



INFORME TÉCNICO DE
DETERMINACIÓN DE MÍNIMO
TÉCNICO

PARQUE FOTOVOLTAICO URIBE SOLAR

	PARÁMETROS PARA LOS PROCESOS DE DETERMINACIÓN DE MÍNIMO TÉCNICO FOTOVOLTAICA "URIBE SOLAR", ANTOFAGASTA, CHILE.	Rev:	0.0
		Fecha:	06/05/2019
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1. RESUMEN

El presente informe tiene por finalidad establecer el valor de Mínimo Técnico del Parque Fotovoltaico URIBE SOLAR, basado en los criterios establecidos en el ANEXO TÉCNICO: DETERMINACIÓN DE MÍNIMOS TÉCNICOS EN UNIDADES GENERADORAS.

2. ASPECTO NORMATIVO

2.1 DETERMINACIÓN DE MÍNIMO TÉCNICO

El Anexo Técnico de Mínimos Técnicos, establece que la Empresa Generadora deberá proporcionar a la DO los antecedentes que respaldan el valor de Mínimo Técnico informado, incluyendo los supuestos y metodologías utilizadas para establecer dicho valor, los que deberán recoger las recomendaciones entregadas por el fabricante y antecedentes operativos que hayan sido registrados durante la operación de la respectiva unidad generadora.

El Informe Técnico que respalda el valor de Mínimo Técnico o Informe de Mínimo Técnico, consiste en un documento que describe los registros de operación, supuestos, metodologías, alcances de la aplicación de estas metodologías, y conclusiones bajo los cuales se estableció el valor de Mínimo Técnico informado.

Este informe debe contener, al menos, la siguiente información:

- Antecedentes técnicos de diseño.
- Recomendaciones del fabricante y antecedentes nacionales o internacionales de unidades de similares características.
- Antecedentes de operación de la unidad generadora, incluyendo los registros y descripción de los análisis y pruebas efectuadas.
- Justificaciones que describan las eventuales fuentes de inestabilidad en la operación de la unidad generadora, que impidan que la unidad pueda operar en un valor menor de potencia activa.
- Antecedentes técnicos que respalden y expliquen el comportamiento esperado o desempeño registrado.

3. ANTECEDENTES TÉCNICOS DE DISEÑO PARQUE FOTOVOLTAICO URIBE SOLAR

El parque fotovoltaico URIBE SOLAR está compuesto por 24 inversores de 2.200 KW de potencia nominal cada uno, conformando un total de 52.8 MW. Los inversores son provistos por el fabricante POWER ELECTRONICS, modelo FS2200CH. Estos inversores se vinculan a la red de 33 kV a través de transformadores de 2.415 KVA de relación 33/0.44 kV y mediante tres circuitos colectores que se conectan en la subestación transformadora S/E URIBE SOLAR. En la siguiente figura se muestra el diagrama unifilar del parque fotovoltaico URIBE SOLAR:

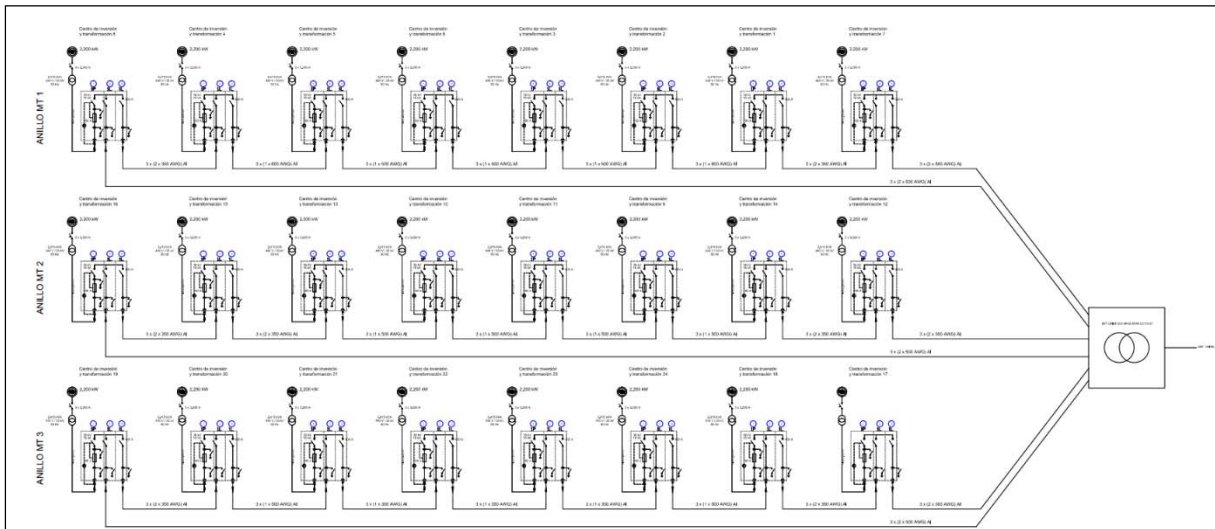


Imagen 1: Diagrama unifilar parque fotovoltaico Uribe Solar.

Los paneles solares utilizados en el parque fotovoltaico URIBE SOLAR corresponden a paneles provistos por el fabricante TRINA, modelo TSM-PC14 de tipo policristalino de 310 Wp cada uno.

Las especificaciones del panel se muestran en la siguiente tabla:

ELECTRICAL DATA @ STC	TSM-305 PC14	TSM-310 PC14	TSM-315 PC14
Peak Power Watts- P_{MAX} (Wp)	305	310	315
Power Output Tolerance- P_{MAX} (W)	0/+5	0/+5	0/+5
Maximum Power Voltage- V_{MPP} (V)	36.6	37.0	37.1
Maximum Power Current- I_{MPP} (A)	8.33	8.38	8.51
Open Circuit Voltage- V_{OC} (V)	45.5	45.5	45.6
Short Circuit Current- I_{SC} (A)	8.81	8.85	9.00
Module Efficiency η_m (%)	15.7	16.0	16.2

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT	TSM-305 PC14	TSM-310 PC14	TSM-315 PC14
Maximum Power- P_{MAX} (Wp)	227	231	235
Maximum Power Voltage- V_{MPP} (V)	34.0	34.3	34.3
Maximum Power Current- I_{MPP} (A)	6.68	6.72	6.83
Open Circuit Voltage- U_{OC} (V)	42.2	42.2	42.3
Short Circuit Current- I_{SC} (A)	7.11	7.15	7.27

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA	
Solar cells	Multicrystalline 156 × 156 mm
Cell orientation	72 cells (6 × 12)
Module dimensions	1956 x 992 x 40 mm
Weight	22.5 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 3.2 mm
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , 1200 mm
Connector	MC4 Compatible

Tabla 1: Especificaciones panel TRINA TSM-PC14

Las principales características del inversor POWER ELECTRONICS, modelo FS2200CH se resumen en la siguiente tabla:


HEC PLUS
440VAC
TECHNICAL CHARACTERISTICS

		440VAC - MPPT Window 623V-900V					
		FRAME 2	FRAME 3	FRAME 3	FRAME 4	FRAME 4	
NUMBER OF MODULES		5	6	7	8	9	10
REFERENCE		FS1112CH	FS1331CH	FS1550CH	FS1770CH	FS1991CH	FS2200CH
OUTPUT	AC Output Power(kVA/kW) @50°C ^[1]	1110	1330	1550	1770	1990	2200
	AC Output Power(kVA/kW) @25°C ^[1]	1220	1460	1710	1950	2190	2440
	Max. AC Output Current (A) @25°C	1600	1920	2240	2560	2880	3200
	Operating Grid Voltage(VAC)	440Vac					
	Operating Range, Grid Frequency	50Hz/60Hz					
	Current Harmonic Distortion (THDi)	< 3% at any load condition					
INPUT	Power Factor (cosine phi) ^[2]	0.00 leading - 0.00 lagging adjustable / Reactive Power injection at night					
	Power Curtailment (kVA)	0..100%/0.1% Steps					
	MPPT Voltage Window (VDC) ^[3]	623V-900V					
	MPPT window @full power (VDC) ^[3]	642V-820V @50°C / 712V-820V @25°C					
	Maximum DC and Starting voltage	1000V					
	Max. DC continuous current (A)	1750	2100	2450	2800	3150	3500
EFFICIENCY & POWER SUPPLY	Max. DC short circuit current (A)	2275	2730	3185	3640	4095	4550
	Max. Efficiency PAC, nom (η)	98.6%		98.6%		98.6%	
	Euroeta (η)	98.3%		98.4%		98.4%	
	Max. Standby Consumption (Prnight)	< approx. 40W/per module					
	Control Power Supply	400V/230VAC-1kVA user power supply available, Optional 6kVA					
	Max. Power Consumption	2300W	2760W	3220W	3680W	4140W	4600W
CABINET	Max. Apparent Power (VA)	4800VA	5600VA	6500VA	7300VA	8200VA	9000VA
	Dimensions [WxDxH] [mm]	3900x1050x2400		4900x1050x2400		5900x1050x2400	
	Weight (kg)	3540	3850	4590	4900	5640	5950
	Air Flow	Intake through lower part blown out through upper side					
	Type of ventilation	Forced air cooling					
	Degree of protection	IP54					
ENVIRONMENT	Permissible Ambient Temperature	-30°C ^[4] to +60°C / >50°C Active Power derating					
	Relative Humidity	0% to 100% non condensing					
	Max. Altitude (above sea level)	4000m; >1000m power derating					
	Noise level ^[4]	< 70 dBA					
CONTROL INTERFACE	Interface	Alphanumeric Display / Optional Freesun App					
	Communication	RS232 / RS485 / USB / Ethernet, (Modbus RTU Protocol, Modbus TCP/IP)					
	Analogue Inputs	1 programmable and differential inputs; (0-20mA or ± 10mV to ± 10V) and PT100					
	String Supervisor Communication	RS485 / Modbus RTU					
	Plant Controller Communication	Ethernet / Modbus TCP/IP					
	Digital Outputs	1 electrically-isolated programmable switched relays (250VAC, BA or 30VDC, BA)					
PROTECTIONS	Ground Fault Protection	Floating PV array: Isolation Monitoring per MPP Grounded PV array (Positive pole and negative pole): GFDI protection PV Array transfer kit: GFDI and Isolation monitoring device (requires 1 Digital Output)					
	Humidity control	Active Heating					
	ON / OFF Pushbutton	Standard					
	General AC Protection & Disconn.	Circuit Breaker					
	General DC Protection & Disconn.	Optional External Disconnecting Unit Cabinet					
	Module AC Protection & Disconn.	AC contactor & fuses					
	Module DC Protection & Disconn.	DC contactor & DC fuses					
	Overvoltage Protection	AC, DC Inverter and auxiliary supply type 2 - Internal Standard					
	DC Lightning Protections	Optional (Integrated in the inverter)					

NOTES [1] Values at 100°Vac nom and cos φ= 1. Consult Power Electronics for derating curves.
[2] Consult P-Q charts available: Q(kVAR)=√(S(kVA)²-P(kW)²)
[3] Below +20°C equipped with extended Active Heating + Heating Resistor.
[4] Sound pressure level at a distance of 1m from the rear part.

Tabla 2: Principales características del inversor POWER ELECTRONICS, modelo FS2200CH

La red interna de media tensión del parque está compuesta por 24 cabinas, cada una de las cuales cuenta con 1 inversor y 1 transformador. Cada transformador de bloque cuenta con un lado de baja tensión de 440 V y en un lado de alta tensión de cada transformador de 33 kV de tensión y de una potencia de 2.415 KVA.

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Las principales características de estos transformadores se resumen en la siguiente tabla:



TRANSFORMER TYPE: 2415 /36/33 0,440 O-PB
STANDARD : IEC 60076
FREQUENCY : 50 Hz
ELECTRICAL FEATURES
INSULATION LEVEL VOLTAGE :
HIGH VOTAGE: 36 KV
LOW VOLTAGE : 1,1 KV

POWER RATING (MVA)		2,415
VOLTAGE (V)	PRIMARY	33000
	SECONDARY	440
	NO LOAD	
PRIMARY TAP		±2.5 ± 5 %
VECTOR GROUP		Dy11
RATED CURRENT HV (A)		42,25
RATED CURRENT LV (A)		3168,9
NO LOAD LOSSES (W)		3695 + 15%
LOAD LOSSES (W)		25565 + 15%
SHORT CIRCUIT VOLTAGE %		6 ± 10%
NO LOAD CURRENT LV 100 % Un (A)		4,44 + 30%
NO LOAD CURRENT HV 100 % Un (A)		0,06 + 30%
Resistance, R (Ω/phase) LV		0,00031
Reactance, X (Ω/phase) LV		0,0018
SOUND LEVEL dB (A)		76
X/R ratio		5,88
Positive sequence resistance (RT) 75°C %		0,89
Positive sequence reactance (XT) 75°C %		5,22
Inrush current (or B/H curve)		7,5
50% decaying time constant (s)		0,3
VOLTDROP AT	cos φ = 1	1,23
FULL LOAD (%)	cos φ = 0.8	4,47
	LOAD cos φ = 1	98,80
EFFICIENCY (%)	100% cos φ = 0.8	98,51
	LOAD cos φ = 1	99,01
	75% cos φ = 0.8	98,77
	LOAD 50% cos φ = 1	99,17
	50% cos φ = 0.8	98,97
COOLING METHOD		ONAN
INSULATION LEVEL		
HV /LV POWER FREQ. TEST VOLTAGE (KV)		.70/10
HV /LV IMPULSE TEST VOLTAGE (KV)		170/30
INDUCED POTENCIALTEST (KV)		0,880
HEATING :		
WINDING TEMPERATURE (K)		62
TOP OIL TEMPERATURE (K)		57
Tamb max at 1000 m of altitude (°C)		40
COILS		Aluminum / Aluminum
TYPE OF TANKING		CORRUGATED HERMETICALLY SEALED HERMETIC AND INTEGRAL FILING
ENCLOSURE LEVEL		IP 54
CORROSIVE LEVEL		C4
COLOR FINISH		RAL 1014
DIMENSIONS		
	LENGHT (mm)	2096 ± 15mm
	WIDTH (mm)	1496 ± 15mm
	HEIGHT WITHOUT WHEELS (mm)	2000 ± 15mm
	HEIGHT WITH WHEELS (mm)	2165 ± 15mm
CLEARANCES (mm)		at least 100 mm
OIL	(Litres)	1342
WEIGHT	(Kgr)	5814

Tabla 3: Principales características de los transformadores de media tensión.

4. DETERMINACIÓN DEL MÍNIMO TÉCNICO DEL PARQUE FOTOVOLTAICO URIBE SOLAR

En la siguiente imagen se adjuntan registros de mediciones del parque fotovoltaico URIBE SOLAR realizados el día 8 de abril de 2019 con orden de 0 MW por parte de ENOR, con presencia de recurso de radiación solar normal. De acuerdo a las mediciones realizadas, se constata que una vez ingresado un valor de consigna de 0 MW en el PPC (Power Plant Controller) del parque, el parque dispone de una potencia mínima de 0 MW en la barra de 110 kV de S/E Uribe Solar. Por lo anterior, para el parque fotovoltaico URIBE SOLAR se establece un valor de mínimo técnico de 0 MW.

Un detalle de las mediciones realizadas se muestran en la siguiente imagen:

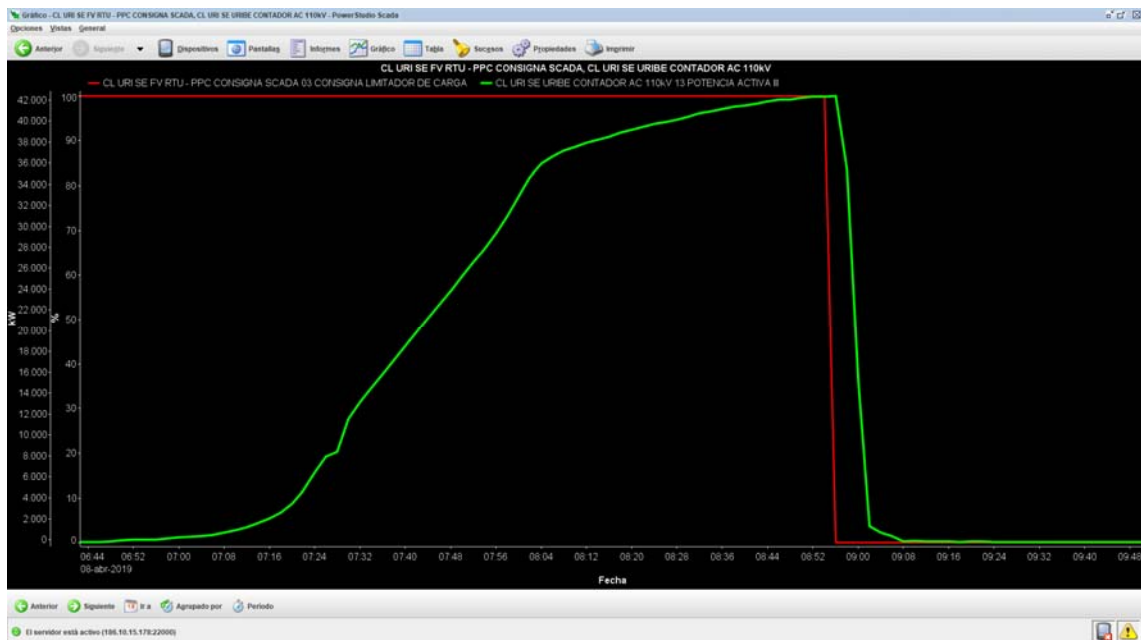


Imagen 2: Registros de mínimo técnico Parque PV Uribe Solar.

El valor de mínimo técnico del Parque Fotovoltaico URIBE SOLAR, tiene relación con la manera en que los inversores del parque controlan la potencia activa de producción, la cual es realizada a través de algoritmos de MPPT (Maximum Power Point Tracking), cuya finalidad es maximizar la producción de energía en cualquier condición de operación del parque, lo cual se logra básicamente variando la tensión en el lado de continua del inversor y generando una variación en la potencia de salida del inversor.

Como se muestra en la siguiente imagen, cuando no hay restricción en la consigna de potencia activa del inversor, el algoritmo MPPT utiliza la curva P/V para llevar al inversor a trabajar en el punto de máxima generación (PPV MAX) para una tensión DC del inversor igual VMPP.

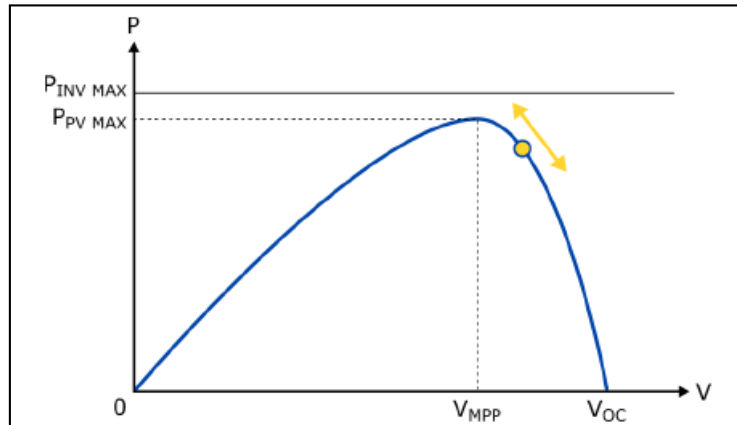


Imagen 3: Algoritmo MPPT. La máxima producción de energía se produce en el punto PPV MAX; VMPP.

5. ANTECEDENTES DE OPERACIÓN DE PARQUE FOTOVOLTAICO URIBE SOLAR

Los siguientes antecedentes de operación, consisten en las medidas de potencia de mínimo técnico realizados el día 8 de abril de 2019, en los que se muestran distintos niveles de generación del parque fotovoltaico, desde una potencia de 42,41 MW hasta su valor de mínimo técnico establecido en 0 MW. De acuerdo a los valores registrados, se constata que el parque fotovoltaico URIBE SOLAR tiene un nivel de 0 MW de mínimo técnico.

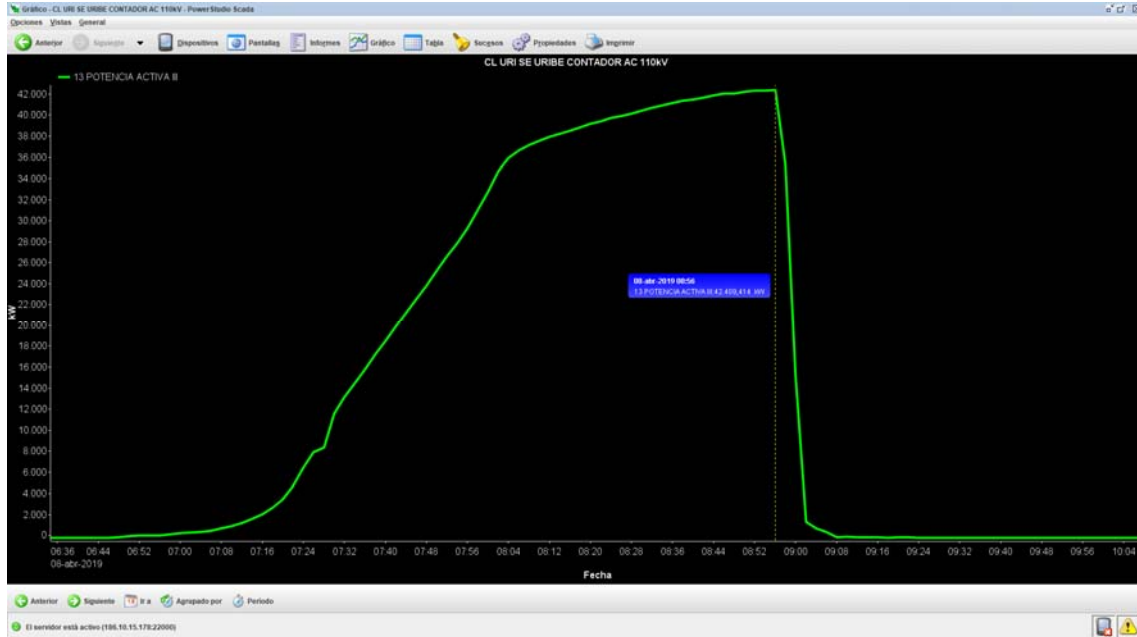


Imagen 4: Registro técnico Parque PV Uribe Solar.

6. JUSTIFICACIONES QUE DESCRIBEN FUENTES DE INESTABILIDAD DEL PARQUE FOTOVOLTAICO URIBE SOLAR

De acuerdo al registro de potencia realizado el día 8 de abril de 2019, se constata que el parque fotovoltaico URIBE SOLAR puede generar en todo el rango definido entre los valores de mínimo técnico de 0 MW hasta su potencia nominal, por lo que no se han realizado hallazgos de inestabilidad.

7. CONCLUSIONES

De acuerdo a lo expuesto en el punto 4 del presente informe, se concluye que los parámetros de mínimo técnico del parque Fotovoltaico URIBE SOLAR corresponde a 0 MW.

8. POTENCIA ACTIVA INYECTADA POR EL PARQUE EN LA BARRA DE ALTA TENSIÓN (110 kV) DE LA S/E URIBE SOLAR.

En la siguiente imagen extraída del Scada de planta y referente al 26 de marzo de 2019, podemos observar la potencia activa inyectada en la barra de alta tensión de la subestación Uribe Solar.

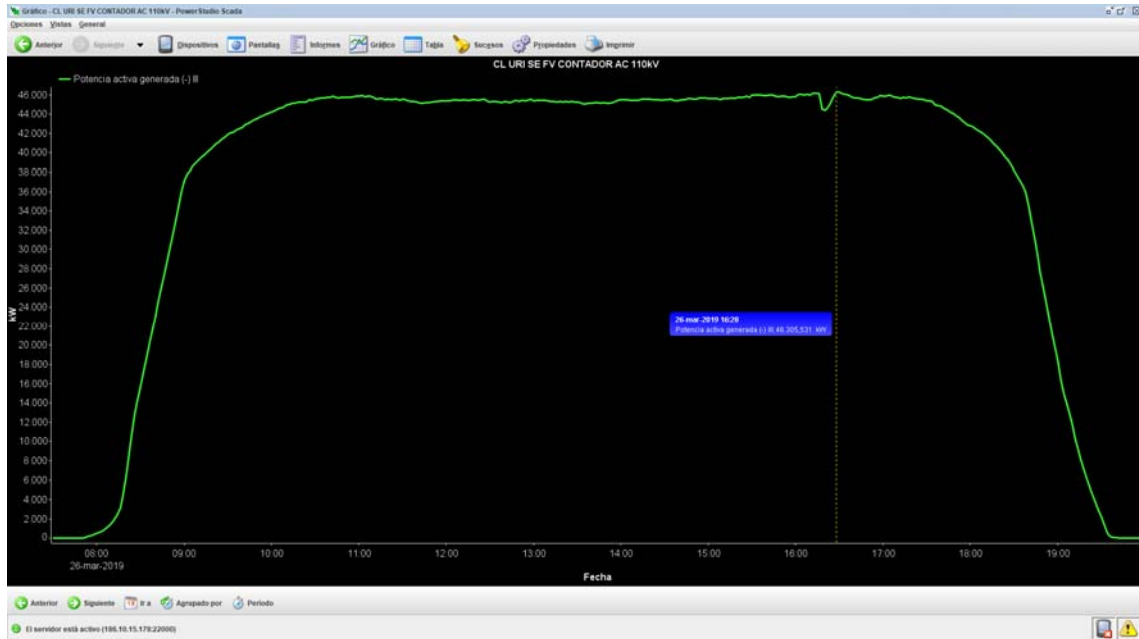


Imagen 5: Registro técnico potencia activa en S/E URIBE SOLAR (110 kV).

Como resultado de dicha imagen, podemos observar que el mayor valor de potencia activa inyectada en la barra de 110 kV es de 46,305 MW.

La siguiente tabla muestra los valores de potencia activa en MW inyectada por la planta durante el pasado 26 de marzo de 2019 en la barra de 110 kV.

