



LAMPIRAN



UNIVERSITAS PGRI ADI BUANA SURABAYA
FAKULTAS TEKNIK

Program Studi Teknik Industri

KAMPUS II: Jl. Dukuh Menanggal XII/4 ☎ (031) 8281181 Surabaya 60234

DAFTAR BIMBINGAN TUGAS AKHIR

Nama Mahasiswa : Rezza Agung Fahlevi

NIM : 203709002

Dosen Pembimbing : Prihono, S.T., M.T., CSCA.

Judul Tugas Akhir : PENINGKATAN PRODUKTIVITAS PABRIK KERTAS DENGAN

MEMPERTIMBANGKAN POWER FAKTOR DAN MENGGUNAKAN KAPASITOR BANK
DI PT DAYASA ARIA PRIMA



NO	TANGGAL	MATERI BIMBINGAN	KETERANGAN	PARAF DOSEN
1	28-03-2023	Metode penelitian & Interpretasi hasil	Revisi	
2	09-04-2023	Bab III (Variable penelitian)	Acc	
3	11-04-2023	Studi Aliran Daya. (Bab IV)	Revisi	
4	17-04-2023	Perhitungan Perbaikan Produktivitas	Revisi	
5	03-05-2023	Bab IV - Perbaikan power faktor	Revisi	
6	10-05-2023	Bab IV - Biaya kualitas pada produktivitas	Revisi	
7	17-05-2023	Bab IV - Peningkatan produktivitas melalui power faktor	Revisi	
8	24-05-2023	Bab V - Kesimpulan & Saran	Acc	
9	31-05-2023	Bab I, II, III, IV & V	Acc	
Dinyatakan selesai tanggal : 31 Mei 2023				

Catatan : Daftar Bimbingan ini dilampirkan dalam Tugas Akhir

Mengetahui,
Ketua Program Studi,

Dosen Pembimbing,

Mahasiswa,

M. Nushron Ali Mukhtar, ST. MT.

NIDN. 0722108505

Prihono, S.T., M.T., CSCA.

NIDN. 0712027803

Rezza Agung Fahlevi

NIM. 203709002



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PERSETUJUAN REVISI TUGAS AKHIR PENGUJI I

Nama Mahasiswa : Rezza Agung Fahlevi

NIM : 203709002

Dosen Pembimbing : Prihono, S.T., M.T., CSCA.

Judul Tugas Akhir : **RANCANGAN SIMULASI SISTEM UNTUK PENINGKATAN PRODUKTIVITAS PABRIK KERTAS DENGAN MEMPERTIMBANGKAN POWER FAKTOR DAN MENGGUNAKAN KAPASITOR BANK DI PT DAYASA ARIA PRIMA**

NO	TANGGAL	MATERI REVISI	KETERANGAN	PARAF DOSEN
1	21/06/2023	Tujuan Penelitian	Acc	
2	21/06/2023	Pengumpulan data meliputi apa saja	Acc	
3	21/06/2023	Kesimpulan apa sudah sesuai dengan hasil simulasi dan analisis sistem kelistrikan pabrik kertas PT. Dayasa Aria Prima	Acc	
Revisi disetujui Dosen Penguji I tanggal : <u>27 Juni 2023</u>				

Catatan : Lembar revisi ini dilampirkan dalam Tugas Akhir

Surabaya, 27 Juni 2023
Penguji I

Manik Ayu Titisari, S.T., M.T
NIDN : 0002017701

Catatan :

1. Penyelesaian Revisi paling lambat 2 minggu dari pelaksanaan Ujian Tugas Akhir
2. Pengumpulan Buku Tugas Akhir paling lambat 2 minggu dari disetujuinya revisi.
3. Apabila sampai batas waktu belum menyelesaikan maka harus mengulang siding TA



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PERSETUJUAN REVISI TUGAS AKHIR PENGUJI II

Nama Mahasiswa : Rezza Agung Fahlevi

NIM : 203709002

Dosen Pembimbing : Prihono, S.T.,M.T.,CSCA.

Judul Tugas Akhir : **RANCANGAN SIMULASI SISTEM UNTUK PENINGKATAN PRODUKTIVITAS PABRIK KERTAS DENGAN MEMPERTIMBANGKAN POWER FAKTOR DAN MENGGUNAKAN KAPASITOR BANK DI PT DAYASA ARIA PRIMA**

NO	TANGGAL	MATERI REVISI	KETERANGAN	PARAF DOSEN
1	21/06/2023	Perubahan judul "Rancangan Simulasi Sistem Untuk Peningkatan Produktivitas Pabrik Kertas Dengan Mempertimbangkan Power Faktor Dan Menggunakan Kapasitor Bank Di PT. Dayasa Aria Prima	ae	
2	21/06/2023	Perumusan masalah, Tujuan penelitian dan Kesimpulan tidak sinkron	ae	
3	21/06/2023	Ijin penelitian pada perusahaan	ae	
Revisi disetujui Dosen Penguji II tanggal : <u>27 Juni 2023</u>				

Catatan : Lembar revisi ini dilampirkan dalam Tugas Akhir

Surabaya, 27 Juni 2023
Penguji II

M. Nushron Ali Mukhtar, S.T.,M.T.
NIDN. 0722108505

Catatan :

1. Penyelesaian Revisi paling lambat 2 minggu dari pelaksanaan Ujian Tugas Akhir
2. Pengumpulan Buku Tugas Akhir paling lambat 2 minggu dari disetujuinya revisi.
3. Apabila sampai batas waktu belum menyelesaikan maka harus mengulang siding TA

Data Pengukuran PLN pada PT. DAYASA ARIA PRIMA

Tabel Data hasil pengukuran PT.PLN

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
01/12/2022 10:30	4764.20	4201.40	0	0	39.86	39.91	39.98	106.98	105.00	104.35	0.75	49.97	9.40	8.41
01/12/2022 11:00	4408.41	3931.56	0	0	39.93	40.00	40.06	93.11	91.08	90.23	0.73	49.98	8.06	7.44
01/12/2022 11:30	3768.33	3558.90	0	0	40.10	40.18	40.25	82.16	80.40	79.51	0.72	50.07	6.98	6.75
01/12/2022 12:00	3582.02	3617.29	0	0	40.67	40.76	40.82	88.50	86.72	85.55	0.70	50.05	7.39	7.61
01/12/2022 12:30	3699.15	3798.61	0	0	40.60	40.67	40.75	84.19	82.36	80.99	0.69	49.95	6.97	7.23
01/12/2022 13:00	3737.11	3682.42	0	0	40.20	40.27	40.34	90.54	88.68	87.72	0.72	50.02	7.73	7.44
01/12/2022 13:30	3902.88	3641.22	0	0	39.73	39.78	39.86	89.88	88.04	87.24	0.73	50.02	7.70	7.19
01/12/2022 14:00	3870.18	3619.12	0	0	39.74	39.80	39.87	90.63	88.79	88.14	0.73	49.90	7.76	7.27
01/12/2022 14:30	3884.90	3636.69	0	0	39.75	39.81	39.88	93.13	91.20	90.67	0.73	49.99	7.98	7.48
01/12/2022 15:00	4121.94	3746.99	0	0	39.95	40.01	40.09	91.89	89.99	89.28	0.73	49.98	7.94	7.38
01/12/2022 15:30	4389.67	3882.99	0	0	39.95	40.01	40.08	103.55	101.65	101.24	0.75	50.00	9.24	8.05
01/12/2022 16:00	4623.99	4008.38	0	0	40.13	40.19	40.27	103.57	101.60	101.22	0.75	50.03	9.29	8.07
01/12/2022 16:30	4648.45	4104.91	0	0	40.48	40.55	40.63	105.85	103.73	103.10	0.75	49.98	9.45	8.44
01/12/2022 17:00	4725.59	4229.21	0	0	40.51	40.58	40.66	106.97	105.00	104.46	0.74	50.04	9.52	8.60

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
01/12/2022 17:30	4705.36	4301.60	0	0	40.60	40.67	40.75	106.46	104.54	104.07	0.73	49.99	9.41	8.68
01/12/2022 18:00	4681.89	4327.46	0	0	40.58	40.66	40.73	102.77	100.81	100.06	0.73	50.00	9.01	8.42
01/12/2022 18:30	4556.80	4258.60	0	0	40.38	40.46	40.51	104.01	102.18	101.48	0.74	50.01	9.26	8.30
01/12/2022 19:00	4260.07	3940.93	0	0	40.47	40.55	40.62	90.04	88.29	87.48	0.72	49.99	7.72	7.50
01/12/2022 19:30	3803.07	3714.08	0	0	40.44	40.52	40.58	89.97	88.25	87.27	0.72	49.95	7.70	7.49
01/12/2022 20:00	3847.90	3756.64	0	0	40.53	40.62	40.68	91.21	89.50	88.48	0.71	50.01	7.77	7.67
01/12/2022 20:30	4002.18	3793.18	0	0	40.22	40.31	40.36	96.80	95.01	94.18	0.73	50.00	8.44	7.83
01/12/2022 21:00	4047.87	3871.65	0	0	40.29	40.38	40.43	93.02	91.35	90.29	0.72	50.00	7.98	7.68
01/12/2022 21:30	4111.11	3956.74	0	0	40.36	40.47	40.52	95.95	94.54	93.38	0.72	50.01	8.21	8.01
01/12/2022 22:00	4452.59	4157.25	0	0	40.19	40.29	40.34	105.20	103.66	102.81	0.74	50.03	9.31	8.41
01/12/2022 22:30	4787.02	4282.75	0	0	39.91	40.01	40.05	112.36	110.75	110.00	0.76	50.08	10.06	8.72
01/12/2022 23:00	4871.27	4266.18	0	0	40.00	40.10	40.16	107.77	106.27	105.46	0.75	50.05	9.60	8.46
01/12/2022 23:30	4935.29	4309.77	0	0	40.01	40.10	40.16	109.63	108.15	107.25	0.75	50.01	9.81	8.56
02/12/2022 00:00	4819.20	4181.11	0	0	39.62	39.72	39.78	110.15	108.82	107.91	0.76	49.94	9.87	8.42
02/12/2022 00:30	4721.04	4067.93	0	0	39.69	39.80	39.84	104.55	103.28	102.35	0.76	49.91	9.36	8.02
02/12/2022 01:00	4501.31	3893.78	0	0	39.73	39.84	39.87	95.80	94.51	93.36	0.75	49.90	8.46	7.47
02/12/2022 01:30	4065.53	3662.79	0	0	39.84	39.96	40.00	85.95	84.85	83.67	0.73	50.00	7.42	6.93
02/12/2022 02:00	3690.66	3460.28	0	0	40.00	40.13	40.16	84.10	82.97	81.79	0.73	50.05	7.30	6.79

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
02/12/2022 02:30	2957.38	2790.96	0	0	40.14	40.26	40.31	60.80	59.80	58.32	0.73	49.99	5.25	4.91
02/12/2022 03:00	2832.62	2626.34	0	0	40.16	40.28	40.32	71.27	70.21	68.72	0.74	50.16	6.27	5.66
02/12/2022 03:30	2993.54	2829.63	0	0	40.25	40.37	40.42	75.90	74.72	73.43	0.73	50.07	6.56	6.21
02/12/2022 04:00	3302.30	3144.14	0	0	40.13	40.25	40.29	75.23	74.10	72.72	0.72	50.00	6.44	6.18
02/12/2022 04:30	3438.62	3279.95	0	0	40.01	40.12	40.16	81.11	79.93	78.66	0.73	49.95	6.97	6.60
02/12/2022 05:00	3613.93	3428.43	0	0	40.04	40.16	40.20	84.76	83.56	82.32	0.72	49.98	7.25	6.96
02/12/2022 05:30	3869.01	3599.56	0	0	39.97	40.08	40.13	94.62	93.27	92.26	0.73	49.96	8.16	7.69
02/12/2022 06:00	4119.43	3811.15	0	0	39.98	40.09	40.14	95.28	94.06	93.03	0.74	50.09	8.33	7.64
02/12/2022 06:30	4435.11	3952.78	0	0	39.86	39.96	40.02	101.45	100.05	99.18	0.75	50.08	9.00	7.94
02/12/2022 07:00	4463.52	3935.29	0	0	39.83	39.93	39.99	103.28	101.77	100.96	0.75	50.06	9.13	8.10
02/12/2022 07:30	4710.13	4191.45	0	0	39.83	39.93	39.98	107.98	106.39	105.61	0.75	49.98	9.61	8.40
02/12/2022 08:00	4723.49	4099.24	0	0	39.79	39.88	39.93	105.32	103.63	102.97	0.76	50.05	9.43	8.09
02/12/2022 08:30	4729.38	4042.26	0	0	39.73	39.79	39.86	105.46	103.62	103.14	0.75	50.06	9.36	8.16
02/12/2022 09:00	4261.36	3821.24	0	0	39.60	39.65	39.73	93.11	91.29	90.91	0.74	49.99	8.03	7.39
02/12/2022 09:30	3991.47	3650.98	0	0	39.55	39.60	39.68	96.05	94.18	93.63	0.74	50.02	8.26	7.61
02/12/2022 10:00	4174.89	3836.54	0	0	39.55	39.59	39.67	98.26	96.30	95.83	0.74	49.99	8.50	7.73
02/12/2022 10:30	4280.85	3923.88	0	0	39.58	39.62	39.70	104.84	102.68	102.41	0.74	49.98	9.14	8.20
02/12/2022 11:00	4806.73	4284.92	0	0	39.54	39.59	39.66	119.08	116.78	116.53	0.76	49.99	10.57	9.09

