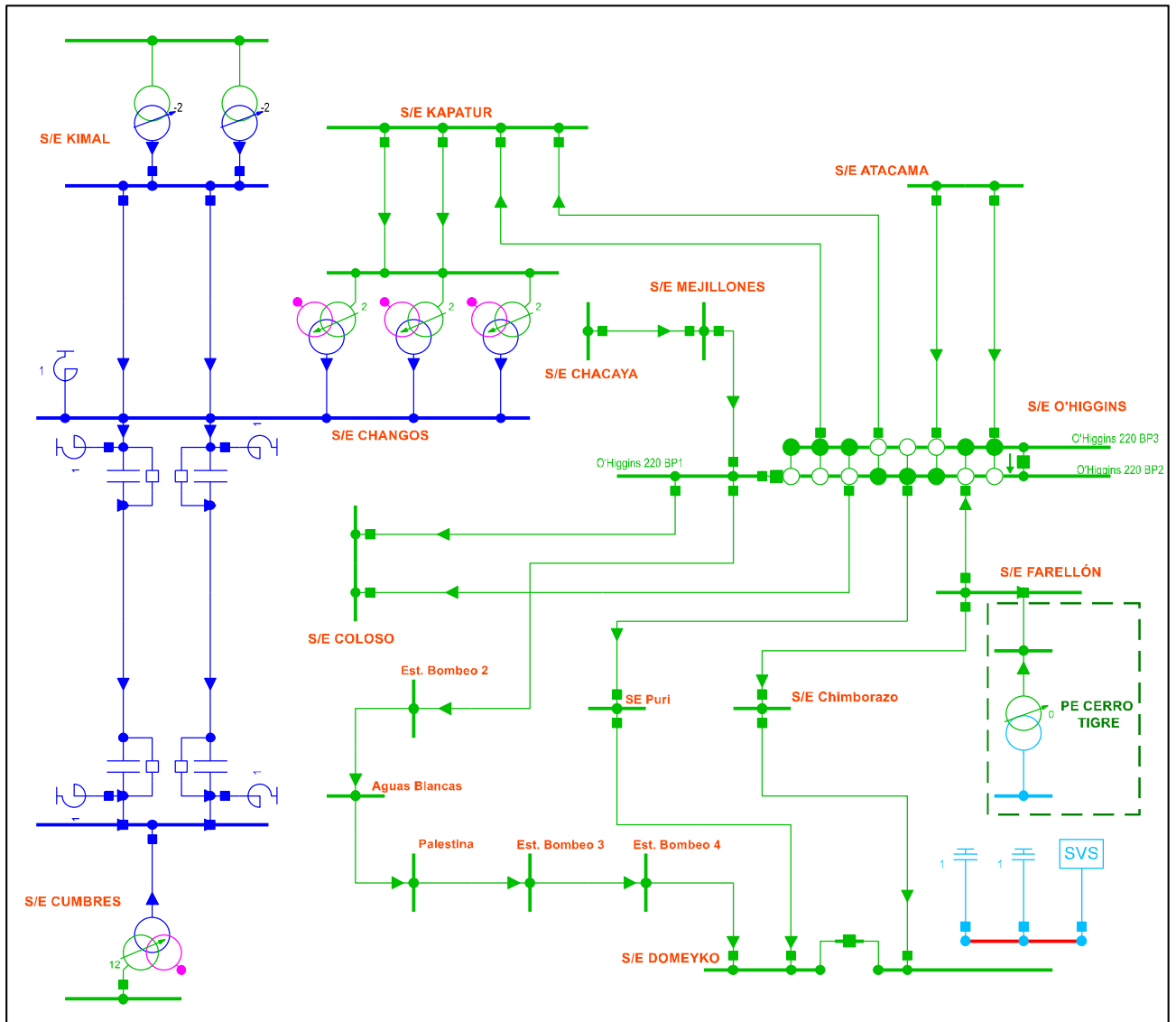


Gráfico 1. Esquema unilíneal de la zona de influencia del PE Cerro Tigre.

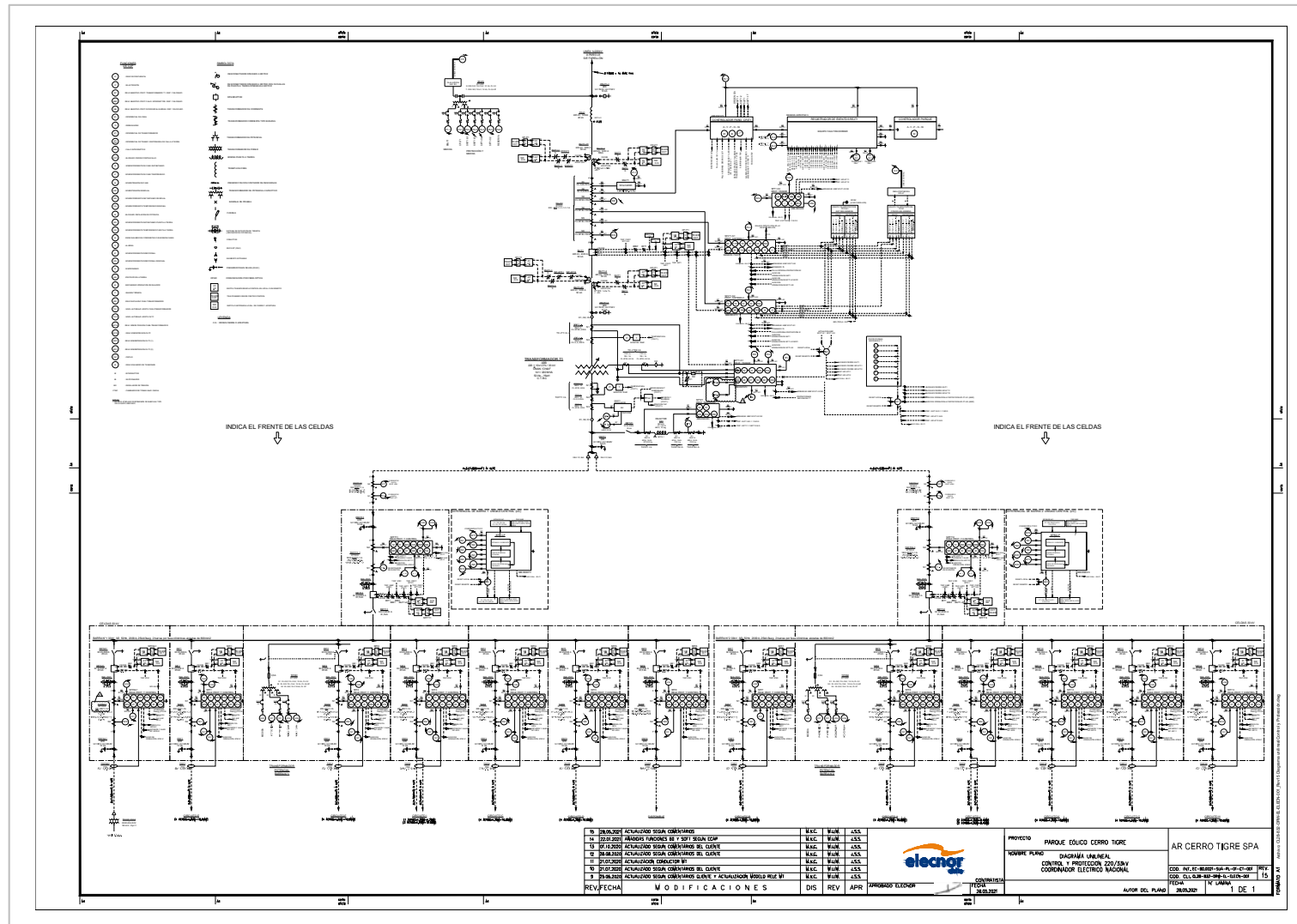


Gráfico 2. Esquema unilínea de la SE Cerro Tigre.

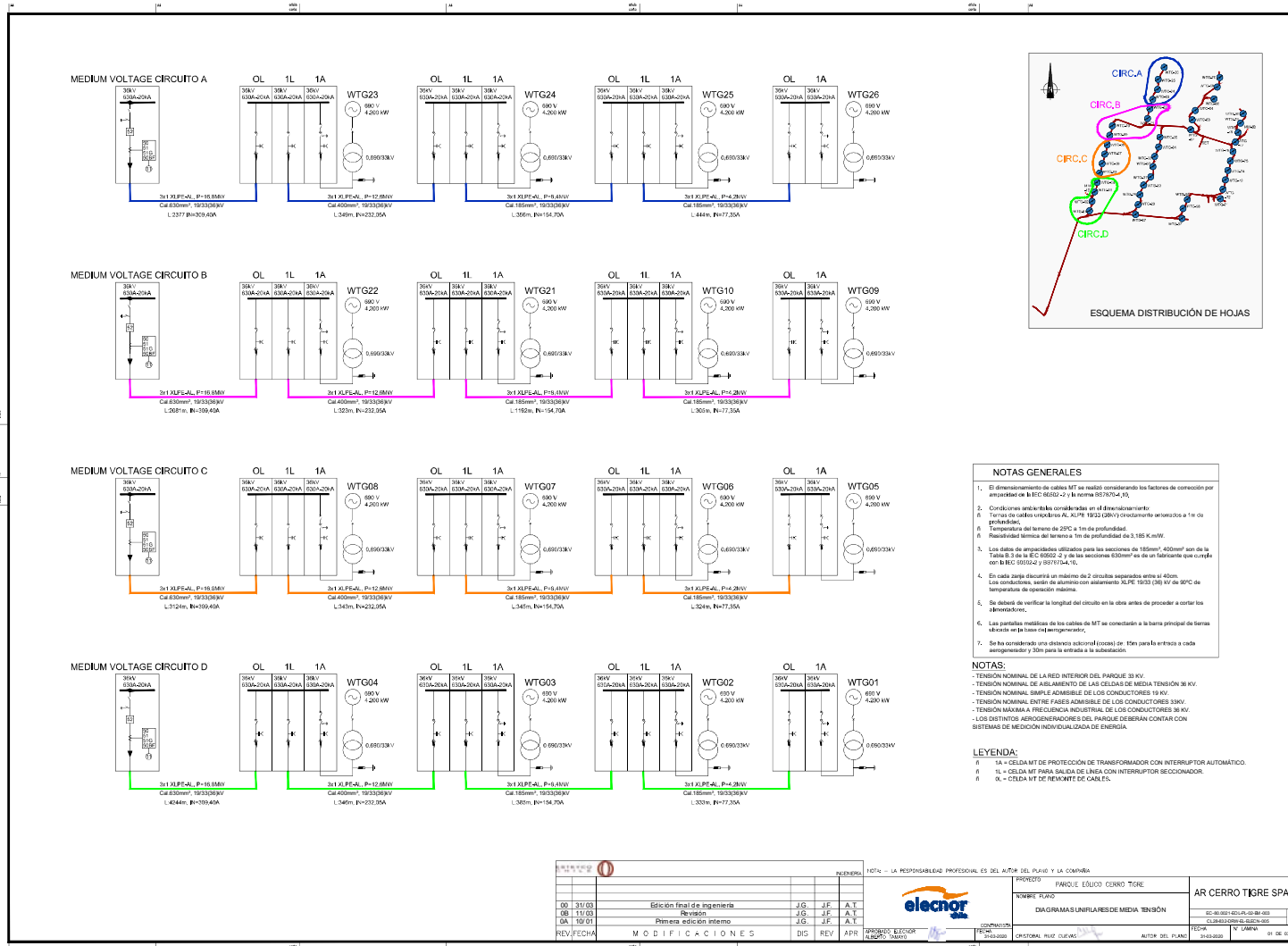


Gráfico 3. Esquema unilíneal del sistema colector en 33 kV. 1 de 3.