26 marzo 2019 - 26 marzo 2019	
Fecha/hora	CL URI SE FV CONTADOR AC 110kV.Potencia activa generada III (MW)
26/03/2019 7:30	0
26/03/2019 7:32	0
26/03/2019 7:34	0
26/03/2019 7:36	0
26/03/2019 7:38	0
26/03/2019 7:40	0
26/03/2019 7:42	0
26/03/2019 7:44	0
26/03/2019 7:46	0,000945
26/03/2019 7:48	0,012767
26/03/2019 7:50	0,026147
26/03/2019 7:52	0,09181
26/03/2019 7:54	0,197312
26/03/2019 7:56	0,302003
26/03/2019 7:58	0,393829
26/03/2019 8:00	0,495526
26/03/2019 8:02	0,623036
26/03/2019 8:04	0,782481
26/03/2019 8:06	0,993898
26/03/2019 8:08	1,254084
26/03/2019 8:10	1,573913
26/03/2019 8:12	1,962654
26/03/2019 8:14	2,488112
26/03/2019 8:16	3,1417
26/03/2019 8:18	4,307805
26/03/2019 8:20	6,104281
26/03/2019 8:22	8,365061
26/03/2019 8:24	10,717202
26/03/2019 8:26	12,759114
26/03/2019 8:28	14,296007
26/03/2019 8:30	15,715135
26/03/2019 8:32	17,199969
26/03/2019 8:34	18,631023
26/03/2019 8:36	20,125395
26/03/2019 8:38	21,575193
26/03/2019 8:40	22,90478
26/03/2019 8:42	24,334491
26/03/2019 8:44	25,723937
26/03/2019 8:46	27,080592
26/03/2019 8:48	28,50027
26/03/2019 8:50	29,943221

26/03/2019 8:52	31,386085
26/03/2019 8:54	32,842862
26/03/2019 8:56	34,347948
26/03/2019 8:58	36,002017
26/03/2019 9:00	37,111717
26/03/2019 9:02	37,79464
26/03/2019 9:04	38,20037
26/03/2019 9:06	38,611587
26/03/2019 9:08	38,925056
26/03/2019 9:10	39,197773
26/03/2019 9:12	39,525468
26/03/2019 9:14	39,797553
26/03/2019 9:16	40,059711
26/03/2019 9:18	40,358284
26/03/2019 9:20	40,617195
26/03/2019 9:22	40,912114
26/03/2019 9:24	41,14501
26/03/2019 9:26	41,45318
26/03/2019 9:28	41,61747
26/03/2019 9:30	41,854289
26/03/2019 9:32	42,024975
26/03/2019 9:34	42,130971
26/03/2019 9:36	42,350553
26/03/2019 9:38	42,459712
26/03/2019 9:40	42,607896
26/03/2019 9:42	42,883616
26/03/2019 9:44	43,055618
26/03/2019 9:46	43,215901
26/03/2019 9:48	43,368241
26/03/2019 9:50	43,511734
26/03/2019 9:52	43,693438
26/03/2019 9:54	43,805951
26/03/2019 9:56	43,930451
26/03/2019 9:58	44,044015
26/03/2019 10:00	44,176818
26/03/2019 10:02	44,308764
26/03/2019 10:04	44,522791
26/03/2019 10:06	44,646157
26/03/2019 10:08	44,662822
26/03/2019 10:10	44,90042
26/03/2019 10:12	44,97399
26/03/2019 10:14	45,137622
26/03/2019 10:16	45,109956
26/03/2019 10:18	45,230636
26/03/2019 10:20	45,257955

26/03/2019 10:22	45,211573
26/03/2019 10:24	45,255591
26/03/2019 10:26	45,455491
26/03/2019 10:28	45,439558
26/03/2019 10:30	45,541688
26/03/2019 10:32	45,575408
26/03/2019 10:34	45,692038
26/03/2019 10:36	45,68889
26/03/2019 10:38	45,746441
26/03/2019 10:40	45,744339
26/03/2019 10:42	45,847424
26/03/2019 10:44	45,720587
26/03/2019 10:46	45,677694
26/03/2019 10:48	45,716996
26/03/2019 10:50	45,753185
26/03/2019 10:52	45,699407
26/03/2019 10:54	45,744672
26/03/2019 10:56	45,811971
26/03/2019 10:58	45,851928
26/03/2019 11:00	45,841686
26/03/2019 11:02	45,886246
26/03/2019 11:04	45,784824
26/03/2019 11:06	45,822722
26/03/2019 11:08	45,872719
26/03/2019 11:10	45,730158
26/03/2019 11:12	45,569545
26/03/2019 11:14	45,591603
26/03/2019 11:16	45,628271
26/03/2019 11:18	45,476616
26/03/2019 11:20	45,51793
26/03/2019 11:22	45,510728
26/03/2019 11:24	45,5562
26/03/2019 11:26	45,515778
26/03/2019 11:28	45,428768
26/03/2019 11:30	45,529999
26/03/2019 11:32	45,459167
26/03/2019 11:34	45,387068
26/03/2019 11:36	45,28315
26/03/2019 11:38	45,276562
26/03/2019 11:40	45,227372
26/03/2019 11:42	45,125208
26/03/2019 11:44	45,092187
26/03/2019 11:46	45,184597
26/03/2019 11:48	45,158568
26/03/2019 11:50	45,212576

26/03/2019 11:52	45,294108
26/03/2019 11:54	45,291085
26/03/2019 11:56	45,353111
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26/03/2019 16:16	46,103861
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26/03/2019 17:04	45,972571
26/03/2019 17:06	45,86938
26/03/2019 17:08	45,749621
26/03/2019 17:10	45,704174
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26/03/2019 17:26	45,528681
26/03/2019 17:28	45,45617
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26/03/2019 17:32	45,337568
26/03/2019 17:34	45,270734
26/03/2019 17:36	44,950432
26/03/2019 17:38	44,846031
26/03/2019 17:40	44,80432
26/03/2019 17:42	44,574387
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26/03/2019 17:46	44,220877
26/03/2019 17:48	44,078214
26/03/2019 17:50	43,844232

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26/03/2019 17:54	43,35349
26/03/2019 17:56	43,105618
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26/03/2019 18:06	42,213152
26/03/2019 18:08	42,041737
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26/03/2019 18:12	41,570475
26/03/2019 18:14	41,243279
26/03/2019 18:16	40,862606
26/03/2019 18:18	40,607905
26/03/2019 18:20	40,246401
26/03/2019 18:22	39,904094
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26/03/2019 18:28	38,727366
26/03/2019 18:30	38,187612
26/03/2019 18:32	37,648665
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26/03/2019 18:36	36,61266
26/03/2019 18:38	35,860319
26/03/2019 18:40	34,442999
26/03/2019 18:42	32,711074
26/03/2019 18:44	31,097081
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26/03/2019 19:42	0
26/03/2019 19:44	0
26/03/2019 19:46	0
26/03/2019 19:48	0
26/03/2019 19:50	0
26/03/2019 19:52	0
26/03/2019 19:54	0
26/03/2019 19:56	0
26/03/2019 19:58	0

Tabla 4: Potencia activa inyectada en barras de alta tensión (110 kV) de la S/E Uribe Solar.

9. POTENCIA ACTIVA INYECTADA POR EL PARQUE EN LA BARRA DE MEDIA TENSIÓN (33 kV) DE LA CENTRAL.

En la siguiente imagen extraída del Scada de planta y referente al 26 de marzo de 2019, podemos observar la potencia activa inyectada en la barra de media tensión de la central.

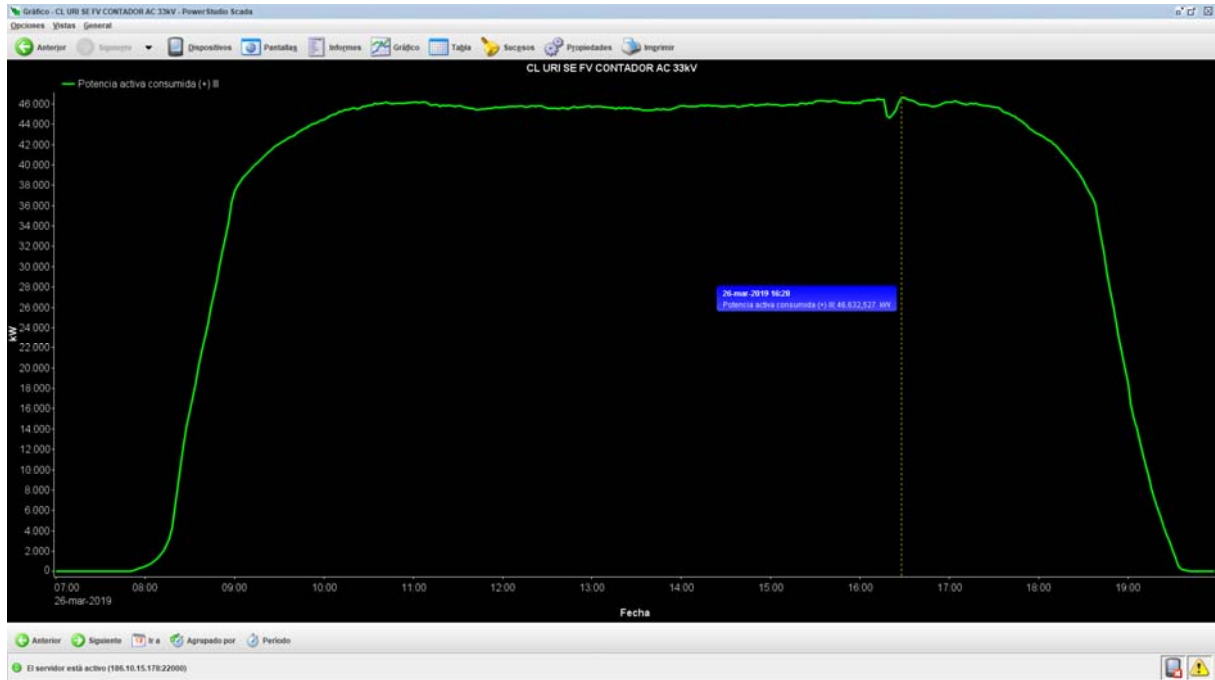


Imagen 6: Registro técnico potencia activa en S/E URIBE SOLAR (33 kV).

Como resultado de dicha imagen, podemos observar que el mayor valor de potencia activa inyectada en la barra de 33 kV es de 46,632 MW.

La siguiente tabla muestra los valores de potencia activa en MW inyectada por la planta durante el pasado 26 de marzo de 2019 en la barra de 33 kV.

26 marzo 2019 – 26 marzo 2019	
Fecha/hora	CL URI SE FV CONTADOR AC 33kV. Potencia activa III (MW)
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26/03/2019 7:34	0
26/03/2019 7:36	0
26/03/2019 7:38	0
26/03/2019 7:40	0
26/03/2019 7:42	0,005007
26/03/2019 7:44	0,030776
26/03/2019 7:46	0,050115
26/03/2019 7:48	0,050941
26/03/2019 7:50	0,055478
26/03/2019 7:52	0,118117
26/03/2019 7:54	0,222169

26/03/2019 7:56	0,328085
26/03/2019 7:58	0,418132
26/03/2019 8:00	0,517301
26/03/2019 8:02	0,64455
26/03/2019 8:04	0,806489
26/03/2019 8:06	1,011833
26/03/2019 8:08	1,283375
26/03/2019 8:10	1,624057
26/03/2019 8:12	1,995287
26/03/2019 8:14	2,505633
26/03/2019 8:16	3,180208
26/03/2019 8:18	4,36646
26/03/2019 8:20	6,196539
26/03/2019 8:22	8,50775
26/03/2019 8:24	10,783611
26/03/2019 8:26	12,885234
26/03/2019 8:28	14,436947
26/03/2019 8:30	15,792479
26/03/2019 8:32	17,288904
26/03/2019 8:34	18,73407
26/03/2019 8:36	20,210139
26/03/2019 8:38	21,716437
26/03/2019 8:40	23,064734
26/03/2019 8:42	24,455317
26/03/2019 8:44	25,899085
26/03/2019 8:46	27,244648
26/03/2019 8:48	28,692676
26/03/2019 8:50	30,138291
26/03/2019 8:52	31,628767
26/03/2019 8:54	33,008436
26/03/2019 8:56	34,537815
26/03/2019 8:58	36,27184
26/03/2019 9:00	37,383791
26/03/2019 9:02	38,031249
26/03/2019 9:04	38,427376
26/03/2019 9:06	38,846426
26/03/2019 9:08	39,149955
26/03/2019 9:10	39,427721
26/03/2019 9:12	39,778215
26/03/2019 9:14	40,045824
26/03/2019 9:16	40,320464
26/03/2019 9:18	40,622648
26/03/2019 9:20	40,869083
26/03/2019 9:22	41,178857
26/03/2019 9:24	41,438549

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26/03/2019 9:28	41,889277
26/03/2019 9:30	42,117904
26/03/2019 9:32	42,30997
26/03/2019 9:34	42,40935
26/03/2019 9:36	42,626851
26/03/2019 9:38	42,752091
26/03/2019 9:40	42,898003
26/03/2019 9:42	43,118457
26/03/2019 9:44	43,358891
26/03/2019 9:46	43,512649
26/03/2019 9:48	43,639107
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PARÁMETROS PARA LOS PROCESOS DE DETERMINACIÓN
DE MÍNIMO TÉCNICO
FOTOVOLTAICA "URIBE SOLAR", ANTOFAGASTA, CHILE.

Rev:	0.0
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26/03/2019 16:00	46,076742
26/03/2019 16:02	46,321368
26/03/2019 16:04	46,295147
26/03/2019 16:06	46,328418
26/03/2019 16:08	46,367642
26/03/2019 16:10	46,335387
26/03/2019 16:12	46,48859
26/03/2019 16:14	46,431761
26/03/2019 16:16	46,428777
26/03/2019 16:18	44,802483
26/03/2019 16:20	44,627999
26/03/2019 16:22	44,950811
26/03/2019 16:24	45,396805
26/03/2019 16:26	46,060493
26/03/2019 16:28	46,632527
26/03/2019 16:30	46,574021
26/03/2019 16:32	46,409248
26/03/2019 16:34	46,367901
26/03/2019 16:36	46,273124
26/03/2019 16:38	46,08302
26/03/2019 16:40	45,951433
26/03/2019 16:42	45,927535
26/03/2019 16:44	45,932077
26/03/2019 16:46	45,839121
26/03/2019 16:48	45,770182
26/03/2019 16:50	45,76935
26/03/2019 16:52	45,783753
26/03/2019 16:54	45,924124

26/03/2019 16:56	46,041023
26/03/2019 16:58	46,177761
26/03/2019 17:00	46,172324
26/03/2019 17:02	46,171435
26/03/2019 17:04	46,28041
26/03/2019 17:06	46,195546
26/03/2019 17:08	46,076046
26/03/2019 17:10	45,974693
26/03/2019 17:12	45,947555
26/03/2019 17:14	46,021886
26/03/2019 17:16	45,980571
26/03/2019 17:18	46,052395
26/03/2019 17:20	45,951985
26/03/2019 17:22	45,867661
26/03/2019 17:24	45,819045
26/03/2019 17:26	45,80363
26/03/2019 17:28	45,758223
26/03/2019 17:30	45,65198
26/03/2019 17:32	45,652295
26/03/2019 17:34	45,560687
26/03/2019 17:36	45,266489
26/03/2019 17:38	45,138767
26/03/2019 17:40	45,075804
26/03/2019 17:42	44,852337
26/03/2019 17:44	44,745884
26/03/2019 17:46	44,483988
26/03/2019 17:48	44,363235
26/03/2019 17:50	44,124949
26/03/2019 17:52	43,916511
26/03/2019 17:54	43,605201
26/03/2019 17:56	43,376901
26/03/2019 17:58	43,119846
26/03/2019 18:00	43,043227
26/03/2019 18:02	42,923363
26/03/2019 18:04	42,715312
26/03/2019 18:06	42,495967
26/03/2019 18:08	42,313731
26/03/2019 18:10	42,085684
26/03/2019 18:12	41,822895
26/03/2019 18:14	41,503627
26/03/2019 18:16	41,152333
26/03/2019 18:18	40,871724
26/03/2019 18:20	40,47789
26/03/2019 18:22	40,132862
26/03/2019 18:24	39,766638

26/03/2019 18:26	39,449302
26/03/2019 18:28	38,962949
26/03/2019 18:30	38,452232
26/03/2019 18:32	37,918587
26/03/2019 18:34	37,363586
26/03/2019 18:36	36,819724
26/03/2019 18:38	36,073839
26/03/2019 18:40	34,591241
26/03/2019 18:42	32,882531
26/03/2019 18:44	31,245596
26/03/2019 18:46	29,480146
26/03/2019 18:48	27,851487
26/03/2019 18:50	26,296966
26/03/2019 18:52	24,582425
26/03/2019 18:54	23,002188
26/03/2019 18:56	21,485309
26/03/2019 18:58	19,936818
26/03/2019 19:00	18,489291
26/03/2019 19:02	16,457049
26/03/2019 19:04	15,044739
26/03/2019 19:06	14,058707
26/03/2019 19:08	12,920225
26/03/2019 19:10	11,614078
26/03/2019 19:12	10,411345
26/03/2019 19:14	9,264546
26/03/2019 19:16	8,128922
26/03/2019 19:18	7,089685
26/03/2019 19:20	6,130822
26/03/2019 19:22	5,286547
26/03/2019 19:24	4,453712
26/03/2019 19:26	3,625917
26/03/2019 19:28	2,909644
26/03/2019 19:30	2,169437
26/03/2019 19:32	1,35968
26/03/2019 19:34	0,548352
26/03/2019 19:36	0,216885
26/03/2019 19:38	0,13578
26/03/2019 19:40	0,099841
26/03/2019 19:42	0,009232
26/03/2019 19:44	0
26/03/2019 19:46	0
26/03/2019 19:48	0
26/03/2019 19:50	0
26/03/2019 19:52	0
26/03/2019 19:54	0

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26/03/2019 19:56	0
26/03/2019 19:58	0

Tabla 5: Potencia activa inyectada en barras de media tensión (33 kV) de la S/E Uribe Solar.

10. PÉRDIDAS ACTIVAS EN EL TRANSFORMADOR DE PODER DE LA CENTRAL (kW).

La siguiente tabla trata de mostrar las pérdidas en el transformador elevador 33 kV – 110 kV presente en la subestación URIBE SOLAR y teniendo en cuenta los datos recogidos por los contadores presentes en ambos puntos de la subestación para el día 26 de marzo de 2019.

El promedio de pérdidas en el transformador de poder de la central URIBE SOLAR para el día 26 de marzo de 2019 es de 255,65 kW.

El promedio de pérdidas en el transformador de poder de la central URIBE SOLAR para un día de **Mínimo Técnico**, como fue el día 11 de abril de 2019, es de 30,98 kW.

26 marzo 2019 – 26 marzo 2019	
Fecha/hora	Pérdidas activas en transformador de poder III (kW)
26/03/2019 7:30	0
26/03/2019 7:32	0
26/03/2019 7:34	0
26/03/2019 7:36	0
26/03/2019 7:38	0
26/03/2019 7:40	0
26/03/2019 7:42	5,007
26/03/2019 7:44	30,776
26/03/2019 7:46	49,17
26/03/2019 7:48	38,174
26/03/2019 7:50	29,331
26/03/2019 7:52	26,307
26/03/2019 7:54	24,857

26/03/2019 7:56	26,082
26/03/2019 7:58	24,303
26/03/2019 8:00	21,775
26/03/2019 8:02	21,514
26/03/2019 8:04	24,008
26/03/2019 8:06	17,935
26/03/2019 8:08	29,291
26/03/2019 8:10	50,144
26/03/2019 8:12	32,633
26/03/2019 8:14	17,521
26/03/2019 8:16	38,508
26/03/2019 8:18	58,655
26/03/2019 8:20	92,258
26/03/2019 8:22	142,689
26/03/2019 8:24	66,409
26/03/2019 8:26	126,12
26/03/2019 8:28	140,94
26/03/2019 8:30	77,344
26/03/2019 8:32	88,935
26/03/2019 8:34	103,047
26/03/2019 8:36	84,744
26/03/2019 8:38	141,244
26/03/2019 8:40	159,954
26/03/2019 8:42	120,826
26/03/2019 8:44	175,148
26/03/2019 8:46	164,056
26/03/2019 8:48	192,406
26/03/2019 8:50	195,07
26/03/2019 8:52	242,682
26/03/2019 8:54	165,574
26/03/2019 8:56	189,867
26/03/2019 8:58	269,823
26/03/2019 9:00	272,074
26/03/2019 9:02	236,609
26/03/2019 9:04	227,006
26/03/2019 9:06	234,839
26/03/2019 9:08	224,899
26/03/2019 9:10	229,948
26/03/2019 9:12	252,747
26/03/2019 9:14	248,271
26/03/2019 9:16	260,753
26/03/2019 9:18	264,364
26/03/2019 9:20	251,888
26/03/2019 9:22	266,743
26/03/2019 9:24	293,539

26/03/2019 9:26	257,95
26/03/2019 9:28	271,807
26/03/2019 9:30	263,615
26/03/2019 9:32	284,995
26/03/2019 9:34	278,379
26/03/2019 9:36	276,298
26/03/2019 9:38	292,379
26/03/2019 9:40	290,107
26/03/2019 9:42	234,841
26/03/2019 9:44	303,273
26/03/2019 9:46	296,748
26/03/2019 9:48	270,866
26/03/2019 9:50	314,569
26/03/2019 9:52	298,914
26/03/2019 9:54	291,569
26/03/2019 9:56	282,368
26/03/2019 9:58	309,604
26/03/2019 10:00	286,614
26/03/2019 10:02	302,226
26/03/2019 10:04	299,34
26/03/2019 10:06	280,137
26/03/2019 10:08	359,585
26/03/2019 10:10	345,883
26/03/2019 10:12	271,251
26/03/2019 10:14	293,136
26/03/2019 10:16	311,546
26/03/2019 10:18	284,434
26/03/2019 10:20	331,736
26/03/2019 10:22	308,226
26/03/2019 10:24	295,881
26/03/2019 10:26	292,875
26/03/2019 10:28	329,448
26/03/2019 10:30	315,184
26/03/2019 10:32	316,808
26/03/2019 10:34	326,88
26/03/2019 10:36	309,844
26/03/2019 10:38	299,704
26/03/2019 10:40	285,789
26/03/2019 10:42	304,565
26/03/2019 10:44	313,203
26/03/2019 10:46	307,469
26/03/2019 10:48	318,837
26/03/2019 10:50	324,19
26/03/2019 10:52	362,443
26/03/2019 10:54	303,137

26/03/2019 10:56	312,362
26/03/2019 10:58	284,278
26/03/2019 11:00	321,495
26/03/2019 11:02	309,052
26/03/2019 11:04	322,889
26/03/2019 11:06	325,151
26/03/2019 11:08	304,969
26/03/2019 11:10	323,339
26/03/2019 11:12	305,985
26/03/2019 11:14	304,83
26/03/2019 11:16	296,479
26/03/2019 11:18	264,582
26/03/2019 11:20	316,001
26/03/2019 11:22	305,829
26/03/2019 11:24	310,647
26/03/2019 11:26	310,459
26/03/2019 11:28	307,722
26/03/2019 11:30	268,972
26/03/2019 11:32	323,197
26/03/2019 11:34	306,065
26/03/2019 11:36	328,486
26/03/2019 11:38	301,89
26/03/2019 11:40	308,198
26/03/2019 11:42	310,897
26/03/2019 11:44	351,583
26/03/2019 11:46	322,974
26/03/2019 11:48	345,302
26/03/2019 11:50	316,111
26/03/2019 11:52	286,907
26/03/2019 11:54	331,02
26/03/2019 11:56	303,615
26/03/2019 11:58	300,974
26/03/2019 12:00	319,483
26/03/2019 12:02	310,065
26/03/2019 12:04	323,557
26/03/2019 12:06	295,999
26/03/2019 12:08	316,302
26/03/2019 12:10	299,471
26/03/2019 12:12	319,185
26/03/2019 12:14	291,719
26/03/2019 12:16	246,468
26/03/2019 12:18	283,117
26/03/2019 12:20	288,35
26/03/2019 12:22	341,934
26/03/2019 12:24	329,565


26/03/2019 12:26	299,934
26/03/2019 12:28	303,452
26/03/2019 12:30	330,116
26/03/2019 12:32	302,258
26/03/2019 12:34	296,584
26/03/2019 12:36	292,594
26/03/2019 12:38	313,433
26/03/2019 12:40	312,844
26/03/2019 12:42	302,49
26/03/2019 12:44	307,32
26/03/2019 12:46	311,498
26/03/2019 12:48	317,861
26/03/2019 12:50	350,125
26/03/2019 12:52	294,605
26/03/2019 12:54	284,743
26/03/2019 12:56	339,343
26/03/2019 12:58	298,591
26/03/2019 13:00	323,655
26/03/2019 13:02	304,478
26/03/2019 13:04	310,321
26/03/2019 13:06	325,233
26/03/2019 13:08	292,183
26/03/2019 13:10	291,841
26/03/2019 13:12	322,566
26/03/2019 13:14	338,993
26/03/2019 13:16	278,886
26/03/2019 13:18	287,806
26/03/2019 13:20	313,043
26/03/2019 13:22	325,316
26/03/2019 13:24	335,379
26/03/2019 13:26	323,374
26/03/2019 13:28	269,715
26/03/2019 13:30	303,398
26/03/2019 13:32	312,852
26/03/2019 13:34	280,212
26/03/2019 13:36	294,842
26/03/2019 13:38	293,914
26/03/2019 13:40	261,826
26/03/2019 13:42	298,266
26/03/2019 13:44	322,774
26/03/2019 13:46	332,492
26/03/2019 13:48	322,144
26/03/2019 13:50	329,812
26/03/2019 13:52	287,474
26/03/2019 13:54	326,284

26/03/2019 13:56	313,342
26/03/2019 13:58	334,139
26/03/2019 14:00	326,152
26/03/2019 14:02	314,429
26/03/2019 14:04	284,899
26/03/2019 14:06	328,581
26/03/2019 14:08	350,931
26/03/2019 14:10	322,738
26/03/2019 14:12	342,388
26/03/2019 14:14	308,295
26/03/2019 14:16	280,137
26/03/2019 14:18	329,95
26/03/2019 14:20	299,769
26/03/2019 14:22	305,021
26/03/2019 14:24	328,65
26/03/2019 14:26	289,566
26/03/2019 14:28	314,237
26/03/2019 14:30	273,603
26/03/2019 14:32	288,684
26/03/2019 14:34	304,352
26/03/2019 14:36	326,013
26/03/2019 14:38	313,574
26/03/2019 14:40	294,477
26/03/2019 14:42	318,721
26/03/2019 14:44	306,119
26/03/2019 14:46	311,522
26/03/2019 14:48	318,335
26/03/2019 14:50	284,136
26/03/2019 14:52	321,084
26/03/2019 14:54	290,989
26/03/2019 14:56	307,583
26/03/2019 14:58	319,149
26/03/2019 15:00	289,336
26/03/2019 15:02	308,547
26/03/2019 15:04	299,916
26/03/2019 15:06	296,463
26/03/2019 15:08	298,816
26/03/2019 15:10	294,047
26/03/2019 15:12	313,173
26/03/2019 15:14	313,382
26/03/2019 15:16	298,222
26/03/2019 15:18	272,894
26/03/2019 15:20	295,618
26/03/2019 15:22	329,418
26/03/2019 15:24	268,926

26/03/2019 15:26	293,197
26/03/2019 15:28	320,435
26/03/2019 15:30	298,11
26/03/2019 15:32	334,47
26/03/2019 15:34	312,098
26/03/2019 15:36	302,829
26/03/2019 15:38	322,283
26/03/2019 15:40	328,251
26/03/2019 15:42	331,256
26/03/2019 15:44	296,704
26/03/2019 15:46	298,313
26/03/2019 15:48	299,558
26/03/2019 15:50	295,577
26/03/2019 15:52	291,228
26/03/2019 15:54	275,21
26/03/2019 15:56	304,85
26/03/2019 15:58	315,139
26/03/2019 16:00	289,541
26/03/2019 16:02	303,881
26/03/2019 16:04	283,388
26/03/2019 16:06	371,361
26/03/2019 16:08	315,592
26/03/2019 16:10	355,997
26/03/2019 16:12	326,721
26/03/2019 16:14	303,025
26/03/2019 16:16	324,916
26/03/2019 16:18	295,419
26/03/2019 16:20	279,716
26/03/2019 16:22	322,303
26/03/2019 16:24	264,044
26/03/2019 16:26	295,85
26/03/2019 16:28	326,996
26/03/2019 16:30	277,907
26/03/2019 16:32	295,176
26/03/2019 16:34	315,036
26/03/2019 16:36	319,553
26/03/2019 16:38	275,134
26/03/2019 16:40	298,398
26/03/2019 16:42	286,443
26/03/2019 16:44	316,916
26/03/2019 16:46	302,478
26/03/2019 16:48	313,02
26/03/2019 16:50	301,604
26/03/2019 16:52	282,612
26/03/2019 16:54	255,516

26/03/2019 16:56	301,053
26/03/2019 16:58	288,071
26/03/2019 17:00	334,616
26/03/2019 17:02	300,593
26/03/2019 17:04	307,839
26/03/2019 17:06	326,166
26/03/2019 17:08	326,425
26/03/2019 17:10	270,519
26/03/2019 17:12	323,241
26/03/2019 17:14	302,287
26/03/2019 17:16	296,059
26/03/2019 17:18	291,249
26/03/2019 17:20	287,276
26/03/2019 17:22	287,131
26/03/2019 17:24	305,655
26/03/2019 17:26	274,949
26/03/2019 17:28	302,053
26/03/2019 17:30	295,139
26/03/2019 17:32	314,727
26/03/2019 17:34	289,953
26/03/2019 17:36	316,057
26/03/2019 17:38	292,736
26/03/2019 17:40	271,484
26/03/2019 17:42	277,95
26/03/2019 17:44	285,799
26/03/2019 17:46	263,111
26/03/2019 17:48	285,021
26/03/2019 17:50	280,717
26/03/2019 17:52	272,138
26/03/2019 17:54	251,711
26/03/2019 17:56	271,283
26/03/2019 17:58	271,371
26/03/2019 18:00	259,63
26/03/2019 18:02	272,993
26/03/2019 18:04	288,257
26/03/2019 18:06	282,815
26/03/2019 18:08	271,994
26/03/2019 18:10	257,459
26/03/2019 18:12	252,42
26/03/2019 18:14	260,348
26/03/2019 18:16	289,727
26/03/2019 18:18	263,819
26/03/2019 18:20	231,489
26/03/2019 18:22	228,768
26/03/2019 18:24	225,4

26/03/2019 18:26	221,515
26/03/2019 18:28	235,583
26/03/2019 18:30	264,62
26/03/2019 18:32	269,922
26/03/2019 18:34	219,173
26/03/2019 18:36	207,064
26/03/2019 18:38	213,52
26/03/2019 18:40	148,242
26/03/2019 18:42	171,457
26/03/2019 18:44	148,515
26/03/2019 18:46	121,073
26/03/2019 18:48	193,58
26/03/2019 18:50	166,236
26/03/2019 18:52	43,856
26/03/2019 18:54	108,828
26/03/2019 18:56	154,833
26/03/2019 18:58	122,897
26/03/2019 19:00	125,611
26/03/2019 19:02	45,435
26/03/2019 19:04	42,795
26/03/2019 19:06	83,734
26/03/2019 19:08	74,93
26/03/2019 19:10	23,266
26/03/2019 19:12	68,813
26/03/2019 19:14	62,298
26/03/2019 19:16	64,426
26/03/2019 19:18	35,957
26/03/2019 19:20	59,739
26/03/2019 19:22	43,854
26/03/2019 19:24	30,626
26/03/2019 19:26	5,454
26/03/2019 19:28	39,795
26/03/2019 19:30	13,629
26/03/2019 19:32	18,47
26/03/2019 19:34	22,718
26/03/2019 19:36	25,006
26/03/2019 19:38	24,277
26/03/2019 19:40	28,336
26/03/2019 19:42	9,232
26/03/2019 19:44	0
26/03/2019 19:46	0
26/03/2019 19:48	0
26/03/2019 19:50	0
26/03/2019 19:52	0
26/03/2019 19:54	0

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26/03/2019 19:56	0
26/03/2019 19:58	0
PROMEDIO	255,65 kW

Tabla 6: Pérdidas de potencia activa en transformador de poder de la central (kW).