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
02/12/2022 11:30	5144.45	4448.95	0	0	39.64	39.69	39.77	114.20	111.89	111.67	0.75	49.93	10.07	8.85
02/12/2022 12:00	5100.19	4497.82	0	0	40.15	40.21	40.30	116.36	114.14	113.71	0.75	50.04	10.39	9.14
02/12/2022 12:30	5033.57	4557.73	0	0	40.30	40.36	40.45	111.61	109.33	108.77	0.74	50.02	9.85	8.93
02/12/2022 13:00	4965.85	4427.07	0	0	39.94	39.99	40.07	111.57	109.17	108.84	0.75	49.98	9.92	8.66
02/12/2022 13:30	4973.87	4263.55	0	0	39.34	39.36	39.45	113.88	111.32	111.42	0.77	49.99	10.14	8.53
02/12/2022 14:00	4717.40	4064.23	0	0	39.47	39.51	39.60	95.77	93.30	93.26	0.76	49.96	8.47	7.26
02/12/2022 14:30	4281.42	3750.92	0	0	39.54	39.57	39.66	97.08	94.85	94.58	0.74	49.99	8.34	7.68
02/12/2022 15:00	3950.58	3807.88	0	0	39.80	39.84	39.93	92.81	90.79	90.53	0.71	49.93	7.80	7.64
02/12/2022 15:30	3912.20	3716.79	0	0	39.85	39.90	39.98	89.80	87.85	87.47	0.73	49.96	7.69	7.25
02/12/2022 16:00	3900.09	3613.52	0	0	40.08	40.13	40.21	88.83	86.80	86.31	0.73	50.00	7.68	7.16
02/12/2022 16:30	3930.22	3671.46	0	0	40.25	40.31	40.39	91.71	89.70	89.12	0.72	49.99	7.84	7.57
02/12/2022 17:00	3918.82	3640.96	0	0	39.99	40.05	40.12	89.98	88.01	87.44	0.73	50.00	7.71	7.31
02/12/2022 17:30	4145.48	3910.35	0	0	40.02	40.09	40.15	99.55	97.54	97.01	0.73	49.98	8.65	8.00
02/12/2022 18:00	4411.06	4062.47	0	0	40.48	40.54	40.63	97.27	95.29	94.73	0.74	50.05	8.58	7.86
02/12/2022 18:30	4141.74	3921.24	0	0	40.47	40.54	40.61	93.38	91.46	90.69	0.72	50.00	8.05	7.72
02/12/2022 19:00	3946.89	3835.05	0	0	40.48	40.56	40.63	91.02	89.21	88.32	0.71	49.97	7.69	7.70
02/12/2022 19:30	4038.84	3979.72	0	0	40.39	40.47	40.53	126.67	125.23	124.16	0.63	49.96	9.58	11.81
02/12/2022 20:00	4497.26	4159.53	0	0	40.17	40.24	40.31	109.45	107.27	106.66	0.74	49.97	9.68	8.68

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
02/12/2022 20:30	4824.01	4310.18	0	0	40.17	40.25	40.31	109.69	107.59	107.01	0.74	50.01	9.60	8.83
02/12/2022 21:00	4750.39	4289.16	0	0	40.32	40.41	40.47	105.80	103.76	102.96	0.74	49.99	9.34	8.48
02/12/2022 21:30	4706.88	4302.03	0	0	40.28	40.38	40.43	108.22	106.37	105.41	0.74	50.03	9.56	8.67
02/12/2022 22:00	4769.05	4252.02	0	0	39.81	39.91	39.95	107.94	106.19	105.40	0.76	49.94	9.62	8.35
02/12/2022 22:30	4602.65	4071.21	0	0	39.86	39.95	40.00	98.68	96.97	96.02	0.74	49.94	8.61	7.83
02/12/2022 23:00	4242.59	3847.35	0	0	39.97	40.06	40.11	92.13	90.49	89.60	0.73	50.09	7.98	7.42
02/12/2022 23:30	3940.48	3723.31	0	0	40.05	40.15	40.20	90.22	88.57	87.62	0.72	49.96	7.69	7.41
03/12/2022 00:00	3809.83	3611.17	0	0	40.04	40.14	40.18	84.80	83.36	82.21	0.72	50.00	7.25	6.94
03/12/2022 00:30	3751.18	3559.91	0	0	39.97	40.07	40.12	91.74	90.19	89.25	0.73	49.96	7.95	7.38
03/12/2022 01:00	3750.87	3546.40	0	0	39.73	39.84	39.88	83.97	82.63	81.58	0.72	49.94	7.15	6.80
03/12/2022 01:30	3847.01	3525.52	0	0	39.60	39.70	39.75	93.28	91.78	91.03	0.75	50.01	8.17	7.29
03/12/2022 02:00	4021.75	3594.35	0	0	39.59	39.69	39.73	106.51	105.17	104.39	0.73	50.03	9.17	8.54
03/12/2022 02:30	4460.15	3844.10	0	0	39.63	39.73	39.78	100.75	99.27	98.44	0.76	50.07	9.01	7.68
03/12/2022 03:00	4505.34	3904.51	0	0	39.82	39.94	39.99	98.08	96.69	95.70	0.76	50.00	8.75	7.60
03/12/2022 03:30	4447.69	3875.07	0	0	39.78	39.89	39.94	98.10	96.66	95.71	0.75	49.97	8.69	7.64
03/12/2022 04:00	4413.78	3850.18	0	0	39.88	39.99	40.04	97.77	96.37	95.22	0.75	50.04	8.67	7.64
03/12/2022 04:30	4498.10	3925.22	0	0	39.76	39.88	39.92	103.78	102.31	101.23	0.76	50.04	9.33	7.92
03/12/2022 05:00	4669.30	4020.14	0	0	39.61	39.72	39.75	104.55	102.99	102.02	0.76	50.02	9.33	7.99

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
03/12/2022 05:30	4325.32	3784.40	0	0	39.67	39.77	39.81	90.19	88.66	87.61	0.74	49.99	7.85	7.10
03/12/2022 06:00	3899.82	3627.70	0	0	40.03	40.13	40.18	93.30	91.64	90.57	0.74	50.07	8.14	7.46
03/12/2022 06:30	3906.06	3687.05	0	0	40.35	40.45	40.51	90.78	89.06	87.86	0.72	50.01	7.74	7.55
03/12/2022 07:00	3835.15	3731.62	0	0	40.17	40.27	40.32	92.30	90.56	89.54	0.72	50.03	7.92	7.57
03/12/2022 07:30	3992.57	3724.44	0	0	39.84	39.93	39.97	92.16	90.49	89.56	0.74	49.99	7.99	7.34
03/12/2022 08:00	4021.61	3678.67	0	0	40.02	40.10	40.16	94.86	92.99	92.16	0.74	50.07	8.34	7.50
03/12/2022 08:30	3780.28	3419.61	0	0	39.50	39.57	39.62	79.65	77.72	77.10	0.75	49.99	6.93	6.16
03/12/2022 09:00	3293.95	2965.97	0	0	39.42	39.48	39.53	71.15	69.35	68.68	0.73	49.95	6.05	5.61
03/12/2022 09:30	2999.98	2751.58	0	0	39.38	39.43	39.49	69.98	67.94	67.20	0.75	50.12	6.06	5.34
03/12/2022 10:00	2904.36	2645.92	0	0	39.23	39.29	39.34	74.67	72.60	72.10	0.76	49.99	6.54	5.60
03/12/2022 10:30	3196.09	2725.54	0	0	39.20	39.25	39.30	70.20	68.04	67.37	0.77	49.95	6.18	5.18
03/12/2022 11:00	3235.29	2726.44	0	0	39.13	39.18	39.23	78.83	76.75	76.07	0.77	50.00	6.94	5.84
03/12/2022 11:30	3288.90	2868.74	0	0	39.39	39.45	39.50	71.29	69.32	68.61	0.75	50.07	6.15	5.49
03/12/2022 12:00	3022.33	2791.70	0	0	40.04	40.12	40.17	68.41	66.48	65.27	0.71	50.08	5.71	5.62
03/12/2022 12:30	3229.39	3083.41	0	0	40.05	40.12	40.18	78.38	76.33	75.30	0.73	49.97	6.70	6.33
03/12/2022 13:00	3565.49	3443.14	0	0	39.73	39.79	39.85	90.45	88.46	87.73	0.72	49.98	7.66	7.33
03/12/2022 13:30	3727.49	3484.29	0	0	39.02	39.08	39.14	87.60	85.76	85.06	0.74	49.93	7.50	6.75
03/12/2022 14:00	4242.81	3725.22	0	0	39.17	39.23	39.29	104.94	102.64	102.24	0.75	49.93	9.06	8.09

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
03/12/2022 14:30	4990.94	4248.72	0	0	39.06	39.12	39.17	114.12	111.83	111.58	0.76	49.95	10.05	8.55
03/12/2022 15:00	5129.74	4311.81	0	0	39.09	39.15	39.21	114.87	112.36	112.07	0.76	50.06	10.15	8.56
03/12/2022 15:30	4953.41	4188.86	0	0	39.05	39.10	39.17	108.22	105.63	105.52	0.76	49.94	9.50	8.09
03/12/2022 16:00	4844.15	4129.71	0	0	39.53	39.60	39.66	112.36	109.76	109.39	0.76	50.04	9.92	8.58
03/12/2022 16:30	4395.77	3876.48	0	0	39.69	39.76	39.82	92.22	89.86	89.10	0.74	49.97	8.02	7.20
03/12/2022 17:00	4076.53	3609.48	0	0	39.93	40.02	40.07	88.44	86.11	85.13	0.75	50.01	7.74	6.92
03/12/2022 17:30	3845.09	3319.15	0	0	40.32	40.41	40.48	84.49	82.37	81.82	0.76	50.03	7.58	6.58
03/12/2022 18:00	3773.97	3333.64	0	0	40.67	40.76	40.83	84.47	82.29	81.53	0.75	50.02	7.59	6.68
03/12/2022 18:30	3589.73	3434.72	0	0	41.14	41.23	41.30	75.58	73.37	72.13	0.70	49.95	6.36	6.49
03/12/2022 19:00	3155.87	3264.27	0	0	41.00	41.09	41.17	68.18	66.34	65.37	0.71	49.98	5.82	5.77
03/12/2022 19:30	2866.34	2972.07	0	0	40.73	40.81	40.89	70.03	68.19	67.37	0.70	49.90	5.82	6.02
03/12/2022 20:00	2947.68	2917.17	0	0	40.69	40.77	40.84	70.76	68.82	68.12	0.72	50.02	6.10	5.85
03/12/2022 20:30	3289.18	3261.04	0	0	40.65	40.74	40.81	84.46	82.74	81.94	0.70	50.00	7.09	7.24
03/12/2022 21:00	3723.04	3756.18	0	0	40.65	40.74	40.80	94.99	93.20	92.44	0.72	50.00	8.20	7.95
03/12/2022 21:30	4039.73	3892.58	0	0	40.19	40.28	40.33	93.89	92.19	91.54	0.73	49.90	8.13	7.66
03/12/2022 22:00	4078.32	3809.43	0	0	40.04	40.14	40.19	104.70	103.02	102.48	0.75	49.93	9.32	8.24
03/12/2022 22:30	4752.55	4088.76	0	0	39.56	39.65	39.70	109.57	107.82	107.27	0.75	50.00	9.66	8.50
03/12/2022 23:00	4870.14	4254.81	0	0	39.66	39.76	39.81	111.09	109.27	108.50	0.76	50.10	9.92	8.50

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
03/12/2022 23:30	4886.78	4235.57	0	0	39.58	39.69	39.73	108.93	107.22	106.43	0.76	50.08	9.72	8.30
04/12/2022 00:00	4746.09	4089.81	0	0	39.60	39.70	39.75	102.79	101.13	100.22	0.76	50.16	9.14	7.87
04/12/2022 00:30	4745.86	4108.33	0	0	39.59	39.70	39.75	107.77	106.25	105.36	0.75	49.95	9.55	8.32
04/12/2022 01:00	4682.21	4106.00	0	0	39.61	39.72	39.76	104.54	102.99	102.14	0.75	50.06	9.27	8.06
04/12/2022 01:30	4363.55	3839.29	0	0	39.47	39.58	39.63	98.55	96.95	96.11	0.75	50.02	8.69	7.57
04/12/2022 02:00	3999.72	3635.86	0	0	39.67	39.79	39.83	90.43	89.13	88.02	0.73	50.06	7.79	7.23
04/12/2022 02:30	3863.26	3610.98	0	0	39.70	39.82	39.87	89.05	87.78	86.66	0.72	50.07	7.58	7.23
04/12/2022 03:00	3890.49	3636.11	0	0	39.74	39.86	39.91	92.78	91.46	90.45	0.73	50.09	7.97	7.49
04/12/2022 03:30	4043.33	3771.95	0	0	39.67	39.78	39.84	101.38	99.93	99.12	0.75	50.01	8.91	7.94
04/12/2022 04:00	4377.03	3975.04	0	0	39.64	39.76	39.81	99.94	98.61	97.63	0.74	49.93	8.66	7.96
04/12/2022 04:30	4501.43	3995.01	0	0	39.60	39.71	39.76	104.59	103.03	102.15	0.76	49.99	9.30	8.03
04/12/2022 05:00	4727.75	4070.24	0	0	39.75	39.86	39.91	107.07	105.50	104.51	0.75	49.97	9.41	8.41
04/12/2022 05:30	4823.54	4206.83	0	0	39.82	39.93	39.99	107.92	106.32	105.45	0.75	50.01	9.60	8.40
04/12/2022 06:00	4492.12	4058.48	0	0	40.00	40.11	40.17	98.75	97.20	96.16	0.73	50.06	8.54	8.00
04/12/2022 06:30	4267.71	3955.04	0	0	39.93	40.03	40.09	92.52	90.79	89.69	0.73	49.97	7.98	7.44
04/12/2022 07:00	3912.22	3739.63	0	0	39.97	40.06	40.12	89.58	87.91	86.94	0.72	49.92	7.62	7.34
04/12/2022 07:30	3802.76	3736.72	0	0	40.17	40.25	40.33	85.26	83.49	82.70	0.72	50.07	7.31	6.98
04/12/2022 08:00	3674.75	3517.01	0	0	40.02	40.08	40.16	86.21	84.41	83.83	0.72	49.99	7.38	7.02