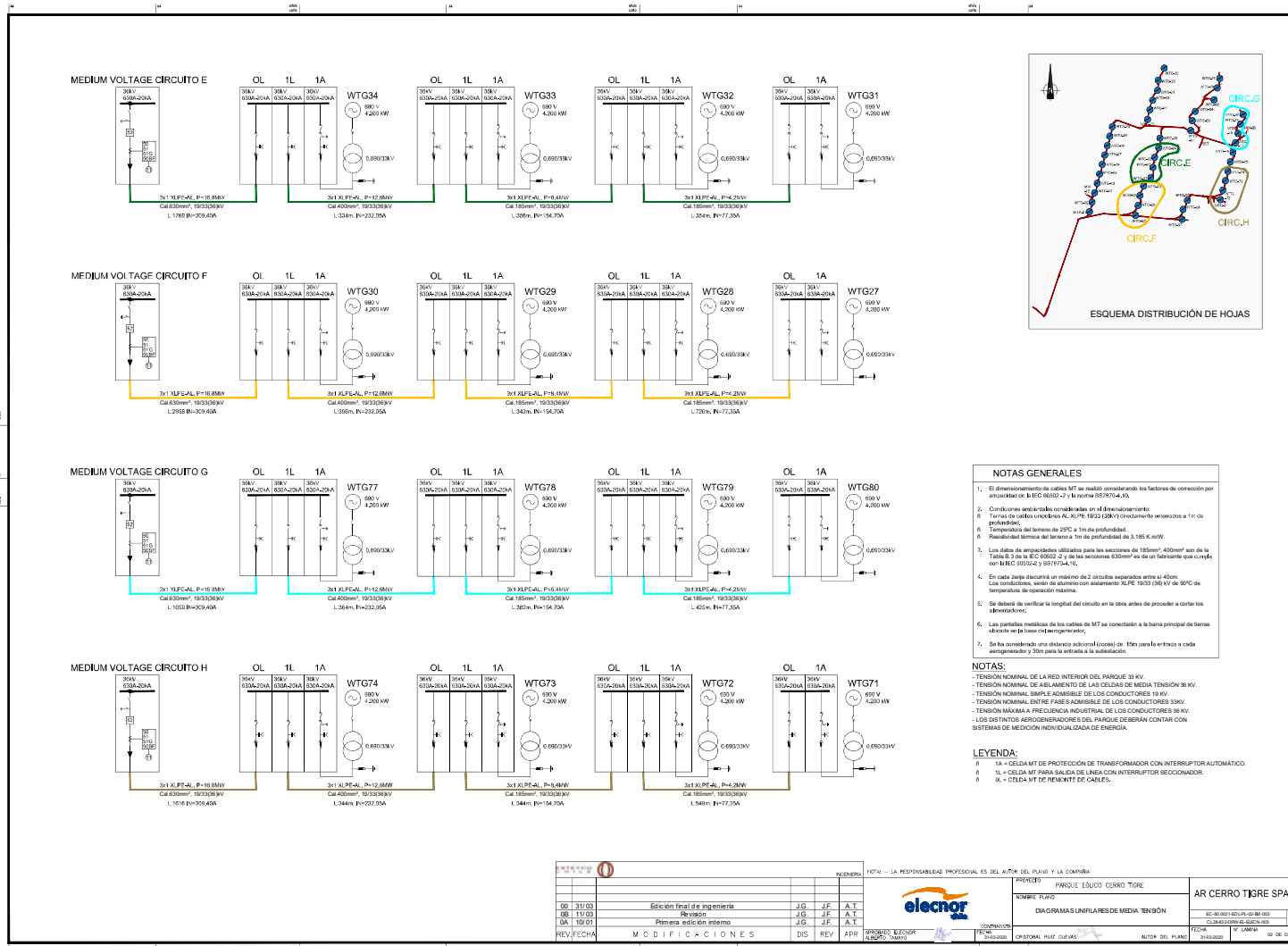


Gráfico 4. Esquema unilíneal del sistema colector en 33 kV. 2 de 3.

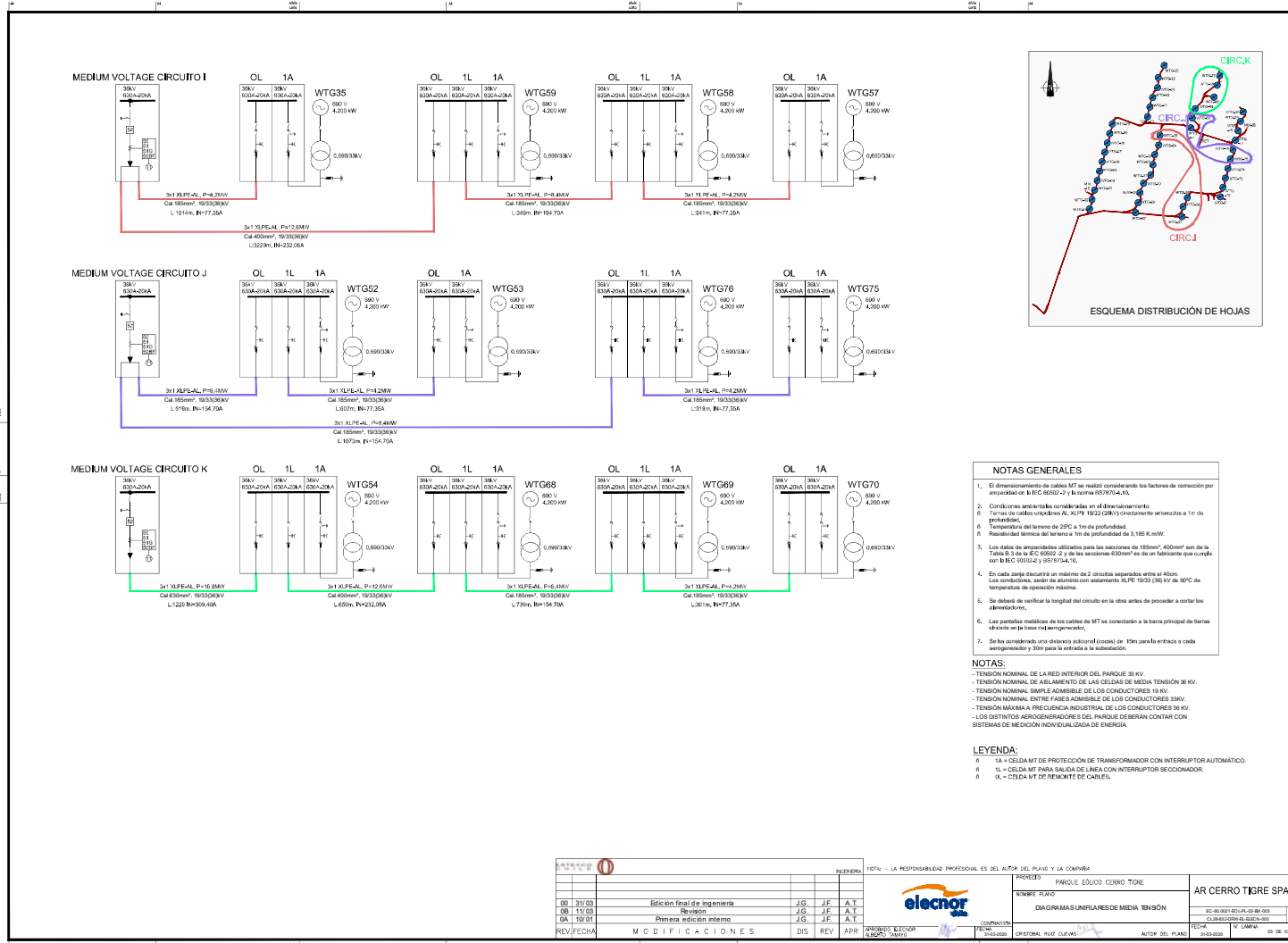


Gráfico 5. Esquema unilineal del sistema colector en 33 kV. 3 de 3.

Los aerogeneradores son de velocidad variable del tipo DFIG (Doubly Fed Asynchronous Generator). Cada unidad cuenta con un transformador de bloque de 0,72/33 kV y 5150 kVA.

En el Gráfico 6 se presenta la curva de capacidad correspondiente al modelo de aerogenerador descrito.

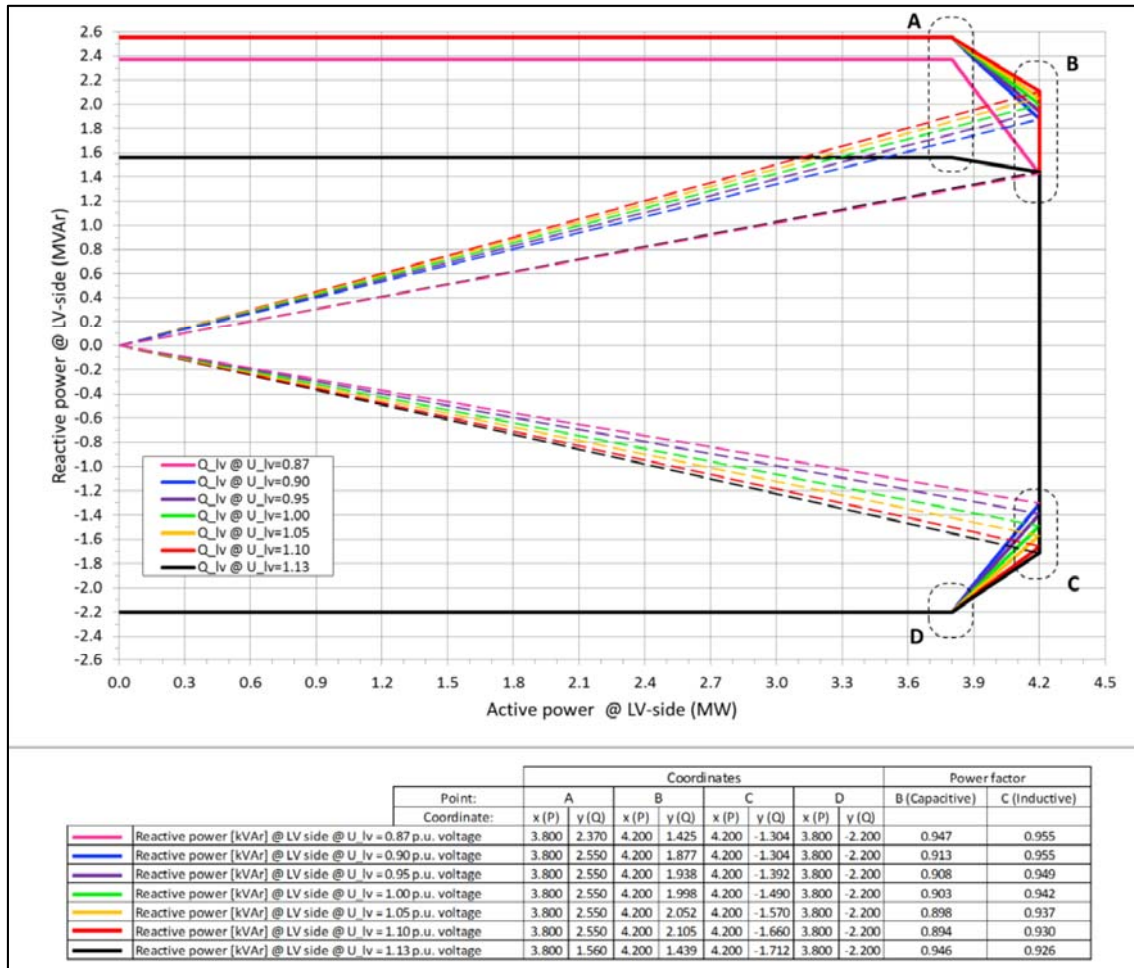


Gráfico 6. Curva de capacidad WTG Vestas V117-4.2 MW.