11. POTENCIA REGISTRADA EN SERVICIOS AUXILIARES DE LA CENTRAL (kW).

La siguiente tabla muestra la potencia registrada por el contador de servicios auxiliares para el día 26 de marzo de 2019 e instalado para tal fin. Según estos valores tenemos un promedio de potencia de 6,385 kW para SSAA.

26 marzo 2019 – 26 marzo 2019	
Fecha/hora	CL URI SE FV CONTADOR SSAA POTENCIA ACTIVA III (kW)
26/03/2019 0:00	7,808
26/03/2019 0:02	7,701
26/03/2019 0:04	6,992
26/03/2019 0:06	7,543
26/03/2019 0:08	8,361
26/03/2019 0:10	7,159
26/03/2019 0:12	6,535
26/03/2019 0:14	7,829
26/03/2019 0:16	8,889
26/03/2019 0:18	7,165
26/03/2019 0:20	5,881
26/03/2019 0:22	7,847
26/03/2019 0:24	9,019
26/03/2019 0:26	7,504
26/03/2019 0:28	7,076
26/03/2019 0:30	5,812
26/03/2019 0:32	6,689
26/03/2019 0:34	6,036
26/03/2019 0:36	6,355
26/03/2019 0:38	5,806
26/03/2019 0:40	5,813
26/03/2019 0:42	6,889
26/03/2019 0:44	6,220
26/03/2019 0:46	5,496

26/03/2019 0:48	4,705
26/03/2019 0:50	6,200
26/03/2019 0:52	6,982
26/03/2019 0:54	6,088
26/03/2019 0:56	6,461
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26/03/2019 20:10	6,595
26/03/2019 20:12	7,104
26/03/2019 20:14	7,161
26/03/2019 20:16	6,594
26/03/2019 20:18	5,814
26/03/2019 20:20	7,154
26/03/2019 20:22	7,059
26/03/2019 20:24	5,785
26/03/2019 20:26	6,587
26/03/2019 20:28	6,465
26/03/2019 20:30	6,046
26/03/2019 20:32	4,496
26/03/2019 20:34	5,452
26/03/2019 20:36	5,628
26/03/2019 20:38	4,378
26/03/2019 20:40	4,992
26/03/2019 20:42	5,722
26/03/2019 20:44	5,043
26/03/2019 20:46	4,480
26/03/2019 20:48	5,701
26/03/2019 20:50	5,731
26/03/2019 20:52	4,525
26/03/2019 20:54	5,877
26/03/2019 20:56	7,023
26/03/2019 20:58	6,043
26/03/2019 21:00	7,247
26/03/2019 21:02	7,391
26/03/2019 21:04	7,300
26/03/2019 21:06	7,239
26/03/2019 21:08	7,017
26/03/2019 21:10	5,452
26/03/2019 21:12	6,332
26/03/2019 21:14	7,326
26/03/2019 21:16	9,099
26/03/2019 21:18	10,434
26/03/2019 21:20	9,706
26/03/2019 21:22	10,595
26/03/2019 21:24	10,650
26/03/2019 21:26	8,386
26/03/2019 21:28	5,378
26/03/2019 21:30	5,148
26/03/2019 21:32	6,211
26/03/2019 21:34	6,466

26/03/2019 21:36	5,991
26/03/2019 21:38	4,147
26/03/2019 21:40	4,490
26/03/2019 21:42	5,770
26/03/2019 21:44	6,213
26/03/2019 21:46	5,955
26/03/2019 21:48	4,832
26/03/2019 21:50	4,507
26/03/2019 21:52	5,845
26/03/2019 21:54	6,831
26/03/2019 21:56	5,874
26/03/2019 21:58	7,016
26/03/2019 22:00	7,409
26/03/2019 22:02	6,800
26/03/2019 22:04	5,732
26/03/2019 22:06	6,939
26/03/2019 22:08	7,088
26/03/2019 22:10	6,263
26/03/2019 22:12	7,111
26/03/2019 22:14	7,935
26/03/2019 22:16	7,193
26/03/2019 22:18	5,620
26/03/2019 22:20	6,722
26/03/2019 22:22	7,497
26/03/2019 22:24	6,728
26/03/2019 22:26	5,873
26/03/2019 22:28	6,120
26/03/2019 22:30	5,790
26/03/2019 22:32	4,283
26/03/2019 22:34	5,920
26/03/2019 22:36	6,211
26/03/2019 22:38	5,003
26/03/2019 22:40	5,224
26/03/2019 22:42	6,116
26/03/2019 22:44	6,051
26/03/2019 22:46	4,275
26/03/2019 22:48	5,633
26/03/2019 22:50	6,199
26/03/2019 22:52	4,998
26/03/2019 22:54	5,748
26/03/2019 22:56	6,930
26/03/2019 22:58	7,109
26/03/2019 23:00	6,288
26/03/2019 23:02	7,829
26/03/2019 23:04	8,761
26/03/2019 23:06	8,599
26/03/2019 23:08	8,644
26/03/2019 23:10	8,557

26/03/2019 23:12	9,037
26/03/2019 23:14	7,462
26/03/2019 23:16	6,903
26/03/2019 23:18	7,260
26/03/2019 23:20	7,271
26/03/2019 23:22	8,247
26/03/2019 23:24	8,485
26/03/2019 23:26	8,149
26/03/2019 23:28	6,258
26/03/2019 23:30	5,961
26/03/2019 23:32	7,375
26/03/2019 23:34	7,144
26/03/2019 23:36	6,445
26/03/2019 23:38	5,771
26/03/2019 23:40	5,894
26/03/2019 23:42	5,323
26/03/2019 23:44	4,323
26/03/2019 23:46	5,690
26/03/2019 23:48	6,126
26/03/2019 23:50	5,474
26/03/2019 23:52	4,751
26/03/2019 23:54	6,007
26/03/2019 23:56	9,115
26/03/2019 23:58	8,594
PROMEDIO	6,385

Tabla 7: Potencia registrada en contador de Servicios Auxiliares (kW).

12. PÉRDIDAS EN EL SISTEMA COLECTOR DEL PARQUE FOTOVOLTAICO URIBE SOLAR (kW).

Las siguientes tablas muestran la potencia AC en baja tensión generada en los centros inversores, antes de su conversión a media tensión, registrada por el contador para el día 26 de marzo de 2019.

El promedio de pérdidas en el sistema colector de la central URIBE SOLAR para el día 26 de marzo de 2019 es de 77,77 kW.

El promedio de pérdidas en el sistema colector de la central URIBE SOLAR para un día de **Mínimo Técnico**, como fue el día 11 de abril de 2019, es de 68,35 kW.



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Fecha/hora	POTENCIA AC GENERADA P1 (kW)	POTENCIA AC GENERADA P2 (kW)	POTENCIA AC GENERADA P3 (kW)	POTENCIA AC GENERADA P4 (kW)	POTENCIA AC GENERADA P5 (kW)	POTENCIA AC GENERADA P6 (kW)	POTENCIA AC GENERADA P7 (kW)	POTENCIA AC GENERADA P8 (kW)	POTENCIA AC GENERADA P9 (kW)	POTENCIA AC GENERADA P10 (kW)
26/03/2019 7:30	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:32	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:34	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:36	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:38	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:40	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:42	0	0	0,094	0,162	0	0,064	0,033	0	0,044	0
26/03/2019 7:44	2,151	2,29	1,576	1,939	1,896	0,606	2,086	1,543	0,324	1,332
26/03/2019 7:46	4,614	5,119	4,249	4,461	4,187	3,075	5,041	4,577	3,717	3,952
26/03/2019 7:48	4,333	4,282	0,449	6,948	6,608	0,899	2,299	6,348	7,463	7,405
26/03/2019 7:50	4,314	4,522	6,418	5,689	5,152	4,628	4,376	5,263	5,98	6,662
26/03/2019 7:52	8,571	8,97	9,128	8,612	6,855	7,61	8,7	9,312	5,081	9,4
26/03/2019 7:54	13,175	13,007	13,696	12,653	12,643	12,524	6,038	13,13	7,65	13,465
26/03/2019 7:56	16,982	17,508	16,942	16,955	16,321	16,238	18,219	17,725	16,897	17,397
26/03/2019 7:58	21,592	21,531	21,579	21,084	19,921	19,798	22,734	21,943	21,129	20,793
26/03/2019 8:00	29,52	27,229	26,352	26,079	23,877	24,483	26,368	25,524	24,855	23,992
26/03/2019 8:02	46,719	42,973	36,744	31,329	29,026	28,595	30,671	30,2	27,829	28,274
26/03/2019 8:04	65,655	61,328	58,469	45,744	37,201	34,157	36,052	35,029	32,534	32,082
26/03/2019 8:06	91,734	86,204	80,466	71,66	54,522	47,352	41,023	40,132	37,031	36,066
26/03/2019 8:08	120,482	114,037	108,713	113,327	87,61	71,299	49,617	45,275	40,748	41,6
26/03/2019 8:10	152,93	146,503	142,109	150,986	131,446	111,305	81,676	51,825	45,532	46,375
26/03/2019 8:12	186,348	182,353	177,255	187,576	166,262	163,387	141,167	67,163	53,407	50,046
26/03/2019 8:14	225,472	224,668	214,432	224,775	204,505	204,236	223,867	153,633	79,801	56,759
26/03/2019 8:16	268,991	269,564	259,689	271,73	251,468	247,818	280,19	284,565	138,037	76,383
26/03/2019 8:18	327,245	315,877	309,281	323,626	298,658	295,621	329,984	344,248	222,913	230,495
26/03/2019 8:20	378,985	371,396	363,189	373,11	345,722	337,516	386,815	398,99	348,281	386,136
26/03/2019 8:22	431,33	422,035	410,286	423,283	401,459	389,385	436,479	450,115	427,374	446,363
26/03/2019 8:24	492,159	483,825	475,643	479,967	455,924	453,664	490,914	517,998	490,839	506,558
26/03/2019 8:26	535,284	539,389	529,405	540,008	517,336	505,182	564,138	583,78	551,698	570,094
26/03/2019 8:28	597,907	598,81	587,267	599,751	565,34	556,667	631,167	642,57	610,978	624,681
26/03/2019 8:30	656,356	652,098	640,171	656,672	621,45	622,041	702,176	704,474	662,045	686,994
26/03/2019 8:32	720,398	716,128	699,872	721,234	682,353	679,085	765,423	761,704	726,138	750,872
26/03/2019 8:34	765,568	771,632	760,975	782,59	751,89	737,753	830,158	820,592	781,332	814,397
26/03/2019 8:36	832,277	836,966	822,137	839,227	805,737	805,905	885,255	900,884	844,906	868,726
26/03/2019 8:38	886,479	897,14	868,23	894,316	856,844	864,004	960,723	973,013	899,616	934,336
26/03/2019 8:40	947,198	949,655	943,206	955,663	916,196	922,319	1031,925	1036,852	959,973	991,253
26/03/2019 8:42	998,634	997,66	993,865	1010,111	971,023	976,162	1107,695	1101,273	1010,614	1047,342
26/03/2019 8:44	1058,957	1061,396	1055,246	1075,53	1019,801	1035,904	1176,331	1165,764	1073,875	1106,406
26/03/2019 8:46	1119,438	1119,609	1108,979	1136,555	1084,52	1087,951	1238,791	1224,495	1134,889	1155,058
26/03/2019 8:48	1184,275	1183,713	1170,616	1189,56	1147,64	1148,069	1310,171	1289,968	1190,839	1219,445
26/03/2019 8:50	1242,999	1243,592	1228,762	1256,962	1203,98	1207,491	1374,802	1356,336	1249,284	1281,082
26/03/2019 8:52	1298,94	1302,919	1292,379	1315,544	1260,856	1266,031	1442,73	1421,146	1307,408	1352,329
26/03/2019 8:54	1359,08	1365,207	1355,776	1379,33	1316,486	1320,443	1504,856	1479,039	1360,159	1412,65
26/03/2019 8:56	1430,475	1427,895	1412,713	1440,885	1385,428	1388,59	1563,538	1544,382	1412,356	1476,175
26/03/2019 8:58	1487,789	1476,728	1476,52	1500,834	1471,313	1449,689	1640,098	1628,174	1456,481	1537,87
26/03/2019 9:00	1509,446	1526,509	1531,264	1555,37	1517,107	1530,783	1697,612	1690,404	1479,936	1596,311
26/03/2019 9:02	1546,605	1569,652	1577,963	1592,096	1580,473	1578,035	1733,65	1712,358	1502,774	1613,975
26/03/2019 9:04	1576,195	1587,676	1601,06	1604,921	1583,388	1594,55	1736,462	1729,73	1533,277	1618,849
26/03/2019 9:06	1581,906	1596,865	1606,791	1619,989	1601,13	1613,825	1759,343	1735,632	1546,55	1634,951
26/03/2019 9:08	1597,253	1600,597	1618,988	1632,957	1622,015	1627,311	1781,29	1753,145	1563,746	1645,92
26/03/2019 9:10	1608,018	1610,255	1636,091	1652,141	1619,522	1634,585	1799,024	1777,223	1577,308	1664,249
26/03/2019 9:12	1623,852	1619,464	1635,554	1661,947	1644,974	1639,051	1810,357	1785,402	1593,13	1685,1



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26/03/2019 9:14	1636,041	1639,974	1658,441	1655,304	1654,968	1663,228	1826,203	1797,24	1616,504	1697,267
26/03/2019 9:16	1645,981	1644,829	1671,061	1681,463	1664,798	1675,303	1837,601	1817,622	1628,617	1709,551
26/03/2019 9:18	1664,083	1654,905	1678,15	1694,504	1669,095	1685,704	1852,364	1833,847	1636,661	1719,829
26/03/2019 9:20	1659,424	1660,374	1690,784	1704,6	1692,649	1695,933	1864,843	1846,428	1691,962	1735,358
26/03/2019 9:22	1657,404	1681,425	1702,974	1720,147	1696,448	1704,314	1871,685	1861,413	1751,287	1745,385
26/03/2019 9:24	1675,469	1697,261	1712,525	1720,129	1699,278	1713,073	1865,679	1868,001	1775,726	1758,229
26/03/2019 9:26	1696,738	1702,63	1705,036	1736,847	1708,686	1721,846	1892,72	1883,978	1766,04	1770,971
26/03/2019 9:28	1695,767	1691,002	1699,16	1743,482	1729,338	1729,683	1908,086	1891,64	1777,364	1775,025
26/03/2019 9:30	1706,643	1687,54	1722,044	1753,447	1729,738	1739,054	1908,507	1893,573	1791,62	1776,226
26/03/2019 9:32	1721,481	1719,888	1727,472	1754,47	1740,8	1744,178	1913,996	1898,823	1789,084	1789,876
26/03/2019 9:34	1716,408	1705,494	1735,256	1761,978	1744,516	1750,038	1922,14	1899,887	1808,066	1793,651
26/03/2019 9:36	1725,606	1733,884	1742,654	1761,663	1751,923	1755,59	1928,626	1911,655	1806,552	1801,989
26/03/2019 9:38	1695,728	1734,354	1741,731	1762,8	1757,805	1760,868	1938,354	1917,319	1819,857	1803,598
26/03/2019 9:40	1739,141	1740,894	1752,334	1763,726	1755,003	1768,386	1946,012	1925,727	1823,305	1811,373
26/03/2019 9:42	1750,552	1755,904	1769,521	1783,237	1769,622	1777,965	1942,16	1935,523	1827,865	1818,688
26/03/2019 9:44	1751,849	1744,647	1780,389	1791,644	1776,284	1787,351	1963,033	1943,088	1822,418	1828,611
26/03/2019 9:46	1753,068	1770,553	1776,388	1791,472	1788,269	1793,172	1972,161	1938,017	1835,951	1830,545
26/03/2019 9:48	1773,008	1771,321	1785,82	1808,627	1796,957	1800,327	1978,957	1949,595	1856,636	1831,977
26/03/2019 9:50	1778,048	1783,967	1804,669	1812,22	1795,335	1806,266	1983,325	1960,081	1864,238	1842,53
26/03/2019 9:52	1778,823	1797,147	1802,804	1796,973	1792,204	1812,274	1990,157	1961,928	1868,676	1849,955
26/03/2019 9:54	1793,666	1780,404	1806,129	1822,141	1818,517	1809,786	1992,628	1972,574	1868,645	1856,153
26/03/2019 9:56	1802,907	1794,2	1807,095	1829,519	1817,7	1827,318	1998,614	1980,341	1868,626	1860,654
26/03/2019 9:58	1802,923	1792,769	1820,532	1838,8	1828,596	1833,503	1994,216	1988,771	1875,385	1873,474
26/03/2019 10:00	1807,307	1802,961	1835,734	1833,97	1822,899	1835,977	1993,207	1997,474	1885,073	1877,865
26/03/2019 10:02	1823,683	1812,064	1835,506	1848,794	1841,319	1840,85	1991,219	2002,233	1897,928	1877,988
26/03/2019 10:04	1809,25	1821,364	1846,892	1860,937	1834,314	1850,11	1990,768	2012,458	1901,884	1892,209
26/03/2019 10:06	1827,914	1823,831	1836,774	1869,066	1847,898	1857,327	1992,396	2021,034	1899,126	1901,739
26/03/2019 10:08	1827,882	1841,387	1853,835	1860,118	1843,661	1853,485	1990,29	2025,329	1908,202	1906,383
26/03/2019 10:10	1845,705	1843,718	1841,839	1866,924	1862,7	1865,34	1990,67	2031,597	1926,351	1912,409
26/03/2019 10:12	1843,578	1831,242	1842,641	1873,478	1855,894	1873,887	1987,841	2035,224	1918,613	1917,372
26/03/2019 10:14	1848,243	1849,364	1860,333	1886,738	1867,523	1880,56	1990,133	2039,814	1921,486	1915,546
26/03/2019 10:16	1853,152	1852,399	1851,925	1878,634	1858,908	1886,311	1992,341	2042,879	1901,558	1908,133
26/03/2019 10:18	1846,195	1853,123	1851,043	1884,068	1875,596	1886,895	1987,239	2043,737	1937,544	1917,403
26/03/2019 10:20	1848,173	1840,869	1860,381	1900,083	1872,172	1890,953	1988,311	2046,32	1944,144	1931,908
26/03/2019 10:22	1855,37	1855,001	1878,489	1866,945	1854,955	1891,79	1985,864	2050,306	1925,053	1934,03
26/03/2019 10:24	1856,402	1859,494	1867,886	1894,744	1878,139	1895,401	1985,389	2053,895	1931,959	1938,558
26/03/2019 10:26	1847,385	1863,333	1882,612	1904,624	1888,348	1900,161	1985,712	2063,102	1942,394	1935,801
26/03/2019 10:28	1856,468	1866,525	1875,554	1898,605	1895,658	1906,147	1984,658	2065,073	1915,919	1926,184
26/03/2019 10:30	1866,787	1871,28	1877,387	1907,521	1903,652	1901,204	1985,183	2065,731	1937,997	1929,661
26/03/2019 10:32	1865,692	1869,287	1873,575	1906,097	1903,005	1906,189	1986,212	2061,12	1939,884	1934,552
26/03/2019 10:34	1869,103	1874,45	1884,897	1907,201	1904,673	1910,802	1990,239	2064,002	1966,139	1947,198
26/03/2019 10:36	1869,646	1870,413	1888,547	1918,351	1885,251	1913,398	1983,603	2070,337	1966,178	1952,194
26/03/2019 10:38	1849,224	1869,779	1886,778	1909,402	1905,915	1903,494	2011,188	2071,662	1965,897	1952,389
26/03/2019 10:40	1871,988	1873,988	1895,353	1914,791	1905,746	1907,401	2090,095	2067,86	1952,416	1951,011
26/03/2019 10:42	1877,811	1883,73	1885,473	1901,353	1908,796	1913,259	2095,416	2073,245	1959,157	1952,544
26/03/2019 10:44	1870,378	1866,378	1897,323	1908,969	1900,371	1913,27	1993,306	2072,972	1932,248	1950,288
26/03/2019 10:46	1869,724	1880,098	1886,633	1898,512	1884,501	1911,509	1981,062	2068,925	1948,53	1950,444
26/03/2019 10:48	1871,03	1886,267	1894,139	1911,061	1902,803	1912,947	2005,141	2068,084	1968,468	1947,856
26/03/2019 10:50	1849,846	1881,607	1899,977	1898,051	1907,815	1919,657	2012,52	2071,514	1967,428	1953,037
26/03/2019 10:52	1862,665	1882,726	1873,961	1876,557	1911,839	1919,399	1982,047	2074,004	1974,523	1951,7
26/03/2019 10:54	1872,379	1889,345	1888,161	1905,89	1899,985	1917,124	1992,003	2074,64	1963,781	1953,386
26/03/2019 10:56	1876,048	1873,3	1883,367	1916,735	1904,555	1916,817	2017,04	2071,454	1960,934	1953,869
26/03/2019 10:58	1874,21	1870,874	1889,179	1912,664	1899,58	1919,227	1979,867	2073,029	1966,626	1954,261
26/03/2019 11:00	1877,105	1874,013	1900,634	1917,83	1915,457	1917,614	1993,242	2073,223	1966,093	1952,577
26/03/2019 11:02	1874,61	1881,665	1897,14	1917,854	1912,088	1918,449	2020,965	2073,199	1967,638	1948,82
26/03/2019 11:04	1863,87	1875,863	1893,427	1917,658	1911,507	1917,918	1980,633	2066,89	1970,615	1952,594
26/03/2019 11:06	1861,958	1878,653	1904,864	1907,026	1911,85	1917,167	1984,64	2069,723	1961,698	1956,266
26/03/2019 11:08	1868,55	1869,518	1879,663	1908,447	1911,095	1916,296	2025,628	2065,809	1967,31	1956,59
26/03/2019 11:10	1874,472	1858,002	1883,351	1905,763	1896,424	1914,392	1974,646	2063,985	1971,782	1953,259
26/03/2019 11:12	1853,886	1855,425	1889,263	1882,347	1888,666	1908,38	1979,324	2057,214	1953,975	1946,935
26/03/2019 11:14	1862,456	1848,405	1891,915	1889,784	1881,166	1907,788	2011,869	2055,845	1957,92	1946,486