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
04/12/2022 08:30	3988.99	3695.01	0	0	39.69	39.74	39.82	100.12	98.09	97.82	0.74	49.96	8.70	7.91
04/12/2022 09:00	4481.77	3937.88	0	0	39.38	39.42	39.49	104.88	102.78	102.52	0.76	50.04	9.28	7.96
04/12/2022 09:30	4429.42	3919.23	0	0	39.59	39.65	39.72	97.78	95.75	95.28	0.73	49.99	8.30	7.88
04/12/2022 10:00	4194.32	3867.28	0	0	39.56	39.61	39.69	97.06	94.96	94.63	0.74	50.03	8.37	7.67
04/12/2022 10:30	4836.86	4262.35	0	0	39.46	39.51	39.59	117.93	115.56	115.50	0.75	50.01	10.36	9.10
04/12/2022 11:00	5226.00	4537.60	0	0	39.50	39.55	39.63	120.61	118.08	118.18	0.76	50.01	10.71	9.19
04/12/2022 11:30	5485.19	4721.69	0	0	40.18	40.26	40.34	125.81	123.49	123.14	0.75	49.95	11.25	9.90
04/12/2022 12:00	5402.34	4778.93	0	0	40.40	40.48	40.57	116.50	114.35	113.78	0.74	50.19	10.39	9.30
04/12/2022 12:30	5193.91	4682.87	0	0	40.29	40.37	40.44	115.98	113.76	113.15	0.74	49.97	10.28	9.26
04/12/2022 13:00	5129.58	4547.02	0	0	39.84	39.90	39.98	114.39	112.11	111.79	0.75	50.07	10.16	8.87
04/12/2022 13:30	4942.48	4168.16	0	0	39.26	39.31	39.39	111.22	108.90	108.94	0.77	49.99	9.95	8.26
04/12/2022 14:00	5109.81	4334.23	0	0	39.20	39.24	39.33	115.90	113.30	113.38	0.76	50.02	10.20	8.75
04/12/2022 14:30	5124.68	4375.83	0	0	39.07	39.12	39.19	123.21	120.77	120.58	0.76	49.97	10.87	9.22
04/12/2022 15:00	5449.74	4721.54	0	0	39.42	39.47	39.55	122.89	120.56	120.36	0.75	49.98	10.81	9.44
04/12/2022 15:30	4814.39	4344.13	0	0	39.61	39.66	39.75	101.24	99.07	98.45	0.73	49.99	8.63	8.10
04/12/2022 16:00	4019.11	3847.63	0	0	39.87	39.91	40.00	90.86	88.84	88.09	0.71	49.94	7.60	7.50
04/12/2022 16:30	3845.06	3784.00	0	0	40.00	40.05	40.13	95.77	93.73	92.94	0.72	50.01	8.12	7.86
04/12/2022 17:00	3896.41	3849.85	0	0	40.16	40.21	40.31	98.07	96.18	95.29	0.71	50.06	8.27	8.19

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
04/12/2022 17:30	4145.52	4096.37	0	0	40.41	40.49	40.57	97.73	96.08	95.40	0.73	50.03	8.59	7.95
04/12/2022 18:00	4101.85	3942.53	0	0	40.87	40.95	41.03	94.80	93.08	92.09	0.71	50.02	8.09	8.10
04/12/2022 18:30	4004.37	3920.61	0	0	40.59	40.66	40.74	93.67	91.98	91.20	0.72	49.93	8.05	7.86
04/12/2022 19:00	4577.93	4259.92	0	0	40.54	40.62	40.69	102.31	100.74	99.84	0.73	49.98	9.01	8.36
04/12/2022 19:30	4725.04	4330.17	0	0	40.46	40.55	40.61	110.94	109.14	108.38	0.74	50.01	9.86	8.94
04/12/2022 20:00	4920.56	4412.50	0	0	40.44	40.52	40.59	109.52	107.77	107.02	0.74	49.89	9.75	8.80
04/12/2022 20:30	4776.77	4311.39	0	0	40.53	40.61	40.68	104.54	102.92	102.06	0.74	50.04	9.33	8.41
04/12/2022 21:00	4720.01	4275.04	0	0	40.56	40.64	40.71	104.28	102.58	101.69	0.74	49.97	9.30	8.39
04/12/2022 21:30	4641.23	4199.72	0	0	40.10	40.18	40.25	103.05	101.55	100.82	0.75	50.03	9.17	8.14
04/12/2022 22:00	4617.37	4074.16	0	0	40.11	40.20	40.26	107.56	106.00	105.26	0.76	50.04	9.71	8.34
04/12/2022 22:30	4657.07	4043.85	0	0	39.93	40.02	40.09	101.86	100.38	99.65	0.76	49.94	9.12	7.91
04/12/2022 23:00	4416.37	3937.10	0	0	40.09	40.18	40.25	94.55	93.23	92.27	0.74	50.02	8.29	7.59
04/12/2022 23:30	3954.68	3577.80	0	0	39.56	39.65	39.71	90.05	88.75	88.09	0.75	50.04	7.93	6.99
05/12/2022 00:00	3751.00	3345.74	0	0	39.50	39.59	39.64	84.36	83.12	82.30	0.75	50.10	7.36	6.58
05/12/2022 00:30	3682.42	3314.75	0	0	39.40	39.49	39.55	84.60	83.49	82.61	0.74	50.04	7.32	6.65
05/12/2022 01:00	3601.23	3293.52	0	0	39.35	39.44	39.50	82.74	81.54	80.80	0.74	50.00	7.12	6.52
05/12/2022 01:30	3933.30	3431.66	0	0	39.34	39.43	39.48	93.60	92.12	91.33	0.75	49.98	8.22	7.18
05/12/2022 02:00	4109.17	3636.39	0	0	39.44	39.53	39.59	98.61	97.19	96.42	0.76	50.05	8.77	7.50

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
05/12/2022 02:30	4615.63	3915.51	0	0	39.29	39.39	39.44	108.13	106.71	105.97	0.76	50.01	9.58	8.22
05/12/2022 03:00	4756.27	4015.49	0	0	39.48	39.59	39.64	107.34	105.99	105.18	0.76	50.07	9.62	8.14
05/12/2022 03:30	4758.97	4064.57	0	0	39.47	39.57	39.62	106.68	105.20	104.39	0.76	50.00	9.49	8.14
05/12/2022 04:00	4739.92	4051.89	0	0	39.42	39.52	39.57	105.78	104.32	103.54	0.76	49.91	9.38	8.09
05/12/2022 04:30	4850.20	4124.24	0	0	39.27	39.37	39.41	110.65	109.12	108.38	0.77	50.03	9.88	8.31
05/12/2022 05:00	4848.41	4116.18	0	0	39.64	39.74	39.80	107.31	105.93	105.14	0.75	50.04	9.48	8.36
05/12/2022 05:30	4730.70	4129.68	0	0	39.65	39.74	39.80	99.80	98.36	97.40	0.75	50.11	8.80	7.76
05/12/2022 06:00	4240.78	3867.73	0	0	39.64	39.74	39.79	97.95	96.59	95.42	0.74	50.11	8.57	7.68
05/12/2022 06:30	4092.85	3772.89	0	0	39.64	39.74	39.80	93.59	92.28	91.26	0.73	50.03	8.05	7.49
05/12/2022 07:00	3917.08	3633.57	0	0	39.67	39.77	39.83	92.25	91.04	90.00	0.74	50.01	7.98	7.36
05/12/2022 07:30	3916.78	3651.86	0	0	39.36	39.45	39.51	90.91	89.61	88.69	0.74	50.00	7.84	7.14
05/12/2022 08:00	4084.05	3668.59	0	0	39.36	39.42	39.50	99.44	97.88	97.39	0.75	50.03	8.72	7.67
05/12/2022 08:30	4403.34	3874.11	0	0	39.50	39.57	39.64	96.03	94.42	93.77	0.74	49.96	8.28	7.60
05/12/2022 09:00	4105.57	3763.92	0	0	39.58	39.64	39.72	95.61	93.95	93.22	0.74	49.98	8.27	7.56
05/12/2022 09:30	4262.58	3880.84	0	0	39.47	39.53	39.61	110.44	108.43	108.15	0.75	50.04	9.73	8.50
05/12/2022 10:00	5142.00	4491.36	0	0	39.28	39.35	39.42	120.50	118.61	117.96	0.76	49.98	10.61	9.19
05/12/2022 10:30	5449.75	4649.25	0	0	39.24	39.30	39.38	125.70	123.67	123.17	0.76	50.03	11.18	9.44
05/12/2022 11:00	5524.50	4677.14	0	0	39.04	39.10	39.17	127.42	125.47	125.14	0.77	49.98	11.41	9.39

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
05/12/2022 11:30	5659.40	4792.83	0	0	39.36	39.43	39.51	125.69	123.50	123.05	0.76	49.93	11.12	9.57
05/12/2022 12:00	5708.83	5013.23	0	0	39.65	39.73	39.81	134.00	132.09	131.41	0.74	49.99	11.70	10.60
05/12/2022 12:30	6000.92	5379.14	0	0	39.63	39.72	39.80	137.70	135.88	135.27	0.74	49.98	12.02	10.91
05/12/2022 13:00	5715.91	5216.37	0	0	39.71	39.80	39.86	126.54	124.55	123.68	0.74	50.00	11.01	10.04
05/12/2022 13:30	5168.94	4797.93	0	0	39.68	39.75	39.82	116.65	114.69	113.81	0.74	50.00	10.16	9.21
05/12/2022 14:00	4743.11	4409.83	0	0	39.73	39.80	39.87	101.92	100.14	99.26	0.73	50.08	8.74	8.19
05/12/2022 14:30	4205.41	4032.52	0	0	40.00	40.07	40.15	96.08	94.41	93.42	0.72	50.09	8.16	7.90
05/12/2022 15:00	4114.80	3938.28	0	0	39.93	40.01	40.07	95.16	93.48	92.42	0.72	50.06	8.09	7.79
05/12/2022 15:30	4085.30	3904.78	0	0	40.45	40.53	40.61	94.39	92.87	92.01	0.73	49.88	8.22	7.76
05/12/2022 16:00	4098.69	3797.06	0	0	40.37	40.46	40.52	89.75	88.34	87.45	0.73	50.05	7.88	7.28
05/12/2022 16:30	4024.60	3717.85	0	0	40.35	40.44	40.51	90.61	89.23	88.27	0.72	49.95	7.84	7.47
05/12/2022 17:00	3958.39	3679.76	0	0	40.54	40.64	40.71	90.20	88.89	87.91	0.72	50.03	7.84	7.48
05/12/2022 17:30	4246.88	3921.05	0	0	40.64	40.75	40.81	105.52	104.04	103.08	0.75	49.98	9.57	8.39
05/12/2022 18:00	4812.64	4351.11	0	0	40.93	41.03	41.10	106.06	104.54	103.36	0.73	50.05	9.43	8.76
05/12/2022 18:30	4869.62	4372.46	0	0	40.53	40.63	40.69	110.30	108.70	107.80	0.75	49.98	9.95	8.77
05/12/2022 19:00	5024.56	4433.73	0	0	40.80	40.92	40.97	111.50	109.97	108.94	0.74	49.99	10.04	9.03
05/12/2022 19:30	4869.04	4345.55	0	0	40.70	40.81	40.86	112.99	111.32	110.42	0.76	49.98	10.32	8.93
05/12/2022 20:00	5259.75	4590.59	0	0	40.52	40.63	40.68	116.74	115.21	114.47	0.75	49.97	10.58	9.27

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
05/12/2022 20:30	5359.21	4730.02	0	0	40.65	40.77	40.82	119.51	117.88	117.10	0.75	50.06	10.83	9.54
05/12/2022 21:00	1102.03	1467.89	0	0	41.14	41.25	41.31	13.25	12.79	11.89	0.44	50.07	0.68	1.39
05/12/2022 21:30	302.66	643.61	0	0	40.61	40.73	40.78	11.92	11.51	10.70	0.45	50.00	0.62	1.23
05/12/2022 22:00	297.67	591.30	0	0	40.41	40.52	40.58	10.48	10.08	9.25	0.45	49.93	0.54	1.06
05/12/2022 22:30	257.15	508.87	0	0	40.25	40.35	40.42	11.69	11.46	10.39	0.49	49.95	0.65	1.17
05/12/2022 23:00	369.17	588.56	0	0	40.31	40.42	40.48	12.54	12.13	11.26	0.53	49.95	0.77	1.21
05/12/2022 23:30	584.98	749.44	0	0	40.21	40.31	40.37	18.08	17.48	16.74	0.63	49.98	1.33	1.63
06/12/2022 00:00	632.95	757.76	0	0	39.97	40.07	40.14	16.65	16.09	15.52	0.65	50.02	1.25	1.47
06/12/2022 00:30	634.33	761.42	0	0	39.90	40.00	40.07	19.18	18.52	17.99	0.66	49.96	1.46	1.67
06/12/2022 01:00	815.13	914.21	0	0	40.07	40.17	40.24	25.31	24.68	23.47	0.61	50.00	1.78	2.33
06/12/2022 01:30	835.51	1048.13	0	0	39.93	40.04	40.11	23.97	23.27	22.12	0.65	49.95	1.80	2.09
06/12/2022 02:00	1014.73	1214.54	0	0	40.08	40.19	40.26	27.38	26.69	25.27	0.63	50.02	2.00	2.46
06/12/2022 02:30	1100.12	1348.84	0	0	40.16	40.27	40.35	31.53	30.77	29.16	0.65	49.97	2.39	2.78
06/12/2022 03:00	1103.52	1394.20	0	0	40.32	40.43	40.51	32.21	31.39	29.68	0.65	49.96	2.44	2.85
06/12/2022 03:30	1133.85	1384.99	0	0	40.18	40.30	40.36	30.78	30.01	28.34	0.64	49.96	2.29	2.74
06/12/2022 04:00	1137.61	1349.42	0	0	40.13	40.24	40.31	30.02	29.21	27.52	0.65	49.93	2.26	2.64
06/12/2022 04:30	1125.01	1315.47	0	0	40.06	40.17	40.23	29.35	28.61	26.98	0.65	49.99	2.19	2.59
06/12/2022 05:00	1078.17	1300.77	0	0	40.00	40.11	40.17	28.10	27.41	25.74	0.64	49.93	2.06	2.51