1.3. Descripción del control de planta y funcionalidades

El control del PE Cerro Tigre se realiza a través de un único PPC (Power Plant Controller) de Vestas mediante el sistema SCADA, siendo la barra de control del parque la situada eléctricamente en la barra de 220 kV de la SE Cerro Tigre.

En el siguiente gráfico se presenta un esquema del punto de medición (POM) y control del parque.

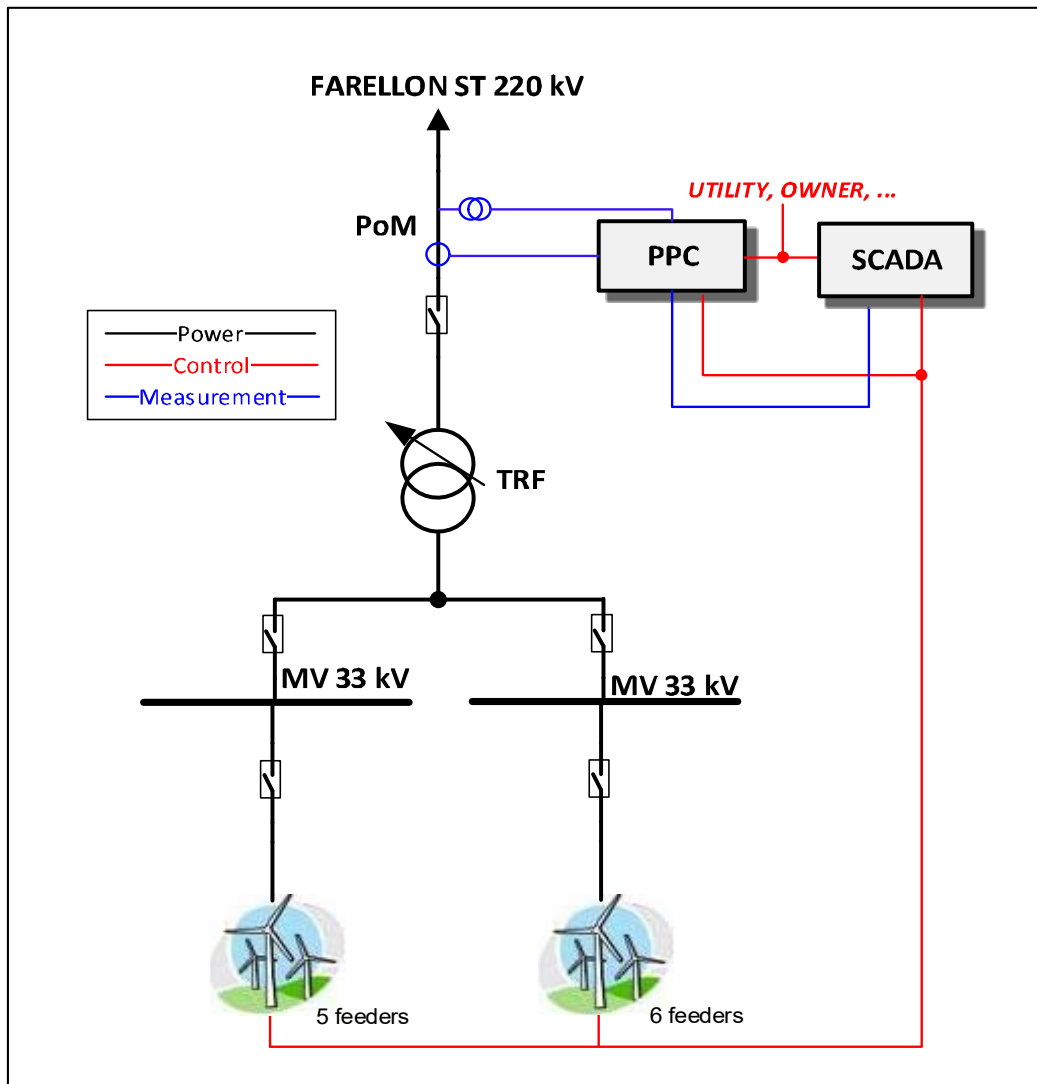


Gráfico 7. Esquema de control y medición del PE Cerro Tigre.

Por otro lado, el control de planta posee las siguientes funcionalidades:

- Funciones de control de potencia activa:
 - Control de potencia activa 0-100%.
 - Control de frecuencia.
- Funciones de control de potencia reactiva:
 - Control de tensión.
 - Control de potencia reactiva.
 - Control de factor de potencia.

El PPC envía las consignas de potencia activa y reactiva a los aerogeneradores. Además, el sistema SCADA permite enviar consignas de potencia activa y potencia reactiva individualmente a cada aerogenerador sin la participación del control del PPC (PPC desactivado).

1.3.1. Funciones de control de potencia activa

El PPC podrá operar en dos modos diferentes de control:

- **Control de potencia activa de 0-100%:** permite ajustar la consigna de potencia activa a un valor determinado. Si se activa la función de limitación de rampa, tanto la rampa de bajada como de subida o toma de carga quedarán limitadas a una tasa de crecimiento determinada (en %/min). Si la función está desactivada, la reducción y la toma de carga se harán a una tasa que estará dada por la pendiente natural de los aerogeneradores (PrampLimit).

Con respecto al valor máximo de potencia activa, corresponde al 100% de la potencia nominal de la planta (184,8 MW).

La configuración sugerida por el fabricante y la limitación en el control de potencia activa se muestra a continuación:

Tabla 1. Valores máximos de pendiente y consigna de potencia activa.

P_{ref} maximum	184.8 MW
P_{ramp} limit (internal)	0.02 pu/s

A nivel PPC la tasa sugerida por defecto en este documento se muestra a continuación:

Tabla 2. Valores sugeridos de pendiente para la función limitación de rampa.

Active power output ramp	36960 kW/min (0.2 pu/min)
---------------------------------	---------------------------

Cabe aclarar que el PE Cerro Tigre posee una tasa ajustada en 20 %/min, cumpliendo con lo exigido por la normativa NTSyCS.

- **Control de frecuencia:** esta función contempla la respuesta de la potencia activa en función a las fluctuaciones de frecuencia respecto a la frecuencia nominal (50 Hz). La respuesta del parque estará dada por una curva de potencia frecuencia que posee una pendiente y una banda muerta. En los siguientes gráficos y tablas se detallan las curvas características y parametrización para ambos modos de control.

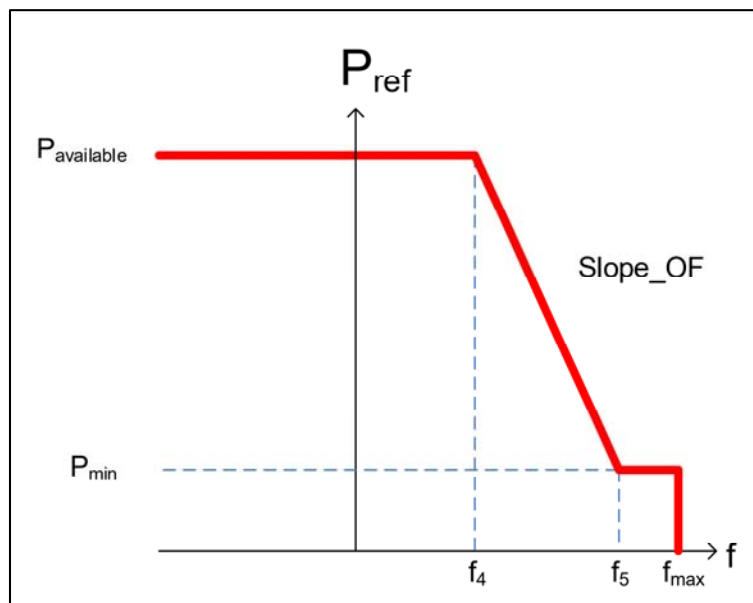


Gráfico 8. Característica LFSM-O.
Tabla 3. Parametrización del modo LFSM-O.

f4	50.2 Hz
fmax	52 Hz
f5	51.5 Hz
Pmin	28.5% of Pavailable
Slope_OF	3.64%
P ramp rate limit (default)	0.02 pu/s

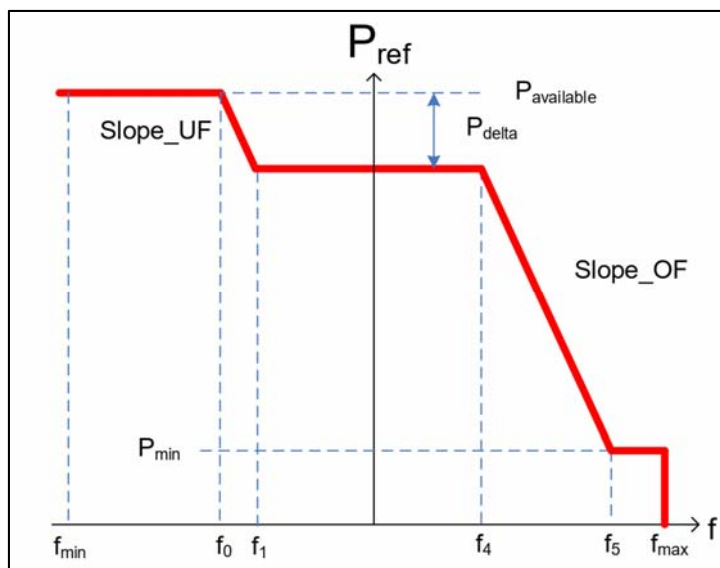


Gráfico 9. Característica FSM-O-U.