26/03/2019 11:16	1862,337	1866,043	1872,984	1902,67	1884,336	1904,105	1980,266	2050,708	1954,02	1944,964
26/03/2019 11:18	1845,906	1856,459	1862,237	1893,711	1879,043	1897,802	1982,883	2052,868	1921,84	1938,343
26/03/2019 11:20	1809,535	1869,105	1886,32	1884,463	1885,69	1901,978	2015,921	2055,139	1951,127	1942,316
26/03/2019 11:22	1841,264	1855,231	1874,389	1881,319	1890,404	1907,486	1976,953	2053,941	1912,75	1941,944
26/03/2019 11:24	1855,778	1862,609	1878,903	1893,649	1885,183	1909,607	1976,871	2051,479	1949,039	1942,566
26/03/2019 11:26	1851,118	1862,104	1878,554	1892,801	1879,768	1912,044	2019,598	2048,215	1942,755	1950,014
26/03/2019 11:28	1835,773	1857,706	1886,46	1897,613	1901,099	1904,195	1977,992	2047,882	1945,208	1950,453
26/03/2019 11:30	1842,093	1869,364	1887,079	1889,315	1899,86	1889,43	1977,857	2046,223	1948,101	1946,789
26/03/2019 11:32	1845,373	1856,876	1882,816	1896,193	1890,724	1898,583	2012,836	2036,21	1950,677	1943,048
26/03/2019 11:34	1842,132	1841,978	1872,02	1894,431	1895,519	1890,353	1977,644	2042,576	1941,893	1940,924
26/03/2019 11:36	1839,618	1846,361	1869,389	1894,674	1888,292	1882,242	1979,569	2042,762	1943,024	1929,518
26/03/2019 11:38	1851,068	1855,442	1848,117	1887,052	1881,553	1878,238	2015,677	2041,26	1948,587	1928,354
26/03/2019 11:40	1845,204	1854,177	1857,239	1878,691	1879,531	1868,674	1976,462	2038,915	1949,373	1932,586
26/03/2019 11:42	1846,717	1841,241	1851,345	1886,564	1871,49	1882,492	1976,726	2038,061	1927,819	1925,628
26/03/2019 11:44	1846,163	1850,25	1860,529	1893,468	1880,088	1886,145	1977,955	2037,703	1899,724	1925,929
26/03/2019 11:46	1859,215	1851,498	1872,206	1898,741	1886,069	1887,299	1977,488	2042,028	1945,966	1926,39
26/03/2019 11:48	1824,789	1855,598	1860,785	1889,863	1881,589	1884,213	1976,508	2047,557	1942,77	1922,306
26/03/2019 11:50	1842,822	1858,755	1844,722	1901,945	1891,462	1893,929	1977,368	2039,841	1921,161	1921,204
26/03/2019 11:52	1844,883	1861,954	1853,624	1898,676	1874,31	1896,317	1978,978	2043,664	1946,005	1925,005
26/03/2019 11:54	1854,223	1856,007	1867,967	1896,886	1885,432	1897,79	1975,845	2049,384	1943,805	1930,735
26/03/2019 11:56	1845,235	1860,016	1864,398	1898,028	1875,088	1890,15	1976,042	2054,729	1951,299	1939,177
26/03/2019 11:58	1856,033	1850,537	1863,905	1887,284	1893,91	1901,226	1973,226	2052,076	1942,821	1938,729
26/03/2019 12:00	1829,627	1872,617	1880,007	1885,036	1898,243	1903,062	1976,335	2045,908	1947,948	1931,046
26/03/2019 12:02	1855,676	1872,279	1864,28	1886	1891,187	1906,181	1975,581	2050,056	1953,552	1934,517
26/03/2019 12:04	1856,787	1852,816	1879,605	1900,987	1898,665	1901,844	1976,597	2056,759	1962,266	1933,943
26/03/2019 12:06	1849,227	1862,929	1880,37	1900,721	1885,852	1900,888	1973,332	2063,714	1950,916	1928,259
26/03/2019 12:08	1841,309	1858,536	1881,35	1905,477	1890,807	1904,017	1973,517	2059,709	1956,242	1932,85
26/03/2019 12:10	1852,23	1863,003	1886,41	1882,189	1876,49	1905,62	1974,294	2059,486	1941,038	1937,492
26/03/2019 12:12	1840,733	1856,29	1878,771	1874,33	1896,289	1908,783	1974,416	2057,725	1941,491	1943,272
26/03/2019 12:14	1844,752	1864,154	1884,132	1898,942	1901,197	1906,488	1975,555	2060,486	1956,247	1941,91
26/03/2019 12:16	1862,817	1870,855	1863,239	1905,496	1885,094	1906,615	1975,969	2062,48	1961,356	1935,676
26/03/2019 12:18	1866,053	1872,862	1878,481	1888,279	1896,034	1907,435	1975,72	2039,047	1946,275	1939,128
26/03/2019 12:20	1860,184	1872,722	1877,174	1906,342	1899,105	1911,132	1976,33	2063,715	1945,879	1941,832
26/03/2019 12:22	1858,266	1862,401	1867,842	1891,822	1883,614	1901,984	1973,727	2060,232	1951,449	1945,069
26/03/2019 12:24	1849,484	1860,869	1866,839	1891,66	1884,094	1906,894	1974,989	2062,019	1957,658	1946,075
26/03/2019 12:26	1857,159	1853,098	1878,356	1907,005	1862,59	1903,243	1975,527	2059,834	1937,866	1941,909
26/03/2019 12:28	1840,245	1855,239	1883,284	1897,432	1864,186	1872,719	1975,592	2057,69	1915,744	1930,474
26/03/2019 12:30	1841,229	1855,256	1866,268	1891,543	1861,399	1868,112	1975,091	2054,645	1939,33	1935,028
26/03/2019 12:32	1826,833	1847,334	1866,615	1890,492	1854,103	1864,618	1974,711	2055,933	1948,078	1921,138
26/03/2019 12:34	1852,153	1856,904	1867,363	1890,05	1862,019	1874,746	1973,926	2053,453	1948,617	1924,805
26/03/2019 12:36	1835,136	1833,299	1868,895	1903,395	1854,667	1875,06	1973,171	2052,641	1952,848	1931,553
26/03/2019 12:38	1839,028	1858,827	1857,905	1901,63	1862,579	1867,926	1974,339	2060,838	1941,011	1926,265
26/03/2019 12:40	1853,026	1861,73	1866,809	1905,25	1859,503	1855,178	1974,915	2056,999	1937,211	1933,678
26/03/2019 12:42	1852,812	1839,222	1873,473	1900,528	1855,093	1860,125	1973,908	2053,748	1934,755	1932,381
26/03/2019 12:44	1845,63	1858,637	1869,914	1879,39	1858,612	1853,798	1972,435	2059,966	1926,436	1927,056
26/03/2019 12:46	1850,96	1857,818	1871,45	1898,051	1864,5	1858,069	1972,671	2059,604	1945,831	1931,602
26/03/2019 12:48	1864,238	1841,878	1870,811	1900,564	1871,74	1859,204	1971,98	2058,6	1938,127	1937,567
26/03/2019 12:50	1861,904	1864,539	1861,561	1876,231	1853,226	1858,364	1974,256	2058,948	1944,214	1936,474
26/03/2019 12:52	1854,721	1851,498	1854,513	1884,209	1863,791	1858,114	1970,934	2066,319	1958,947	1937,438
26/03/2019 12:54	1855,201	1857,417	1875,796	1895,651	1858,464	1857,535	1973,735	2064,992	1934,067	1941,68
26/03/2019 12:56	1852,736	1852,602	1870,897	1903,572	1872,909	1859,736	1972,783	2072,615	1954,338	1935,763
26/03/2019 12:58	1844,498	1874,521	1874,76	1912,526	1852,051	1858,614	1972,461	2070,309	1948,942	1941,08
26/03/2019 13:00	1859,232	1870,017	1871,087	1906,981	1811,272	1858,778	1973,735	2069,6	1944,476	1947,209
26/03/2019 13:02	1853,617	1868,82	1879,376	1903,747	1791,099	1857,096	1972,676	2075,241	1966,969	1945,806
26/03/2019 13:04	1857,972	1862,014	1876,415	1904,101	1773,61	1853,93	1975,43	2073,892	1945,335	1948,897
26/03/2019 13:06	1857,708	1858,383	1873,198	1903,116	1783,165	1850,732	1974,37	2074,065	1948,659	1943,478
26/03/2019 13:08	1868,199	1848,063	1876,028	1896,721	1790,77	1847,006	1973,987	2070,68	1943,855	1930,611
26/03/2019 13:10	1848,763	1867,365	1872,949	1893,219	1788,111	1842,021	1974,106	2071,899	1951,189	1944,448
26/03/2019 13:12	1862,615	1852,966	1878,048	1896,325	1778,352	1839,773	1974,795	2066,03	1951,735	1939,107
26/03/2019 13:14	1846,951	1850,016	1878,666	1889,508	1774,935	1835,571	1972,624	2062,991	1936,236	1939,759
26/03/2019 13:16	1842,553	1851,539	1845,2	1905,471	1772,437	1823,88	1974,083	2061,186	1938,144	1939,039



PARÁMETROS PARA LOS PROCESOS DE DETERMINACIÓN DE MÍNIMO TÉCNICO FOTOVOLTAICA "URIBE SOLAR", ANTOFAGASTA, CHILE.

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26/03/2019 13:18	1839,089	1846,85	1873,68	1895,522	1775,601	1827,883	1974,126	2063,75	1949,693	1938,433
26/03/2019 13:20	1849,302	1851,832	1870,334	1894,861	1773,902	1828,243	1972,904	2060,538	1943,646	1926,289
26/03/2019 13:22	1838,772	1845,889	1862,614	1898,406	1779,483	1826,034	1972,938	2061,254	1954,34	1933,05
26/03/2019 13:24	1839,313	1862,756	1859,605	1901,657	1770,383	1826,328	1973,466	2058,485	1943,006	1944,241
26/03/2019 13:26	1844,334	1846,49	1854,903	1896,192	1779,703	1821,119	1975,067	2058,035	1956,676	1940,239
26/03/2019 13:28	1838,829	1839,759	1871,98	1881,047	1759,554	1818,114	1973,161	2056,143	1945,298	1938,403
26/03/2019 13:30	1822,696	1855,427	1862,559	1899,61	1769,788	1815,489	1974,246	2056,966	1940,11	1933,574
26/03/2019 13:32	1820,407	1855,734	1855,583	1891,335	1778,524	1813,476	1973,493	2056,446	1950,058	1934,986
26/03/2019 13:34	1842,558	1856,011	1867,607	1880,417	1769,322	1808,443	1974,93	2054,013	1920,154	1935,273
26/03/2019 13:36	1846,695	1846,238	1859,526	1883,004	1756,343	1794,823	1973,116	2051	1936,88	1923,173
26/03/2019 13:38	1837,616	1848,271	1868,086	1887,725	1760,769	1800,414	1972,039	2055,287	1941,989	1929,262
26/03/2019 13:40	1850,318	1837,058	1860,213	1893,753	1776,497	1795,83	1971,921	2043,112	1931,539	1930,981
26/03/2019 13:42	1850,215	1852,55	1866,515	1896,642	1776,061	1796,586	1970,94	2048,352	1934,393	1932,823
26/03/2019 13:44	1840,762	1855,953	1857,953	1900,388	1782,333	1793,123	1971,357	2057,295	1943,303	1931,103
26/03/2019 13:46	1854,071	1851,176	1850,219	1893,329	1764,123	1792,504	1971,753	2057,087	1940,399	1931,331
26/03/2019 13:48	1848,805	1855,024	1848,784	1896,491	1775,966	1791,45	1971,223	2056,682	1938,137	1931,757
26/03/2019 13:50	1843,458	1857,201	1860,556	1886,22	1766,097	1789,531	1971,308	2054,956	1944,67	1934,354
26/03/2019 13:52	1845,35	1851,757	1866,998	1891,324	1757,117	1789,546	1971,108	2054,348	1934,84	1934,051
26/03/2019 13:54	1845,975	1862,275	1874,471	1893,388	1763,793	1791,414	1971,416	2053,984	1937,048	1939,004
26/03/2019 13:56	1841,024	1848,776	1869,578	1900,869	1800,261	1819,478	1971,333	2059,472	1954,376	1939,005
26/03/2019 13:58	1851,274	1854,678	1876,823	1897,382	1871,105	1890,944	1970,553	2064,071	1947,753	1940,178
26/03/2019 14:00	1845,302	1844,833	1861,762	1901,151	1885,162	1908,662	1973,142	2059,556	1952,548	1920,799
26/03/2019 14:02	1851,432	1862,259	1878,421	1900,052	1890,628	1908,169	1970,646	2064,696	1939,491	1924,081
26/03/2019 14:04	1844,384	1864,376	1875,87	1897,536	1879,766	1908,492	1971,883	2065,041	1951,813	1937,02
26/03/2019 14:06	1848,761	1859,893	1872,315	1899,147	1875,956	1904,896	1972,331	2065,862	1951,782	1932,274
26/03/2019 14:08	1850,573	1841,539	1878,968	1882,157	1892,805	1908,922	1971,727	2062,315	1942,893	1935,873
26/03/2019 14:10	1840,109	1860,993	1876,317	1876,168	1884,76	1906,636	1972,045	2068,91	1934,865	1938,197
26/03/2019 14:12	1839,158	1865,463	1855,444	1890,742	1890,95	1912,306	1972,531	2066,903	1941,956	1937,991
26/03/2019 14:14	1853,701	1851,804	1864,396	1889,711	1888,015	1915,898	1973,346	2063,668	1953,607	1942,708
26/03/2019 14:16	1848,626	1863,621	1864,529	1900,39	1882,283	1914,201	1973,008	2057,685	1936,673	1944,128
26/03/2019 14:18	1846,996	1862,208	1881,044	1884,297	1888,565	1907,268	1972,28	2059,601	1944,708	1938,11
26/03/2019 14:20	1845,027	1862,409	1859,264	1890,56	1890,69	1907,958	1973,599	2060,708	1928,856	1944,754
26/03/2019 14:22	1857,708	1861,901	1866,334	1901,337	1882,778	1906,218	1971,601	2063,65	1956,715	1941,809
26/03/2019 14:24	1852,34	1855,207	1868,366	1894,928	1867,223	1896,645	1972,654	2059,438	1937,54	1938,019
26/03/2019 14:26	1842,395	1842,897	1860,334	1876,542	1883,042	1896,374	1971,319	2058,234	1952,853	1936,51
26/03/2019 14:28	1850,24	1824,381	1855,109	1902,056	1880,22	1907,329	1972,897	2056,896	1936,453	1937,359
26/03/2019 14:30	1859,335	1864,65	1880,643	1896,101	1893,059	1902,155	1970,938	2057,75	1939,462	1931,13
26/03/2019 14:32	1846,319	1859,116	1876,963	1905,111	1882,575	1905,36	1971,348	2063,52	1944,228	1934,414
26/03/2019 14:34	1843,929	1848,766	1855,739	1905,981	1892,028	1904,652	1971,902	2064,181	1944,195	1935,202
26/03/2019 14:36	1826,46	1854,978	1863,702	1896,279	1895,078	1904,121	1970,521	2058,069	1943,671	1939,496
26/03/2019 14:38	1833,619	1860,396	1876,635	1884,941	1880,964	1907,412	1971,394	2052,776	1963,068	1945,617
26/03/2019 14:40	1838,195	1851,124	1876,163	1886,305	1871,598	1911,136	1972,864	2048,199	1951,004	1945,452
26/03/2019 14:42	1840,02	1836,375	1864,397	1886,907	1878,329	1910,327	1972,051	2044,912	1951,684	1942,299
26/03/2019 14:44	1850,295	1837,703	1879,032	1885,877	1873,447	1914,327	1971,92	2045,955	1957,784	1947,613
26/03/2019 14:46	1851,173	1864,332	1885,621	1856,945	1891,476	1917,112	1971,805	2038,685	1969,197	1948,08
26/03/2019 14:48	1828,994	1866,618	1887,666	1881,926	1883,301	1920,206	1971,683	2049,803	1951,69	1956,653
26/03/2019 14:50	1842,995	1863,816	1890,809	1822,714	1886,984	1919,851	1971,273	2060,6	1954,599	1957,245
26/03/2019 14:52	1845,284	1837,583	1870,566	1873,025	1893,503	1896,968	1971,635	2060,915	1961,455	1955,572
26/03/2019 14:54	1845,409	1865,657	1878,127	1886,358	1872,875	1902,763	1971,667	2057,76	1967,463	1949,467
26/03/2019 14:56	1835,051	1849,118	1869,808	1890,872	1891,874	1913,706	1972,949	2047,368	1969,879	1956,062
26/03/2019 14:58	1839,231	1858,06	1874,304	1878,83	1883,069	1915,028	1972,597	2045,006	1967,552	1955,174
26/03/2019 15:00	1829,66	1845,421	1883,232	1865,951	1878,147	1911,881	1971,419	2039,399	1974,725	1953,447
26/03/2019 15:02	1829,31	1842,126	1871,077	1871,68	1876,892	1908,147	1972,282	2037,56	1974,865	1950,96
26/03/2019 15:04	1841,223	1850,078	1874,615	1882,119	1872,7	1900,999	1973,142	2048,619	1975,284	1944,786
26/03/2019 15:06	1825,519	1846,481	1859,194	1892,1	1856,361	1892,547	1973,389	2054,492	1959,788	1945,6
26/03/2019 15:08	1838,549	1831,875	1862,223	1878,824	1879,148	1905,025	1972,658	2058,12	1926,587	1936,843
26/03/2019 15:10	1856,111	1855,925	1866,329	1890,22	1881,095	1902,91	1972,264	2064,454	1947,79	1943,614
26/03/2019 15:12	1857,53	1856,41	1871,312	1894,481	1877,521	1905,802	1971,36	2069,426	1945,804	1946,769
26/03/2019 15:14	1858,355	1850,937	1863,151	1892,001	1871,999	1906,508	1972,052	2078,171	1941,248	1942,765
26/03/2019 15:16	1865,875	1855,558	1876,793	1911,605	1906,128	1914,501	1973,156	2082,059	1938,584	1939,467
26/03/2019 15:18	1853,501	1849,61	1880,35	1896,768	1897,111	1910,651	1973,315	2083,044	1936,369	1946,114

26/03/2019 15:20	1859,15	1848,742	1874,705	1919,764	1901,865	1916,744	1972,514	2080,608	1942,976	1946,43
26/03/2019 15:22	1869,789	1850,14	1878,802	1896,506	1895,735	1912,61	1973,363	2084,498	1911,97	1950,064
26/03/2019 15:24	1868,231	1867,375	1858,377	1909,843	1884,166	1908,974	1971,713	2094,895	1947,409	1951,277
26/03/2019 15:26	1874,864	1865,776	1875,935	1911,384	1871,58	1912,575	1973,105	2092,518	1947,979	1957,346
26/03/2019 15:28	1851,944	1859,795	1873,634	1909,783	1886,435	1908,445	1971,887	2088,751	1954,343	1959,796
26/03/2019 15:30	1874,584	1866,138	1884,184	1905,478	1885,69	1913,001	1972,933	2095,284	1969,329	1967,421
26/03/2019 15:32	1872,595	1860,953	1880,81	1925,81	1909,443	1914,887	1974,365	2095,893	1967,468	1968,868
26/03/2019 15:34	1861,876	1867,415	1888,391	1919,575	1901,514	1911,698	1973,638	2097,316	1971,609	1965,723
26/03/2019 15:36	1873,593	1868,441	1880,435	1919,181	1900,336	1915,346	1973,498	2098,155	1974,458	1964,305
26/03/2019 15:38	1864,018	1850,9	1857,855	1924,531	1882,203	1920,89	1972,885	2093,987	1971,59	1966,142
26/03/2019 15:40	1873,787	1854,018	1874,272	1910,036	1900	1921,839	1973,917	2100,79	1982,814	1969,787
26/03/2019 15:42	1864,878	1883,008	1862,274	1930,977	1901,017	1923,906	1972,91	2100,381	1968,326	1968,378
26/03/2019 15:44	1873,727	1886,329	1898,424	1933,206	1910,456	1925,919	1972,277	2098,757	1972,225	1962,363
26/03/2019 15:46	1864,036	1883,725	1879,114	1877,879	1909,913	1925,672	1972,567	2094,768	1968,397	1962,435
26/03/2019 15:48	1874,846	1876,23	1891,853	1923,542	1898,238	1925,575	1973,439	2098,484	1942,112	1955,42
26/03/2019 15:50	1880,368	1884,086	1894,645	1917,103	1885,248	1924,048	1972,984	2096,499	1955,704	1959,463
26/03/2019 15:52	1861,557	1881,608	1898,41	1920,456	1883,087	1923,527	1974,498	2094,28	1942,095	1960,438
26/03/2019 15:54	1878,647	1875,37	1889,802	1923,624	1890,142	1917,239	1973,061	2092,647	1962,462	1960,21
26/03/2019 15:56	1873,363	1872,711	1891,732	1929,117	1902,887	1905,53	1972,25	2093,225	1971,257	1959,232
26/03/2019 15:58	1875,301	1869,431	1897,945	1913,904	1901,074	1906,168	1972,641	2089,08	1967,717	1959,466
26/03/2019 16:00	1882,671	1859,072	1895,052	1923,242	1889,563	1916,308	1982,601	2086,848	1971,91	1955,275
26/03/2019 16:02	1887,412	1884,013	1883,196	1920,792	1901,421	1913,757	2110,173	2092,75	1970,285	1953,644
26/03/2019 16:04	1881,753	1885,185	1876,569	1925,421	1907,77	1919,688	2116,517	2093,994	1952,875	1949,436
26/03/2019 16:06	1887,074	1853,724	1881,122	1908,437	1911,158	1919,573	2118,165	2095,425	1954,121	1958,452
26/03/2019 16:08	1883,149	1862,025	1891,682	1907,896	1903,726	1925,361	2111,946	2096,409	1940,454	1959,901
26/03/2019 16:10	1860,366	1858,713	1884,504	1927,988	1916,339	1924,196	2112,724	2096,736	1948,599	1959,411
26/03/2019 16:12	1874,321	1886,562	1901,757	1920,942	1907,895	1930,965	2124,475	2102,348	1971,066	1964,544
26/03/2019 16:14	1871,721	1881,288	1911,383	1926,994	1910,271	1930,634	2119,798	2097,669	1949,935	1957,427
26/03/2019 16:16	1858,779	1867,359	1894,547	1924,174	1920,457	1933,581	2113,738	2099,277	1944,991	1945,665
26/03/2019 16:18	1858,271	1881,116	1896,548	1934,022	1920,085	1934,063	2113,34	2099,214	1952,593	1958,985
26/03/2019 16:20	1870,927	1879,536	1893,865	1923,726	1908,337	1932,986	2119,27	2103,602	1974,869	1968,964
26/03/2019 16:22	1877,038	1876,068	1879,995	1917,886	1899,954	1928,521	2112,94	2105,121	1980,807	1967,077
26/03/2019 16:24	1863,806	1873,779	1883,619	1892,632	1907,417	1928,009	2121,701	2108,197	1985,764	1971,924
26/03/2019 16:26	1862,984	1876,139	1885,688	1911,44	1915,854	1940,698	2125,53	2111,908	1974,514	1963,942
26/03/2019 16:28	1870,308	1877,061	1894,546	1924,873	1913,91	1943,571	2121,695	2114,551	1985,461	1971,227
26/03/2019 16:30	1874,035	1875,085	1887,146	1934,875	1924,992	1940,937	2129,634	2111,558	1958,085	1966,159
26/03/2019 16:32	1876,251	1867,411	1890,21	1913,24	1918,484	1942,988	2126,363	2087,83	1947,677	1966,558
26/03/2019 16:34	1868,473	1884,51	1903,701	1923,143	1922,121	1943,816	2120,703	2093,768	1972,101	1962,121
26/03/2019 16:36	1875,962	1890,393	1886,785	1920,629	1919,329	1932,358	2114,657	2085,866	1960,104	1958,674
26/03/2019 16:38	1876,372	1879,149	1896,995	1909,792	1917,218	1927,13	2108,067	2079,725	1948,22	1938,379
26/03/2019 16:40	1874,571	1858,898	1874,263	1904,166	1886,178	1920,21	2107,135	2081,638	1960,111	1941,826
26/03/2019 16:42	1859,051	1859,711	1884,728	1901,409	1897,914	1917,271	2094,934	2073,087	1958,948	1942,361
26/03/2019 16:44	1844,239	1867,579	1869,534	1899,062	1895,441	1909,804	2095,026	2067,926	1954,044	1937,941
26/03/2019 16:46	1840,466	1853,245	1876,085	1886,73	1894,258	1905,93	2089,105	2056,949	1954,528	1933,416
26/03/2019 16:48	1850,158	1835,135	1870,521	1892,011	1896,627	1901,639	2080,606	2045,235	1929,794	1925,299
26/03/2019 16:50	1846,628	1842,485	1861,812	1885,724	1892,692	1901,79	2073,553	2048,881	1929,003	1922,14
26/03/2019 16:52	1862,939	1843,636	1861,212	1869,683	1870,723	1894,295	2080,773	2052,191	1929,764	1927,71
26/03/2019 16:54	1851,943	1850,974	1861,624	1895,01	1874,228	1890,698	2084,106	2053,523	1952,846	1933,937
26/03/2019 16:56	1839,824	1857,627	1855,094	1894,929	1897,575	1898,95	2083,889	2047,515	1937,329	1934,438
26/03/2019 16:58	1861,412	1847,81	1869,963	1899,905	1885,689	1908,509	2087,226	2055,954	1935,143	1945,299
26/03/2019 17:00	1851,8	1859,044	1881,963	1890,255	1863,124	1911,262	2092,55	2062,052	1942,625	1950,348
26/03/2019 17:02	1869,382	1848,908	1872,863	1893,603	1898,635	1917,407	2091,482	2059,492	1940,895	1959,494
26/03/2019 17:04	1859,662	1876,377	1887,33	1901,91	1899,528	1926,194	2089,542	2058,087	1956,775	1956,201
26/03/2019 17:06	1850,646	1846,056	1879,79	1881,649	1906,483	1926,975	2084,434	2047,746	1966,671	1955,685
26/03/2019 17:08	1852,346	1853,865	1899,293	1900,357	1901,474	1928,669	2088,522	2049,306	1961,797	1951,368
26/03/2019 17:10	1848,133	1862,429	1861,74	1905,077	1892,591	1928,377	2082,793	2049,86	1965,054	1927,336
26/03/2019 17:12	1854,929	1852,758	1888,77	1877,884	1891,19	1923,22	2083,343	2051,652	1953,727	1923,106
26/03/2019 17:14	1834,36	1872,569	1892,64	1880,823	1891,115	1919,27	2087,145	2060,358	1956,011	1921,726
26/03/2019 17:16	1840,462	1872,685	1879,793	1902,839	1908,027	1923,154	2083,847	2069,501	1958,171	1935,149
26/03/2019 17:18	1866,651	1878,868	1883,964	1906,174	1910,412	1921,692	2096,882	2069,471	1942,473	1933,07
26/03/2019 17:20	1849,36	1865,552	1869,97	1900,061	1890,162	1910,712	2087,333	2068,428	1936,736	1937,118