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
06/12/2022 05:30	1074.11	1307.47	0	0	40.02	40.12	40.19	29.74	29.18	27.55	0.63	49.96	2.18	2.68
06/12/2022 06:00	1463.33	1619.77	0	0	40.04	40.15	40.22	56.27	55.11	53.78	0.74	49.99	4.87	4.49
06/12/2022 06:30	2781.21	2677.27	0	0	39.86	39.96	40.03	81.47	80.54	79.14	0.71	49.99	6.79	6.83
06/12/2022 07:00	3693.41	3682.61	0	0	40.01	40.13	40.20	100.82	99.87	98.68	0.72	50.05	8.65	8.33
06/12/2022 07:30	4231.84	4237.66	0	0	39.72	39.83	39.89	102.95	101.76	100.68	0.70	49.96	8.55	8.64
06/12/2022 08:00	4339.39	4298.75	0	0	39.68	39.79	39.86	106.67	105.61	104.51	0.71	49.94	8.97	8.84
06/12/2022 08:30	4585.55	4463.27	0	0	39.58	39.66	39.73	109.77	108.49	107.51	0.72	49.92	9.29	8.96
06/12/2022 09:00	4102.94	4194.42	0	0	40.09	40.18	40.24	96.58	95.44	94.08	0.68	50.01	7.84	8.39
06/12/2022 09:30	3733.79	4028.73	0	0	40.14	40.23	40.30	92.63	91.52	90.19	0.68	50.04	7.46	8.12
06/12/2022 10:00	3913.78	4196.97	0	0	40.13	40.22	40.29	96.59	95.49	94.20	0.68	49.93	7.81	8.44
06/12/2022 10:30	3854.06	4099.65	0	0	40.10	40.18	40.25	97.54	96.50	95.20	0.69	50.08	8.07	8.36
06/12/2022 11:00	3881.00	4119.70	0	0	39.90	39.97	40.04	94.32	92.98	91.86	0.68	49.96	7.63	8.13
06/12/2022 11:30	3867.61	4137.96	0	0	40.04	40.12	40.19	99.51	98.25	97.01	0.69	50.07	8.16	8.55
06/12/2022 12:00	4111.48	4293.58	0	0	39.97	40.05	40.12	106.75	105.26	104.27	0.71	50.00	8.94	8.96
06/12/2022 12:30	4719.45	4719.53	0	0	40.16	40.24	40.32	107.27	105.61	104.86	0.75	50.07	9.58	8.46
06/12/2022 13:00	4883.72	4271.86	0	0	40.09	40.17	40.25	105.60	103.91	103.06	0.75	50.05	9.38	8.33
06/12/2022 13:30	4786.22	4260.22	0	0	39.84	39.95	40.02	116.95	115.57	114.80	0.75	49.93	10.44	9.12
06/12/2022 14:00	5225.60	4521.50	0	0	39.78	39.89	39.95	113.55	112.10	111.38	0.76	50.04	10.19	8.74

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
06/12/2022 14:30	5077.68	4454.31	0	0	40.11	40.23	40.29	113.91	112.36	111.54	0.75	49.96	10.15	9.01
06/12/2022 15:00	5035.24	4476.35	0	0	40.21	40.33	40.40	113.87	112.45	111.61	0.75	49.96	10.21	9.00
06/12/2022 15:30	5116.38	4543.16	0	0	40.23	40.34	40.41	114.35	112.91	112.06	0.75	49.91	10.27	9.03
06/12/2022 16:00	4977.50	4497.26	0	0	40.43	40.56	40.62	109.75	108.26	107.26	0.74	49.94	9.70	8.92
06/12/2022 16:30	4960.18	4468.92	0	0	40.41	40.54	40.59	112.55	111.12	110.05	0.74	50.06	10.03	9.05
06/12/2022 17:00	4931.17	4528.00	0	0	40.66	40.80	40.84	111.32	110.04	108.81	0.73	50.07	9.84	9.16
06/12/2022 17:30	4929.64	4582.40	0	0	40.75	40.88	40.92	110.34	109.00	107.70	0.72	50.01	9.68	9.19
06/12/2022 18:00	4746.55	4442.68	0	0	41.02	41.15	41.20	108.06	106.65	105.15	0.72	50.01	9.51	9.07
06/12/2022 18:30	4851.38	4648.36	0	0	40.87	41.00	41.05	112.18	110.83	109.47	0.73	50.04	9.95	9.29
06/12/2022 19:00	4307.17	4314.81	0	0	40.98	41.11	41.16	93.89	92.58	91.09	0.71	50.00	8.03	8.08
06/12/2022 19:30	3839.64	3913.92	0	0	41.00	41.13	41.17	88.57	87.39	85.95	0.70	49.93	7.54	7.67
06/12/2022 20:00	3811.27	3841.05	0	0	41.11	41.25	41.29	88.03	86.96	85.40	0.69	49.96	7.37	7.78
06/12/2022 20:30	3833.82	3891.11	0	0	40.91	41.04	41.08	89.58	88.44	87.06	0.71	50.01	7.70	7.65
06/12/2022 21:00	3831.62	3773.92	0	0	40.97	41.11	41.15	88.56	87.43	85.91	0.70	49.99	7.56	7.63
06/12/2022 21:30	3847.73	3741.12	0	0	40.59	40.72	40.76	91.32	90.19	88.94	0.72	50.00	7.96	7.58
06/12/2022 22:00	3857.37	3688.40	0	0	40.01	40.14	40.18	90.74	89.68	88.64	0.74	49.95	7.95	7.29
06/12/2022 22:30	4093.59	3701.02	0	0	39.88	40.01	40.06	99.27	98.26	97.36	0.75	49.97	8.78	7.85
06/12/2022 23:00	4609.18	4045.41	0	0	39.84	39.97	40.02	107.42	106.28	105.24	0.75	49.98	9.58	8.38

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
06/12/2022 23:30	4889.65	4238.45	0	0	39.90	40.02	40.07	111.67	110.47	109.51	0.76	50.05	10.07	8.62
07/12/2022 00:00	4967.28	4292.95	0	0	39.81	39.94	39.99	109.48	108.29	107.27	0.76	50.00	9.83	8.45
07/12/2022 00:30	4850.05	4229.81	0	0	39.98	40.10	40.15	110.39	109.16	108.15	0.75	50.04	9.89	8.63
07/12/2022 01:00	4908.09	4314.88	0	0	39.95	40.08	40.12	107.15	106.02	104.89	0.75	49.96	9.51	8.46
07/12/2022 01:30	4696.35	4191.40	0	0	39.96	40.10	40.14	103.83	102.82	101.53	0.75	49.91	9.23	8.19
07/12/2022 02:00	4695.19	4133.02	0	0	39.84	39.98	40.01	105.51	104.39	103.18	0.75	49.92	9.35	8.30
07/12/2022 02:30	4753.29	4192.41	0	0	39.91	40.06	40.09	105.70	104.67	103.35	0.75	49.93	9.38	8.33
07/12/2022 03:00	4645.53	4113.33	0	0	40.07	40.23	40.26	105.55	104.65	103.14	0.75	49.94	9.43	8.33
07/12/2022 03:30	4623.82	4090.39	0	0	39.92	40.06	40.09	103.14	102.19	100.74	0.75	50.03	9.13	8.16
07/12/2022 04:00	4620.57	4075.70	0	0	40.06	40.19	40.24	103.03	102.03	100.76	0.75	50.05	9.20	8.13
07/12/2022 04:30	4424.58	3975.49	0	0	40.02	40.15	40.20	95.79	94.78	93.58	0.73	50.11	8.35	7.75
07/12/2022 05:00	4017.75	3759.26	0	0	39.95	40.06	40.11	90.09	88.92	87.72	0.72	49.94	7.73	7.36
07/12/2022 05:30	3895.99	3768.88	0	0	40.17	40.29	40.35	89.11	88.10	86.77	0.71	49.96	7.57	7.45
07/12/2022 06:00	3875.70	3754.05	0	0	40.19	40.31	40.36	89.59	88.52	87.13	0.72	50.03	7.67	7.42
07/12/2022 06:30	3877.39	3641.55	0	0	39.91	40.02	40.08	87.85	86.77	85.54	0.73	50.04	7.58	7.11
07/12/2022 07:00	3928.53	3702.26	0	0	40.03	40.13	40.18	94.12	92.79	91.64	0.73	50.02	8.17	7.60
07/12/2022 07:30	4019.83	3702.87	0	0	40.06	40.16	40.21	92.33	90.82	89.80	0.73	50.01	8.00	7.47
07/12/2022 08:00	4012.95	3680.64	0	0	39.84	39.92	39.98	89.93	88.30	87.55	0.74	50.09	7.87	7.09

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
07/12/2022 08:30	3962.36	3665.40	0	0	39.92	40.00	40.07	93.96	92.19	91.49	0.74	50.00	8.16	7.52
07/12/2022 09:00	4081.54	3818.43	0	0	40.01	40.07	40.14	97.30	95.40	94.83	0.73	50.04	8.45	7.82
07/12/2022 09:30	4393.56	4040.78	0	0	39.96	40.03	40.10	96.22	94.30	93.49	0.72	50.00	8.15	7.90
07/12/2022 10:00	4435.50	4076.27	0	0	39.91	39.97	40.06	97.69	95.70	95.00	0.73	50.00	8.39	7.90
07/12/2022 10:30	3546.51	3339.97	0	0	40.08	40.14	40.22	75.88	73.96	72.88	0.73	49.98	6.49	6.13
07/12/2022 11:00	3184.12	3036.82	0	0	40.23	40.28	40.37	72.15	70.27	69.19	0.73	50.02	6.24	5.79
07/12/2022 11:30	2964.17	2862.29	0	0	40.32	40.38	40.46	69.00	67.30	66.02	0.72	50.02	5.87	5.67
07/12/2022 12:00	3011.35	2843.60	0	0	40.56	40.65	40.72	69.84	68.23	66.83	0.73	50.21	6.10	5.64
07/12/2022 12:30	3005.98	2888.04	0	0	40.62	40.70	40.78	68.84	67.17	65.74	0.72	50.04	5.87	5.72
07/12/2022 13:00	3050.75	2921.44	0	0	40.49	40.56	40.64	70.18	68.40	67.35	0.72	50.10	6.04	5.75
07/12/2022 13:30	3622.44	3300.31	0	0	39.96	40.02	40.10	87.87	85.90	85.30	0.75	50.03	7.74	6.89
07/12/2022 14:00	4235.40	3879.11	0	0	40.03	40.08	40.16	99.81	97.63	96.88	0.73	50.01	8.56	8.10
07/12/2022 14:30	4524.03	4116.74	0	0	40.18	40.24	40.32	106.49	104.10	103.54	0.74	49.99	9.35	8.50
07/12/2022 15:00	4820.87	4283.07	0	0	40.06	40.12	40.20	115.22	112.89	112.46	0.74	50.05	10.10	9.20
07/12/2022 15:30	4789.74	4331.87	0	0	40.07	40.14	40.21	107.87	105.39	105.01	0.74	50.01	9.45	8.58
07/12/2022 16:00	5049.52	4501.61	0	0	40.32	40.40	40.47	110.93	108.60	108.06	0.74	49.99	9.75	8.94
07/12/2022 16:30	4854.60	4507.94	0	0	40.13	40.21	40.28	115.76	113.40	112.91	0.74	49.99	10.14	9.28
07/12/2022 17:00	5031.38	4609.77	0	0	40.44	40.52	40.59	113.58	111.22	110.70	0.74	50.03	10.00	9.19

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
07/12/2022 17:30	4991.60	4569.31	0	0	40.47	40.55	40.62	110.15	107.89	107.44	0.74	50.01	9.77	8.86
07/12/2022 18:00	4744.78	4245.62	0	0	40.78	40.86	40.93	102.63	100.01	99.58	0.74	49.96	9.16	8.26
07/12/2022 18:30	4341.79	3949.64	0	0	40.86	40.94	41.02	90.25	88.03	87.49	0.74	49.96	8.01	7.34
07/12/2022 19:00	3797.69	3608.54	0	0	40.83	40.91	40.99	86.76	84.55	84.00	0.72	50.00	7.46	7.29
07/12/2022 19:30	3714.58	3583.01	0	0	40.61	40.69	40.77	80.44	78.35	77.93	0.72	50.02	6.92	6.69
07/12/2022 20:00	3324.99	3215.17	0	0	40.80	40.87	40.95	74.08	71.98	71.36	0.72	50.03	6.40	6.15
07/12/2022 20:30	3153.03	3054.54	0	0	40.76	40.84	40.92	74.63	72.60	71.94	0.73	50.07	6.48	6.15
07/12/2022 21:00	3274.45	3077.34	0	0	40.58	40.67	40.74	77.09	75.16	74.61	0.73	50.07	6.75	6.27
07/12/2022 21:30	3098.52	2926.15	0	0	40.63	40.72	40.78	72.27	70.43	69.66	0.74	50.04	6.36	5.83
07/12/2022 22:00	3149.61	2853.81	0	0	40.39	40.48	40.55	69.42	67.65	66.92	0.73	50.07	6.06	5.59
07/12/2022 22:30	2919.16	2803.83	0	0	40.01	40.11	40.17	68.00	66.42	65.53	0.73	49.91	5.82	5.50
07/12/2022 23:00	2796.82	2642.54	0	0	40.13	40.23	40.29	69.72	68.02	67.04	0.73	50.02	5.98	5.64
07/12/2022 23:30	2956.37	2839.62	0	0	40.15	40.25	40.31	74.14	72.36	71.65	0.73	50.05	6.43	5.95
08/12/2022 00:00	3182.43	2995.74	0	0	40.14	40.24	40.30	72.66	70.90	70.12	0.72	50.06	6.17	5.96
08/12/2022 00:30	3092.80	2966.31	0	0	39.40	39.49	39.54	74.95	73.15	72.50	0.74	49.99	6.44	5.84
08/12/2022 01:00	3125.98	2931.39	0	0	39.24	39.34	39.38	77.63	75.65	74.87	0.72	49.94	6.45	6.22
08/12/2022 01:30	3278.30	3093.76	0	0	39.13	39.22	39.28	77.77	75.90	75.42	0.74	49.95	6.61	6.06
08/12/2022 02:00	3208.25	2940.14	0	0	39.32	39.41	39.47	74.01	72.15	71.40	0.73	50.05	6.28	5.81