Tabla 4. Parametrización del modo FSM-O-U.

fmin	48 Hz
f0	$(f1 - (Pdelta [\%] \times Slope_UF / 100 / 100 \times 50))$ Hz
f1	49.8 Hz
SLOPE_UF	3.64%
Pdelta	Defined by WPP Operator or TSO (default: 3%)
f4	50.2 Hz
fmax	52 Hz
f5	51.5 Hz
Pmin	$((100 - 100 \times (f5 - f4) / 50 \times 100 / Slope_OF) \%) - Pdelta \%$
SLOPE_OF	3.64%
P ramp rate limit (default)	0.02 pu/s

El modo que se encuentra configurado en el parque es el modo LFSM-0.

1.3.2. Funciones de control de potencia reactiva

- **Control de tensión PI:** permite definir un valor de consigna de tensión en el punto de control. Mediante un controlador de tipo proporcional-integral (PI), el control envía consignas de potencia reactiva a los aerogeneradores para mantener la tensión en la barra controlada en el valor especificado, reduciendo el error entre la tensión medida y la consigna o referencia a un valor de 0.
- **Control de potencia reactiva:** permite definir un valor de consigna de potencia reactiva en el punto de conexión, la cual es distribuida entre todas las unidades.

Según la información provista por el fabricante, los límites máximos de potencia reactiva son los siguientes:

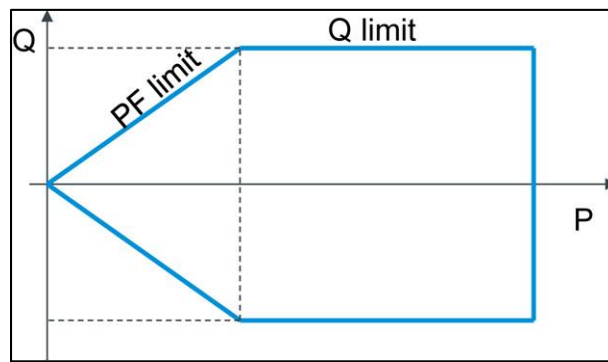


Gráfico 10. Límite PQ del control de potencia reactiva.

Tabla 5. Configuración de los límites PQ del control de potencia reactiva.

PF limit capacitive	0.51
PF limit inductive	0.83
Q limit capacitive	60.8 MVar
Q limit inductive	60.8 MVar
Q _{ref} ramp rate limit	0.1 pu/s

Tabla 6. Tiempos asociados a la dinámica del control de potencia reactiva.

T ₀	Typical performance around 0.2 s
T _{rise}	3 s
T ₂	< 5 s

- **Control de factor de potencia:** permite definir un valor de consigna de factor de potencia en el punto de conexión, controlando la inyección de potencia reactiva para mantenerlo constante. Los límites de este modo de control están asociados a los correspondientes al control de potencia reactiva.

1.4. Antecedentes de unidades de similares características

El parque eólico presentó parámetros de desempeño equivalentes a parques eólicos de similares características tecnológicas, como, por ejemplo:

- PE Sierra Gorda Este.
- PE San Juan.

1.5. Descripción de las pruebas

La prueba se realizó en un lapso en el cual el recurso primario se mantuvo aproximadamente invariable, en las condiciones más cercanas a las nominales posibles, en cumplimiento con el Artículo 39 “Potencia Máxima en unidades generadoras cuya fuente es renovable no convencional sin capacidad de regulación” al tratarse de una planta de ERNC sin capacidad de almacenamiento de energía. La potencia máxima se obtuvo a partir de registros de operación y mediciones del recurso natural que incide en esta tecnología durante el día 13 de diciembre del 2021, incluyendo los antecedentes técnicos y los cálculos usados para obtener el valor. En el Anexo1 (adjunto con este informe) se detallan los valores registrados.

2. RESULTADOS OBTENIDOS

2.1. Registros

Se obtuvieron registros de potencia activa en el punto de conexión de la planta (barra de 220 kV de la SE Cerro Tigre (Gráfico 11), sumatoria de potencia activa de los aerogeneradores del parque (Gráfico 12) y la velocidad de viento en los aerogeneradores (Gráfico 13).

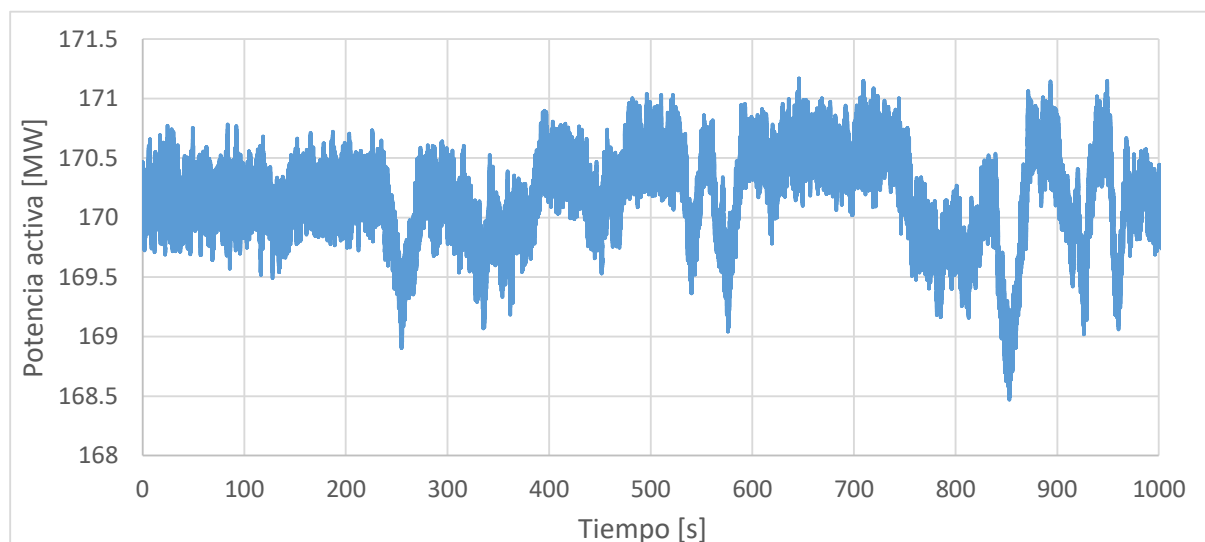


Gráfico 11. Potencia activa en el punto de conexión (Potencia neta medida).

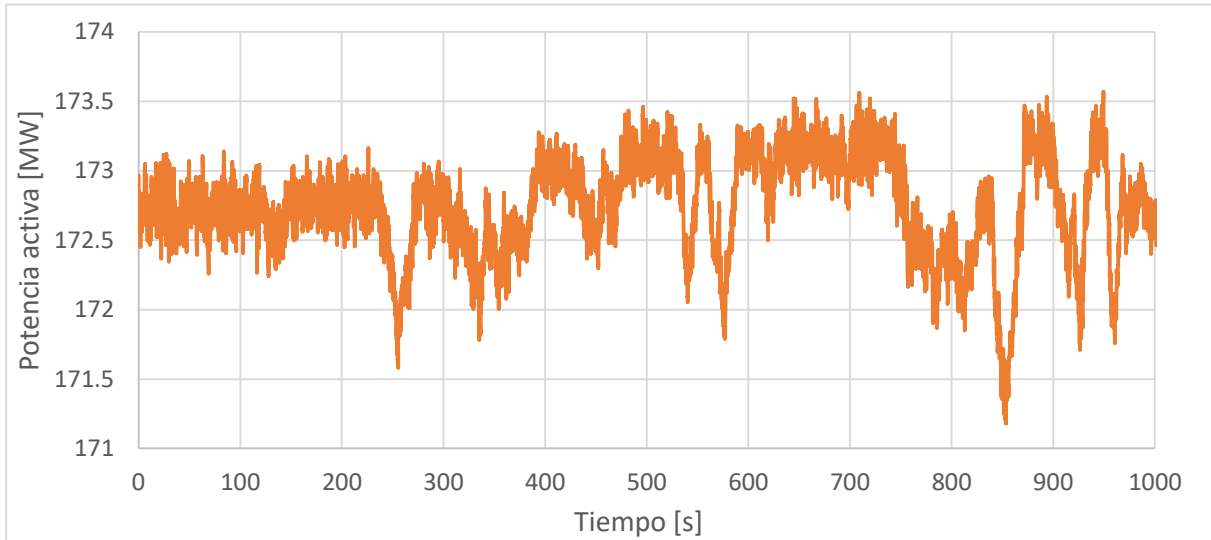


Gráfico 12. Potencia activa, sumatoria de los aerogeneradores (Potencia bruta medida).

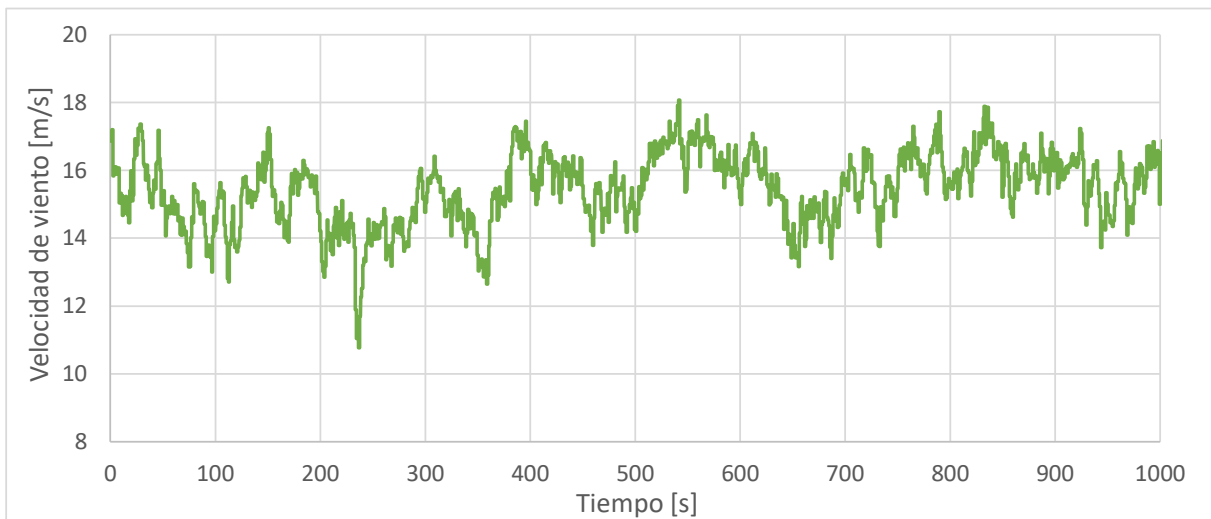


Gráfico 13. Velocidad de viento promedio en los aerogeneradores.

A partir de este registro, se observa una potencia neta promedio de 170,2 MW y una potencia bruta promedio de 172,8 MW para una velocidad de viento promedio de 15,5 m/s.