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26/03/2019 17:22	1864,787	1847,71	1876,294	1885,676	1878,679	1911,821	2081,124	2056,228	1939,278	1931,58
26/03/2019 17:24	1843,787	1854,419	1869,618	1887,891	1881,906	1902,936	2063,488	2056,25	1921,365	1927,993
26/03/2019 17:26	1844,661	1851,263	1865,395	1884,355	1868,198	1899,59	2080,238	2057,817	1935,452	1919,063
26/03/2019 17:28	1833,465	1846,273	1869,546	1890,242	1879,766	1900,603	2069,16	2055,545	1940,614	1912,319
26/03/2019 17:30	1845,386	1838,057	1855,702	1842,694	1890,428	1904,372	2068,994	2049,926	1921,06	1928,883
26/03/2019 17:32	1819,624	1843,895	1859,659	1878,742	1886,926	1898,33	2073,271	2047,864	1939,221	1925,972
26/03/2019 17:34	1830,914	1847,838	1861,992	1879,119	1875,18	1891,4	2066,545	2036,69	1928,803	1910,395
26/03/2019 17:36	1816,744	1821,623	1845,816	1861,368	1848,558	1882,586	2051,776	2036,63	1904,574	1907,563
26/03/2019 17:38	1814,259	1830,954	1842,273	1865,089	1857,449	1878,78	2046,727	2021,906	1871,319	1905,008
26/03/2019 17:40	1818,056	1819,101	1837,719	1857,527	1836,45	1869,906	2043,291	2023,651	1916,583	1887,974
26/03/2019 17:42	1800,46	1810,336	1830,03	1859,777	1854,119	1863,814	2039,068	2014,368	1892,142	1886,995
26/03/2019 17:44	1796,269	1814,056	1829,838	1828,224	1846,691	1857,606	2031,149	2003,881	1903,696	1889,534
26/03/2019 17:46	1797,929	1791,326	1816,738	1833,491	1841,542	1849,008	2014,709	1994,854	1895,364	1881,552
26/03/2019 17:48	1780,253	1799,138	1805,616	1830,439	1822,878	1844,8	1995,342	1985,497	1868,264	1870,043
26/03/2019 17:50	1774,352	1781,545	1799,974	1818,738	1817,64	1836,092	1998,2	1969,301	1872,376	1864,105
26/03/2019 17:52	1770,905	1784,673	1794,087	1807,929	1801,599	1819,088	1985,963	1959,103	1866,7	1846,129
26/03/2019 17:54	1758,949	1770,121	1756,793	1796,783	1791,672	1812,814	1973,021	1951,458	1857,402	1838,478
26/03/2019 17:56	1759,643	1760,871	1775,548	1780,813	1785,63	1794,895	1969,178	1947,643	1847,771	1824,64
26/03/2019 17:58	1743,775	1751,767	1752,653	1780,372	1770,378	1793,178	1964,124	1940,471	1818,424	1813,462
26/03/2019 18:00	1751,168	1748,149	1749,64	1766,622	1773,665	1787,763	1954,662	1935,283	1817,39	1805,154
26/03/2019 18:02	1735,154	1737,194	1724,685	1781,224	1765,293	1785,179	1947,813	1922,097	1815,613	1806,587
26/03/2019 18:04	1720,262	1728,63	1730,995	1759,773	1744,51	1773,69	1932,828	1905,42	1807,975	1800,68
26/03/2019 18:06	1716,486	1712,016	1732,533	1750,347	1757,194	1769,644	1927,114	1898,234	1797,75	1784,477
26/03/2019 18:08	1687,874	1693,516	1703,106	1737,4	1747,923	1759,127	1900,97	1901,703	1782,405	1788,023
26/03/2019 18:10	1696,426	1695,652	1697,762	1744,585	1727,446	1753,243	1894,463	1881,583	1787,446	1773,132
26/03/2019 18:12	1684,384	1677,722	1693,863	1723,696	1723,494	1736,502	1885,62	1874,017	1768,922	1757,024
26/03/2019 18:14	1665,461	1664,063	1673,915	1709,791	1708,734	1720,429	1876,811	1859,714	1738,579	1747,402
26/03/2019 18:16	1632,454	1656,825	1666,313	1691,24	1688,976	1702,128	1858,677	1840,455	1734,106	1733,916
26/03/2019 18:18	1629,439	1650,904	1652,196	1683,975	1683,11	1693,46	1843,013	1822,691	1716,481	1717,869
26/03/2019 18:20	1625,371	1627,417	1635,085	1667,903	1669,424	1677,399	1829,847	1799,492	1708,313	1695,762
26/03/2019 18:22	1600,475	1616,324	1625,617	1657,015	1654,769	1670,63	1816,574	1785,944	1686,191	1689,197
26/03/2019 18:24	1601,844	1604,573	1607,056	1604,449	1633,05	1647,001	1797,804	1777,533	1679,475	1670,658
26/03/2019 18:26	1585,042	1593,339	1604,735	1627,022	1605,948	1632,627	1776,563	1757,158	1668,765	1663,193
26/03/2019 18:28	1563,609	1576,017	1584,024	1600,66	1594,982	1614,136	1754,297	1736,503	1648,657	1637,953
26/03/2019 18:30	1530,425	1554,416	1566,025	1578,053	1557,682	1589,061	1737,201	1712,45	1623,967	1605,364
26/03/2019 18:32	1507,857	1521,922	1539,57	1546,809	1547,305	1560,769	1707,05	1679,606	1604,256	1584,898
26/03/2019 18:34	1485,733	1506,441	1527,947	1527,016	1521,917	1543,067	1674,153	1664,41	1577,248	1567,395
26/03/2019 18:36	1454,157	1477,476	1505,163	1506,623	1507,772	1538,116	1646,024	1638,894	1565,681	1548,603
26/03/2019 18:38	1434,348	1442,901	1488,418	1483,39	1492,815	1517,788	1622,039	1601,209	1532,463	1512
26/03/2019 18:40	1413,84	1389,859	1448,867	1442,017	1451,145	1472,174	1572,898	1568,858	1458,178	1442,78
26/03/2019 18:42	1347,754	1326,938	1384,469	1384,747	1403,455	1405,607	1508,844	1514,404	1361,52	1354,961
26/03/2019 18:44	1286,737	1233,833	1327,403	1324,271	1332,341	1323,096	1447,105	1443,262	1284,561	1277,997
26/03/2019 18:46	1226,716	1146,538	1257,758	1257,558	1255,229	1236,676	1365,749	1364,328	1218,842	1209,854
26/03/2019 18:48	1154,258	1074,08	1204,835	1186,949	1190,954	1171,239	1282,291	1291,558	1151,879	1144,429
26/03/2019 18:50	1096,807	1008,442	1125,618	1116,483	1115,459	1095,52	1220,793	1225,015	1083,566	1075,405
26/03/2019 18:52	1006,344	935,736	1069,269	1054,759	1027,641	1016,475	1144,886	1153,535	1021,191	1011,834
26/03/2019 18:54	930,828	862,637	970,422	985,258	965,899	954,287	1078,083	1087,659	962,61	943,737
26/03/2019 18:56	892,907	803,121	920,757	930,98	905,669	886,252	1009,001	1030,428	895,897	883,773
26/03/2019 18:58	840,985	735,604	856,594	869,807	829,953	817,708	939,469	963,584	823,1	815,088
26/03/2019 19:00	779,577	672,409	806,245	813,053	782,221	752,032	883,349	905,457	747,315	753,589
26/03/2019 19:02	722,758	630,918	739,527	760,701	728,137	698,996	816,533	838,456	686,869	687,541
26/03/2019 19:04	661,762	586,598	701,397	693,77	665,855	645,102	749,19	776,717	630,525	633,334
26/03/2019 19:06	605,97	529,786	637,148	640,128	604,703	589,015	682,09	719,701	563,969	580,696
26/03/2019 19:08	557,09	468,086	587,966	585,567	551,51	539,209	613,326	656,205	500,942	526,267
26/03/2019 19:10	507,895	424,14	534,385	528,222	498,227	487,339	562,189	595,926	443,585	469,053
26/03/2019 19:12	454,783	382,275	480,863	477,989	445,469	436,749	507,55	536,319	399,367	422,652
26/03/2019 19:14	402,76	344,559	435,208	427,768	403,622	394,107	454,295	477,248	356,495	371,652
26/03/2019 19:16	356,074	307,509	383,582	374,586	351,706	348,637	404,691	425,038	314,423	326,194
26/03/2019 19:18	310,926	273,263	339,689	329,092	305,869	298,235	349,966	374,889	267,073	287,077
26/03/2019 19:20	267,949	237,592	292,312	280,765	266,318	263,178	298,14	329,844	228,577	247,201
26/03/2019 19:22	233,01	206,436	255,744	244,928	228,116	229,201	256,475	282,888	202,103	212,52



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26/03/2019 19:24	194,055	173,224	213,345	205,656	192,938	194,998	214,377	230,632	172,243	178,439
26/03/2019 19:26	158,822	142,989	178,684	169,023	158,721	162,201	176,464	191,025	142,429	146,634
26/03/2019 19:28	124,8	113,818	144,696	134,157	126,196	130,088	142,663	152,801	110,933	117,211
26/03/2019 19:30	86,871	85,321	109,585	100,161	91,356	99,901	107,108	111,13	89,614	88,613
26/03/2019 19:32	31,926	41,041	60,251	52,723	57,74	67,364	72,667	65,672	62,844	59,86
26/03/2019 19:34	10,853	17,813	21,041	14,701	15,366	24,043	28,755	19,195	34,613	28,158
26/03/2019 19:36	11,663	11,576	13,726	9,739	6,404	12,464	12,947	7,048	16,721	12,691
26/03/2019 19:38	11,201	11,329	12,274	7,469	7,239	8,983	5,467	7,972	11,657	8,176
26/03/2019 19:40	7,634	8,287	9,347	5,969	7,642	6,706	10,42	4,871	8,284	9,102
26/03/2019 19:42	0,72	1,27	1,54	0,316	0,687	0,509	1,249	0	2,576	1,019
26/03/2019 19:44	0	0	0	0	0	0	0,208	0	0,038	0,012
26/03/2019 19:46	0	0	0	0	0	0	0,004	0	0	0
26/03/2019 19:48	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:50	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:52	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:54	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:56	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:58	0	0	0	0	0	0	0	0	0	0

Tabla 8: Potencia AC registrada en contadores de baja tensión (kW). (P01-P10)

Fecha/hora	POTENCIA AC GENERADA P11 (kW)	POTENCIA AC GENERADA P12 (kW)	POTENCIA AC GENERADA P13 (kW)	POTENCIA AC GENERADA P14 (kW)	POTENCIA AC GENERADA P15 (kW)	POTENCIA AC GENERADA P16 (kW)	POTENCIA AC GENERADA P17 (kW)	POTENCIA AC GENERADA P18 (kW)	POTENCIA AC GENERADA P19 (kW)	POTENCIA AC GENERADA P20 (kW)
26/03/2019 7:30	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:32	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:34	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:36	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:38	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:40	0	0	0	0	0	0	0	0	0	0
26/03/2019 7:42	0,2	0,073	0,008	0,083	0,087	0,108	0,041	0	0,198	0
26/03/2019 7:44	2,412	1,679	1,008	1,747	2,198	0,549	1,085	0,279	2,287	1,028
26/03/2019 7:46	5,171	4,212	3,047	4,434	4,904	2,719	1,405	1,815	4,733	4,199
26/03/2019 7:48	8,574	3,611	5,794	6,915	7,413	3,722	4,329	5,118	7,31	6,441
26/03/2019 7:50	7,718	7,293	4,913	6,224	6,218	5,685	4,609	4,743	8,099	5,749
26/03/2019 7:52	10,588	9,416	7,323	9,235	9,492	8,227	8,402	7,069	9,765	7,308
26/03/2019 7:54	15,577	14,603	13,152	13,74	14,497	13,031	13,761	12,453	14,603	12,486
26/03/2019 7:56	18,851	17,989	17,104	17,519	17,782	16,896	16,374	16,008	18,088	15,182
26/03/2019 7:58	22,461	21,566	20,401	20,922	21,679	20,485	19,462	18,666	21,475	19,831
26/03/2019 8:00	26,173	25,311	24,288	25,152	24,979	24,447	23,574	23,003	25,243	23,032
26/03/2019 8:02	30,161	29,371	28,465	29,109	28,98	27,918	27,365	26,344	29,087	26,364
26/03/2019 8:04	34,109	33,282	32,252	33,009	32,957	32,427	30,439	29,355	33,362	30,87
26/03/2019 8:06	38,152	37,669	36,425	36,941	37,52	36,585	35,042	33,898	37,33	35,043
26/03/2019 8:08	42,433	42,066	40,925	41,227	41,959	40,618	39,15	37,206	41,303	38,646
26/03/2019 8:10	47,247	46,919	44,931	45,393	46,907	45,538	42,681	40,988	46,03	43,818
26/03/2019 8:12	52,342	52,312	49,865	50,177	52,455	50,82	47,694	45,54	51,552	48,538
26/03/2019 8:14	57,723	58,576	55,358	54,588	58,872	55,889	52,871	49,749	57,59	53,422
26/03/2019 8:16	64,694	73,661	60,757	60,264	93,733	62,336	58,356	54,06	64,963	59,562
26/03/2019 8:18	97,183	156,484	80,182	65,581	273,122	116,808	65,717	59,861	141,079	66,933
26/03/2019 8:20	204,323	283,925	181,491	81,044	398,779	197,299	117,192	65,852	375,269	168,821
26/03/2019 8:22	387,653	384,31	360,574	156,985	455,162	391,547	328,435	105,772	452,394	410,823
26/03/2019 8:24	480,007	448,737	507,287	337	521,641	466,994	472,744	293,633	511,84	491,103
26/03/2019 8:26	541,735	517,104	573,681	548,662	579,349	550,031	555,426	467,071	568,334	547,208
26/03/2019 8:28	617,782	574,32	635,278	632,851	647,242	596,658	627,183	542,214	635,35	613,844
26/03/2019 8:30	687,443	624,512	693,405	692,457	709,17	658,439	690,428	597,34	688,331	669,674



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26/03/2019 8:32	760,499	684,666	757,204	761,749	764,255	718,73	753,501	647,774	743,634	732,577
26/03/2019 8:34	826,689	748,766	823,794	823,055	827,723	772,602	804,309	704,993	791,595	783,99
26/03/2019 8:36	879,391	803,054	877,95	882,24	886,091	817,84	869,68	767,236	867,366	845,887
26/03/2019 8:38	946,322	859,77	941,918	953,02	946,491	897,39	925,106	831,843	921,943	908,278
26/03/2019 8:40	992,335	918,488	1001,068	1010,401	990,218	921,307	969,66	886,297	962,293	963,068
26/03/2019 8:42	1055,565	976,461	1065,765	1075,95	1052,855	989,756	1039,03	942,338	1036,273	1016,108
26/03/2019 8:44	1112,311	1038,603	1130,437	1130,338	1112,188	1047,248	1097,25	1002,624	1089,281	1072,473
26/03/2019 8:46	1183,15	1099,424	1188,821	1181,959	1173,816	1090,555	1151,59	1052,893	1134,622	1130,518
26/03/2019 8:48	1241,974	1155,608	1243,585	1243,631	1235,583	1154,562	1205,139	1104,789	1195,831	1188,45
26/03/2019 8:50	1299,78	1223,46	1304,292	1313,614	1290,614	1213,593	1264,143	1170,598	1271,79	1231,403
26/03/2019 8:52	1356,981	1289,669	1358,485	1369,31	1353,922	1266,44	1312,199	1234,36	1321,972	1308,493
26/03/2019 8:54	1409,55	1349,162	1409,162	1435,726	1413,61	1310,536	1374,809	1293,218	1383,373	1356,852
26/03/2019 8:56	1487,151	1421,741	1466,291	1477,905	1470,796	1412,499	1442,59	1358,17	1435,268	1425,658
26/03/2019 8:58	1573,783	1538,847	1531,088	1559,791	1519,639	1502,822	1510,28	1435,318	1506,555	1509,978
26/03/2019 9:00	1604,868	1596,32	1571,745	1590,151	1536,761	1538,169	1542,207	1494,665	1545,053	1540,569
26/03/2019 9:02	1613,771	1610,182	1596,236	1623,662	1550,669	1562,481	1575,251	1514,898	1549,139	1555,078
26/03/2019 9:04	1636,571	1625,636	1592,811	1638,224	1554,301	1552,936	1587,173	1567,637	1548,935	1561,24
26/03/2019 9:06	1642,581	1637,724	1624,068	1657,576	1563,611	1581,631	1588,071	1590,309	1581,651	1576,274
26/03/2019 9:08	1645,855	1650,21	1626,606	1662,893	1580,552	1595,72	1604,364	1605,807	1594	1597,989
26/03/2019 9:10	1673,883	1669,544	1644,758	1668,784	1587,969	1585,771	1608,285	1618,702	1593,417	1593,11
26/03/2019 9:12	1694,576	1682,634	1652,96	1674,383	1603,253	1610,934	1615,481	1627,099	1612,176	1618,7
26/03/2019 9:14	1696,661	1687,783	1673,582	1693,687	1613,77	1624,185	1625,093	1632,454	1626,467	1617,105
26/03/2019 9:16	1716,999	1710,15	1669,174	1691,604	1624,717	1604,237	1649,09	1636,384	1631,066	1641,965
26/03/2019 9:18	1715,528	1725,046	1689,292	1719,47	1638,675	1645,478	1655,61	1648,071	1645,82	1653,714
26/03/2019 9:20	1740,289	1741,36	1704,544	1708,898	1650,321	1633,764	1657,739	1660,453	1657,554	1657,94
26/03/2019 9:22	1747,206	1748,06	1727,545	1742,764	1664,925	1670,715	1658,743	1669,29	1664,565	1651,805
26/03/2019 9:24	1762,628	1765,729	1742,095	1763,606	1669,499	1670,556	1688,81	1681,376	1661,589	1674,881
26/03/2019 9:26	1771,17	1779,818	1780,162	1765,014	1684,591	1670,556	1701,42	1677,453	1677,968	1687,692
26/03/2019 9:28	1775,278	1791,042	1771,285	1781,667	1696,802	1718,197	1712,784	1697,516	1677,644	1700,014
26/03/2019 9:30	1777,715	1794,904	1795,842	1795,924	1717,418	1718,74	1718,959	1708,73	1694,7	1702,031
26/03/2019 9:32	1797,381	1796,834	1797,319	1798,776	1709,62	1728,13	1725,185	1719,014	1706,934	1713,441
26/03/2019 9:34	1807,231	1810,182	1792,33	1803,703	1712,288	1730,364	1728,542	1722,614	1710,919	1714,473
26/03/2019 9:36	1804,877	1810,173	1814,743	1792,503	1723,257	1725,954	1740,029	1726,4	1730,788	1730,656
26/03/2019 9:38	1818,268	1818,106	1805,325	1777,707	1743,67	1741,416	1746,486	1738,703	1746,408	1740,481
26/03/2019 9:40	1824,612	1823,064	1815,23	1776,229	1736,348	1733,965	1738,417	1733,705	1752,311	1752,12
26/03/2019 9:42	1830,68	1828,7	1835,271	1834,531	1739,996	1756,732	1750,751	1749,33	1752,44	1756,592
26/03/2019 9:44	1840,858	1840,236	1836,155	1844,468	1752,91	1766,651	1773,125	1729,836	1770,769	1770,748
26/03/2019 9:46	1840,511	1843,948	1847,52	1855,464	1769,421	1763,31	1781,032	1770,329	1767,268	1772,862
26/03/2019 9:48	1850,832	1851,256	1841,126	1809,155	1774,783	1777,398	1776,955	1767,795	1768,816	1778,996
26/03/2019 9:50	1852,467	1857,193	1864,453	1866,169	1761,602	1773,514	1796,78	1781,225	1785,379	1767,85
26/03/2019 9:52	1866,552	1865,417	1872,69	1865,059	1769,877	1796,64	1795,152	1797,092	1795,588	1796,248
26/03/2019 9:54	1873,445	1864,511	1868,296	1880,186	1797,049	1784,249	1795,49	1783,062	1793,433	1804,62
26/03/2019 9:56	1878,163	1877,652	1882,594	1862,305	1799,159	1783,032	1787,358	1805,037	1793,306	1803,748
26/03/2019 9:58	1876,941	1884,905	1889,705	1873,682	1779,637	1807,445	1814,952	1805,22	1807,169	1801,801
26/03/2019 10:00	1895,437	1883,982	1882,983	1884,342	1814,688	1789,976	1817,532	1801,322	1815,679	1820,941
26/03/2019 10:02	1879,939	1897,969	1888,9	1873,776	1808,182	1793,893	1816,634	1824,498	1809,32	1819,805
26/03/2019 10:04	1904,014	1906,225	1893,017	1902,011	1801,775	1828,172	1828,493	1816,222	1827,411	1811,993
26/03/2019 10:06	1897,295	1910,488	1909,114	1903,68	1811,395	1837,494	1834,278	1820,296	1828,885	1842,282
26/03/2019 10:08	1900,48	1917,901	1909,642	1914,707	1830,91	1836,072	1837,632	1837,051	1818,541	1818,628
26/03/2019 10:10	1913,065	1923,562	1925,532	1909,935	1833,282	1845,395	1855,405	1845,319	1841,356	1835,644
26/03/2019 10:12	1920,698	1928,421	1915,123	1923,755	1844,538	1845,395	1855,571	1855,623	1839,558	1844,486
26/03/2019 10:14	1932,369	1934,576	1942,182	1930,346	1841,931	1858,164	1853,582	1857,976	1837,744	1853,713
26/03/2019 10:16	1917,965	1935,213	1932,263	1933,742	1853,167	1859,725	1857,944	1848,922	1834,857	1835,927
26/03/2019 10:18	1927,621	1938,288	1946,284	1935,212	1855,948	1860,343	1857,29	1844,24	1854,751	1862,212
26/03/2019 10:20	1942,151	1943,831	1935,055	1945,024	1851,178	1851,071	1856,993	1858,281	1845,658	1842,66
26/03/2019 10:22	1932,21	1946,584	1946,451	1926,795	1844,191	1853,987	1844,389	1859,192	1848,187	1843,383
26/03/2019 10:24	1914,744	1949,929	1941,446	1916,802	1849,638	1863,439	1835,239	1832,015	1853,851	1862,515
26/03/2019 10:26	1947,034	1951,127	1955,48	1915,585	1867,797	1872,324	1859,362	1844,582	1855,749	1852,001
26/03/2019 10:28	1941,371	1953,452	1959,827	1949,557	1845,975	1876,133	1827,882	1873,571	1849,684	1878,057
26/03/2019 10:30	1956,818	1957,48	1940,422	1934,5	1848,103	1876,581	1850,442	1881,061	1865,013	1877,256
26/03/2019 10:32	1931,324	1959,143	1963,564	1937,338	1874,474	1873,253	1846,408	1874,881	1859,717	1872,873



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26/03/2019 10:34	1944,02	1962,621	1967,423	1960,323	1854,065	1883,331	1841,762	1865,56	1863,318	1876,52
26/03/2019 10:36	1954,078	1963,491	1952,709	1954,908	1859,621	1861,375	1841,031	1877,238	1867,69	1882,06
26/03/2019 10:38	1948,424	1961,399	1933,148	1937,437	1873,507	1880,845	1858,81	1890,575	1861,808	1888,118
26/03/2019 10:40	1949,996	1962,693	1964,872	1952,444	1859,887	1878,257	1855,386	1854,854	1858,142	1847,08
26/03/2019 10:42	1955,191	1967,886	1967,653	1967,305	1856,777	1878,998	1849,576	1880,074	1877,895	1883,395
26/03/2019 10:44	1959,873	1966,751	1956,444	1952,627	1857,559	1876,771	1844,085	1890,353	1882,56	1865,01
26/03/2019 10:46	1937,455	1958,805	1963,889	1943,18	1877,133	1881,133	1851,319	1871,332	1876,861	1877,735
26/03/2019 10:48	1924,931	1958,911	1967,56	1967,517	1874,822	1862,299	1840,397	1886,303	1868,39	1876,606
26/03/2019 10:50	1949,79	1970,192	1970,3	1952,714	1881,913	1844,486	1840,085	1870,541	1874,491	1872,103
26/03/2019 10:52	1965,245	1970,838	1961,346	1969,424	1867,206	1872,677	1827,775	1885,094	1874,955	1864,447
26/03/2019 10:54	1957,936	1968,756	1936,426	1934,614	1873,899	1869,437	1822,344	1883,056	1882,866	1880,971
26/03/2019 10:56	1966,86	1962,787	1969,636	1938,28	1869,06	1876,811	1850,518	1880,281	1887,492	1893,313
26/03/2019 10:58	1965,636	1963,649	1965,354	1970,305	1882,684	1885,95	1825,551	1887,001	1887,461	1882,799
26/03/2019 11:00	1948,963	1962,006	1959,691	1975,905	1871,924	1886,799	1846,973	1877,1	1882,69	1890,823
26/03/2019 11:02	1953,655	1968,313	1964,859	1979,109	1857,64	1890,89	1838,97	1873,813	1881,654	1896,053
26/03/2019 11:04	1961,613	1970,976	1949,34	1954,514	1875	1889,299	1835,467	1883,409	1874,94	1875,718
26/03/2019 11:06	1968,036	1973,753	1971,41	1973,609	1869,068	1889,886	1851,633	1879,331	1881,259	1878,809
26/03/2019 11:08	1972,015	1967,032	1941,248	1978,652	1863,624	1870,16	1857,168	1893,865	1883,483	1881,268
26/03/2019 11:10	1958,344	1966,936	1961,728	1943,206	1869,516	1885,557	1838,936	1855,652	1886,176	1889,707
26/03/2019 11:12	1941,97	1961,877	1946,441	1941,865	1844,677	1874,566	1834,582	1869,08	1855,846	1884,518
26/03/2019 11:14	1949,249	1962,748	1941,052	1941,997	1850,43	1872,952	1837,75	1852,163	1873,728	1859,782
26/03/2019 11:16	1948,619	1963,07	1952,539	1964,013	1851,273	1883,697	1849,725	1866,174	1873,4	1883,5
26/03/2019 11:18	1951,584	1959,67	1940,497	1961,603	1857,442	1857,61	1855,524	1878,89	1852,3	1884,376
26/03/2019 11:20	1949,475	1959,664	1950,881	1950,204	1856,324	1845,741	1849,595	1842,941	1868,504	1879,78
26/03/2019 11:22	1950,2	1959,435	1961,13	1958,452	1847,211	1863,643	1849,933	1879,246	1868,025	1872,169
26/03/2019 11:24	1964,163	1959,691	1965,063	1947,703	1840,103	1869,48	1843,425	1871,01	1865,242	1859,301
26/03/2019 11:26	1940,733	1956,788	1952,946	1958,877	1830,72	1825,786	1825,377	1860,308	1871,491	1858,215
26/03/2019 11:28	1943,526	1957,074	1946,39	1929,316	1843,667	1856,096	1798,585	1887,137	1857,3	1847,492
26/03/2019 11:30	1958,905	1954,843	1957,698	1952,671	1833,281	1869,199	1815,953	1875,304	1865,857	1861,279
26/03/2019 11:32	1921,632	1949,689	1939,257	1920,109	1841,986	1859,823	1843,452	1866,452	1870,025	1874,638
26/03/2019 11:34	1947,653	1945,468	1951,143	1940,916	1854,753	1867,757	1843,726	1859,399	1843,947	1860,938
26/03/2019 11:36	1939,902	1944,63	1946,507	1940,223	1856,616	1848,617	1847,819	1871,091	1853,903	1848,335
26/03/2019 11:38	1930,586	1944,678	1929,601	1948,117	1842,81	1852,124	1832,527	1873,244	1837,853	1846,504
26/03/2019 11:40	1922,215	1938,157	1946,338	1945,536	1847,416	1856,358	1836,028	1853,945	1852,473	1849,63
26/03/2019 11:42	1926,932	1939,267	1910,388	1943,225	1822,283	1846,929	1833,771	1844,726	1841,467	1840,758
26/03/2019 11:44	1918,883	1935,885	1904,435	1935,341	1837,643	1811,694	1826,649	1865,237	1848,866	1855,782
26/03/2019 11:46	1933,279	1930,108	1936,08	1918,708	1841,47	1821,892	1826,53	1868,768	1841,919	1845,749
26/03/2019 11:48	1920,313	1937,15	1906,739	1947,965	1835,916	1851,532	1841,525	1855,61	1859,571	1842,511
26/03/2019 11:50	1937,815	1937,998	1941,076	1910,972	1843,368	1858,751	1831,7	1857,385	1860,964	1840,503
26/03/2019 11:52	1921,523	1938,949	1946,318	1952,271	1853,75	1858,793	1817,48	1865,914	1860,755	1859,835
26/03/2019 11:54	1937,587	1945,335	1954,57	1935,329	1834,015	1847,125	1836,347	1855,315	1849,21	1851,223
26/03/2019 11:56	1945,555	1949,14	1932,789	1940,478	1842,348	1853,425	1837,605	1865,169	1843,697	1861,898
26/03/2019 11:58	1940,219	1947,27	1955,794	1957,208	1852,54	1849,39	1819,163	1877,265	1843,868	1841,72
26/03/2019 12:00	1949,42	1944,72	1952,93	1962,24	1837,724	1848,029	1836,18	1878,483	1838,611	1859,234
26/03/2019 12:02	1941,927	1942,45	1945,134	1957,203	1855,41	1836,13	1834,123	1874,065	1858,973	1840,594
26/03/2019 12:04	1930,644	1951,428	1943,52	1953,959	1861,088	1854,073	1838,532	1870,346	1853,129	1851,003
26/03/2019 12:06	1943,76	1950,953	1950,346	1952,789	1863,46	1855,687	1844,942	1869,074	1869,043	1842,583
26/03/2019 12:08	1954,24	1944,007	1953,182	1960,547	1864,494	1846,608	1797,325	1860,933	1864,158	1865,606
26/03/2019 12:10	1947,023	1952,416	1955,544	1957,422	1853,4	1869,196	1819,346	1863,677	1848,48	1839,036
26/03/2019 12:12	1945,651	1956,657	1958,991	1948,286	1857,522	1861,983	1843,332	1866,174	1868,992	1860,679
26/03/2019 12:14	1937,544	1943,462	1953,454	1922,5	1851,305	1854,748	1833,865	1872,409	1866,455	1842,966
26/03/2019 12:16	1942,296	1938,855	1956,63	1942,66	1849,629	1862,495	1796,645	1869,507	1865,262	1844,208
26/03/2019 12:18	1951,376	1957,629	1950,615	1939,751	1863,219	1873,156	1821,82	1857,79	1865,695	1869,772
26/03/2019 12:20	1927,346	1959,354	1937,208	1959,515	1833,7	1853,313	1838,254	1875,309	1867,088	1866,215
26/03/2019 12:22	1948,547	1961,625	1942,759	1929,731	1825,51	1857,648	1800,771	1874,323	1873,6	1871,022
26/03/2019 12:24	1946,648	1961,584	1964,44	1953,39	1866,827	1863,288	1827,418	1864,024	1878,125	1879,412
26/03/2019 12:26	1959,71	1962,247	1949,6	1962,944	1870,849	1873,326	1828,616	1870,192	1856,416	1859,955
26/03/2019 12:28	1953,461	1953,11	1950,552	1922,585	1864,086	1855,783	1828,432	1867,01	1862,453	1877,025
26/03/2019 12:30	1946,079	1950,719	1903,378	1936,388	1853,015	1835,673	1826,072	1860,947	1867,158	1851,415
26/03/2019 12:32	1932,744	1942,72	1936,373	1936,629	1846,162	1869,068	1842,109	1865,043	1861,075	1856,358
26/03/2019 12:34	1935,198	1948,345	1944,822	1930,615	1847,98	1858,368	1830,417	1859,314	1857,258	1866,966