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
08/12/2022 02:30	2959.08	2738.39	0	0	39.32	39.42	39.48	68.78	67.09	66.28	0.74	49.94	5.88	5.35
08/12/2022 03:00	2849.26	2621.26	0	0	39.42	39.52	39.58	65.30	63.62	62.67	0.72	50.00	5.44	5.23
08/12/2022 03:30	2751.39	2635.95	0	0	39.50	39.59	39.66	66.06	64.30	63.36	0.74	49.99	5.67	5.13
08/12/2022 04:00	2808.59	2596.53	0	0	39.51	39.60	39.67	63.90	62.16	61.24	0.72	50.08	5.34	5.12
08/12/2022 04:30	3140.72	2836.91	0	0	39.35	39.43	39.50	71.76	69.93	69.19	0.74	49.99	6.11	5.62
08/12/2022 05:00	3365.03	2976.77	0	0	39.21	39.31	39.36	76.74	74.94	74.17	0.74	50.02	6.57	5.95
08/12/2022 05:30	2997.37	2839.98	0	0	39.40	39.48	39.54	69.10	67.29	66.30	0.73	50.03	5.80	5.49
08/12/2022 06:00	3195.54	2964.05	0	0	39.98	40.07	40.13	77.11	75.27	74.38	0.73	50.04	6.64	6.18
08/12/2022 06:30	2869.95	2801.53	0	0	40.01	40.10	40.16	66.28	64.35	63.25	0.71	49.97	5.52	5.44
08/12/2022 07:00	2874.76	2725.77	0	0	41.31	41.41	41.47	60.59	58.67	57.64	0.71	50.01	5.20	5.12
08/12/2022 07:30	2748.75	2625.64	0	0	40.85	40.94	41.01	62.52	60.81	59.98	0.73	49.97	5.45	5.14
08/12/2022 08:00	2628.21	2358.37	0	0	40.45	40.52	40.58	58.15	56.27	55.51	0.75	50.05	5.13	4.57
08/12/2022 08:30	2613.40	2300.61	0	0	40.28	40.35	40.41	59.53	57.67	56.90	0.76	49.95	5.29	4.59
08/12/2022 09:00	2513.39	2188.00	0	0	40.34	40.40	40.47	55.72	53.85	52.97	0.74	50.02	4.87	4.38
08/12/2022 09:30	2980.95	2551.31	0	0	40.19	40.24	40.32	70.41	67.95	67.56	0.76	50.03	6.29	5.37
08/12/2022 10:00	3081.97	2616.51	0	0	40.11	40.16	40.22	72.96	70.61	70.21	0.75	50.00	6.43	5.67
08/12/2022 10:30	3391.94	3084.03	0	0	40.06	40.12	40.18	77.77	75.53	75.01	0.76	50.02	6.91	6.00
08/12/2022 11:00	3420.01	3085.10	0	0	40.11	40.16	40.22	82.26	79.90	79.36	0.75	49.98	7.24	6.44

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
08/12/2022 11:30	3507.68	3237.12	0	0	40.28	40.34	40.42	81.32	79.23	78.63	0.73	49.99	7.03	6.60
08/12/2022 12:00	3626.91	3514.04	0	0	40.64	40.72	40.78	90.87	89.07	88.06	0.71	50.01	7.72	7.70
08/12/2022 12:30	3948.85	3923.12	0	0	40.52	40.60	40.67	96.81	94.91	94.17	0.71	49.99	8.28	8.12
08/12/2022 13:00	4212.97	4102.06	0	0	40.32	40.38	40.45	98.98	96.94	96.43	0.72	49.97	8.45	8.23
08/12/2022 13:30	4395.94	4179.59	0	0	39.74	39.79	39.86	104.92	102.58	102.21	0.73	50.04	8.98	8.43
08/12/2022 14:00	4844.98	4559.16	0	0	39.56	39.61	39.68	127.98	125.26	125.15	0.73	50.04	11.01	10.17
08/12/2022 14:30	5637.38	5228.64	0	0	39.61	39.66	39.73	131.86	129.33	129.19	0.73	49.98	11.34	10.53
08/12/2022 15:00	5842.23	5360.04	0	0	39.82	39.88	39.95	131.33	128.77	128.57	0.73	50.05	11.27	10.63
08/12/2022 15:30	5145.28	4872.02	0	0	39.84	39.90	39.96	99.29	96.85	96.14	0.72	49.98	8.37	8.10
08/12/2022 16:00	4331.88	3941.48	0	0	40.07	40.14	40.21	99.03	96.75	96.05	0.75	50.02	8.75	7.78
08/12/2022 16:30	4555.23	4092.83	0	0	40.08	40.15	40.21	108.88	106.60	105.86	0.74	49.95	9.51	8.71
08/12/2022 17:00	4904.65	4450.01	0	0	40.24	40.32	40.37	112.81	110.50	109.70	0.74	50.02	9.87	9.08
08/12/2022 17:30	4930.41	4642.95	0	0	40.45	40.54	40.60	110.25	108.04	107.14	0.73	50.07	9.60	9.03
08/12/2022 18:00	4770.47	4434.57	0	0	40.60	40.69	40.75	108.76	106.72	105.87	0.73	50.01	9.57	8.89
08/12/2022 18:30	4422.53	4290.41	0	0	40.82	40.91	40.96	96.20	94.20	92.95	0.70	49.98	8.10	8.27
08/12/2022 19:00	4220.98	4224.45	0	0	41.05	41.14	41.21	93.03	91.04	89.94	0.70	49.98	7.88	8.04
08/12/2022 19:30	3406.82	3522.18	0	0	40.71	40.79	40.85	76.77	75.11	74.12	0.70	49.93	6.43	6.59
08/12/2022 20:00	3334.79	3378.75	0	0	40.77	40.85	40.91	77.42	75.81	74.88	0.70	49.98	6.53	6.62

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
08/12/2022 20:30	3291.92	3324.09	0	0	40.53	40.62	40.67	78.15	76.51	75.62	0.70	49.91	6.58	6.63
08/12/2022 21:00	3455.61	3412.02	0	0	40.09	40.17	40.22	89.19	87.34	86.59	0.73	50.02	7.67	7.25
08/12/2022 21:30	3893.01	3741.90	0	0	39.78	39.87	39.92	95.88	94.31	93.52	0.71	50.04	8.07	7.91
08/12/2022 22:00	4059.50	3831.55	0	0	39.86	39.95	40.00	93.16	91.55	90.55	0.72	50.04	7.92	7.61
08/12/2022 22:30	4320.61	4048.54	0	0	39.87	39.97	40.01	104.05	102.27	101.46	0.74	50.00	9.07	8.29
08/12/2022 23:00	4282.28	4060.91	0	0	39.95	40.04	40.10	94.09	92.43	91.52	0.71	50.01	7.89	7.83
08/12/2022 23:30	4073.86	3913.84	0	0	39.90	39.99	40.04	95.49	93.77	92.87	0.73	50.05	8.19	7.74
09/12/2022 00:00	3923.71	3764.32	0	0	39.94	40.03	40.08	90.20	88.59	87.54	0.72	50.01	7.63	7.42
09/12/2022 00:30	3864.14	3814.19	0	0	40.10	40.20	40.25	90.77	89.07	88.12	0.70	50.01	7.53	7.68
09/12/2022 01:00	3902.14	3795.56	0	0	39.68	39.77	39.82	93.58	91.86	91.00	0.72	49.96	7.91	7.61
09/12/2022 01:30	4046.79	3775.83	0	0	39.55	39.64	39.70	96.01	94.34	93.75	0.74	49.98	8.33	7.56
09/12/2022 02:00	4354.38	4019.12	0	0	39.52	39.61	39.67	111.04	108.98	108.32	0.73	49.95	9.55	8.82
09/12/2022 02:30	4959.96	4419.14	0	0	39.57	39.67	39.72	116.06	114.08	113.41	0.75	49.97	10.22	9.00
09/12/2022 03:00	5089.09	4474.15	0	0	39.64	39.74	39.79	117.04	115.09	114.42	0.75	50.04	10.36	9.06
09/12/2022 03:30	5085.40	4524.10	0	0	39.69	39.79	39.85	113.79	111.94	111.08	0.74	49.99	9.95	8.96
09/12/2022 04:00	5031.08	4495.31	0	0	39.66	39.76	39.81	114.69	112.72	111.97	0.75	49.98	10.10	8.93
09/12/2022 04:30	4955.95	4407.22	0	0	39.73	39.82	39.88	108.07	106.05	105.21	0.74	50.02	9.42	8.52
09/12/2022 05:00	4783.43	4299.80	0	0	39.65	39.75	39.80	111.80	109.73	108.96	0.74	49.96	9.74	8.80

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
09/12/2022 05:30	4659.74	4266.21	0	0	39.77	39.85	39.91	100.30	98.31	97.29	0.72	50.00	8.53	8.12
09/12/2022 06:00	3940.70	3792.44	0	0	40.11	40.21	40.27	86.87	85.26	84.15	0.71	50.01	7.32	7.23
09/12/2022 06:30	3732.01	3659.66	0	0	40.50	40.61	40.67	87.72	86.30	85.14	0.72	50.06	7.55	7.30
09/12/2022 07:00	3343.19	3291.10	0	0	40.96	41.08	41.15	62.18	60.86	59.25	0.72	49.96	5.35	5.21
09/12/2022 07:30	2101.18	2064.12	0	0	41.04	41.17	41.24	38.56	36.97	35.34	0.72	49.90	3.24	3.11
09/12/2022 08:00	1438.77	1307.43	0	0	41.15	41.27	41.33	25.85	24.34	22.88	0.74	49.96	2.13	1.92
09/12/2022 08:30	981.16	872.07	0	0	41.21	41.33	41.40	23.52	22.04	20.54	0.74	49.97	1.90	1.71
09/12/2022 09:00	953.94	846.82	0	0	41.18	41.28	41.35	23.52	21.91	20.62	0.76	50.03	1.94	1.68
09/12/2022 09:30	896.19	750.60	0	0	41.04	41.15	41.22	20.72	19.17	18.04	0.78	50.02	1.73	1.38
09/12/2022 10:00	878.77	714.99	0	0	40.98	41.09	41.16	22.13	20.40	19.36	0.78	49.96	1.87	1.48
09/12/2022 10:30	905.88	725.28	0	0	40.97	41.07	41.15	20.86	19.28	18.20	0.79	49.99	1.76	1.37
09/12/2022 11:00	864.06	686.56	0	0	40.95	41.05	41.12	20.30	18.71	17.69	0.79	50.02	1.71	1.32
09/12/2022 11:30	867.38	686.60	0	0	41.00	41.11	41.18	20.48	18.88	17.73	0.78	49.95	1.69	1.36
09/12/2022 12:00	855.60	685.67	0	0	41.15	41.26	41.33	20.65	19.05	17.81	0.78	50.06	1.70	1.38
09/12/2022 12:30	1065.63	957.78	0	0	41.11	41.22	41.29	30.00	28.53	27.20	0.72	49.94	2.50	2.38
09/12/2022 13:00	1481.69	1408.90	0	0	40.92	41.03	41.10	39.45	37.95	36.71	0.73	49.98	3.37	3.19
09/12/2022 13:30	2183.34	2145.57	0	0	40.81	40.91	40.99	56.06	54.66	53.37	0.70	50.04	4.71	4.77
09/12/2022 14:00	2645.91	2660.35	0	0	40.72	40.83	40.90	67.13	65.66	64.34	0.70	50.01	5.60	5.76

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
09/12/2022 14:30	2902.53	2902.03	0	0	40.63	40.74	40.81	69.93	68.64	67.43	0.72	50.00	6.04	5.80
09/12/2022 15:00	2745.58	2778.14	0	0	40.70	40.81	40.88	63.44	62.19	60.77	0.69	49.98	5.26	5.47
09/12/2022 15:30	2752.82	2738.66	0	0	40.66	40.76	40.83	67.88	66.41	65.27	0.73	49.96	5.90	5.57
09/12/2022 16:00	2814.75	2688.08	0	0	40.66	40.76	40.83	61.45	60.09	58.70	0.70	50.01	5.14	5.22
09/12/2022 16:30	2674.44	2676.37	0	0	40.55	40.65	40.71	65.64	64.25	62.89	0.72	50.03	5.63	5.43
09/12/2022 17:00	2817.80	2740.73	0	0	40.61	40.72	40.77	65.99	64.62	63.43	0.72	50.06	5.69	5.46
09/12/2022 17:30	2643.61	2632.66	0	0	40.59	40.70	40.75	61.74	60.49	59.25	0.71	50.15	5.25	5.17
09/12/2022 18:00	2741.40	2799.89	0	0	40.83	40.94	41.00	64.37	63.05	61.72	0.71	50.04	5.49	5.43
09/12/2022 18:30	2711.90	2681.43	0	0	40.79	40.90	40.96	61.58	60.39	58.98	0.68	49.96	5.04	5.39
09/12/2022 19:00	2541.75	2710.86	0	0	40.79	40.90	40.96	61.33	60.18	58.73	0.69	50.06	5.09	5.31
09/12/2022 19:30	2621.76	2605.26	0	0	40.78	40.89	40.95	63.74	62.43	61.13	0.72	49.95	5.53	5.26
09/12/2022 20:00	2587.52	2575.27	0	0	40.83	40.94	41.01	58.41	57.22	55.77	0.70	50.01	4.91	4.98
09/12/2022 20:30	2560.38	2533.95	0	0	40.94	41.06	41.12	60.58	59.26	57.94	0.71	50.11	5.13	5.16
09/12/2022 21:00	2585.92	2605.97	0	0	40.93	41.04	41.11	61.16	59.94	58.39	0.70	49.98	5.15	5.23
09/12/2022 21:30	2507.22	2549.32	0	0	40.56	40.67	40.73	57.62	56.49	55.15	0.71	49.94	4.86	4.84
09/12/2022 22:00	2333.73	2358.64	0	0	40.56	40.67	40.74	55.42	54.30	53.03	0.71	50.06	4.67	4.66
09/12/2022 22:30	2408.37	2295.77	0	0	40.39	40.50	40.56	56.17	55.07	53.78	0.73	50.05	4.86	4.56
09/12/2022 23:00	2449.01	2271.79	0	0	40.19	40.30	40.37	56.88	55.86	54.73	0.74	49.99	4.96	4.55