2.2. CURVA DE POTENCIA DEL AEROGENERADOR

A partir de los registros de velocidad y potencia individuales de un aerogenerador (WTG71), se verificó la curva de potencia - velocidad, registrando estos valores y contrastándola con la curva teórica del aerogenerador. El resultado se muestra en el siguiente gráfico:

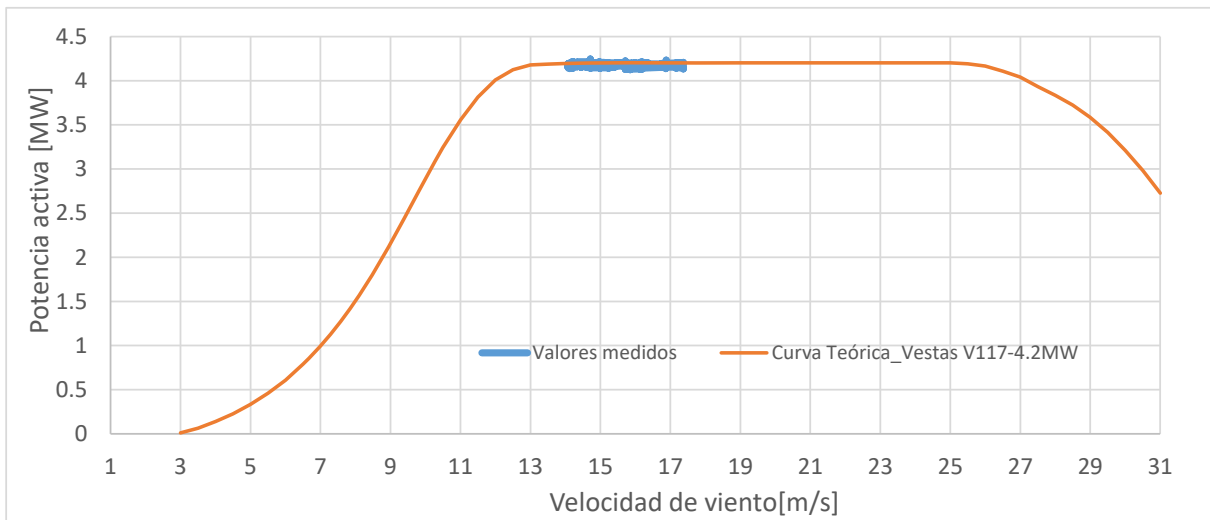


Gráfico 14. Curva de potencia velocidad para el aerogenerador WTG71.

Del gráfico se ve un resultado esperado en la potencia bruta para el aerogenerador seleccionado. Esto da idea de que, en caso de estar todos los aerogeneradores en servicio, se puede llegar a una potencia máxima, con la velocidad de viento existente en el momento de los ensayos.

Debido a que no se encontraban todos los aerogeneradores en servicio, se determina la potencia neta máxima del parque mediante simulación en Power Factory, utilizando el correspondiente modelo homologado. En el siguiente gráfico, puede observarse que, en caso de que estuviesen todos los aerogeneradores en servicio, es posible obtener una potencia neta máxima igual a 182,05 MW.

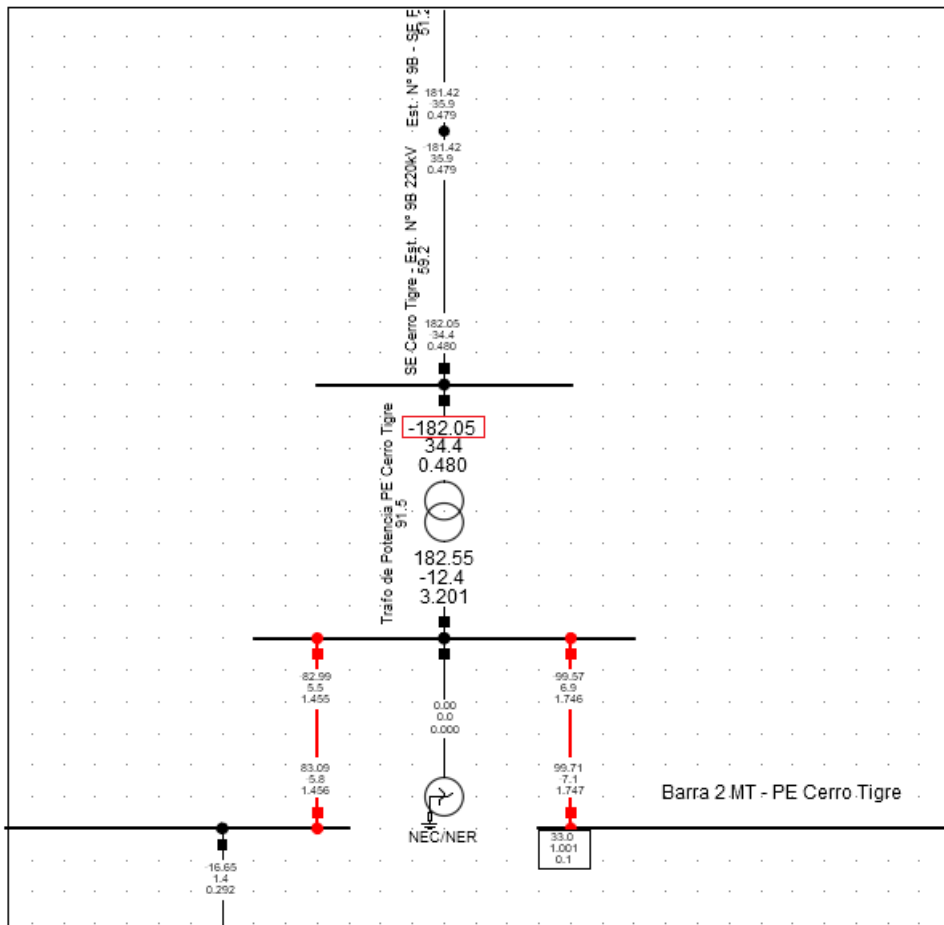


Gráfico 15. Determinación de la potencia neta máxima mediante Power Factory.

Así mismo la potencia bruta máxima será la potencia máxima asegurada en bornes de aerogenerador. Como el PE Cerro Tigre posee aerogeneradores con una potencia nominal de 4.2 MW, es posible calcular la potencia bruta máxima de la siguiente manera:

$$P_{bruta} = 44 \times 4,2 \text{ MW} = 184,8 \text{ MW}$$

2.3. Pérdidas y consumos propios

Las componentes que generan pérdidas respecto a la potencia bruta generada en el parque se pueden enumerar a continuación:

- Red de media tensión (circuitos colectores en 33 kV + transformadores de bloque de los aerogeneradores).
- Transformador de potencia de la subestación.
- Servicios auxiliares (aerogeneradores + subestación).

Para poder calcular las pérdidas de los elementos anteriores se procede a considerar una simulación estática (flujo de potencia) en el software PowerFactory, tomando el modelo empleado en el estudio de validación.

2.3.1. Cálculos de pérdidas asociadas al transformador de potencia de la SE Cerro Tigre.

Considerando la simulación de flujo de potencia teniendo en cuenta el estado de todos los

aerogeneradores que conforman el parque en servicio, se pueden determinar las pérdidas de potencia asociadas al transformador elevador de la SE Cerro Tigre, como la diferencia entre la potencia que recibe la barra colectora de 33 kV y la potencia en el lado de 220 kV del transformador. Esto último puede visualizarse en el Gráfico 15.

La potencia de pérdidas en el transformador, se calculan de la siguiente manera:

$$P_{trafo} = 182,55 \text{ MW} - 182.05 \text{ MW} = 500 \text{ kW}$$

En el siguiente gráfico se pueden observar los datos del transformador modelado.

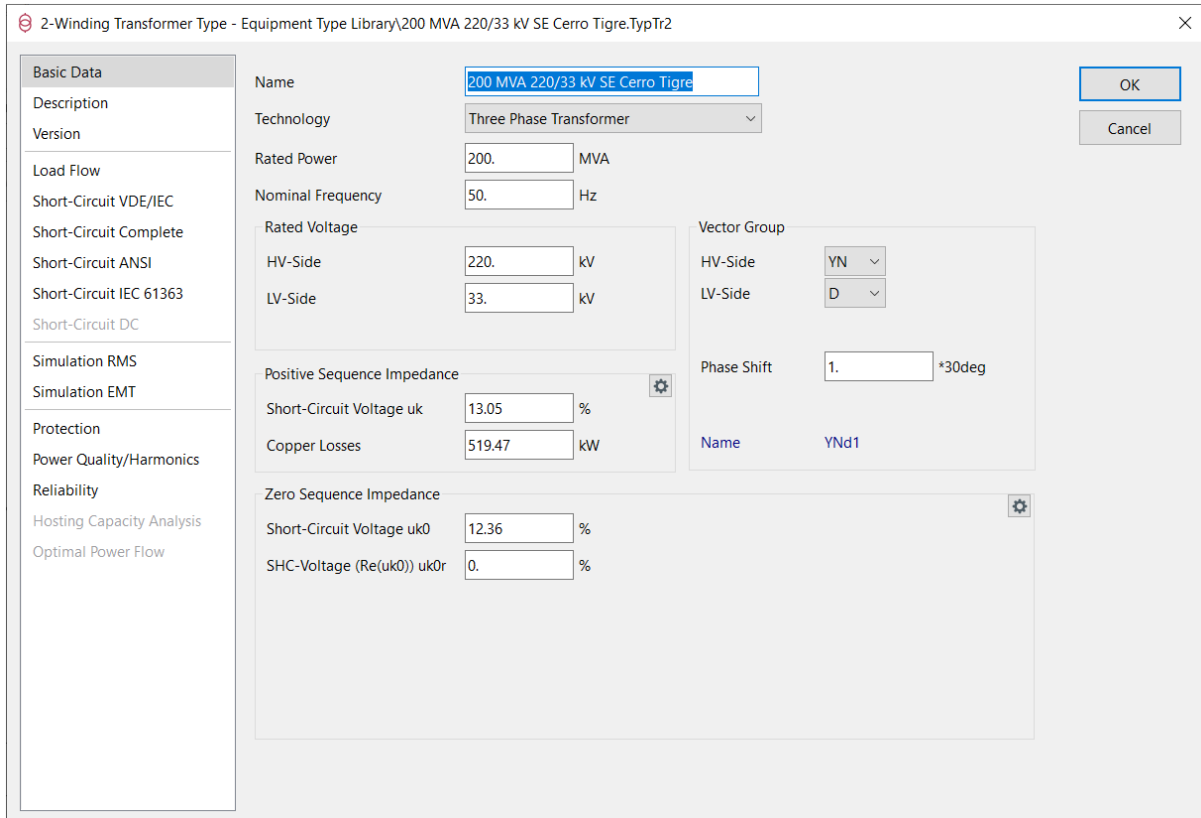


Gráfico 16. Modelado del transformador de potencia de la SE Cerro Tigre.