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26/03/2019 12:36	1934,983	1939,631	1949,453	1930,486	1845,281	1830,08	1832,554	1853,12	1860,489	1867,119
26/03/2019 12:38	1935,125	1932,291	1937,665	1928,065	1848,385	1861,787	1840,625	1859,196	1857,894	1849,562
26/03/2019 12:40	1942,899	1950,007	1940,579	1947,34	1832,163	1865,035	1836,861	1864,916	1852,475	1852,878
26/03/2019 12:42	1931,932	1943,531	1898,313	1939,668	1851,149	1832,208	1826,313	1864,058	1857,048	1870,034
26/03/2019 12:44	1945,081	1951,02	1893,646	1932,421	1848,56	1855,846	1834,32	1854,78	1857,983	1857,138
26/03/2019 12:46	1943,067	1947,67	1935,805	1951,916	1833,431	1857,191	1810,814	1855,763	1864,518	1851,716
26/03/2019 12:48	1951,2	1950,969	1931,314	1960,454	1853,226	1858,962	1838,843	1860,84	1868,169	1860,483
26/03/2019 12:50	1933,498	1947,357	1936,266	1944,291	1860,567	1864,646	1807,891	1837,556	1855,627	1868,712
26/03/2019 12:52	1948,314	1948,82	1944,295	1960,094	1848,369	1865,987	1832,997	1868,276	1863,273	1872,485
26/03/2019 12:54	1950,319	1951,388	1948,61	1955,439	1851,768	1861,004	1818,42	1838,82	1866,73	1855,684
26/03/2019 12:56	1939,282	1956,747	1939,579	1951,085	1854,39	1870,567	1840,14	1859,502	1874,786	1869,115
26/03/2019 12:58	1958,215	1962,252	1951,718	1949,034	1869,714	1876,24	1842,841	1865,184	1872,275	1870,176
26/03/2019 13:00	1948,93	1960,793	1929,464	1940,606	1868,274	1870,79	1833,498	1854,814	1859,461	1853,582
26/03/2019 13:02	1953,558	1947,297	1904,95	1928,41	1872,438	1878,309	1802,344	1882,234	1851,848	1871,523
26/03/2019 13:04	1962,848	1964,12	1933,119	1943,447	1870,391	1877,283	1834,273	1864,053	1882,374	1872,148
26/03/2019 13:06	1948,351	1962,155	1966,11	1936,931	1853,601	1860,652	1833,74	1863,151	1880,12	1877,38
26/03/2019 13:08	1961,711	1958,531	1957,844	1948,358	1863,46	1852,843	1822,976	1883,45	1876,304	1873,076
26/03/2019 13:10	1958,864	1958,18	1935,901	1959,432	1860,655	1814,924	1842,859	1868,847	1878,906	1857,58
26/03/2019 13:12	1943,775	1957,649	1938,871	1957,531	1846,949	1837,783	1827,924	1865,831	1860,312	1833,971
26/03/2019 13:14	1957,977	1957,032	1946,487	1964,484	1862,893	1870,982	1840,557	1852,384	1872,738	1846,319
26/03/2019 13:16	1951,815	1957,022	1926,783	1941,115	1856,719	1872,071	1797,646	1868,094	1862,463	1871,137
26/03/2019 13:18	1942,428	1957,087	1956,946	1959,5	1851,393	1867,103	1840,38	1877,415	1870,033	1871,039
26/03/2019 13:20	1932,093	1954,896	1949,68	1919,683	1843,569	1856,468	1841,872	1879,835	1871,914	1868,737
26/03/2019 13:22	1944,514	1956,585	1938,852	1956,306	1852,049	1850,139	1829,231	1872,631	1864,946	1866,608
26/03/2019 13:24	1938,537	1960,043	1942,858	1958,164	1853,969	1873,359	1831,863	1858,553	1865,011	1867,328
26/03/2019 13:26	1935,774	1949,893	1950,422	1952,262	1853,857	1859,59	1841,743	1868,091	1881,266	1873,924
26/03/2019 13:28	1939,167	1952,762	1943,874	1956,561	1829,352	1850,415	1816,188	1874,172	1863,89	1880,673
26/03/2019 13:30	1928,364	1948,972	1948,397	1957,86	1845,217	1845,024	1837,841	1866,704	1866,748	1875,454
26/03/2019 13:32	1932,332	1948,29	1951,054	1930,647	1850,273	1853,181	1820,036	1867,443	1867,196	1871,765
26/03/2019 13:34	1920,559	1946,86	1902,55	1943,734	1854,993	1854,406	1798,178	1871,98	1857,827	1861,121
26/03/2019 13:36	1930,95	1947,063	1926,839	1954,613	1822,755	1852,21	1840,346	1853,965	1870,72	1866,084
26/03/2019 13:38	1919,595	1939,584	1938,459	1942,694	1857,48	1842,922	1836,624	1869,396	1864,896	1848,439
26/03/2019 13:40	1921,669	1942,398	1937,221	1948,809	1862,063	1866,198	1834,51	1856,811	1859,767	1858,447
26/03/2019 13:42	1935,98	1950,543	1925,078	1935,363	1863,539	1849,604	1825,203	1851,225	1868,737	1856,69
26/03/2019 13:44	1938,717	1950,882	1940,437	1946,968	1848,45	1865,472	1828,442	1873,58	1867,433	1857,099
26/03/2019 13:46	1926,366	1951,699	1931,412	1954,991	1856,889	1857,867	1828,863	1863,099	1869,242	1853,036
26/03/2019 13:48	1940,528	1950,677	1954,898	1957,148	1851,973	1845,507	1829,456	1876,277	1868,286	1855,566
26/03/2019 13:50	1940,162	1947,465	1938,474	1956,447	1857,142	1862,364	1832,337	1857,081	1862,847	1855,215
26/03/2019 13:52	1930,513	1950,979	1954,124	1937,599	1860,439	1858,621	1835,383	1864,555	1873,009	1854,479
26/03/2019 13:54	1939,367	1951,806	1944,313	1926,223	1852,034	1865,161	1823,452	1871,228	1875,415	1873,581
26/03/2019 13:56	1946,966	1954,677	1924,896	1960,641	1865,967	1856,533	1834,849	1870,795	1870,436	1859,876
26/03/2019 13:58	1947,167	1955,573	1933,279	1955,263	1851,374	1872,609	1818,488	1866,191	1872,153	1864,699
26/03/2019 14:00	1940,919	1959,094	1945,654	1943,436	1868,59	1867,746	1832,84	1870,636	1878,165	1866,059
26/03/2019 14:02	1959,759	1958,772	1952,181	1951,928	1862,931	1870,98	1828,165	1874,592	1865,114	1847,585
26/03/2019 14:04	1953,609	1954,491	1943,974	1954,133	1852,138	1870,645	1826,8	1850,823	1861,236	1872,147
26/03/2019 14:06	1935,83	1957,799	1946,801	1945,785	1862,73	1854,849	1833,334	1842,422	1851,226	1875,172
26/03/2019 14:08	1932,2	1950,246	1958,284	1959,911	1861,883	1850,949	1841,088	1860,134	1856,009	1862,821
26/03/2019 14:10	1944,468	1956,117	1958,677	1957,148	1858,71	1850,949	1846,122	1868,491	1870,712	1870,878
26/03/2019 14:12	1946,436	1955,404	1959,648	1944,566	1866,709	1859,657	1833,113	1867,447	1873,012	1855,212
26/03/2019 14:14	1942,391	1957,991	1962,238	1961,334	1869,578	1873,248	1841,793	1863,792	1868,905	1871,927
26/03/2019 14:16	1952,824	1958,539	1957,971	1928,004	1854,11	1874,805	1844,115	1866,923	1868,814	1876,044
26/03/2019 14:18	1948,783	1962,321	1964,435	1961,998	1852,466	1880,548	1838,528	1882,104	1871,503	1872,296
26/03/2019 14:20	1951,804	1952,878	1946,706	1970,458	1865,095	1868,906	1813,014	1878,794	1876,142	1880,316
26/03/2019 14:22	1946,433	1958,641	1951,053	1962,486	1829,458	1869,89	1828,058	1857,046	1861,429	1878,171
26/03/2019 14:24	1955,971	1948,363	1954,987	1967,573	1836,815	1866,598	1836,705	1865,288	1878,424	1858,532
26/03/2019 14:26	1954,759	1952,163	1935,267	1956,026	1860,86	1854,293	1838,474	1867,629	1877,411	1872,251
26/03/2019 14:28	1927,102	1949,136	1953,015	1945,641	1825,74	1862,757	1836,772	1878,43	1862,599	1857,851
26/03/2019 14:30	1947,818	1943,668	1930,829	1959,753	1820,759	1851,172	1837,24	1862,448	1864,547	1861,212
26/03/2019 14:32	1937,144	1946,085	1952,653	1963,698	1839,722	1860,017	1834,645	1878,139	1865,913	1858,419
26/03/2019 14:34	1935,64	1957,767	1950,021	1945,256	1869,516	1875,004	1837,073	1845,238	1879,098	1868,513
26/03/2019 14:36	1955,138	1958,201	1951,054	1967,004	1827,742	1853,872	1836,674	1882,713	1876,432	1855,707



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26/03/2019 14:38	1944,796	1959,961	1949,036	1936,751	1854,837	1874,977	1790,97	1871,651	1863,933	1841,847
26/03/2019 14:40	1952,811	1957,029	1941,702	1958,782	1842,767	1836,021	1829,055	1869,51	1871,004	1878,68
26/03/2019 14:42	1952,566	1959,061	1943,854	1949,98	1849,493	1864,395	1831,595	1861,593	1872,642	1877,984
26/03/2019 14:44	1962,745	1953,876	1952,317	1955,546	1860,449	1869,159	1825,283	1857,543	1865,662	1855,542
26/03/2019 14:46	1961,371	1964,19	1954,442	1953,39	1849,096	1874,991	1832,814	1864,276	1876,767	1885,265
26/03/2019 14:48	1956,938	1968,941	1963,029	1960,267	1869,545	1864,276	1835,927	1880,162	1877,859	1884,738
26/03/2019 14:50	1950,462	1970,847	1974,324	1907,74	1868,501	1882,492	1822,176	1874,799	1879,912	1882,668
26/03/2019 14:52	1958,836	1969,08	1960,29	1966,61	1852,508	1880,164	1824,883	1888,226	1874,919	1864,688
26/03/2019 14:54	1930,979	1959,942	1943,888	1967,749	1858,055	1873,328	1841,906	1889,417	1884,316	1885,912
26/03/2019 14:56	1952,604	1970,859	1941,397	1975,482	1858,01	1885,919	1825,49	1877,323	1885,616	1889,134
26/03/2019 14:58	1969,86	1967,023	1932,296	1984,225	1847,045	1867,597	1837,66	1882,592	1879,781	1890,839
26/03/2019 15:00	1976,649	1964,153	1953,53	1964,563	1865,401	1885,55	1827,604	1891,481	1868,766	1876,806
26/03/2019 15:02	1973,275	1963,93	1958,332	1975,788	1866,173	1880,956	1828,002	1880,737	1867,294	1876,79
26/03/2019 15:04	1959,852	1959,906	1957,082	1984,392	1857,094	1869,2	1831,123	1885,402	1866,146	1880,826
26/03/2019 15:06	1969,672	1956,751	1964,979	1983,746	1866,19	1853,582	1834,962	1887,103	1878,158	1876,182
26/03/2019 15:08	1959,803	1954,84	1945,523	1970,048	1861,151	1873,269	1822,78	1863,73	1879,568	1867,44
26/03/2019 15:10	1953,155	1963,932	1957,811	1979,586	1880,775	1883,24	1836,32	1870,037	1869,918	1866,56
26/03/2019 15:12	1952,937	1965,814	1955,827	1982,261	1880,19	1827,513	1833,618	1878,974	1873,585	1869,958
26/03/2019 15:14	1961,907	1964,96	1944,632	1965,084	1882,44	1854	1847,122	1893,394	1883,1	1867,334
26/03/2019 15:16	1948,245	1963,736	1928,276	1964,351	1878,776	1879,697	1834,875	1885,682	1880,841	1865,56
26/03/2019 15:18	1937,306	1965,607	1960,403	1937,265	1883,038	1858,292	1833,522	1884,276	1879,152	1872,472
26/03/2019 15:20	1951,252	1969,093	1957,928	1964,166	1878,704	1886,82	1845,867	1872,698	1879,515	1883,832
26/03/2019 15:22	1946,814	1974,038	1957,792	1964,325	1893,91	1883,878	1840,828	1882,294	1883,667	1870,904
26/03/2019 15:24	1934,325	1976,55	1957,163	1971,724	1887,791	1879,935	1844,677	1869,518	1901,514	1868,158
26/03/2019 15:26	1960,618	1975,769	1959,885	1962,199	1891,563	1886,121	1833,915	1894,411	1898,487	1865,058
26/03/2019 15:28	1955,51	1978,678	1912,234	1926,934	1895,158	1892,607	1829,044	1875,307	1903,849	1903,32
26/03/2019 15:30	1972,302	1985,45	1969,26	1979,402	1886,15	1887,204	1827,363	1884,14	1894,825	1896,128
26/03/2019 15:32	1964,258	1987,263	1961,264	1960,994	1877,518	1887,112	1833,333	1884,108	1887,56	1893,983
26/03/2019 15:34	1965,424	1985,01	1945,172	1968,67	1896,969	1900,802	1827,131	1897,549	1901,572	1901,889
26/03/2019 15:36	1958,661	1987,503	1965,07	1970,831	1901,334	1888,231	1837,628	1889,184	1903,525	1903,528
26/03/2019 15:38	1958,914	1977,369	1960,182	1982,362	1893,56	1898,506	1843,881	1894,858	1897,303	1905,393
26/03/2019 15:40	1960,137	1988,049	1942,924	1960,837	1907,527	1851,801	1829,816	1892,601	1908,487	1887,616
26/03/2019 15:42	1967,891	1987,08	1976,296	1987,414	1896,59	1898,149	1826,511	1880,19	1892,916	1898,303
26/03/2019 15:44	1976,005	1986,11	1981,534	1963,216	1887,58	1892,152	1836,135	1872,192	1887,377	1867,081
26/03/2019 15:46	1967,158	1982,438	1979,991	1967,495	1893,926	1883,504	1839,454	1875,698	1892,148	1872,043
26/03/2019 15:48	1946,41	1978,355	1976,416	1934,172	1892,165	1872,984	1814,576	1882,452	1883,023	1882,132
26/03/2019 15:50	1953,167	1976,631	1966,272	1968,976	1888,908	1875,787	1838,019	1875,68	1893,86	1884,807
26/03/2019 15:52	1963,28	1976,367	1961,405	1958,452	1881,242	1882,497	1834,061	1881,494	1891,298	1874,702
26/03/2019 15:54	1962,053	1978,343	1956,618	1961,949	1871,02	1882,314	1827,848	1885,527	1882,925	1874,069
26/03/2019 15:56	1950,41	1975,868	1950,396	1946,728	1884,964	1870,389	1837,176	1850,722	1884,402	1875,607
26/03/2019 15:58	1936,901	1973,26	1969,383	1959,901	1889,961	1865,848	1836,772	1883,126	1889,399	1890,67
26/03/2019 16:00	1946,358	1966,879	1959,396	1962,35	1877,213	1874,209	1847,318	1882,274	1889,123	1897,093
26/03/2019 16:02	1958,926	1966,89	1947,644	1940,361	1890,076	1883,516	1848,449	1880,617	1902,134	1894,945
26/03/2019 16:04	1915,06	1967,702	1961,791	1952,697	1891,378	1888,211	1845,275	1876,555	1906,101	1897,693
26/03/2019 16:06	1949,314	1975,08	1967,161	1951,155	1899,14	1882,863	1839,933	1872,337	1905,076	1860,122
26/03/2019 16:08	1963,658	1975,47	1965,713	1957,776	1883,785	1895,757	1845,163	1891,172	1899,109	1877,919
26/03/2019 16:10	1958,969	1976,323	1962,054	1926,178	1887,759	1870,337	1831,864	1862,81	1898,612	1909,39
26/03/2019 16:12	1967,11	1980,415	1962,26	1959,809	1885,512	1865,611	1853,816	1885,069	1914,943	1882,373
26/03/2019 16:14	1952,577	1981,212	1966,784	1937,996	1880,73	1880,023	1878,846	1883,02	1894,232	1884,987
26/03/2019 16:16	1921,105	1979,851	1969,421	1957,692	1891,287	1884,599	1883,037	1887,834	1908,082	1890,092
26/03/2019 16:18	1975,197	1984,775	1966,01	1968,295	1906,384	1892,389	162,636	1897,738	1898,511	1880,978
26/03/2019 16:20	1973,428	1987,957	1963,057	1980,019	1904,152	1883,897	4,999	1888,231	1905,578	1887,628
26/03/2019 16:22	1966,604	1987,918	1986,443	1977,099	1907,42	1904,704	268,23	1858,399	1906,216	1885,686
26/03/2019 16:24	1971,099	1982,391	1972,043	1977,587	1905,474	1897,825	761,308	1902,638	1900,563	1894,416
26/03/2019 16:26	1968,64	1981,341	1932,322	1979,921	1897,223	1894,595	1446,595	1870,886	1904,271	1856,965
26/03/2019 16:28	1969,995	1990,138	1964,42	1987,538	1900,047	1886,308	1864,26	1897,101	1903,3	1888,668
26/03/2019 16:30	1968,645	1985,324	1976,848	1992,298	1878,041	1894,334	1900,55	1886,406	1905,693	1902,617
26/03/2019 16:32	1973,586	1983,91	1960,474	1959,567	1878,787	1881,561	1891,569	1887,703	1873,338	1879,631
26/03/2019 16:34	1970,606	1972,873	1945,856	1967,704	1880,63	1877,968	1879,635	1862,532	1886,088	1878,736
26/03/2019 16:36	1955,728	1965,977	1960,995	1957,581	1871,829	1870,043	1885,239	1875,942	1862,968	1878,494
26/03/2019 16:38	1945,076	1961,347	1920,883	1946,455	1857,788	1869,475	1867,076	1874,066	1876,875	1876,593

26/03/2019 16:40	1957,944	1960,698	1932,416	1950,405	1859,281	1869,475	1880,327	1872,714	1850,063	1869,288
26/03/2019 16:42	1931,599	1956,675	1926,359	1952,569	1846,191	1843,484	1865,512	1866,89	1869,21	1864,266
26/03/2019 16:44	1938,074	1952,635	1929,45	1953,022	1862,634	1857,79	1866,955	1874,715	1864,155	1866,055
26/03/2019 16:46	1944,912	1947,711	1938,596	1951,395	1845,145	1833,084	1859,989	1857,482	1860,451	1866,39
26/03/2019 16:48	1940,962	1939,01	1927,133	1945,539	1848,246	1847,404	1862,662	1885,465	1848,847	1839,477
26/03/2019 16:50	1924,2	1936,817	1950,367	1969,19	1813,706	1826,874	1884,302	1873,52	1857,101	1853,73
26/03/2019 16:52	1944,961	1939,14	1933,934	1956,957	1855,681	1853,732	1882,204	1878,133	1846,125	1855,806
26/03/2019 16:54	1949,381	1947,055	1951,306	1946,6	1838,767	1851,5	1867,846	1899,315	1867,706	1875,584
26/03/2019 16:56	1964,701	1953,62	1934,44	1965,447	1866,736	1869,961	1884,695	1897,613	1878,875	1885,119
26/03/2019 16:58	1946,273	1960,826	1970,891	1969,908	1869,531	1869,961	1899,118	1898,98	1877,092	1893,104
26/03/2019 17:00	1940,433	1966,612	1954,839	1985,137	1863,95	1889,603	1874,642	1888	1887,42	1884,305
26/03/2019 17:02	1960,549	1974,602	1968,404	1965,782	1869,479	1880,737	1887,397	1889,826	1891,05	1863,402
26/03/2019 17:04	1970,196	1977,867	1971,994	1959,627	1862,401	1892,271	1888,055	1888,02	1885,291	1888,108
26/03/2019 17:06	1965,24	1973,172	1953,534	1959,73	1866,771	1877,145	1894,794	1895,914	1879,236	1884,648
26/03/2019 17:08	1955,551	1958,074	1938,466	1955,802	1843,196	1856,223	1866,592	1881,806	1869,679	1880,335
26/03/2019 17:10	1952,352	1950,908	1931,063	1968,8	1832,339	1873,733	1885,57	1877,41	1863,469	1864,04
26/03/2019 17:12	1928,644	1957,082	1942,493	1969,744	1853,592	1873,097	1860,321	1864,781	1870,325	1870,339
26/03/2019 17:14	1952,722	1952,662	1951,701	1964,208	1866,468	1858,439	1866,971	1877,022	1871,713	1878,933
26/03/2019 17:16	1936,34	1956,656	1942,92	1948,638	1843,841	1860,513	1873,973	1857,389	1866,205	1878,845
26/03/2019 17:18	1944,864	1955,704	1941,072	1945,174	1866,696	1875,453	1876,405	1866,716	1855,778	1867,58
26/03/2019 17:20	1939,368	1951,307	1951,505	1956,913	1850,912	1847,763	1879,946	1864,502	1863,159	1866,308
26/03/2019 17:22	1932,014	1947,39	1931,312	1926,841	1864,223	1871,423	1861,214	1883,883	1860,88	1865,916
26/03/2019 17:24	1950,308	1945,977	1944,413	1965,542	1862,661	1856,236	1862,351	1864,398	1864,413	1845,49
26/03/2019 17:26	1936,839	1948,351	1952,961	1948,468	1865,849	1866,558	1854,3	1863,49	1872,69	1869,702
26/03/2019 17:28	1926,455	1946,839	1949,272	1939,364	1860,876	1862,479	1847,631	1874,159	1860,174	1872,162
26/03/2019 17:30	1928,243	1940,991	1931,919	1943,594	1855,762	1856,645	1852,682	1860,692	1854,574	1858,684
26/03/2019 17:32	1940,19	1940,3	1942,069	1934,996	1857,511	1849,528	1864,01	1837,146	1867,544	1864,752
26/03/2019 17:34	1918,335	1935,918	1936,774	1927,702	1858,88	1838,575	1870,012	1852,823	1853,245	1857,536
26/03/2019 17:36	1927,819	1924,692	1905,523	1934,064	1831,099	1838,479	1814,327	1837,238	1844,516	1832,547
26/03/2019 17:38	1919,193	1919,872	1921,769	1887,635	1809,561	1833,405	1844,927	1831,298	1834,741	1856,323
26/03/2019 17:40	1913,592	1906,954	1914,333	1908,877	1793,748	1815,566	1848,86	1850,559	1839,515	1834,372
26/03/2019 17:42	1883,127	1904,569	1912,911	1918,67	1804,168	1814,046	1821,804	1818,973	1826,164	1821,716
26/03/2019 17:44	1895,749	1892,575	1905,146	1914,992	1812,828	1813,47	1821,424	1825,948	1822,274	1807,249
26/03/2019 17:46	1888,703	1889,68	1885,307	1894,985	1724,053	1798,948	1822,615	1820,892	1811,852	1809,143
26/03/2019 17:48	1882,254	1886,456	1874,771	1898,82	1782,982	1807,992	1820,713	1808,522	1783,316	1819,137
26/03/2019 17:50	1871,74	1876,282	1865,478	1877,188	1779,266	1772,586	1801,84	1803,047	1789,44	1786,478
26/03/2019 17:52	1855,511	1857,402	1870,169	1861,086	1769,745	1782,315	1793,817	1793,773	1782,24	1779,904
26/03/2019 17:54	1849,755	1851,529	1853,02	1850,164	1758,384	1772,466	1767,321	1784,775	1772,283	1775,518
26/03/2019 17:56	1836,006	1840,434	1826,361	1843,835	1745,002	1761,943	1761,344	1771,693	1766,609	1763,884
26/03/2019 17:58	1816,932	1834,47	1817,507	1842,161	1748,325	1746,698	1747,66	1749,791	1744,037	1755,702
26/03/2019 18:00	1811,451	1824,469	1807,495	1831,025	1753,911	1749,786	1734,73	1746,211	1755,343	1748,663
26/03/2019 18:02	1812,275	1818,139	1817,038	1828,741	1743,251	1742,305	1735,066	1729,087	1744,816	1742,508
26/03/2019 18:04	1800,777	1807,299	1804,442	1808,055	1740,787	1739,397	1748,648	1730,797	1739,037	1740,053
26/03/2019 18:06	1784,535	1810,023	1779,609	1807,969	1716,845	1722,391	1724,988	1724,613	1731,93	1723,298
26/03/2019 18:08	1794,841	1796,237	1802,758	1800,617	1711,842	1707,265	1708,641	1729,057	1725,375	1733,916
26/03/2019 18:10	1781,757	1785,223	1778,903	1793,507	1706,776	1703,339	1693,369	1711,229	1711,316	1713,071
26/03/2019 18:12	1772,54	1767,19	1766,883	1779,631	1693,56	1694,436	1710,006	1675,561	1709,528	1707,213
26/03/2019 18:14	1749,709	1760,936	1742,201	1745,501	1687,372	1694,436	1691,17	1694,762	1695,583	1684,756
26/03/2019 18:16	1743,48	1750,081	1741,578	1736,266	1677,326	1678,567	1673,99	1663,405	1679,681	1685,759
26/03/2019 18:18	1721,13	1737,137	1728,617	1730,065	1658,505	1659,857	1665,651	1669,446	1663,114	1661,291
26/03/2019 18:20	1706,799	1721,983	1724,502	1712,098	1642,296	1649,878	1656,173	1648,737	1622,633	1645,889
26/03/2019 18:22	1694,881	1706,367	1697,6	1716,285	1626,369	1627,743	1642,47	1635,278	1631,068	1642,552
26/03/2019 18:24	1667,075	1690,835	1686,248	1691,466	1612,864	1612,04	1632,292	1618,052	1619,864	1626,404
26/03/2019 18:26	1673,837	1674,389	1665,848	1676,392	1596,424	1588,546	1611,747	1613,613	1599,771	1612,729
26/03/2019 18:28	1635,378	1655,219	1655,779	1653,747	1585,032	1572,612	1582,999	1596,114	1589,754	1570,973
26/03/2019 18:30	1629,669	1633,984	1629,045	1633,572	1563,918	1551,775	1566,925	1570,75	1556,568	1559,712
26/03/2019 18:32	1608,694	1605,928	1606,502	1619,885	1537,919	1534,595	1538,701	1548,067	1536,158	1548,748
26/03/2019 18:34	1588,788	1582,489	1574,083	1599,87	1519,112	1510,292	1521,26	1529,781	1514,554	1528,457
26/03/2019 18:36	1567,146	1562,004	1558,183	1564,353	1488,781	1490,753	1501,53	1496,972	1491,547	1497,84
26/03/2019 18:38	1527,533	1520,428	1534,528	1543,945	1437,171	1452,538	1476,967	1473,492	1453,079	1465,943
26/03/2019 18:40	1437,703	1442,059	1440,704	1424,47	1340,018	1356,05	1411,054	1428,549	1392,201	1388,234



PARÁMETROS PARA LOS PROCESOS DE DETERMINACIÓN DE MÍNIMO TÉCNICO FOTOVOLTAICA "URIBE SOLAR", ANTOFAGASTA, CHILE.