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
09/12/2022 23:30	2302.58	2201.63	0	0	40.22	40.33	40.41	47.75	46.41	45.18	0.73	49.98	4.07	3.83
10/12/2022 00:00	1928.53	1850.10	0	0	40.17	40.27	40.34	44.21	42.99	41.68	0.71	49.96	3.67	3.63
10/12/2022 00:30	1909.32	1859.37	0	0	40.11	40.22	40.28	44.89	43.67	42.40	0.72	49.98	3.75	3.65
10/12/2022 01:00	1939.47	1843.62	0	0	39.99	40.09	40.16	43.27	42.08	40.86	0.71	49.92	3.58	3.53
10/12/2022 01:30	1767.47	1664.71	0	0	39.87	39.98	40.04	39.54	38.33	37.22	0.74	49.93	3.38	3.08
10/12/2022 02:00	1885.79	1793.65	0	0	39.96	40.07	40.13	48.55	47.53	46.18	0.71	49.95	4.02	4.00
10/12/2022 02:30	2311.01	2072.40	0	0	39.86	39.98	40.04	55.48	54.54	53.36	0.75	50.00	4.86	4.33
10/12/2022 03:00	2397.90	2147.10	0	0	39.98	40.11	40.16	56.60	55.58	54.30	0.75	50.00	4.98	4.41
10/12/2022 03:30	2633.88	2288.13	0	0	39.77	39.89	39.95	63.29	62.15	61.06	0.77	49.96	5.69	4.77
10/12/2022 04:00	2815.43	2368.91	0	0	39.82	39.94	40.00	62.51	61.30	60.31	0.77	49.96	5.64	4.70
10/12/2022 04:30	3184.04	2571.38	0	0	39.62	39.72	39.78	70.06	68.78	67.74	0.78	50.10	6.38	5.14
10/12/2022 05:00	3101.97	2417.08	0	0	39.53	39.63	39.69	69.38	67.95	67.03	0.79	50.01	6.42	4.91
10/12/2022 05:30	2901.05	2324.97	0	0	39.59	39.69	39.75	60.60	59.17	58.06	0.77	50.00	5.43	4.49
10/12/2022 06:00	2720.59	2263.72	0	0	39.58	39.68	39.74	59.33	58.00	56.85	0.77	49.98	5.29	4.42
10/12/2022 06:30	2598.58	2134.75	0	0	39.51	39.61	39.66	54.12	52.85	51.69	0.78	50.00	4.86	3.95
10/12/2022 07:00	2294.05	2039.47	0	0	39.71	39.80	39.87	56.94	55.55	54.47	0.76	50.02	5.01	4.33
10/12/2022 07:30	2374.73	2067.88	0	0	39.12	39.19	39.25	54.79	53.28	52.29	0.76	49.99	4.73	4.11
10/12/2022 08:00	2427.86	2083.69	0	0	40.07	40.13	40.20	55.21	53.55	52.40	0.74	50.05	4.76	4.34

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
10/12/2022 08:30	2497.75	2276.18	0	0	39.73	39.79	39.86	57.22	55.48	54.50	0.75	49.93	4.96	4.41
10/12/2022 09:00	2484.58	2155.67	0	0	39.53	39.58	39.66	56.68	54.95	54.02	0.74	49.98	4.85	4.39
10/12/2022 09:30	2559.88	2293.15	0	0	39.35	39.40	39.47	58.42	56.69	55.55	0.73	49.97	4.92	4.56
10/12/2022 10:00	2593.64	2323.27	0	0	39.67	39.72	39.79	59.37	57.52	56.62	0.75	50.00	5.13	4.58
10/12/2022 10:30	2424.46	2128.32	0	0	39.61	39.65	39.72	52.87	51.06	50.10	0.75	49.97	4.59	4.00
10/12/2022 11:00	2737.80	2341.62	0	0	39.48	39.53	39.60	74.11	72.13	71.63	0.76	50.02	6.56	5.57
10/12/2022 11:30	3244.29	2837.02	0	0	39.62	39.68	39.75	71.46	69.51	68.92	0.75	50.03	6.22	5.53
10/12/2022 12:00	3119.34	2905.75	0	0	39.88	39.95	40.01	75.28	73.40	72.51	0.72	50.01	6.38	6.10
10/12/2022 12:30	3288.59	3118.36	0	0	40.04	40.10	40.17	75.36	73.37	72.35	0.73	50.01	6.44	6.07
10/12/2022 13:00	3289.96	3038.00	0	0	39.76	39.81	39.88	75.02	72.90	72.12	0.74	49.97	6.47	5.89
10/12/2022 13:30	3257.27	2944.28	0	0	39.35	39.39	39.46	76.80	74.49	73.87	0.74	50.02	6.57	5.95
10/12/2022 14:00	3263.98	3011.84	0	0	39.50	39.54	39.60	75.74	73.61	72.80	0.73	50.01	6.38	6.02
10/12/2022 14:30	3340.18	3130.18	0	0	39.56	39.61	39.68	76.31	74.20	73.43	0.74	49.96	6.54	5.98
10/12/2022 15:00	3459.39	3351.57	0	0	39.60	39.65	39.73	85.95	83.79	83.08	0.73	50.06	7.28	6.88
10/12/2022 15:30	3307.68	3072.80	0	0	39.64	39.69	39.76	57.12	55.53	54.46	0.73	50.05	4.85	4.50
10/12/2022 16:00	2353.64	2151.81	0	0	39.80	39.85	39.92	56.98	55.18	54.10	0.73	49.96	4.79	4.55
10/12/2022 16:30	2640.01	2525.31	0	0	39.84	39.89	39.95	68.33	66.54	65.54	0.71	50.03	5.68	5.60
10/12/2022 17:00	3149.91	3086.75	0	0	39.90	39.97	40.03	87.42	85.58	84.74	0.73	50.01	7.46	7.08

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
10/12/2022 17:30	3986.62	3793.58	0	0	40.08	40.16	40.22	93.84	91.93	91.16	0.72	49.97	8.02	7.69
10/12/2022 18:00	3830.56	3733.18	0	0	40.41	40.49	40.55	87.81	86.24	85.34	0.71	50.03	7.46	7.37
10/12/2022 18:30	3651.04	3670.33	0	0	40.67	40.75	40.81	87.34	85.57	84.60	0.70	50.00	7.33	7.48
10/12/2022 19:00	3688.29	3622.21	0	0	40.38	40.46	40.52	87.92	86.23	85.44	0.72	50.01	7.55	7.28
10/12/2022 19:30	3748.67	3653.33	0	0	40.36	40.44	40.50	90.21	88.31	87.56	0.72	49.97	7.72	7.48
10/12/2022 20:00	3652.38	3627.48	0	0	40.40	40.48	40.54	87.10	85.37	84.43	0.71	49.99	7.32	7.36
10/12/2022 20:30	3875.78	3801.18	0	0	40.32	40.40	40.46	102.08	100.13	99.50	0.74	50.03	8.96	8.24
10/12/2022 21:00	4494.87	4123.58	0	0	40.22	40.31	40.37	103.24	101.37	100.63	0.75	49.98	9.19	8.16
10/12/2022 21:30	4437.68	3916.36	0	0	39.91	39.98	40.03	93.77	91.65	91.17	0.76	50.02	8.37	7.21
10/12/2022 22:00	4131.36	3665.66	0	0	39.83	39.92	39.97	101.18	99.32	98.49	0.74	50.02	8.79	8.05
10/12/2022 22:30	4635.04	4076.47	0	0	39.46	39.54	39.59	104.34	102.58	101.92	0.76	49.97	9.24	7.97
10/12/2022 23:00	4497.59	3991.90	0	0	39.57	39.66	39.71	99.09	97.43	96.51	0.74	50.05	8.58	7.82
10/12/2022 23:30	3921.23	3605.08	0	0	39.39	39.47	39.52	89.92	88.19	87.24	0.74	49.99	7.73	7.04
11/12/2022 00:00	3542.99	3375.11	0	0	39.30	39.38	39.44	83.83	82.20	81.33	0.72	49.95	7.04	6.72
11/12/2022 00:30	3631.73	3510.96	0	0	39.42	39.50	39.56	87.97	86.23	85.34	0.72	49.97	7.34	7.14
11/12/2022 01:00	3552.39	3521.43	0	0	39.45	39.52	39.58	87.69	85.99	85.15	0.71	49.96	7.23	7.22
11/12/2022 01:30	3698.77	3581.24	0	0	39.31	39.39	39.45	86.09	84.48	83.65	0.72	49.96	7.19	6.95
11/12/2022 02:00	3669.17	3529.62	0	0	39.40	39.49	39.54	87.82	86.17	85.21	0.72	50.08	7.36	7.09

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
11/12/2022 02:30	3659.31	3506.68	0	0	39.53	39.61	39.66	87.27	85.56	84.63	0.73	50.07	7.41	6.99
11/12/2022 03:00	3668.13	3443.86	0	0	39.19	39.28	39.33	87.89	86.31	85.53	0.74	50.00	7.49	6.90
11/12/2022 03:30	3719.03	3485.42	0	0	39.15	39.24	39.29	93.38	91.88	91.13	0.73	49.97	7.96	7.35
11/12/2022 04:00	4082.38	3749.06	0	0	39.37	39.46	39.51	100.24	98.55	97.68	0.74	50.02	8.68	7.82
11/12/2022 04:30	4498.53	4024.73	0	0	39.32	39.42	39.46	104.95	103.17	102.37	0.75	50.04	9.11	8.15
11/12/2022 05:00	4603.40	4027.33	0	0	39.27	39.37	39.41	107.84	106.13	105.34	0.75	50.04	9.45	8.27
11/12/2022 05:30	4756.82	4169.89	0	0	39.23	39.31	39.36	107.73	105.79	105.03	0.75	49.96	9.38	8.28
11/12/2022 06:00	4576.71	4051.79	0	0	39.27	39.35	39.40	98.31	96.54	95.58	0.74	50.11	8.45	7.67
11/12/2022 06:30	4166.61	3842.36	0	0	39.52	39.60	39.65	92.38	90.58	89.53	0.72	50.04	7.76	7.47
11/12/2022 07:00	3889.44	3694.05	0	0	39.65	39.73	39.79	91.64	89.85	88.79	0.72	50.07	7.77	7.39
11/12/2022 07:30	3745.68	3613.01	0	0	39.50	39.56	39.62	89.37	87.49	86.58	0.72	50.02	7.48	7.24
11/12/2022 08:00	3678.33	3472.49	0	0	39.13	39.18	39.24	87.09	85.14	84.52	0.73	49.98	7.34	6.86
11/12/2022 08:30	3651.86	3379.43	0	0	39.20	39.25	39.31	85.32	83.40	82.67	0.74	49.98	7.25	6.68
11/12/2022 09:00	3744.65	3420.96	0	0	39.20	39.24	39.31	89.41	87.62	86.87	0.74	50.06	7.61	7.01
11/12/2022 09:30	4091.84	3678.68	0	0	38.95	38.98	39.06	97.90	95.62	95.45	0.74	49.98	8.38	7.52
11/12/2022 10:00	4236.21	3724.07	0	0	38.91	38.94	39.00	107.75	105.16	104.94	0.75	50.04	9.24	8.22
11/12/2022 10:30	4791.96	4253.56	0	0	38.74	38.78	38.84	113.39	110.92	110.95	0.75	49.96	9.75	8.59
11/12/2022 11:00	5113.41	4573.37	0	0	38.91	38.96	39.02	125.05	122.55	122.53	0.75	49.99	10.75	9.61

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
11/12/2022 11:30	5199.62	4803.59	0	0	39.57	39.64	39.71	123.65	121.48	120.92	0.72	50.01	10.49	10.01
11/12/2022 12:00	5388.58	4977.03	0	0	39.97	40.05	40.12	124.99	122.93	122.46	0.74	50.09	10.91	10.04
11/12/2022 12:30	5433.15	5011.52	0	0	39.91	39.98	40.06	125.00	123.03	122.87	0.74	50.01	10.99	9.94
11/12/2022 13:00	5494.40	4959.31	0	0	39.50	39.56	39.64	120.15	117.85	117.69	0.73	49.97	10.23	9.65
11/12/2022 13:30	5050.12	4721.33	0	0	38.78	38.82	38.88	118.25	115.99	116.04	0.73	49.93	9.93	9.28
11/12/2022 14:00	4993.25	4643.71	0	0	38.85	38.90	38.97	119.37	116.90	117.02	0.73	49.97	10.05	9.36
11/12/2022 14:30	4955.31	4643.16	0	0	38.96	39.00	39.08	117.59	115.15	115.19	0.72	49.97	9.83	9.34
11/12/2022 15:00	4891.64	4661.11	0	0	39.02	39.06	39.13	116.38	113.83	113.69	0.71	49.95	9.58	9.41
11/12/2022 15:30	4702.12	4436.51	0	0	39.06	39.10	39.17	99.71	97.32	96.94	0.73	49.93	8.39	7.84
11/12/2022 16:00	4021.83	3780.43	0	0	39.33	39.38	39.44	90.64	88.50	87.99	0.73	50.03	7.67	7.18
11/12/2022 16:30	3871.77	3688.67	0	0	39.36	39.41	39.48	91.64	89.53	88.90	0.72	49.97	7.67	7.36
11/12/2022 17:00	3724.05	3598.18	0	0	39.61	39.68	39.73	86.93	84.99	84.13	0.70	50.02	7.13	7.22
11/12/2022 17:30	3981.95	3799.94	0	0	39.69	39.77	39.82	96.07	94.23	93.58	0.73	49.94	8.23	7.71
11/12/2022 18:00	4372.58	4006.22	0	0	40.00	40.08	40.14	105.36	103.32	102.68	0.74	49.99	9.23	8.38
11/12/2022 18:30	4485.70	4130.99	0	0	40.41	40.49	40.55	101.99	100.00	99.23	0.74	50.03	8.99	8.22
11/12/2022 19:00	4540.46	4159.59	0	0	40.51	40.59	40.66	103.21	101.31	100.65	0.73	49.99	9.04	8.45
11/12/2022 19:30	4304.88	4083.05	0	0	40.55	40.63	40.69	90.35	88.47	87.58	0.71	50.00	7.63	7.65
11/12/2022 20:00	3691.69	3799.72	0	0	40.67	40.74	40.81	88.28	86.28	85.36	0.70	50.01	7.42	7.53