2.3.2. Potencia inyectada en la barra de MT

La potencia inyectada en la red de MT se determina mediante flujo de potencia, considerando la condición de máxima potencia generada. En los siguientes gráficos se muestra el resultado obtenido.

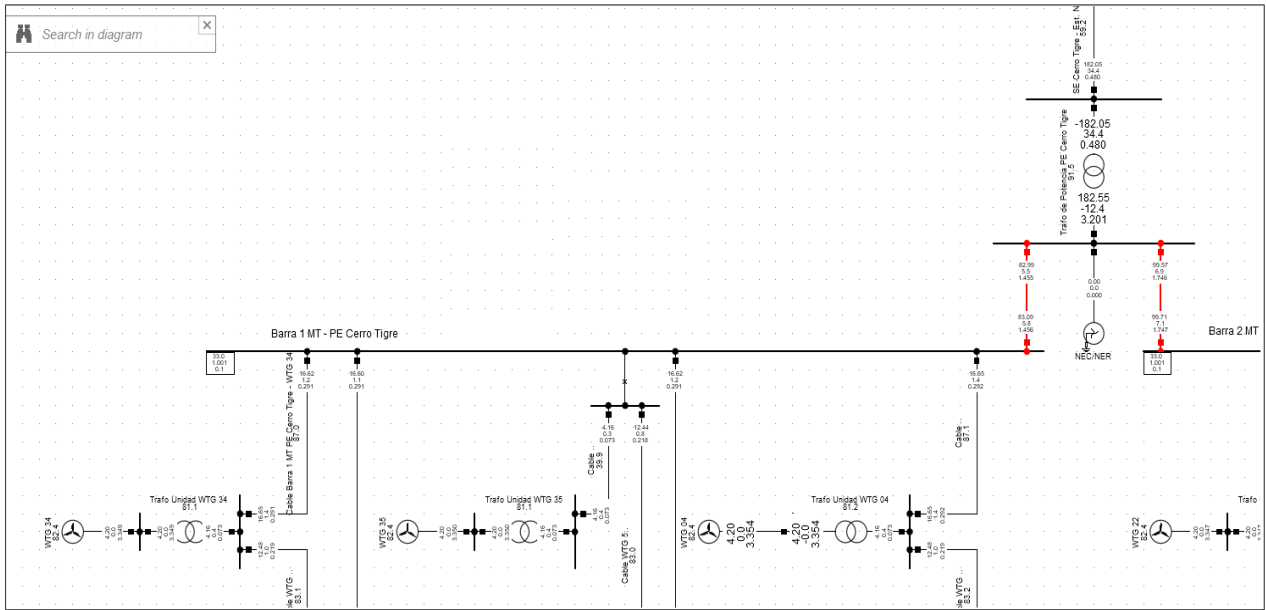


Gráfico 17. Aporte de máxima potencia en MT (parte 1)

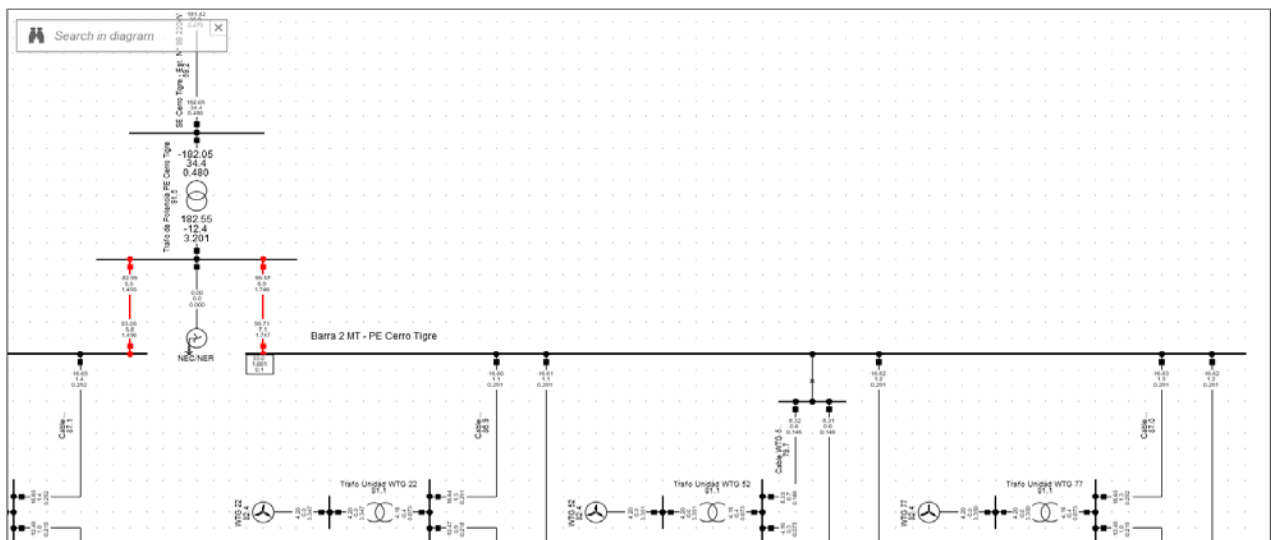


Gráfico 18. Aporte de máxima potencia en MT (parte 2)

A partir de estos dos últimos gráficos, se tiene que la potencia aportada por la totalidad de la red colectora (P_{col}) es de 182,8 MW.

2.3.3. Consumo de servicios auxiliares

El consumo de servicios auxiliares (SSAA) de cada aerogenerador se determinó de acuerdo con el documento del fabricante VESTAS “Performance Specification VESTAS V117-4.2 MW Strong Wind”. En la siguiente tabla se muestran los consumos de SSAA asociadas a los aerogeneradores del PE.

Tabla 7. Consumos servicios auxiliares aerogeneradores.

Elemento	Consumo kW
Consumo motor hidráulico	30
Motor de ajuste	21

Elemento	Consumo kW
Calefacción de agua	10
Bombas de agua	7.7
Calefacción de aceite	7.9
Bombeo de lubricantes	12.5
Sistema de control	3
Perdidas en vacío transformador	8.5
Total	100.6
Total (44 Aerogeneradores)	4426.4

Estas pérdidas son las máximas, sin considerar factores de simultaneidad y consumos asociados a calefacción que en estado de carga no estarían presentes.

Para determinar el consumo real a potencia máxima se realizó un cálculo de flujo de potencia donde se consideró el parque inyectando su potencia neta máxima en barras de AT de la SE Cerro Tigre.

Para esta condición de potencia neta máxima, los aerogeneradores quedan despachados como se muestra:

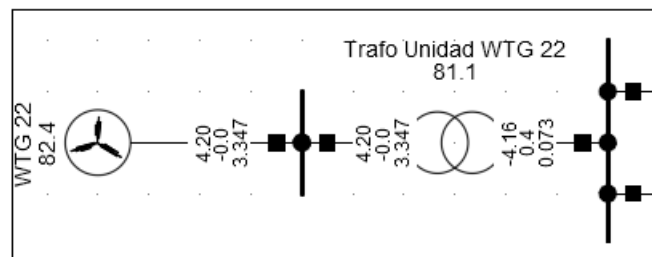


Gráfico 19. Despacho de generadores para potencia neta.

Esta potencia resulta luego descontar el consumo de servicios auxiliares de cada aerogenerador junto con las pérdidas en el transformador de unidad. Por lo tanto, la diferencia con la potencia bruta generada en la prueba resulta en el consumo de servicios auxiliares y las pérdidas en el transformador de unidad para esta condición operativa.

De lo anterior se determina el consumo total de servicios auxiliares como:

$$SS.AA_{aero} = 44 \times (4.2 - 4.16) = 1760 \text{ kW}$$

Con un consumo promedio de 40 kW por aerogenerador.

El consumo de servicios auxiliares de la SE Cerro Tigre se consideró en **100 kW**. De lo anterior, el consumo total de servicios auxiliares se calcula como:

$$SSAA = SSAA_{SE} + SSAA_{aero} = 1760 \text{ kW} + 100 \text{ kW} = 1860 \text{ kW}$$

Por otro lado, en el Gráfico 20 se observa la diferencia entre la potencia medida en el punto de conexión de la planta (Potencia Neta Medida con 41 aerogeneradores) y la potencia bruta medida. Esta diferencia corresponde a la potencia de pérdidas en el transformador de potencia del parque, los transformadores de cada aerogenerador, los cables de MT que conforman el sistema colector y los consumos propios de la planta.

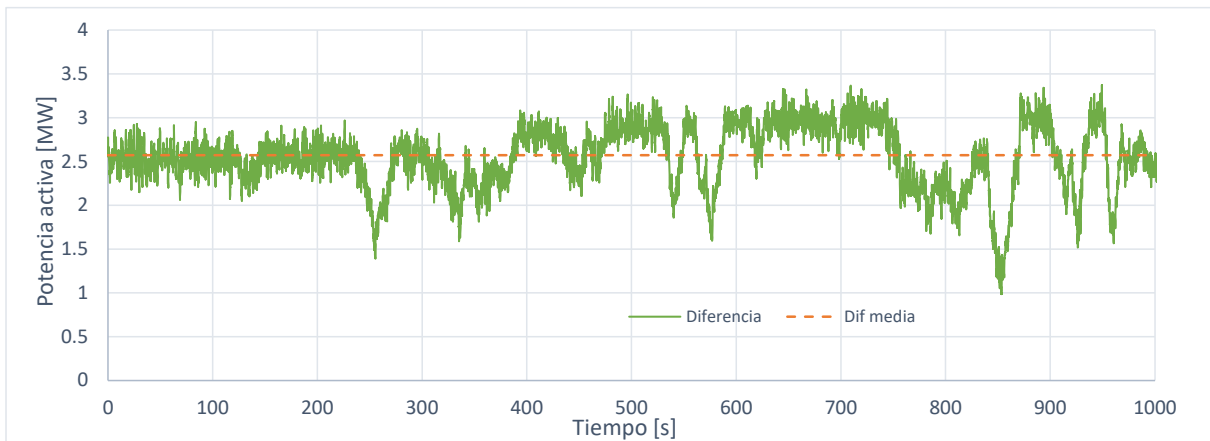


Gráfico 20. Potencia de pérdidas en equipos de transformación, cables y consumos propios.