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26/03/2019 18:42	1335,195	1374,709	1342,853	1370,159	1267,646	1293,597	1357,981	1365,825	1338,057	1316,282
26/03/2019 18:44	1229,992	1312,511	1262,08	1304,715	1190,347	1234,622	1293,867	1317,601	1274,408	1248,225
26/03/2019 18:46	1151,092	1234,382	1187,454	1207,844	1113,223	1163,099	1224,867	1252,431	1206,76	1170,88
26/03/2019 18:48	1094,497	1163,603	1112,422	1157,688	1040,818	1100,667	1158,961	1180,631	1146,373	1107,866
26/03/2019 18:50	1041,24	1089,122	1046,446	1103,421	969,121	1045,99	1094,738	1125,735	1080,943	1031,802
26/03/2019 18:52	984,677	1028,478	981,253	1034,003	906,513	982,461	1027,525	1062,248	1019,635	964,435
26/03/2019 18:54	929,362	965,571	908,914	968,175	834,631	926,834	940,737	993,935	951,65	903,19
26/03/2019 18:56	862,339	889,749	845,209	893,082	766,388	866,607	880,988	925,35	899,648	835,771
26/03/2019 18:58	786,002	840,889	775,191	823,234	704,503	818,229	837,277	860,869	842,691	772,546
26/03/2019 19:00	728,073	775,024	721,199	768,316	653,535	737,95	774,112	805,184	767,275	716,87
26/03/2019 19:02	669,482	710,394	657,763	705,53	597,535	683,737	451,568	744,304	719,39	652,434
26/03/2019 19:04	618,349	657,58	579,531	644,431	530,399	643,701	53,569	685,157	672,372	594,695
26/03/2019 19:06	571,44	596,625	539,532	591,364	468,707	584,947	351,826	627,182	607,177	531,556
26/03/2019 19:08	514,573	534,578	485,931	539,066	426,03	528,674	540,616	569,783	550,93	474,34
26/03/2019 19:10	456,502	482,859	425,138	481,972	383,117	475,68	490,894	518,72	493,531	421,452
26/03/2019 19:12	396,407	433,09	376,129	430,474	334,982	417,616	439,19	464,111	443,791	384,226
26/03/2019 19:14	350,953	382,754	333,41	375,193	295,118	366,933	388,811	414,564	394,6	349,857
26/03/2019 19:16	305,251	335,568	287,599	330,688	264,792	337,74	340,89	366,65	341,94	302,117
26/03/2019 19:18	264,205	290,806	252,71	289,391	228,135	281,909	297,346	320,887	294,089	261,755
26/03/2019 19:20	230,778	251,208	221,648	251,326	196,068	242,224	249,374	275,83	251,109	223,027
26/03/2019 19:22	199,198	213,136	194,313	212,349	170,87	209,255	217,718	236,517	217,538	188,491
26/03/2019 19:24	166,321	177,52	163,061	180,874	143,987	162,956	183,738	200,953	180,335	159,462
26/03/2019 19:26	136,874	145,147	132,007	149,841	118,467	142,321	150,157	167,962	141,109	129,59
26/03/2019 19:28	109,932	114,41	107,028	121,404	95,231	115,93	117,766	133,493	115,444	104,183
26/03/2019 19:30	85,022	85,492	82,188	93,587	71,343	86,372	89,914	102,549	85,38	78,02
26/03/2019 19:32	60,841	56,896	55,64	63,693	46,405	56,348	60,086	69,556	52,976	51,605
26/03/2019 19:34	34,435	28,47	30,166	33,037	20,09	25,018	27,937	33,737	14,357	21,419
26/03/2019 19:36	17,42	16,959	14,404	10,452	11,045	11,744	11,41	12,295	9,101	9,787
26/03/2019 19:38	10,243	13,19	9,368	7,271	10,371	10,017	11,69	9,326	9,087	9,228
26/03/2019 19:40	6,317	9,799	6,4	2,969	6,821	5,957	7,729	6,385	9,418	5,555
26/03/2019 19:42	3,073	1,941	0,29	0,227	0,174	0	0,318	0,819	2,938	0,489
26/03/2019 19:44	0,732	0,093	0	0	0	0	0	0	0,003	0
26/03/2019 19:46	0,41	0,154	0	0	0	0	0	0	0	0
26/03/2019 19:48	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:50	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:52	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:54	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:56	0	0	0	0	0	0	0	0	0	0
26/03/2019 19:58	0	0	0	0	0	0	0	0	0	0

Tabla 9: Potencia AC registrada en contadores de baja tensión (kW). (P11-P20)

Fecha/hora	PLANTA 21	PLANTA 22	PLANTA 23	PLANTA 24
	POTENCIA AC GENERADA P21 (kW)	POTENCIA AC GENERADA P22 (kW)	POTENCIA AC GENERADA P23 (kW)	POTENCIA AC GENERADA P24 (kW)
26/03/2019 7:30	0	0	0	0
26/03/2019 7:32	0	0	0	0
26/03/2019 7:34	0	0	0	0
26/03/2019 7:36	0	0	0	0
26/03/2019 7:38	0	0	0	0
26/03/2019 7:40	0	0	0	0
26/03/2019 7:42	0	0,079	0	0
26/03/2019 7:44	1,003	2,102	0,787	1,331
26/03/2019 7:46	3,795	4,729	3,447	4,668
26/03/2019 7:48	6,525	4,607	6,704	6,374

26/03/2019 7:50	4,998	6,275	5,425	6,241
26/03/2019 7:52	7,383	8,475	8,96	6,96
26/03/2019 7:54	13,26	13,901	13,41	11,556
26/03/2019 7:56	16,274	17,273	17,7	15,739
26/03/2019 7:58	19,528	20,641	21,207	19,571
26/03/2019 8:00	23,513	24,349	24,497	22,038
26/03/2019 8:02	27,485	28,03	28,846	26,373
26/03/2019 8:04	31,058	31,69	33,036	29,469
26/03/2019 8:06	35,793	35,262	36,955	32,959
26/03/2019 8:08	39,949	39,044	41,601	37,572
26/03/2019 8:10	43,687	42,63	46,084	41,446
26/03/2019 8:12	48,795	46,306	50,067	45,148
26/03/2019 8:14	53,402	50,58	56,937	50,194
26/03/2019 8:16	58,539	55,162	63,357	55,371
26/03/2019 8:18	65,04	59,94	77,284	65,579
26/03/2019 8:20	73,095	65,352	181,097	113,065
26/03/2019 8:22	169,541	71,778	395,96	193,834
26/03/2019 8:24	393,068	143,193	511,174	344,505
26/03/2019 8:26	510,506	396,503	574,601	468,841
26/03/2019 8:28	576,324	519,002	641,281	530,544
26/03/2019 8:30	639,588	574,076	699,908	588,077
26/03/2019 8:32	695,766	638,238	763,878	646,735
26/03/2019 8:34	742,53	704,801	832,402	701,97
26/03/2019 8:36	815,417	764,285	897,863	764,391
26/03/2019 8:38	869,534	837,618	960,836	827,617
26/03/2019 8:40	933,615	898,042	1021,413	883,649
26/03/2019 8:42	982,738	956,319	1080,553	941,771
26/03/2019 8:44	1041,731	1020,506	1136,466	998,491
26/03/2019 8:46	1089,553	1071,001	1191,528	1050,312
26/03/2019 8:48	1144,572	1129,548	1251,273	1103,273
26/03/2019 8:50	1208,884	1181,491	1322,646	1156,734
26/03/2019 8:52	1269,777	1243,896	1390,375	1217,718
26/03/2019 8:54	1321,328	1305,068	1455,013	1280,662
26/03/2019 8:56	1397,194	1364,272	1539,889	1340,104
26/03/2019 8:58	1497,017	1424,08	1615,35	1398,69
26/03/2019 9:00	1543,395	1489,83	1654,697	1460,21
26/03/2019 9:02	1549,374	1540,669	1669,653	1511,42
26/03/2019 9:04	1571,404	1593,98	1692,1	1561,645
26/03/2019 9:06	1581,414	1638,551	1704,068	1597,437
26/03/2019 9:08	1591,962	1668,65	1691,072	1619,08
26/03/2019 9:10	1614,202	1681,597	1717,777	1627,429
26/03/2019 9:12	1621,662	1691,056	1739,004	1644,072
26/03/2019 9:14	1626,003	1706,873	1747,873	1649,181
26/03/2019 9:16	1637,713	1719,809	1757,037	1656,537
26/03/2019 9:18	1646,995	1728,241	1767,162	1668,782
26/03/2019 9:20	1659,6	1731,336	1781,179	1678,48
26/03/2019 9:22	1647,955	1744,612	1792,064	1688,243
26/03/2019 9:24	1679,017	1751,597	1791,795	1693,955
26/03/2019 9:26	1675,213	1761,026	1804,906	1703,739
26/03/2019 9:28	1693,75	1772,651	1803,617	1714,17
26/03/2019 9:30	1712,071	1777,165	1826,343	1723,041
26/03/2019 9:32	1720,903	1787,976	1819,16	1725,257
26/03/2019 9:34	1718,863	1792,314	1835,247	1737,577
26/03/2019 9:36	1733,601	1804,326	1854,703	1746,592
26/03/2019 9:38	1745,739	1811,069	1866,466	1752,996
26/03/2019 9:40	1751,809	1824,591	1877,031	1760,846
26/03/2019 9:42	1755,247	1833,792	1886,362	1770,008
26/03/2019 9:44	1764,539	1839,417	1895,049	1779,115
26/03/2019 9:46	1781,119	1842,38	1903,561	1784,493
26/03/2019 9:48	1779,374	1854,17	1912,736	1792,374
26/03/2019 9:50	1768,69	1861,287	1916,118	1796,698

26/03/2019 9:52	1780,677	1866,306	1921,634	1805,524
26/03/2019 9:54	1801,81	1871,504	1922,305	1804,297
26/03/2019 9:56	1801,615	1876,99	1929,552	1808,612
26/03/2019 9:58	1799,526	1875,898	1932,802	1812,117
26/03/2019 10:00	1816,217	1887,484	1943,823	1814,794
26/03/2019 10:02	1802,015	1890,535	1949,41	1831,296
26/03/2019 10:04	1834,992	1900,701	1959,444	1842,003
26/03/2019 10:06	1831,624	1894,847	1963,608	1848,601
26/03/2019 10:08	1828,226	1898,631	1971,846	1850,453
26/03/2019 10:10	1837,75	1921,744	1976,13	1857,102
26/03/2019 10:12	1845,822	1930,093	1972,805	1861,009
26/03/2019 10:14	1851,329	1929,38	1983,604	1864,452
26/03/2019 10:16	1861,942	1938,39	1985,912	1870,631
26/03/2019 10:18	1836,551	1931,683	1990,162	1872,441
26/03/2019 10:20	1863,698	1942,032	1994,328	1873,645
26/03/2019 10:22	1832,877	1944,741	1993,719	1876,435
26/03/2019 10:24	1833,187	1949,321	1994,448	1881,981
26/03/2019 10:26	1870,017	1951,947	2003,584	1886,89
26/03/2019 10:28	1867,364	1952,754	2009,728	1889,217
26/03/2019 10:30	1863,091	1956,736	2012,771	1893,176
26/03/2019 10:32	1883,897	1956,251	2013,941	1892,643
26/03/2019 10:34	1890,536	1964,55	2010,8	1892,265
26/03/2019 10:36	1882,126	1968,894	2020,107	1895,13
26/03/2019 10:38	1896,096	1958,776	2019,706	1896,682
26/03/2019 10:40	1874,218	1963,262	2012,439	1889,644
26/03/2019 10:42	1871,452	1963,527	2014,831	1888,58
26/03/2019 10:44	1890,164	1960,927	2025,319	1896,061
26/03/2019 10:46	1852,19	1958,526	2024,661	1896,66
26/03/2019 10:48	1866,761	1961,589	2017,389	1896,05
26/03/2019 10:50	1867,216	1966,62	2015,13	1900,224
26/03/2019 10:52	1882,698	1967,956	2017,584	1896,902
26/03/2019 10:54	1886,042	1968,56	2018,455	1898,783
26/03/2019 10:56	1880,342	1966,486	2019,63	1897,19
26/03/2019 10:58	1893,908	1970,458	2024,508	1901,242
26/03/2019 11:00	1867,153	1968,596	2027,071	1905,177
26/03/2019 11:02	1877,407	1969,027	2027,097	1901,242
26/03/2019 11:04	1870,212	1970,339	2021,133	1904,049
26/03/2019 11:06	1870,666	1976,788	2022,588	1905,444
26/03/2019 11:08	1877,762	1969,374	2027,545	1904,866
26/03/2019 11:10	1861,546	1978,026	2022,098	1912,13
26/03/2019 11:12	1877,134	1970,198	2018,816	1910,855
26/03/2019 11:14	1883,644	1971,847	2019,25	1903,493
26/03/2019 11:16	1876,077	1966,93	2017,568	1904,788
26/03/2019 11:18	1857,572	1961,763	2015,93	1901,458
26/03/2019 11:20	1873,345	1967,792	2009,715	1900,172
26/03/2019 11:22	1887,796	1966,861	2012,802	1902,969
26/03/2019 11:24	1856,619	1969,665	2021,714	1902,007
26/03/2019 11:26	1853,508	1973,522	2018,682	1904,315
26/03/2019 11:28	1853,284	1969,993	2010,791	1902,486
26/03/2019 11:30	1878,021	1971,82	2010,207	1904,645
26/03/2019 11:32	1870,69	1965,558	2009,912	1899,554
26/03/2019 11:34	1851,704	1964,019	2004,763	1892,261
26/03/2019 11:36	1828,778	1948,591	2001,555	1890,175
26/03/2019 11:38	1843,119	1951,931	2001,341	1887,551
26/03/2019 11:40	1837,892	1952,701	2006,678	1889,46
26/03/2019 11:42	1874,763	1952,694	2000,522	1885,609
26/03/2019 11:44	1862,306	1953,364	1996,348	1882,296
26/03/2019 11:46	1866,618	1952,301	1995,75	1885,425
26/03/2019 11:48	1822,954	1950,856	1999,843	1881,718
26/03/2019 11:50	1875,564	1952,721	2000,46	1885,648
26/03/2019 11:52	1845,839	1952,498	2002,385	1879,646



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26/03/2019 11:54	1863,076	1954,158	2003,605	1879,729
26/03/2019 11:56	1870,356	1955,481	2001,589	1887,928
26/03/2019 11:58	1855,323	1956,102	1995,74	1888,044
26/03/2019 12:00	1863,087	1954,942	2000,367	1884,465
26/03/2019 12:02	1866,642	1948,097	2001,064	1885,627
26/03/2019 12:04	1821,103	1951,244	2003,194	1888,818
26/03/2019 12:06	1861,736	1951,662	1999,609	1888,598
26/03/2019 12:08	1834,992	1956,059	2006,521	1891,471
26/03/2019 12:10	1865,514	1957,131	2002,271	1885,089
26/03/2019 12:12	1869,835	1952,302	2011,298	1890,405
26/03/2019 12:14	1870,336	1958,692	2009,521	1889,96
26/03/2019 12:16	1856,547	1955,05	2005,366	1891,677
26/03/2019 12:18	1860,251	1955,103	2006,178	1892,713
26/03/2019 12:20	1854,345	1953,122	2013,004	1892,227
26/03/2019 12:22	1872,366	1956,176	2013,772	1892,99
26/03/2019 12:24	1876,977	1956,509	2010,6	1887,139
26/03/2019 12:26	1877,597	1954,34	2011,511	1883,853
26/03/2019 12:28	1860,755	1952,185	2011,416	1888,128
26/03/2019 12:30	1863,143	1950,579	2014,39	1889,153
26/03/2019 12:32	1870,257	1955,108	2010,327	1888,023
26/03/2019 12:34	1849,171	1953,006	2000,883	1885,988
26/03/2019 12:36	1851,177	1952,214	2002,958	1889,009
26/03/2019 12:38	1813,81	1947,674	2006,829	1882,015
26/03/2019 12:40	1863,53	1941,02	2011,307	1889,389
26/03/2019 12:42	1866,254	1950,254	2011,643	1892,234
26/03/2019 12:44	1851,899	1948,801	2008,43	1889,741
26/03/2019 12:46	1861,62	1951,29	2011,71	1896,661
26/03/2019 12:48	1862,55	1960,309	2015,398	1895,695
26/03/2019 12:50	1870,768	1962,019	2014,453	1894,185
26/03/2019 12:52	1874,88	1947,963	2016,167	1901,937
26/03/2019 12:54	1853,504	1959,925	2015,598	1897,911
26/03/2019 12:56	1872,52	1959,592	2019,772	1893,558
26/03/2019 12:58	1882,685	1962,315	2018,071	1897,024
26/03/2019 13:00	1883,156	1961,826	2019,028	1900,22
26/03/2019 13:02	1881,655	1963,691	2019,328	1886,952
26/03/2019 13:04	1873,664	1963,654	2007,479	1897,744
26/03/2019 13:06	1873,446	1965,487	2020,286	1905,376
26/03/2019 13:08	1852,892	1966,986	2022,877	1902,117
26/03/2019 13:10	1878,999	1968,956	2020,148	1900,36
26/03/2019 13:12	1877,759	1968,744	2018,186	1895,328
26/03/2019 13:14	1882,071	1963,196	2016,758	1892,263
26/03/2019 13:16	1875,67	1960,879	2018,306	1892,183
26/03/2019 13:18	1875,269	1961,866	2022,83	1899,626
26/03/2019 13:20	1865,648	1955,905	2020,23	1898,268
26/03/2019 13:22	1882,535	1960,011	2022,078	1898,069
26/03/2019 13:24	1842,472	1963,11	2020,298	1898,335
26/03/2019 13:26	1882,791	1963,168	2015,695	1897,653
26/03/2019 13:28	1865,664	1948,44	2026,078	1900,878
26/03/2019 13:30	1875,424	1951,815	2019,917	1898,206
26/03/2019 13:32	1871,089	1958,297	2018,973	1893,951
26/03/2019 13:34	1871,279	1955,14	2010,779	1891,506
26/03/2019 13:36	1849,087	1957,056	2011,647	1894,274
26/03/2019 13:38	1866,178	1958,903	2011,004	1895,209
26/03/2019 13:40	1867,556	1956,863	2012,418	1887,161
26/03/2019 13:42	1872,556	1958,544	2013,891	1897,027
26/03/2019 13:44	1873,914	1959,011	2014,449	1893,669
26/03/2019 13:46	1874,732	1959,281	2006,08	1891,558
26/03/2019 13:48	1876,139	1955,882	2005,024	1891,837
26/03/2019 13:50	1866,54	1959,913	2007,202	1895,167
26/03/2019 13:52	1851,757	1958,72	2007,134	1896,05
26/03/2019 13:54	1865,187	1958,431	2016,984	1895,059

26/03/2019 13:56	1867,92	1959,239	2016,182	1888,947
26/03/2019 13:58	1870,49	1959,185	2016,209	1892,367
26/03/2019 14:00	1884,632	1948,854	2016,45	1879,978
26/03/2019 14:02	1865,059	1959,781	2016,856	1893,444
26/03/2019 14:04	1872,727	1956,604	2018,509	1891,716
26/03/2019 14:06	1883,345	1959,544	2018,656	1896,04
26/03/2019 14:08	1862,297	1963,517	2010,454	1896,242
26/03/2019 14:10	1863,608	1955,792	2004,5	1890,526
26/03/2019 14:12	1874,191	1960,728	2019,014	1896,702
26/03/2019 14:14	1871,75	1959,129	2012,578	1896,869
26/03/2019 14:16	1880,447	1965,704	2010,166	1898,069
26/03/2019 14:18	1873,73	1967,944	2021,505	1898,292
26/03/2019 14:20	1864,288	1963,392	2020,862	1896,388
26/03/2019 14:22	1883,799	1961,295	2024,801	1894,461
26/03/2019 14:24	1869,197	1970,253	2025,349	1902,539
26/03/2019 14:26	1892,286	1965,317	2025,004	1902,336
26/03/2019 14:28	1889,22	1966,3	2025,425	1905,125
26/03/2019 14:30	1878,775	1969,93	2024,785	1900,326
26/03/2019 14:32	1883,98	1965,137	2020,037	1899,357
26/03/2019 14:34	1879,674	1968,129	2020,616	1898,511
26/03/2019 14:36	1837,942	1965,46	2013,607	1894,177
26/03/2019 14:38	1867,538	1967,327	2014,561	1897,208
26/03/2019 14:40	1865,394	1968,442	2019,402	1899,227
26/03/2019 14:42	1866,303	1968,244	2028,68	1898,588
26/03/2019 14:44	1863,558	1969,08	2013,732	1905,674
26/03/2019 14:46	1879,442	1972,661	2032,677	1905,669
26/03/2019 14:48	1877,96	1976,614	2028,567	1913,071
26/03/2019 14:50	1885,997	1976,367	2005,432	1909,72
26/03/2019 14:52	1867,815	1977,048	2015,573	1909,692
26/03/2019 14:54	1895,971	1979,595	2030,746	1911,85
26/03/2019 14:56	1894,913	1973,541	2032,484	1913,656
26/03/2019 14:58	1899,129	1978,765	2029,564	1913,1
26/03/2019 15:00	1893,74	1984,308	2033,069	1915,587
26/03/2019 15:02	1887,42	1982,243	2034,641	1916,343
26/03/2019 15:04	1876,132	1984,865	2031,812	1917,958
26/03/2019 15:06	1881,937	1977,584	2032,359	1915,319
26/03/2019 15:08	1886,831	1982,71	2026,813	1909,574
26/03/2019 15:10	1864,993	1977,129	2017,863	1904,916
26/03/2019 15:12	1870,135	1966,977	2019,736	1901,827
26/03/2019 15:14	1866,934	1973,711	2021,701	1908,116
26/03/2019 15:16	1874,66	1966,524	2020,764	1903,847
26/03/2019 15:18	1878,03	1965,924	2023,656	1896,66
26/03/2019 15:20	1873,039	1969,066	2022,948	1903,439
26/03/2019 15:22	1875,243	1971,246	2032,631	1905,775
26/03/2019 15:24	1898,534	1976,111	2036,226	1912,02
26/03/2019 15:26	1899,826	1977,041	2041,035	1916,56
26/03/2019 15:28	1882,8	1980,023	2045,614	1915,33
26/03/2019 15:30	1895,007	1984,463	2044,79	1918,581
26/03/2019 15:32	1883,976	1986,105	2045,576	1914,294
26/03/2019 15:34	1891,232	1986,081	2046,796	1916,253
26/03/2019 15:36	1901,661	1988,169	2045,118	1921,296
26/03/2019 15:38	1887,856	1990,888	2035,709	1923,823
26/03/2019 15:40	1893,231	1988,657	2031,229	1918,153
26/03/2019 15:42	1889,404	1981,16	2036,636	1908,686
26/03/2019 15:44	1877,209	1977,394	2030,736	1907,831
26/03/2019 15:46	1880,854	1968,689	2024,101	1900,263
26/03/2019 15:48	1876,651	1966,752	2028,36	1902,41
26/03/2019 15:50	1879,14	1955,999	2029,6	1901,138
26/03/2019 15:52	1876,206	1965,57	2030,056	1907,06
26/03/2019 15:54	1878,104	1962,43	2024,723	1910,392
26/03/2019 15:56	1860,896	1969,163	2022,016	1910,336



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26/03/2019 15:58	1868,936	1968,042	2031,169	1909,87
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26/03/2019 16:02	1893,012	1972,045	2030,614	1914,57
26/03/2019 16:04	1875,399	1977,107	2048,416	1917,851
26/03/2019 16:06	1895,716	1981,861	2046,867	1922,165
26/03/2019 16:08	1900,06	1968,161	2043,282	1925,157
26/03/2019 16:10	1908,139	1976,542	2049,346	1923,413
26/03/2019 16:12	1899,193	1985,08	2048,81	1920,802
26/03/2019 16:14	1882,744	1983,17	2042,471	1922,887
26/03/2019 16:16	1892,32	1974,87	2039,6	1920,582
26/03/2019 16:18	1889,318	1967,129	2043,802	1919,087
26/03/2019 16:20	1892,249	1982,621	2045,015	1915,69
26/03/2019 16:22	1898,285	1989,845	2045,678	1908,437
26/03/2019 16:24	1864,379	1993,088	2051,2	1911,196
26/03/2019 16:26	1888,904	1992,684	2046,545	1926,336
26/03/2019 16:28	1910,124	1993,333	2040,604	1916,335
26/03/2019 16:30	1904,027	1989,075	2031,402	1904,163
26/03/2019 16:32	1888,117	1972,13	2028,968	1911,212
26/03/2019 16:34	1833,771	1970,858	2023,982	1909,653
26/03/2019 16:36	1871,202	1964,838	2017,952	1900,328
26/03/2019 16:38	1866,714	1960,673	2011,189	1891,383
26/03/2019 16:40	1851,094	1951,519	2008,02	1889,099
26/03/2019 16:42	1847,478	1950,226	2006,942	1886,483
26/03/2019 16:44	1874,297	1949,873	2013,71	1891,071
26/03/2019 16:46	1879,829	1965,784	2019,35	1903,763
26/03/2019 16:48	1854,926	1973,384	2017,301	1905,732
26/03/2019 16:50	1888,289	1978,988	2014,15	1905,516
26/03/2019 16:52	1886,121	1981,264	2020,046	1906,117
26/03/2019 16:54	1893,594	1984,146	2028,626	1909,478
26/03/2019 16:56	1888,849	1980,868	2036,867	1912,278
26/03/2019 16:58	1893,455	1973,177	2038,859	1914,211
26/03/2019 17:00	1904,545	1987,783	2032,935	1921,602
26/03/2019 17:02	1902,32	1993,082	2017,726	1916,432
26/03/2019 17:04	1878,659	1989,734	2015,462	1921,513
26/03/2019 17:06	1889,842	1984,418	2008,474	1917,692
26/03/2019 17:08	1859,311	1979,943	2028,908	1916,091
26/03/2019 17:10	1868,539	1977,189	2023,969	1911,441
26/03/2019 17:12	1879,884	1976,41	2020,26	1907,318
26/03/2019 17:14	1878,43	1970,517	2011,765	1913,04
26/03/2019 17:16	1841,579	1967,02	2028,836	1910,663
26/03/2019 17:18	1850,392	1978,052	2024,899	1911,349
26/03/2019 17:20	1871,215	1979,908	2026,064	1906,712
26/03/2019 17:22	1877,633	1973,18	2020,731	1901,712
26/03/2019 17:24	1876,988	1965,659	2020,838	1892,739
26/03/2019 17:26	1865,841	1964,701	2023,279	1893,488
26/03/2019 17:28	1874,184	1958,23	2012,273	1887,909
26/03/2019 17:30	1861,124	1951,302	2011,817	1887,119
26/03/2019 17:32	1872,373	1955,013	2008,557	1883,656
26/03/2019 17:34	1860,267	1952,244	2006,721	1878,697
26/03/2019 17:36	1864,517	1946,513	1998,048	1875,05
26/03/2019 17:38	1851,189	1940,352	1997,613	1870,951
26/03/2019 17:40	1848,062	1935,034	1986,208	1863,096
26/03/2019 17:42	1836,608	1921,212	1976,5	1853,662
26/03/2019 17:44	1826,972	1917,328	1969,287	1852,497
26/03/2019 17:46	1826,117	1911,89	1962,721	1844,378
26/03/2019 17:48	1814,652	1901,66	1958,592	1838,124
26/03/2019 17:50	1802,849	1895,528	1946,188	1820,996
26/03/2019 17:52	1787,491	1881,67	1931,324	1816,799
26/03/2019 17:54	1782,157	1872,081	1923,097	1804,917
26/03/2019 17:56	1758,656	1854,321	1909,229	1795,487
26/03/2019 17:58	1752,169	1850,269	1893,299	1785,797