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
11/12/2022 20:30	3899.14	3845.04	0	0	40.28	40.36	40.42	91.42	89.55	88.86	0.71	49.92	7.76	7.62
11/12/2022 21:00	3924.72	3799.65	0	0	40.14	40.23	40.30	91.25	89.57	88.94	0.72	50.01	7.81	7.52
11/12/2022 21:30	3950.26	3787.71	0	0	40.13	40.21	40.27	92.02	90.25	89.55	0.72	50.00	7.87	7.57
11/12/2022 22:00	3962.46	3791.59	0	0	39.72	39.81	39.86	95.25	93.54	92.85	0.73	50.01	8.12	7.71
11/12/2022 22:30	3798.09	3563.47	0	0	39.35	39.43	39.49	86.21	84.59	83.92	0.74	50.01	7.39	6.78
11/12/2022 23:00	4042.47	3617.55	0	0	39.37	39.45	39.52	93.83	92.19	91.65	0.74	50.00	8.15	7.31
11/12/2022 23:30	3954.52	3598.91	0	0	39.44	39.52	39.58	86.24	84.57	84.08	0.73	49.90	7.33	6.89
12/12/2022 00:00	3728.60	3448.03	0	0	39.44	39.52	39.57	85.43	83.83	83.15	0.74	50.09	7.34	6.74
12/12/2022 00:30	3613.85	3349.60	0	0	39.46	39.54	39.60	84.60	82.92	82.31	0.73	49.95	7.23	6.72
12/12/2022 01:00	3828.72	3540.10	0	0	39.44	39.52	39.58	88.34	86.65	86.04	0.73	50.07	7.56	7.00
12/12/2022 01:30	4194.59	3790.60	0	0	39.17	39.24	39.31	107.03	105.20	104.75	0.75	50.00	9.31	8.24
12/12/2022 02:00	4536.67	4019.09	0	0	39.37	39.45	39.52	104.76	102.92	102.37	0.75	49.98	9.15	8.10
12/12/2022 02:30	4534.11	4002.43	0	0	39.31	39.40	39.47	104.18	102.47	101.88	0.75	49.96	9.10	8.04
12/12/2022 03:00	4616.60	4035.26	0	0	39.52	39.61	39.67	106.16	104.36	103.68	0.75	49.99	9.27	8.28
12/12/2022 03:30	4797.57	4272.22	0	0	39.46	39.55	39.61	110.91	109.09	108.47	0.74	50.00	9.63	8.70
12/12/2022 04:00	4854.30	4239.93	0	0	39.36	39.45	39.51	110.16	108.36	107.72	0.75	49.96	9.70	8.44
12/12/2022 04:30	4883.46	4399.81	0	0	39.75	39.84	39.89	113.93	112.02	111.25	0.74	50.01	9.96	8.99
12/12/2022 05:00	4937.72	4428.19	0	0	39.77	39.87	39.91	108.80	107.08	106.28	0.74	50.00	9.54	8.58

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
12/12/2022 05:30	4398.15	4039.73	0	0	39.75	39.83	39.89	97.68	95.79	95.21	0.73	50.03	8.39	7.85
12/12/2022 06:00	4164.94	3913.37	0	0	39.78	39.86	39.92	94.90	93.17	92.37	0.72	50.02	8.09	7.70
12/12/2022 06:30	4043.68	3801.42	0	0	39.93	40.01	40.07	94.15	92.47	91.56	0.72	50.06	8.05	7.66
12/12/2022 07:00	3867.72	3723.94	0	0	39.94	40.02	40.09	90.16	88.38	87.56	0.72	50.02	7.68	7.36
12/12/2022 07:30	3838.18	3630.12	0	0	39.91	39.98	40.04	88.38	86.65	85.62	0.73	50.10	7.57	7.14
12/12/2022 08:00	3718.63	3483.88	0	0	39.68	39.74	39.81	89.29	87.52	86.71	0.73	49.98	7.62	7.17
12/12/2022 08:30	3834.04	3504.36	0	0	39.16	39.21	39.28	93.41	91.37	90.78	0.75	49.97	8.05	7.19
12/12/2022 09:00	4190.72	3729.30	0	0	39.06	39.11	39.17	99.60	97.54	97.06	0.75	49.98	8.66	7.57
12/12/2022 09:30	4779.69	4072.33	0	0	38.71	38.76	38.82	119.76	117.27	117.17	0.77	49.96	10.57	8.75
12/12/2022 10:00	5584.07	4914.96	0	0	39.00	39.04	39.11	132.03	129.34	129.27	0.75	49.99	11.45	10.07
12/12/2022 10:30	5722.81	5045.72	0	0	38.86	38.90	38.96	133.22	130.63	130.64	0.75	49.93	11.57	10.08
12/12/2022 11:00	5625.24	4960.30	0	0	39.11	39.16	39.23	129.82	127.38	127.24	0.75	49.93	11.25	10.00
12/12/2022 11:30	5592.95	5031.09	0	0	39.24	39.29	39.36	129.80	127.38	127.07	0.74	49.99	11.16	10.16
12/12/2022 12:00	5527.84	5125.70	0	0	39.59	39.66	39.72	130.60	128.23	127.67	0.73	50.02	11.15	10.50
12/12/2022 12:30	5393.61	5058.94	0	0	39.63	39.71	39.76	120.49	118.36	117.73	0.73	49.95	10.26	9.74
12/12/2022 13:00	5049.99	4782.38	0	0	39.48	39.55	39.60	112.25	110.00	109.52	0.73	50.05	9.62	8.91
12/12/2022 13:30	4377.88	4003.80	0	0	39.30	39.35	39.42	97.15	95.04	94.57	0.73	50.05	8.26	7.68
12/12/2022 14:00	4133.84	3894.06	0	0	39.49	39.54	39.61	96.26	94.04	93.40	0.73	50.04	8.13	7.71

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
12/12/2022 14:30	4023.64	3792.78	0	0	39.47	39.53	39.59	94.94	92.82	92.23	0.72	50.03	7.99	7.64
12/12/2022 15:00	3997.70	3812.44	0	0	39.56	39.62	39.69	95.86	93.96	93.16	0.72	49.99	8.10	7.73
12/12/2022 15:30	4017.68	3841.67	0	0	39.62	39.67	39.74	94.27	92.24	91.50	0.73	50.03	8.00	7.57
12/12/2022 16:00	3860.99	3698.02	0	0	39.85	39.91	39.98	90.90	89.05	88.22	0.73	50.05	7.78	7.34
12/12/2022 16:30	3875.66	3693.12	0	0	39.74	39.81	39.87	90.93	89.21	88.34	0.72	49.89	7.70	7.39
12/12/2022 17:00	4306.96	3985.25	0	0	39.87	39.94	40.01	100.23	98.43	97.87	0.73	49.97	8.66	8.06
12/12/2022 17:30	4523.78	4137.23	0	0	40.23	40.30	40.37	104.13	102.15	101.56	0.73	50.00	9.10	8.42
12/12/2022 18:00	4186.84	3837.49	0	0	40.47	40.54	40.62	86.54	84.69	83.88	0.75	50.03	7.77	6.81
12/12/2022 18:30	3739.82	3265.01	0	0	40.52	40.59	40.67	80.60	78.70	77.75	0.75	49.97	7.21	6.35
12/12/2022 19:00	3542.89	3095.92	0	0	40.66	40.72	40.81	79.38	77.41	76.49	0.76	49.98	7.17	6.22
12/12/2022 19:30	3358.83	2988.68	0	0	40.79	40.85	40.94	70.89	69.27	68.15	0.74	50.00	6.30	5.70
12/12/2022 20:00	2972.90	2745.23	0	0	40.80	40.86	40.96	63.70	62.17	61.09	0.73	50.01	5.54	5.24
12/12/2022 20:30	2840.51	2737.63	0	0	40.85	40.91	41.01	68.77	67.11	66.07	0.72	50.00	5.97	5.69
12/12/2022 21:00	2876.28	2860.27	0	0	40.85	40.92	41.02	70.57	69.08	67.96	0.72	50.01	6.09	5.91
12/12/2022 21:30	3030.20	2989.71	0	0	40.72	40.80	40.89	71.41	70.07	68.90	0.71	50.05	6.07	6.05
12/12/2022 22:00	3137.81	3101.72	0	0	40.70	40.78	40.88	72.98	71.64	70.48	0.72	50.04	6.27	6.12
12/12/2022 22:30	3160.84	3064.37	0	0	40.43	40.51	40.60	75.29	73.96	72.95	0.73	50.03	6.54	6.17
12/12/2022 23:00	3114.99	2955.46	0	0	40.49	40.58	40.66	69.49	68.12	67.03	0.72	49.98	5.96	5.77

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
12/12/2022 23:30	3109.92	2913.92	0	0	40.39	40.47	40.55	71.01	69.71	68.65	0.73	50.03	6.17	5.80
13/12/2022 00:00	3087.67	2943.74	0	0	40.38	40.47	40.54	73.10	71.81	70.75	0.73	49.96	6.38	5.94
13/12/2022 00:30	3079.44	2999.58	0	0	40.34	40.43	40.51	73.67	72.34	71.16	0.71	49.97	6.25	6.15
13/12/2022 01:00	3046.25	3016.09	0	0	40.38	40.46	40.55	72.97	71.68	70.51	0.71	50.00	6.18	6.12
13/12/2022 01:30	3050.03	3029.79	0	0	40.31	40.39	40.48	71.64	70.30	69.27	0.72	49.99	6.13	5.91
13/12/2022 02:00	3235.36	3189.03	0	0	40.28	40.37	40.45	79.50	78.09	77.11	0.71	49.98	6.73	6.65
13/12/2022 02:30	3589.91	3481.69	0	0	40.18	40.27	40.35	84.00	82.70	81.76	0.71	50.02	7.10	7.03
13/12/2022 03:00	3732.40	3588.59	0	0	40.22	40.33	40.40	87.05	85.76	84.70	0.73	49.97	7.56	7.10
13/12/2022 03:30	3933.57	3699.73	0	0	40.31	40.41	40.48	97.96	96.56	95.65	0.74	50.03	8.65	7.89
13/12/2022 04:00	4451.45	4042.28	0	0	40.21	40.32	40.38	102.42	101.07	100.08	0.74	49.99	9.07	8.20
13/12/2022 04:30	4589.18	4088.39	0	0	40.36	40.46	40.53	100.99	99.54	98.56	0.74	49.96	8.93	8.15
13/12/2022 05:00	4655.46	4188.70	0	0	40.24	40.34	40.40	104.89	103.39	102.55	0.74	49.94	9.29	8.40
13/12/2022 05:30	4497.54	4037.96	0	0	40.24	40.34	40.41	105.61	104.01	103.19	0.74	49.95	9.31	8.50
13/12/2022 06:00	4689.58	4205.32	0	0	40.32	40.42	40.49	106.09	104.56	103.71	0.75	50.03	9.51	8.41
13/12/2022 06:30	4590.07	4141.13	0	0	40.29	40.40	40.46	99.05	97.69	96.63	0.73	50.01	8.66	8.07
13/12/2022 07:00	4207.39	3899.14	0	0	40.32	40.43	40.50	88.44	87.10	86.02	0.73	50.05	7.69	7.23
13/12/2022 07:30	3837.68	3724.42	0	0	40.51	40.60	40.69	88.54	87.17	86.09	0.71	50.01	7.56	7.45
13/12/2022 08:00	3729.76	3666.15	0	0	41.03	40.99	40.89	86.78	85.69	84.61	0.71	50.03	7.50	7.37

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
13/12/2022 08:30	3810.46	3701.80	0	0	40.47	40.56	40.64	90.20	88.85	88.12	0.72	50.00	7.84	7.46
13/12/2022 09:00	3621.58	3528.38	0	0	40.42	40.51	40.60	80.88	79.49	78.64	0.70	49.98	6.72	6.95
13/12/2022 09:30	3287.07	3327.74	0	0	40.43	40.51	40.61	80.91	79.40	78.63	0.71	49.94	6.82	6.86
13/12/2022 10:00	4024.41	3820.70	0	0	40.25	40.33	40.42	94.76	93.17	92.42	0.73	49.96	8.19	7.78
13/12/2022 10:30	4470.84	4142.33	0	0	40.39	40.47	40.56	102.20	100.52	99.75	0.73	50.02	8.94	8.34
13/12/2022 11:00	4577.23	4215.73	0	0	40.54	40.63	40.71	105.04	103.26	102.49	0.74	50.04	9.30	8.51
13/12/2022 11:30	4667.62	4292.79	0	0	40.60	40.68	40.77	105.93	104.22	103.54	0.74	50.09	9.44	8.56
13/12/2022 12:00	4739.79	4345.56	0	0	40.96	41.05	41.13	107.08	105.38	104.60	0.74	50.05	9.66	8.70
13/12/2022 12:30	4737.60	4344.47	0	0	41.02	41.11	41.19	104.30	102.61	101.75	0.72	50.01	9.18	8.74
13/12/2022 13:00	4460.00	4238.61	0	0	40.88	40.96	41.05	100.52	98.73	98.04	0.72	49.96	8.81	8.38
13/12/2022 13:30	4302.57	4175.68	0	0	40.78	40.86	40.94	92.13	90.46	89.72	0.71	50.01	7.92	7.79
13/12/2022 14:00	3899.03	3881.55	0	0	40.83	40.91	40.99	90.92	89.30	88.46	0.71	50.11	7.75	7.77
13/12/2022 14:30	3701.36	3798.25	0	0	41.36	41.31	41.21	82.98	81.79	80.51	0.69	50.04	6.98	7.31
13/12/2022 15:00	3545.80	3540.95	0	0	40.98	41.07	41.15	82.82	81.57	80.62	0.71	50.02	7.09	7.12
13/12/2022 15:30	3512.37	3522.18	0	0	40.97	41.06	41.14	79.33	78.01	77.15	0.71	49.94	6.79	6.80
13/12/2022 16:00	3447.43	3432.84	0	0	40.94	41.04	41.11	81.98	80.61	79.77	0.71	50.00	7.02	7.03
13/12/2022 16:30	3742.68	3709.19	0	0	40.87	40.96	41.03	91.94	90.49	89.55	0.71	49.97	7.86	7.87
13/12/2022 17:00	4241.21	4110.15	0	0	40.77	40.88	40.93	100.08	98.66	97.73	0.73	50.00	8.86	8.25