Se consideró entonces la potencia de pérdida promedio en el intervalo de generación máxima con 41 aerogeneradores es:

$$P_{perd} = 2,57 \text{ MW}$$

2.4. Registros de las WT21, 22 y 78

El día 14/12/2021 las WT 22 y 78 se encontraban fuera de servicio y la WT21 funcionaba por debajo de la potencia máxima. A continuación, se agregan registros del día 07/05/2022, con esas máquinas funcionando a plena carga durante más de dos horas:

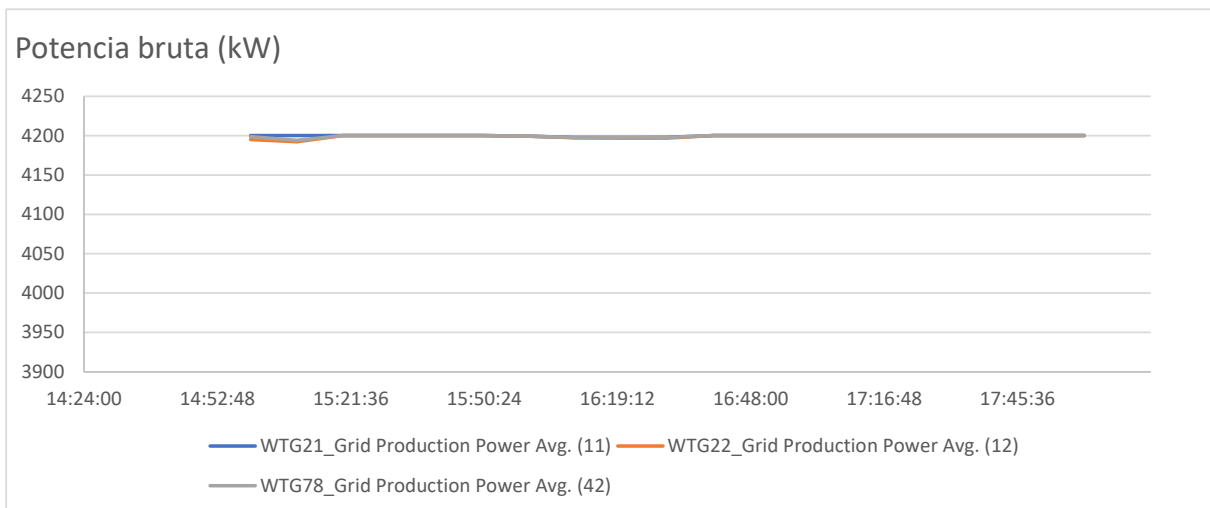


Gráfico 21. Funcionamiento a plena carga de las unidades 21, 22 y 28

3. CONCLUSIONES

En relación a los ensayos realizados en campo y las simulaciones descritas en el presente informe, se concluye que el resultado de las pruebas realizadas fue satisfactorio, obteniéndose los parámetros indicados en la Tabla 8 :

Tabla 8. Parámetros de potencia máxima obtenidos.

Parámetro	Valor
Potencia máxima bruta medida el 14/12/2021 (41 aerogeneradores)	172,8 MW
Potencia máxima neta medida el 14/12/2021 (41 aerogeneradores)	170,2 MW
Potencia máxima bruta con 44 aerogeneradores (incorporando mediciones del 07/05/2022)	184,8 MW
Potencia máxima neta con 44 aerogeneradores (incorporando mediciones del 07/05/2022)	182,05 MW

Tabla 9. Detalle de potencia máxima bruta, pérdida y potencia máxima neta con 44 aerogeneradores.

ELEMENTO	POTENCIA [MW]
Potencia Activa inyectada en la barra de 220 kV de la SE Cerro Tigre (punto de conexión del PE)	182.05
Pérdidas en el transformador de potencia del PE	0.5
Pérdidas totales del circuito colector (transformadores de bloque + red colectora de MT)	0.39
Consumo total de SSAA	1.86
Potencia máxima bruta	184.8

El valor de 184,8 MW se obtiene de sumar las mediciones de 41 aerogeneradores (de diciembre de 2021) y de los tres aerogeneradores restantes (07/05/2022).

Se hace notar que, en los registros presentados, el valor máximo (con 41 aerogeneradores) es de 173.458 MW, que surge de una medición instantánea con una resolución de 1 segundo. Este valor puede haberse originado de un transitorio (ráfaga) durante el cual los aerogeneradores pueden exceder su potencia máxima. No obstante, se recomienda mantener como valor de potencia bruta total el indicado por el fabricante, que es aquel que las unidades pueden proveer de forma continua.

ANEXO I: REGISTROS DE POTENCIA MÁXIMA

Registro	Pneta [MW]	Pbruta [MW]	Velocidad de viento [m/s]
2021-12-14T17:34:10	170.439	172.968	16.86
2021-12-14T17:34:11	170.418	172.797	16.86
2021-12-14T17:34:12	170.393	172.55	16.86
2021-12-14T17:34:13	170.464	172.585	16.86
2021-12-14T17:34:14	170.328	172.824	16.86
2021-12-14T17:34:15	170.401	172.631	16.86
2021-12-14T17:34:16	170.463	172.977	16.86
2021-12-14T17:34:17	170.188	172.79	16.86
2021-12-14T17:34:18	170.367	172.723	16.86
2021-12-14T17:34:19	170.313	172.748	16.86
2021-12-14T17:34:20	170.226	172.768	16.87
2021-12-14T17:34:21	170.285	172.465	16.87
2021-12-14T17:34:22	170.322	172.513	16.87
2021-12-14T17:34:23	170.172	172.895	16.87
2021-12-14T17:34:24	170.269	172.838	16.87
2021-12-14T17:34:25	170.232	172.609	16.87
2021-12-14T17:34:26	170.181	172.701	16.87
2021-12-14T17:34:27	170.192	173.033	16.87
2021-12-14T17:34:28	170.178	172.682	16.87
2021-12-14T17:34:29	170.083	172.662	16.87
2021-12-14T17:34:30	170.179	172.971	16.87
2021-12-14T17:34:31	170.158	172.629	16.87
2021-12-14T17:34:32	170.045	172.556	16.87
2021-12-14T17:34:33	170.067	172.936	16.87
2021-12-14T17:34:34	170.151	172.654	16.87
2021-12-14T17:34:35	170.155	172.82	16.87
2021-12-14T17:34:36	170.088	172.722	16.87
2021-12-14T17:34:37	170.233	172.562	16.87
2021-12-14T17:34:38	170.265	172.677	16.87
2021-12-14T17:34:39	170.185	172.999	16.87
2021-12-14T17:34:40	170.282	172.387	16.87
2021-12-14T17:34:41	170.204	172.635	16.87
2021-12-14T17:34:42	170.106	172.975	16.87
2021-12-14T17:34:43	170.308	172.428	16.87
2021-12-14T17:34:44	170.269	172.791	16.87
2021-12-14T17:34:45	170.247	172.754	17.2
2021-12-14T17:34:46	170.371	172.708	17.2
2021-12-14T17:34:47	170.38	172.486	17.2
2021-12-14T17:34:48	170.282	172.601	17.2
2021-12-14T17:34:49	170.365	172.657	17.2
2021-12-14T17:34:50	170.353	172.682	17.2
2021-12-14T17:34:51	170.273	172.543	17.2

2021-12-14T17:34:52	170.355	172.616	17.2
2021-12-14T17:34:53	170.393	172.757	17.2
2021-12-14T17:34:54	170.178	172.89	17.2
2021-12-14T17:34:55	170.301	172.701	17.2
2021-12-14T17:34:56	170.32	172.629	17.2
2021-12-14T17:34:57	170.229	172.623	17.2
2021-12-14T17:34:58	170.263	172.944	17.2
2021-12-14T17:34:59	170.314	172.747	17.2
2021-12-14T17:35:00	170.172	172.805	17.2
2021-12-14T17:35:01	170.284	172.753	17.2
2021-12-14T17:35:02	170.216	172.706	17.2
2021-12-14T17:35:03	170.156	172.84	17.2
2021-12-14T17:35:04	170.295	172.703	17.2
2021-12-14T17:35:05	170.131	172.664	17.2
2021-12-14T17:35:06	170.278	172.741	17.2
2021-12-14T17:35:07	170.268	172.702	17.2
2021-12-14T17:35:08	170.169	172.583	17.2
2021-12-14T17:35:09	170.245	172.734	17.2
2021-12-14T17:35:10	170.302	172.796	15.84
2021-12-14T17:35:11	170.233	172.707	15.84
2021-12-14T17:35:12	170.321	172.645	15.84
2021-12-14T17:35:13	170.162	173.106	15.84
2021-12-14T17:35:14	170.291	172.736	15.84
2021-12-14T17:35:15	170.36	172.493	15.84
2021-12-14T17:35:16	170.096	172.779	15.84
2021-12-14T17:35:17	170.296	172.745	15.84
2021-12-14T17:35:18	170.269	172.705	15.84
2021-12-14T17:35:19	170.117	172.451	15.84
2021-12-14T17:35:20	170.273	172.625	15.84
2021-12-14T17:35:21	170.213	172.697	15.84
2021-12-14T17:35:22	170.197	172.618	15.84
2021-12-14T17:35:23	170.234	172.82	15.84
2021-12-14T17:35:24	170.114	172.897	15.84
2021-12-14T17:35:25	170.221	172.669	15.84
2021-12-14T17:35:26	170.186	172.694	15.84
2021-12-14T17:35:27	170.196	172.871	15.84
2021-12-14T17:35:28	170.215	172.758	15.84
2021-12-14T17:35:29	170.172	172.647	15.84
2021-12-14T17:35:30	170.246	172.796	15.84
2021-12-14T17:35:31	170.066	172.699	15.84
2021-12-14T17:35:32	170.141	172.942	15.84
2021-12-14T17:35:33	170.315	172.457	15.84
2021-12-14T17:35:34	170.173	172.976	15.84
2021-12-14T17:35:35	170.115	172.638	15.92
2021-12-14T17:35:36	170.32	172.406	15.92

2021-12-14T17:35:37	170.192	172.745	15.92
2021-12-14T17:35:38	170.171	172.732	15.92
2021-12-14T17:35:39	170.225	172.587	15.92
2021-12-14T17:35:40	170.183	172.77	15.92
2021-12-14T17:35:41	170.181	172.895	15.92
2021-12-14T17:35:42	170.198	172.626	15.92
2021-12-14T17:35:43	170.206	172.619	15.92
2021-12-14T17:35:44	170.21	172.746	15.92
2021-12-14T17:35:45	170.244	172.866	15.92
2021-12-14T17:35:46	170.242	172.462	15.92
2021-12-14T17:35:47	170.146	172.775	15.92
2021-12-14T17:35:48	170.17	172.694	15.92
2021-12-14T17:35:49	170.256	172.676	15.92
2021-12-14T17:35:50	170.109	172.733	15.92
2021-12-14T17:35:51	170.093	172.845	15.92
2021-12-14T17:35:52	170.238	172.761	15.92
2021-12-14T17:35:53	169.969	172.593	15.92
2021-12-14T17:35:54	169.978	172.825	15.92
2021-12-14T17:35:55	170.195	172.817	15.92
2021-12-14T17:35:56	169.934	172.923	15.92
2021-12-14T17:35:57	169.991	172.654	15.92
2021-12-14T17:35:58	170.099	172.725	15.92
2021-12-14T17:35:59	169.974	172.717	15.92
2021-12-14T17:36:00	169.993	172.706	16.11
2021-12-14T17:36:01	169.98	172.632	16.11
2021-12-14T17:36:02	169.955	172.862	16.11
2021-12-14T17:36:03	170.016	172.914	16.11
2021-12-14T17:36:04	169.971	172.684	16.11
2021-12-14T17:36:05	170.055	172.604	16.11
2021-12-14T17:36:06	170.012	173.022	16.11
2021-12-14T17:36:07	169.998	172.525	16.11
2021-12-14T17:36:08	170.055	172.457	16.11
2021-12-14T17:36:09	169.948	172.945	16.11
2021-12-14T17:36:10	169.973	172.755	16.11
2021-12-14T17:36:11	169.983	172.659	16.11
2021-12-14T17:36:12	169.932	172.721	16.11
2021-12-14T17:36:13	170.006	172.706	16.11
2021-12-14T17:36:14	169.933	172.663	16.11
2021-12-14T17:36:15	169.91	172.549	16.11
2021-12-14T17:36:16	170.012	172.604	16.11
2021-12-14T17:36:17	169.906	172.625	16.11
2021-12-14T17:36:18	169.937	172.427	16.11
2021-12-14T17:36:19	170.004	172.48	16.11
2021-12-14T17:36:20	169.888	172.545	16.11
2021-12-14T17:36:21	169.946	172.559	16.11