26/03/2019 18:00	1747,518	1842,044	1889,898	1783,38
26/03/2019 18:02	1747,046	1838,152	1891,729	1771,528
26/03/2019 18:04	1746,597	1825,298	1884,841	1763,623
26/03/2019 18:06	1743,126	1820,741	1881,431	1764,662
26/03/2019 18:08	1724,153	1815,205	1868,753	1737,497
26/03/2019 18:10	1725,116	1805,957	1855,217	1738,971
26/03/2019 18:12	1710,854	1791,34	1848,269	1734,5
26/03/2019 18:14	1706,374	1780,21	1835,501	1729,018
26/03/2019 18:16	1687,296	1771,997	1826,152	1710,006
26/03/2019 18:18	1678,94	1757,158	1810,044	1701,725
26/03/2019 18:20	1649,496	1742,011	1792,814	1688,897
26/03/2019 18:22	1651,363	1731,167	1779,203	1677,089
26/03/2019 18:24	1632,16	1705,462	1763,98	1660,039
26/03/2019 18:26	1615,231	1689,991	1741,096	1639,854
26/03/2019 18:28	1583,536	1675,544	1724,855	1622,289
26/03/2019 18:30	1567,571	1653,504	1701,813	1601,711
26/03/2019 18:32	1544,03	1630,593	1676,639	1579,142
26/03/2019 18:34	1524,932	1604,482	1651,578	1554,339
26/03/2019 18:36	1504,427	1586,34	1628,486	1535,851
26/03/2019 18:38	1446,606	1569,045	1561,759	1510,646
26/03/2019 18:40	1364,917	1542,431	1426,75	1457,76
26/03/2019 18:42	1320,347	1508,367	1323,426	1395,055
26/03/2019 18:44	1263,555	1468,452	1229,756	1344,651
26/03/2019 18:46	1191,643	1419,331	1144,721	1282,046
26/03/2019 18:48	1128,5	1351,834	1062,804	1218,817
26/03/2019 18:50	1056,605	1261,447	991,543	1150,764
26/03/2019 18:52	990,131	1182,406	923,666	1074,784
26/03/2019 18:54	926,093	1105,384	848,284	991,463
26/03/2019 18:56	858,152	1029,272	788,184	917,171
26/03/2019 18:58	798,427	957,765	720,003	858,121
26/03/2019 19:00	742,31	897,175	666,017	803,088
26/03/2019 19:02	684,822	815,444	607,877	737,659
26/03/2019 19:04	626,406	756,407	550,429	687,311
26/03/2019 19:06	572,595	694,598	493,463	634,044
26/03/2019 19:08	514,332	641,362	443,158	575,582
26/03/2019 19:10	460,845	578,81	392,994	518,003
26/03/2019 19:12	410,417	505,858	342,867	469,004
26/03/2019 19:14	364,016	457,821	299,845	421,451
26/03/2019 19:16	316,629	402,149	259,593	372,627
26/03/2019 19:18	273,085	349,101	229,872	325,263
26/03/2019 19:20	236,705	307,718	202,426	282,43
26/03/2019 19:22	197,771	275,923	174,799	244,752
26/03/2019 19:24	168,036	239,292	147,778	211,635
26/03/2019 19:26	137,682	202,717	122,555	179,874
26/03/2019 19:28	109,625	167,517	97,014	144,294
26/03/2019 19:30	83,476	133,244	72,482	113,162
26/03/2019 19:32	56,446	95,537	51,188	81,351
26/03/2019 19:34	27,178	50,501	23,23	41,457
26/03/2019 19:36	11,767	14,939	10,955	16,314
26/03/2019 19:38	6,667	4,563	8,1	8,929
26/03/2019 19:40	2,786	9,873	7,879	8,331
26/03/2019 19:42	0,077	1,15	0,782	2,427
26/03/2019 19:44	0	0	0,09	0
26/03/2019 19:46	0	0	0,005	0
26/03/2019 19:48	0	0	0	0
26/03/2019 19:50	0	0	0	0
26/03/2019 19:52	0	0	0	0
26/03/2019 19:54	0	0	0	0
26/03/2019 19:56	0	0	0	0
26/03/2019 19:58	0	0	0	0


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Tabla 10: Potencia AC registrada en contadores de baja tensión (kW). (P21-P24)

La siguiente tabla, muestran la potencia AC en baja tensión generada en los centros inversores, antes de su conversión a media tensión, menos la potencia registrada en la parte de media tensión (33kV), registrada por el contador para el día 26 de marzo de 2019.

Fecha/hora	POTENCIA AC GENERADA EN INVERSORES (kW)	POTENCIA AC REGISTRADA EN CONTADOR 33 kV (kW)	DIFERENCIA CONTADORES BT Y CONTADOR MT
26/03/2019 7:30	0	0	0
26/03/2019 7:32	0	0	0
26/03/2019 7:34	0	0	0
26/03/2019 7:36	0	0	0
26/03/2019 7:38	0	0	0
26/03/2019 7:40	0	0	0
26/03/2019 7:42	1,274	1,002	0,272
26/03/2019 7:44	35,238	30,776	4,462
26/03/2019 7:46	96,27	50,115	46,155
26/03/2019 7:48	130,471	50,941	79,53
26/03/2019 7:50	137,194	55,478	81,716
26/03/2019 7:52	200,842	118,117	82,725
26/03/2019 7:54	308,011	222,169	85,842
26/03/2019 7:56	409,963	328,085	81,878
26/03/2019 7:58	499,999	418,132	81,867
26/03/2019 8:00	597,878	517,301	80,577
26/03/2019 8:02	726,258	644,55	81,708
26/03/2019 8:04	885,566	806,489	79,077
26/03/2019 8:06	1091,764	1011,833	79,931
26/03/2019 8:08	1356,407	1283,375	73,032
26/03/2019 8:10	1684,986	1624,057	60,929
26/03/2019 8:12	2066,575	1995,287	71,288
26/03/2019 8:14	2577,899	2505,633	72,266
26/03/2019 8:16	3233,25	3180,208	53,042
26/03/2019 8:18	4388,741	4366,46	22,281
26/03/2019 8:20	6196,744	6196,539	0,205
26/03/2019 8:22	8502,877	8507,75	4,873
26/03/2019 8:24	10770,417	10783,611	13,194
26/03/2019 8:26	12835,366	12885,234	49,868
26/03/2019 8:28	14405,011	14436,947	31,936
26/03/2019 8:30	15817,325	15792,479	24,846
26/03/2019 8:32	17292,413	17288,904	3,509
26/03/2019 8:34	18706,106	18734,07	27,964
26/03/2019 8:36	20180,711	20210,139	29,428
26/03/2019 8:38	21662,387	21716,437	54,05
26/03/2019 8:40	23006,094	23064,734	58,64
26/03/2019 8:42	24425,861	24455,317	29,456
26/03/2019 8:44	25859,157	25899,085	39,928
26/03/2019 8:46	27200,027	27244,648	44,621
26/03/2019 8:48	28632,114	28692,676	60,562
26/03/2019 8:50	30098,332	30138,291	39,959
26/03/2019 8:52	31553,879	31628,767	74,888
26/03/2019 8:54	32951,095	33008,436	57,341
26/03/2019 8:56	34521,965	34537,815	15,85



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26/03/2019 8:58	36248,734	36271,84	23,106
26/03/2019 9:00	37343,382	37383,791	40,409
26/03/2019 9:02	38030,064	38031,249	1,185
26/03/2019 9:04	38450,701	38427,376	23,325
26/03/2019 9:06	38861,948	38846,426	15,522
26/03/2019 9:08	39177,982	39149,955	28,027
26/03/2019 9:10	39463,644	39427,721	35,923
26/03/2019 9:12	39786,821	39778,215	8,606
26/03/2019 9:14	40065,887	40045,824	20,063
26/03/2019 9:16	40323,308	40320,464	2,844
26/03/2019 9:18	40637,026	40622,648	14,378
26/03/2019 9:20	40905,812	40869,083	36,729
26/03/2019 9:22	41210,974	41178,857	32,117
26/03/2019 9:24	41482,503	41438,549	43,954
26/03/2019 9:26	41726,22	41711,13	15,09
26/03/2019 9:28	41946,964	41889,277	57,687
26/03/2019 9:30	42171,975	42117,904	54,071
26/03/2019 9:32	42345,998	42309,97	36,028
26/03/2019 9:34	42454,081	42409,35	44,731
26/03/2019 9:36	42658,744	42626,851	31,893
26/03/2019 9:38	42785,254	42752,091	33,163
26/03/2019 9:40	42926,179	42898,003	28,176
26/03/2019 9:42	43211,469	43118,457	93,012
26/03/2019 9:44	43393,19	43358,891	34,299
26/03/2019 9:46	43572,814	43512,649	60,165
26/03/2019 9:48	43688,991	43639,107	49,884
26/03/2019 9:50	43880,104	43826,303	53,801
26/03/2019 9:52	44045,397	43992,352	53,045
26/03/2019 9:54	44164,9	44097,52	67,38
26/03/2019 9:56	44276,097	44212,819	63,278
26/03/2019 9:58	44410,769	44353,619	57,15
26/03/2019 10:00	44561,667	44463,432	98,235
26/03/2019 10:02	44657,756	44610,99	46,766
26/03/2019 10:04	44876,659	44822,131	54,528
26/03/2019 10:06	45010,992	44926,294	84,698
26/03/2019 10:08	45081,292	45022,407	58,885
26/03/2019 10:10	45308,474	45246,303	62,171
26/03/2019 10:12	45362,667	45245,241	117,426
26/03/2019 10:14	45531,088	45430,758	100,33
26/03/2019 10:16	45492,84	45421,502	71,338
26/03/2019 10:18	45595,869	45515,07	80,799
26/03/2019 10:20	45668,919	45589,691	79,228
26/03/2019 10:22	45590,944	45519,799	71,145
26/03/2019 10:24	45640,422	45551,472	88,95
26/03/2019 10:26	45846,951	45748,366	98,585
26/03/2019 10:28	45865,363	45769,006	96,357
26/03/2019 10:30	45959,853	45856,872	102,981
26/03/2019 10:32	45985,32	45892,216	93,104
26/03/2019 10:34	46095,798	46018,918	76,88
26/03/2019 10:36	46098,376	45998,734	99,642
26/03/2019 10:38	46131,059	46046,145	84,914
26/03/2019 10:40	46153,823	46030,128	123,695
26/03/2019 10:42	46273,924	46151,989	121,935
26/03/2019 10:44	46130,007	46033,79	96,217
26/03/2019 10:46	46050,817	45985,163	65,654
26/03/2019 10:48	46137,321	46035,833	101,488
26/03/2019 10:50	46137,257	46077,375	59,882
26/03/2019 10:52	46133,568	46061,85	71,718
26/03/2019 10:54	46138,839	46047,809	91,03
26/03/2019 10:56	46232,805	46124,333	108,472
26/03/2019 10:58	46246,023	46136,206	109,817



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26/03/2019 11:00	46258,659	46163,181	95,478
26/03/2019 11:02	46292,157	46195,298	96,859
26/03/2019 11:04	46186,984	46107,713	79,271
26/03/2019 11:06	46266,125	46147,873	118,252
26/03/2019 11:08	46256,968	46177,688	79,28
26/03/2019 11:10	46125,634	46053,497	72,137
26/03/2019 11:12	45947,84	45875,53	72,31
26/03/2019 11:14	45973,719	45896,433	77,286
26/03/2019 11:16	46023,806	45924,75	99,056
26/03/2019 11:18	45867,311	45741,198	126,113
26/03/2019 11:20	45905,727	45833,931	71,796
26/03/2019 11:22	45915,553	45816,557	98,996
26/03/2019 11:24	45940,87	45866,847	74,023
26/03/2019 11:26	45868,239	45826,237	42,002
26/03/2019 11:28	45807,518	45736,49	71,028
26/03/2019 11:30	45905,794	45798,971	106,823
26/03/2019 11:32	45846,113	45782,364	63,749
26/03/2019 11:34	45767,917	45693,133	74,784
26/03/2019 11:36	45682,191	45611,636	70,555
26/03/2019 11:38	45657,334	45578,452	78,882
26/03/2019 11:40	45615,679	45535,57	80,109
26/03/2019 11:42	45511,417	45436,105	75,312
26/03/2019 11:44	45492,683	45443,77	48,913
26/03/2019 11:46	45611,497	45507,571	103,926
26/03/2019 11:48	45540,181	45503,87	36,311
26/03/2019 11:50	45628,134	45528,687	99,447
26/03/2019 11:52	45679,372	45581,015	98,357
26/03/2019 11:54	45704,698	45622,105	82,593
26/03/2019 11:56	45741,62	45656,726	84,894
26/03/2019 11:58	45739,393	45638,19	101,203
26/03/2019 12:00	45780,261	45673,216	107,045
26/03/2019 12:02	45776,748	45686,514	90,234
26/03/2019 12:04	45792,35	45714,161	78,189
26/03/2019 12:06	45840,45	45752,318	88,132
26/03/2019 12:08	45803,957	45711,512	92,445
26/03/2019 12:10	45793,797	45709,269	84,528
26/03/2019 12:12	45864,207	45785,267	78,94
26/03/2019 12:14	45841,08	45713,683	127,397
26/03/2019 12:16	45806,424	45666,209	140,215
26/03/2019 12:18	45874,382	45743,456	130,926
26/03/2019 12:20	45884,415	45770,849	113,566
26/03/2019 12:22	45817,246	45752,829	64,417
26/03/2019 12:24	45936,962	45808,505	128,457
26/03/2019 12:26	45897,743	45812,966	84,777
26/03/2019 12:28	45739,586	45650,04	89,546
26/03/2019 12:30	45636,01	45555,983	80,027
26/03/2019 12:32	45661,851	45582,202	79,649
26/03/2019 12:34	45672,367	45565,562	106,805
26/03/2019 12:36	45619,219	45544,391	74,828
26/03/2019 12:38	45591,271	45508,669	82,602
26/03/2019 12:40	45694,698	45605,978	88,72
26/03/2019 12:42	45610,684	45532,054	78,63
26/03/2019 12:44	45581,54	45486,345	95,195
26/03/2019 12:46	45683,728	45597,56	86,168
26/03/2019 12:48	45783,121	45710,117	73,004
26/03/2019 12:50	45687,553	45622,633	64,92
26/03/2019 12:52	45794,341	45701,889	92,452
26/03/2019 12:54	45739,658	45661,163	78,495
26/03/2019 12:56	45848,586	45770,629	77,957
26/03/2019 12:58	45927,506	45824,151	103,355
26/03/2019 13:00	45796,829	45685,369	111,46

26/03/2019 13:02	45758,984	45713,177	45,807
26/03/2019 13:04	45818,193	45732,565	85,628
26/03/2019 13:06	45813,66	45745,434	68,226
26/03/2019 13:08	45789,345	45699,528	89,817
26/03/2019 13:10	45758,681	45650,151	108,53
26/03/2019 13:12	45670,359	45597,985	72,374
26/03/2019 13:14	45713,398	45627,254	86,144
26/03/2019 13:16	45605,435	45500,268	105,167
26/03/2019 13:18	45737,542	45608,367	129,175
26/03/2019 13:20	45630,649	45555,331	75,318
26/03/2019 13:22	45667,334	45592,977	74,357
26/03/2019 13:24	45653,14	45577,609	75,531
26/03/2019 13:26	45698,887	45600,411	98,476
26/03/2019 13:28	45570,402	45498,119	72,283
26/03/2019 13:30	45596,408	45522,142	74,266
26/03/2019 13:32	45564,569	45481,296	83,273
26/03/2019 13:34	45449,64	45360,14	89,5
26/03/2019 13:36	45448,407	45349,054	99,353
26/03/2019 13:38	45492,841	45395,06	97,781
26/03/2019 13:40	45503,113	45381,999	121,114
26/03/2019 13:42	45529,057	45445,378	83,679
26/03/2019 13:44	45592,093	45491,1	100,993
26/03/2019 13:46	45531,107	45424,566	106,541
26/03/2019 13:48	45573,517	45520,649	52,868
26/03/2019 13:50	45546,707	45437,796	108,911
26/03/2019 13:52	45529,801	45408,832	120,969
26/03/2019 13:54	45591,009	45520,719	70,29
26/03/2019 13:56	45682,096	45598,693	83,403
26/03/2019 13:58	45839,808	45769,252	70,556
26/03/2019 14:00	45855,97	45787,418	68,552
26/03/2019 14:02	45897,022	45800,043	96,979
26/03/2019 14:04	45875,733	45754,096	121,637
26/03/2019 14:06	45846,75	45746,028	100,722
26/03/2019 14:08	45833,807	45756,956	76,851
26/03/2019 14:10	45855,698	45756,34	99,358
26/03/2019 14:12	45885,283	45789,893	95,39
26/03/2019 14:14	45950,377	45840,106	110,271
26/03/2019 14:16	45921,679	45810,609	111,07
26/03/2019 14:18	45981,53	45850,162	131,368
26/03/2019 14:20	45912,868	45818,772	94,096
26/03/2019 14:22	45917,072	45801,327	115,745
26/03/2019 14:24	45878,954	45793,707	85,247
26/03/2019 14:26	45874,576	45770,689	103,887
26/03/2019 14:28	45808,053	45729,267	78,786
26/03/2019 14:30	45848,485	45755,262	93,223
26/03/2019 14:32	45893,9	45779,027	114,873
26/03/2019 14:34	45896,631	45821,301	75,33
26/03/2019 14:36	45828,098	45774,248	53,85
26/03/2019 14:38	45812,215	45693,508	118,707
26/03/2019 14:40	45841,866	45716,195	125,671
26/03/2019 14:42	45852,279	45784,282	67,997
26/03/2019 14:44	45874,119	45796,041	78,078
26/03/2019 14:46	46001,477	45909,897	91,58
26/03/2019 14:48	46056,434	45949,2	107,234
26/03/2019 14:50	45962,323	45811,408	150,915
26/03/2019 14:52	45976,838	45878,707	98,131
26/03/2019 14:54	46051,2	45954,258	96,942
26/03/2019 14:56	46073,115	45951,343	121,772
26/03/2019 14:58	46068,327	45961,865	106,462
26/03/2019 15:00	46054,489	45895,385	159,104
26/03/2019 15:02	46026,823	45926,4	100,423



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26/03/2019 15:04	46025,355	45918,506	106,849
26/03/2019 15:06	45983,995	45873,515	110,48
26/03/2019 15:08	45893,932	45770,838	123,094
26/03/2019 15:10	46006,947	45892,92	114,027
26/03/2019 15:12	45975,767	45910,21	65,557
26/03/2019 15:14	46011,622	45927,088	84,534
26/03/2019 15:16	46059,56	45939,205	120,355
26/03/2019 15:18	46002,436	45882,905	119,531
26/03/2019 15:20	46121,865	46029,763	92,102
26/03/2019 15:22	46106,822	46047,039	59,783
26/03/2019 15:24	46176,506	46009,594	166,912
26/03/2019 15:26	46245,55	46118,239	127,311
26/03/2019 15:28	46161,221	46068,205	93,016
26/03/2019 15:30	46358,807	46261,489	97,318
26/03/2019 15:32	46338,436	46284,01	54,426
26/03/2019 15:34	46389,305	46280,626	108,679
26/03/2019 15:36	46429,487	46297,175	132,312
26/03/2019 15:38	46355,605	46253,627	101,978
26/03/2019 15:40	46322,325	46247,652	74,673
26/03/2019 15:42	46403,281	46294,307	108,974
26/03/2019 15:44	46376,235	46267,581	108,654
26/03/2019 15:46	46266,268	46144,214	122,054
26/03/2019 15:48	46196,597	46098,29	98,307
26/03/2019 15:50	46258,132	46123,921	134,211
26/03/2019 15:52	46223,646	46120,396	103,25
26/03/2019 15:54	46221,519	46093,012	128,507
26/03/2019 15:56	46160,377	46053,526	106,851
26/03/2019 15:58	46225,965	46131,198	94,767
26/03/2019 16:00	46219,572	46076,742	142,83
26/03/2019 16:02	46441,242	46321,368	119,874
26/03/2019 16:04	46430,444	46295,147	135,297
26/03/2019 16:06	46436,041	46328,418	107,623
26/03/2019 16:08	46474,731	46367,642	107,089
26/03/2019 16:10	46431,312	46335,387	95,925
26/03/2019 16:12	46595,678	46488,59	107,088
26/03/2019 16:14	46528,799	46431,761	97,038
26/03/2019 16:16	46502,94	46428,777	74,163
26/03/2019 16:18	44900,486	44802,483	98,003
26/03/2019 16:20	44790,603	44627,999	162,604
26/03/2019 16:22	45036,371	44950,811	85,56
26/03/2019 16:24	45522,055	45396,805	125,25
26/03/2019 16:26	46155,925	46060,493	95,432
26/03/2019 16:28	46729,374	46632,527	96,847
26/03/2019 16:30	46721,929	46574,021	147,908
26/03/2019 16:32	46507,565	46409,248	98,317
26/03/2019 16:34	46455,349	46367,901	87,448
26/03/2019 16:36	46383,873	46273,124	110,749
26/03/2019 16:38	46206,64	46083,02	123,62
26/03/2019 16:40	46111,339	45951,433	159,906
26/03/2019 16:42	46003,298	45927,535	75,763
26/03/2019 16:44	46035,032	45932,077	102,955
26/03/2019 16:46	45964,593	45839,121	125,472
26/03/2019 16:48	45863,113	45770,182	92,931
26/03/2019 16:50	45881,458	45769,35	112,108
26/03/2019 16:52	45933,147	45783,753	149,394
26/03/2019 16:54	46059,793	45924,124	135,669
26/03/2019 16:56	46167,239	46041,023	126,216
26/03/2019 16:58	46272,296	46177,761	94,535
26/03/2019 17:00	46286,829	46172,324	114,505
26/03/2019 17:02	46332,949	46171,435	161,514
26/03/2019 17:04	46400,804	46280,41	120,394



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26/03/2019 17:06	46296,745	46195,546	101,199
26/03/2019 17:08	46176,974	46076,046	100,928
26/03/2019 17:10	46104,212	45974,693	129,519
26/03/2019 17:12	46074,869	45947,555	127,314
26/03/2019 17:14	46130,608	46021,886	108,722
26/03/2019 17:16	46087,046	45980,571	106,475
26/03/2019 17:18	46169,791	46052,395	117,396
26/03/2019 17:20	46071,014	45951,985	119,029
26/03/2019 17:22	45991,529	45867,661	123,868
26/03/2019 17:24	45927,666	45819,045	108,621
26/03/2019 17:26	45932,549	45803,63	128,919
26/03/2019 17:28	45869,54	45758,223	111,317
26/03/2019 17:30	45740,65	45651,98	88,67
26/03/2019 17:32	45791,149	45652,295	138,854
26/03/2019 17:34	45676,605	45560,687	115,918
26/03/2019 17:36	45351,67	45266,489	85,181
26/03/2019 17:38	45252,593	45138,767	113,826
26/03/2019 17:40	45169,034	45075,804	93,23
26/03/2019 17:42	44965,239	44852,337	112,902
26/03/2019 17:44	44878,683	44745,884	132,799
26/03/2019 17:46	44607,797	44483,988	123,809
26/03/2019 17:48	44480,261	44363,235	117,026
26/03/2019 17:50	44221,229	44124,949	96,28
26/03/2019 17:52	43999,422	43916,511	82,911
26/03/2019 17:54	43724,958	43605,201	119,757
26/03/2019 17:56	43481,436	43376,901	104,535
26/03/2019 17:58	43213,421	43119,846	93,575
26/03/2019 18:00	43115,42	43043,227	72,193
26/03/2019 18:02	42982,52	42923,363	59,157
26/03/2019 18:04	42784,414	42715,312	69,102
26/03/2019 18:06	42581,956	42495,967	85,989
26/03/2019 18:08	42358,204	42313,731	44,473
26/03/2019 18:10	42155,489	42085,684	69,805
26/03/2019 18:12	41886,755	41822,895	63,86
26/03/2019 18:14	41562,428	41503,627	58,801
26/03/2019 18:16	41230,674	41152,333	78,341
26/03/2019 18:18	40935,818	40871,724	64,094
26/03/2019 18:20	40540,219	40477,89	62,329
26/03/2019 18:22	40262,171	40132,862	129,309
26/03/2019 18:24	39842,224	39766,638	75,586
26/03/2019 18:26	39513,86	39449,302	64,558
26/03/2019 18:28	39014,669	38962,949	51,72
26/03/2019 18:30	38475,161	38452,232	22,929
26/03/2019 18:32	37915,643	37918,587	2,944
26/03/2019 18:34	37399,344	37363,586	35,758
26/03/2019 18:36	36862,722	36819,724	42,998
26/03/2019 18:38	36101,051	36073,839	27,212
26/03/2019 18:40	34513,516	34591,241	77,725
26/03/2019 18:42	32902,198	32882,531	19,667
26/03/2019 18:44	31255,388	31245,596	9,792
26/03/2019 18:46	29489,021	29480,146	8,875
26/03/2019 18:48	27877,953	27851,487	26,466
26/03/2019 18:50	26252,025	26296,966	44,941
26/03/2019 18:52	24603,885	24582,425	21,46
26/03/2019 18:54	22935,643	23002,188	66,545
26/03/2019 18:56	21416,695	21485,309	68,614
26/03/2019 18:58	19887,639	19936,818	49,179
26/03/2019 19:00	18451,375	18489,291	37,916
26/03/2019 19:02	16748,375	16457,049	291,326
26/03/2019 19:04	15044,587	15044,739	0,152
26/03/2019 19:06	14018,262	14058,707	40,445

26/03/2019 19:08	12925,123	12920,225	4,898
26/03/2019 19:10	11631,478	11614,078	17,4
26/03/2019 19:12	10392,178	10411,345	19,167
26/03/2019 19:14	9263,04	9264,546	1,506
26/03/2019 19:16	8156,673	8128,922	27,751
26/03/2019 19:18	7094,633	7089,685	4,948
26/03/2019 19:20	6133,747	6130,822	2,925
26/03/2019 19:22	5304,051	5286,547	17,504
26/03/2019 19:24	4455,855	4453,712	2,143
26/03/2019 19:26	3683,295	3625,917	57,378
26/03/2019 19:28	2950,634	2909,644	40,99
26/03/2019 19:30	2231,891	2169,437	62,454
26/03/2019 19:32	1430,656	1359,68	70,976
26/03/2019 19:34	625,57	548,352	77,218
26/03/2019 19:36	293,571	216,885	76,686
26/03/2019 19:38	219,817	135,78	84,037
26/03/2019 19:40	174,481	99,841	74,64
26/03/2019 19:42	24,591	9,232	15,359
26/03/2019 19:44	1,176	0	1,176
26/03/2019 19:46	0,573	0	0,573
26/03/2019 19:48	0	0	0
26/03/2019 19:50	0	0	0
26/03/2019 19:52	0	0	0
26/03/2019 19:54	0	0	0
26/03/2019 19:56	0	0	0
26/03/2019 19:58	0	0	0
PROMEDIO			77,77

Tabla 11: Pérdidas en sistema colector del parque Fotovoltaico Uribe Solar (kW).