2021-12-14T17:36:22	169.96	172.599	16.11
2021-12-14T17:36:23	169.947	172.514	16.11
2021-12-14T17:36:24	169.984	172.525	16.11
2021-12-14T17:36:25	169.943	172.337	15.89
2021-12-14T17:36:26	170.032	172.692	15.89
2021-12-14T17:36:27	170.053	172.549	15.89
2021-12-14T17:36:28	169.988	172.632	15.89
2021-12-14T17:36:29	170.076	172.614	15.89
2021-12-14T17:36:30	170.046	172.463	15.89
2021-12-14T17:36:31	169.923	172.595	15.89
2021-12-14T17:36:32	170.091	172.446	15.89
2021-12-14T17:36:33	170.056	172.76	15.89
2021-12-14T17:36:34	169.997	172.464	15.89
2021-12-14T17:36:35	170.109	172.709	15.89
2021-12-14T17:36:36	169.95	172.719	15.89
2021-12-14T17:36:37	169.989	172.833	15.89
2021-12-14T17:36:38	170.043	172.761	15.89
2021-12-14T17:36:39	169.997	172.777	15.89
2021-12-14T17:36:40	169.958	172.823	15.89
2021-12-14T17:36:41	170.059	172.919	15.89
2021-12-14T17:36:42	169.955	172.721	15.89
2021-12-14T17:36:43	169.871	172.644	15.89
2021-12-14T17:36:44	170.013	172.749	15.89
2021-12-14T17:36:45	169.99	172.91	15.89
2021-12-14T17:36:46	169.804	172.79	15.89
2021-12-14T17:36:47	169.863	172.684	15.89
2021-12-14T17:36:48	169.927	172.723	15.89
2021-12-14T17:36:49	169.879	172.79	15.89
2021-12-14T17:36:50	169.895	172.816	15.96
2021-12-14T17:36:51	169.927	172.628	15.96
2021-12-14T17:36:52	169.776	172.899	15.96
2021-12-14T17:36:53	169.919	172.698	15.96
2021-12-14T17:36:54	169.85	172.866	15.96
2021-12-14T17:36:55	169.755	172.862	15.96
2021-12-14T17:36:56	169.844	172.855	15.96
2021-12-14T17:36:57	169.861	172.859	15.96
2021-12-14T17:36:58	169.927	172.779	15.96
2021-12-14T17:36:59	169.883	172.736	15.96
2021-12-14T17:37:00	169.778	172.592	15.96
2021-12-14T17:37:01	169.906	172.816	15.96
2021-12-14T17:37:02	169.879	172.826	15.96
2021-12-14T17:37:03	169.792	172.789	15.96
2021-12-14T17:37:04	169.923	172.753	15.96
2021-12-14T17:37:05	169.893	172.843	15.96
2021-12-14T17:37:06	169.783	172.655	15.96

2021-12-14T17:37:07	169.849	172.932	15.96
2021-12-14T17:37:08	169.73	172.805	15.96
2021-12-14T17:37:09	169.898	172.688	15.96
2021-12-14T17:37:10	169.799	172.92	15.96
2021-12-14T17:37:11	169.724	172.847	15.96
2021-12-14T17:37:12	169.925	172.68	15.96
2021-12-14T17:37:13	169.831	172.678	15.96
2021-12-14T17:37:14	169.879	172.54	15.96
2021-12-14T17:37:15	169.997	172.532	16.07
2021-12-14T17:37:16	169.792	173.034	16.07
2021-12-14T17:37:17	169.916	172.95	16.07
2021-12-14T17:37:18	170.042	172.661	16.07
2021-12-14T17:37:19	169.969	172.788	16.07
2021-12-14T17:37:20	170.058	172.93	16.07
2021-12-14T17:37:21	170.06	172.792	16.07
2021-12-14T17:37:22	170.007	172.705	16.07
2021-12-14T17:37:23	170.118	172.898	16.07
2021-12-14T17:37:24	170.032	172.677	16.07
2021-12-14T17:37:25	170.233	172.7	16.07
2021-12-14T17:37:26	170.112	172.918	16.07
2021-12-14T17:37:27	169.98	172.665	16.07
2021-12-14T17:37:28	170.203	172.731	16.07
2021-12-14T17:37:29	170.118	173.048	16.07
2021-12-14T17:37:30	170.163	172.767	16.07
2021-12-14T17:37:31	170.228	172.759	16.07
2021-12-14T17:37:32	170.17	172.972	16.07
2021-12-14T17:37:33	170.149	172.74	16.07
2021-12-14T17:37:34	170.206	172.538	16.07
2021-12-14T17:37:35	170.2	172.708	16.07
2021-12-14T17:37:36	170.178	172.884	16.07
2021-12-14T17:37:37	170.206	172.678	16.07
2021-12-14T17:37:38	170.136	172.772	16.07
2021-12-14T17:37:39	169.99	172.731	16.07
2021-12-14T17:37:40	170.14	172.954	15.04
2021-12-14T17:37:41	170.187	172.748	15.04
2021-12-14T17:37:42	170.018	172.872	15.04
2021-12-14T17:37:43	170.127	172.703	15.04
2021-12-14T17:37:44	170.189	172.769	15.04
2021-12-14T17:37:45	170.015	173.005	15.04
2021-12-14T17:37:46	170.115	172.684	15.04
2021-12-14T17:37:47	170.26	172.861	15.04
2021-12-14T17:37:48	169.991	172.772	15.04
2021-12-14T17:37:49	170.108	172.618	15.04
2021-12-14T17:37:50	170.279	172.778	15.04
2021-12-14T17:37:51	169.973	172.935	15.04

2021-12-14T17:37:52	170.198	172.632	15.04
2021-12-14T17:37:53	170.244	172.784	15.04
2021-12-14T17:37:54	170.133	172.612	15.04
2021-12-14T17:37:55	170.202	172.689	15.04
2021-12-14T17:37:56	170.144	173.087	15.04
2021-12-14T17:37:57	170.2	172.644	15.04
2021-12-14T17:37:58	170.214	172.794	15.04
2021-12-14T17:37:59	170.168	172.82	15.04
2021-12-14T17:38:00	170.211	172.795	15.04
2021-12-14T17:38:01	170.098	172.921	15.04
2021-12-14T17:38:02	170.162	172.696	15.04
2021-12-14T17:38:03	170.202	172.852	15.04
2021-12-14T17:38:04	170.134	172.755	15.04
2021-12-14T17:38:05	170.142	172.965	15.33
2021-12-14T17:38:06	170.148	172.831	15.33
2021-12-14T17:38:07	169.994	172.561	15.33
2021-12-14T17:38:08	170.236	172.692	15.33
2021-12-14T17:38:09	170.105	172.696	15.33
2021-12-14T17:38:10	170.047	172.485	15.33
2021-12-14T17:38:11	170.249	172.713	15.33
2021-12-14T17:38:12	170.105	172.557	15.33
2021-12-14T17:38:13	170.12	172.613	15.33
2021-12-14T17:38:14	170.205	172.511	15.33
2021-12-14T17:38:15	170.188	172.585	15.33
2021-12-14T17:38:16	170.162	172.34	15.33
2021-12-14T17:38:17	170.228	172.315	15.33
2021-12-14T17:38:18	170.204	172.408	15.33
2021-12-14T17:38:19	170.155	172.172	15.33
2021-12-14T17:38:20	170.232	172.336	15.33
2021-12-14T17:38:21	170.258	172.141	15.33
2021-12-14T17:38:22	170.202	172.069	15.33
2021-12-14T17:38:23	170.199	172	15.33
2021-12-14T17:38:24	170.183	171.834	15.33
2021-12-14T17:38:25	170.156	171.644	15.33
2021-12-14T17:38:26	170.165	171.977	15.33
2021-12-14T17:38:27	170.235	171.936	15.33
2021-12-14T17:38:28	170.007	171.848	15.33
2021-12-14T17:38:29	170.122	172.076	15.33
2021-12-14T17:38:30	170.239	172.216	15.27
2021-12-14T17:38:31	170.031	172.177	15.27
2021-12-14T17:38:32	170.09	172.066	15.27
2021-12-14T17:38:33	170.102	172.375	15.27
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2021-12-14T17:48:53	170.288	173.003	16.16
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2021-12-14T17:48:56	170.161	173.402	15.85
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2021-12-14T17:49:13	170.216	173.021	15.85
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2021-12-14T17:49:30	170.04	172.58	15.44
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2021-12-14T17:49:32	170.06	172.343	15.44
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2021-12-14T17:49:44	169.999	172.907	15.44
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2021-12-14T17:49:47	170.021	173.012	15.05
2021-12-14T17:49:48	170.065	173.241	15.05
2021-12-14T17:49:49	169.994	173.394	15.05
2021-12-14T17:49:50	170.025	172.998	15.05
2021-12-14T17:49:51	170.151	173.107	15.05

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2021-12-14T17:49:57	170.037	173.114	15.05
2021-12-14T17:49:58	169.984	173.232	15.05
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2021-12-14T17:50:05	169.987	172.61	15.05
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2021-12-14T17:50:11	170.204	171.921	15.1
2021-12-14T17:50:12	170.305	172.055	15.1
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2021-12-14T17:50:15	170.261	172.465	15.1
2021-12-14T17:50:16	170.201	172.707	15.1
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2021-12-14T17:50:18	170.296	172.921	15.1
2021-12-14T17:50:19	170.154	172.898	15.1
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2021-12-14T17:50:23	170.174	172.596	15.1
2021-12-14T17:50:24	170.087	172.809	15.1
2021-12-14T17:50:25	170.124	172.722	15.1
2021-12-14T17:50:26	170.178	172.701	15.1
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2021-12-14T17:51:38	170.083	172.874	15.71
2021-12-14T17:51:39	169.87	172.838	15.71
2021-12-14T17:51:40	170.063	172.966	15.71
2021-12-14T17:51:41	169.97	173.009	15.71
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2021-12-14T17:51:43	170.06	173.315	15.71
2021-12-14T17:51:44	169.948	173.068	15.71
2021-12-14T17:51:45	169.877	172.888	15.71
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