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
13/12/2022 17:30	4359.84	4039.95	0	0	41.03	41.14	41.19	101.94	100.57	99.55	0.73	50.03	9.12	8.42
13/12/2022 18:00	4575.22	4210.34	0	0	40.95	41.06	41.11	103.84	102.45	101.48	0.74	50.00	9.30	8.53
13/12/2022 18:30	4578.23	4112.58	0	0	40.69	40.79	40.84	103.44	102.05	101.24	0.74	50.01	9.24	8.41
13/12/2022 19:00	4579.58	4185.24	0	0	40.86	40.97	41.02	102.44	100.94	99.97	0.73	50.01	9.12	8.42
13/12/2022 19:30	4562.23	4230.33	0	0	40.88	40.98	41.04	103.63	102.14	101.22	0.74	50.02	9.24	8.51
13/12/2022 20:00	4656.09	4177.76	0	0	40.42	40.52	40.57	102.83	101.39	100.64	0.75	49.99	9.20	8.23
13/12/2022 20:30	4652.04	4226.47	0	0	40.33	40.43	40.48	102.36	100.77	99.71	0.73	49.96	8.92	8.36
13/12/2022 21:00	4225.01	4064.56	0	0	40.33	40.42	40.48	92.08	90.60	89.60	0.71	49.97	7.81	7.73
13/12/2022 21:30	4002.22	3879.13	0	0	40.33	40.43	40.49	92.89	91.52	90.65	0.72	50.04	8.00	7.70
13/12/2022 22:00	4014.54	3878.63	0	0	40.29	40.39	40.46	93.16	91.82	90.93	0.72	49.97	8.00	7.74
13/12/2022 22:30	4048.72	3889.94	0	0	40.22	40.33	40.39	93.11	91.82	91.07	0.72	49.99	7.99	7.73
13/12/2022 23:00	3957.61	3785.67	0	0	40.17	40.27	40.34	89.54	88.42	87.43	0.72	49.97	7.72	7.37
13/12/2022 23:30	3867.59	3685.61	0	0	40.07	40.17	40.24	91.35	90.14	89.27	0.73	49.96	7.91	7.44
14/12/2022 00:00	3887.23	3694.91	0	0	40.12	40.22	40.28	86.10	84.89	83.84	0.72	50.04	7.37	7.10
14/12/2022 00:30	3877.90	3629.28	0	0	39.96	40.06	40.12	90.83	89.64	88.73	0.73	50.00	7.89	7.34
14/12/2022 01:00	4154.45	3821.20	0	0	39.92	40.02	40.08	99.11	97.83	97.10	0.75	49.98	8.87	7.71
14/12/2022 01:30	4504.99	4080.19	0	0	40.01	40.10	40.17	104.39	103.06	102.28	0.74	50.08	9.22	8.30
14/12/2022 02:00	4520.68	4096.69	0	0	39.91	40.02	40.08	104.19	102.90	102.08	0.75	50.01	9.21	8.24

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
14/12/2022 02:30	4544.40	4084.35	0	0	39.96	40.06	40.13	104.84	103.52	102.79	0.75	50.04	9.34	8.23
14/12/2022 03:00	4567.17	4056.04	0	0	39.89	39.98	40.04	100.69	99.32	98.45	0.75	50.03	8.92	7.91
14/12/2022 03:30	4223.97	3884.48	0	0	39.92	40.02	40.08	92.83	91.59	90.60	0.73	50.00	8.03	7.51
14/12/2022 04:00	3776.46	3629.08	0	0	39.83	39.94	40.00	84.74	83.57	82.53	0.71	50.02	7.14	7.01
14/12/2022 04:30	3709.77	3547.25	0	0	39.91	40.02	40.07	87.01	85.77	84.59	0.72	49.97	7.40	7.14
14/12/2022 05:00	3908.66	3732.20	0	0	39.64	39.74	39.79	91.26	90.00	89.02	0.73	50.07	7.84	7.32
14/12/2022 05:30	3956.67	3759.98	0	0	40.04	40.15	40.21	95.16	93.77	92.68	0.72	49.99	8.09	7.87
14/12/2022 06:00	4159.83	4002.38	0	0	40.42	40.53	40.59	98.00	96.67	95.61	0.72	50.06	8.46	8.15
14/12/2022 06:30	4084.93	4001.63	0	0	40.44	40.54	40.61	96.55	95.10	94.10	0.72	49.98	8.32	8.03
14/12/2022 07:00	4085.59	3946.37	0	0	40.31	40.40	40.47	97.06	95.46	94.71	0.72	49.99	8.38	8.01
14/12/2022 07:30	4279.03	4017.47	0	0	40.27	40.33	40.42	99.22	97.33	96.86	0.74	49.94	8.78	7.92
14/12/2022 08:00	4320.54	3877.48	0	0	39.86	39.91	39.99	97.34	95.46	94.99	0.75	50.00	8.62	7.58
14/12/2022 08:30	4286.79	3734.34	0	0	39.58	39.62	39.71	92.71	90.51	90.17	0.75	50.01	8.13	7.15
14/12/2022 09:00	4374.71	3827.24	0	0	39.63	39.66	39.75	109.19	106.77	106.78	0.76	50.05	9.77	8.27
14/12/2022 09:30	5125.40	4688.61	0	0	39.55	39.59	39.68	129.20	126.61	126.66	0.73	50.02	11.09	10.31
14/12/2022 10:00	5493.40	4997.61	0	0	39.59	39.63	39.72	125.79	123.29	123.35	0.74	49.98	10.86	9.99
14/12/2022 10:30	5332.99	4886.15	0	0	39.60	39.64	39.72	123.54	120.90	120.92	0.74	50.03	10.65	9.81
14/12/2022 11:00	5099.16	4834.43	0	0	39.65	39.69	39.78	114.19	111.85	111.47	0.72	50.02	9.65	9.28

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
14/12/2022 11:30	4775.00	4594.40	0	0	39.79	39.83	39.93	110.14	107.90	107.52	0.71	50.03	9.18	9.15
14/12/2022 12:00	4526.62	4501.56	0	0	40.08	40.14	40.23	101.90	99.92	99.40	0.72	50.00	8.66	8.42
14/12/2022 12:30	4444.17	4339.55	0	0	40.10	40.17	40.24	106.81	104.69	104.23	0.72	50.06	9.12	8.81
14/12/2022 13:00	4507.19	4322.54	0	0	39.81	39.86	39.94	108.29	106.00	105.82	0.73	49.96	9.36	8.66
14/12/2022 13:30	4935.33	4512.09	0	0	39.29	39.33	39.42	117.27	114.78	114.87	0.74	50.01	10.07	9.20
14/12/2022 14:00	5420.84	4978.25	0	0	39.33	39.37	39.45	125.01	122.43	122.31	0.73	50.05	10.69	9.88
14/12/2022 14:30	5381.49	4950.58	0	0	39.28	39.33	39.40	129.39	126.87	126.71	0.74	50.00	11.11	10.17
14/12/2022 15:00	5300.56	4786.16	0	0	39.38	39.43	39.51	120.88	118.30	118.16	0.73	49.97	10.33	9.57
14/12/2022 15:30	5437.56	4982.62	0	0	39.39	39.43	39.52	129.81	127.25	127.27	0.74	49.97	11.15	10.26
14/12/2022 16:00	5518.92	5108.83	0	0	39.65	39.69	39.77	115.05	112.85	112.62	0.73	50.01	9.88	9.21
14/12/2022 16:30	4901.94	4483.36	0	0	39.87	39.91	40.00	114.00	111.73	111.45	0.73	49.92	9.87	9.15
14/12/2022 17:00	4721.14	4431.28	0	0	39.98	40.03	40.11	105.45	103.50	103.15	0.72	49.96	8.99	8.66
14/12/2022 17:30	4678.69	4376.17	0	0	40.23	40.28	40.36	111.56	109.26	109.12	0.73	50.00	9.73	9.04
14/12/2022 18:00	4588.97	4397.48	0	0	40.62	40.68	40.76	106.80	104.76	104.34	0.69	50.09	8.92	9.24
14/12/2022 18:30	4498.43	4486.89	0	0	40.43	40.49	40.57	100.07	98.04	97.61	0.71	50.00	8.46	8.47
14/12/2022 19:00	3866.95	3998.82	0	0	40.64	40.70	40.78	79.52	77.75	76.76	0.68	49.98	6.45	6.99
14/12/2022 19:30	3378.33	3477.60	0	0	40.47	40.53	40.61	83.73	81.87	81.12	0.69	50.00	6.93	7.19
14/12/2022 20:00	3733.16	3674.64	0	0	40.17	40.22	40.30	94.63	92.73	92.39	0.73	50.04	8.23	7.67

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
14/12/2022 20:30	4453.71	4097.08	0	0	40.10	40.17	40.25	112.87	110.71	110.42	0.74	50.01	9.96	8.98
14/12/2022 21:00	5373.94	4864.55	0	0	39.88	39.95	40.02	125.69	123.73	123.40	0.74	50.05	11.04	9.99
14/12/2022 21:30	5547.54	5000.63	0	0	39.76	39.83	39.89	123.82	121.96	121.65	0.75	50.07	10.90	9.75
14/12/2022 22:00	5454.52	4941.98	0	0	39.47	39.54	39.60	126.78	124.93	124.37	0.74	50.06	11.01	9.98
14/12/2022 22:30	5397.18	4834.73	0	0	39.12	39.19	39.25	125.32	123.50	122.88	0.74	50.07	10.77	9.79
14/12/2022 23:00	5396.47	4862.54	0	0	38.97	39.05	39.11	126.85	125.12	124.59	0.75	50.04	10.97	9.77
14/12/2022 23:30	5421.76	4841.83	0	0	38.91	38.99	39.05	123.85	122.19	121.65	0.75	49.95	10.71	9.52
15/12/2022 00:00	5173.89	4716.83	0	0	39.08	39.16	39.23	115.94	114.37	113.66	0.73	50.06	9.86	9.16
15/12/2022 00:30	4743.76	4488.11	0	0	38.95	39.04	39.10	107.31	105.75	105.06	0.72	50.00	8.96	8.58
15/12/2022 01:00	4438.17	4346.52	0	0	39.09	39.17	39.23	109.62	107.86	107.27	0.72	50.02	9.12	8.85
15/12/2022 01:30	4633.18	4438.55	0	0	38.93	39.01	39.08	112.66	111.03	110.54	0.72	50.02	9.44	8.98
15/12/2022 02:00	4657.94	4453.27	0	0	38.97	39.06	39.12	113.62	112.02	111.37	0.73	50.00	9.58	9.01
15/12/2022 02:30	4839.53	4567.05	0	0	38.97	39.05	39.11	118.89	117.22	116.71	0.73	49.96	10.07	9.39
15/12/2022 03:00	5299.43	4855.92	0	0	39.05	39.13	39.20	128.03	126.37	125.87	0.74	50.02	10.99	10.02
15/12/2022 03:30	5487.73	5005.97	0	0	39.08	39.17	39.23	128.90	127.24	126.67	0.75	49.99	11.17	9.98
15/12/2022 04:00	5686.85	5086.77	0	0	39.10	39.18	39.25	132.45	130.71	130.29	0.74	49.94	11.43	10.32
15/12/2022 04:30	5509.75	5093.05	0	0	39.00	39.08	39.14	123.95	122.39	121.64	0.73	50.03	10.47	9.85
15/12/2022 05:00	4856.28	4416.39	0	0	39.04	39.13	39.19	103.86	102.38	101.38	0.74	50.08	8.94	8.04

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
15/12/2022 05:30	4311.36	3922.38	0	0	39.09	39.16	39.24	102.38	100.65	99.96	0.74	50.06	8.75	8.01
15/12/2022 06:00	4128.09	3847.20	0	0	39.48	39.58	39.63	92.51	91.17	89.97	0.72	50.10	7.74	7.55
15/12/2022 06:30	4375.40	4039.75	0	0	39.02	39.11	39.17	119.60	117.92	117.06	0.72	50.00	10.03	9.56
15/12/2022 07:00	5262.86	4789.45	0	0	39.54	39.61	39.69	108.04	106.07	105.40	0.75	49.94	9.52	8.33
15/12/2022 07:30	4613.57	4087.22	0	0	39.68	39.73	39.81	104.36	102.43	101.73	0.74	50.08	9.04	8.27
15/12/2022 08:00	4537.98	4122.19	0	0	39.63	39.68	39.76	103.00	101.00	100.32	0.74	50.02	8.96	8.08
15/12/2022 08:30	4455.06	4017.43	0	0	39.26	39.31	39.38	103.74	101.60	101.19	0.75	49.99	9.00	8.01
15/12/2022 09:00	4477.11	3968.04	0	0	38.96	39.00	39.08	105.97	103.77	103.40	0.75	50.00	9.19	8.04
15/12/2022 09:30	4577.63	4005.84	0	0	39.15	39.19	39.26	102.19	100.05	99.47	0.75	50.08	8.90	7.78
15/12/2022 10:00	4666.60	4166.80	0	0	39.28	39.32	39.40	114.88	112.38	112.22	0.74	50.01	9.89	8.96
15/12/2022 10:30	4993.75	4607.95	0	0	38.99	39.04	39.11	120.19	117.70	117.47	0.74	49.99	10.22	9.37
15/12/2022 11:00	4929.17	4659.18	0	0	39.17	39.22	39.30	114.59	112.21	111.95	0.72	49.95	9.50	9.28
15/12/2022 11:30	4896.34	4629.59	0	0	39.15	39.19	39.28	119.38	116.97	116.96	0.73	49.95	10.11	9.46
15/12/2022 12:00	4947.81	4752.82	0	0	39.57	39.63	39.71	112.97	110.88	110.49	0.72	50.05	9.55	9.18
15/12/2022 12:30	4851.30	4701.59	0	0	39.63	39.69	39.77	114.83	112.63	112.29	0.72	49.97	9.69	9.37
15/12/2022 13:00	5310.26	4891.58	0	0	39.55	39.59	39.67	126.80	124.40	124.15	0.74	50.02	11.01	9.98
15/12/2022 13:30	5607.19	4992.25	0	0	38.92	38.95	39.04	127.77	125.09	125.30	0.74	49.99	10.95	9.85
15/12/2022 14:00	5611.64	4978.69	0	0	38.95	38.97	39.07	130.28	127.65	127.92	0.75	49.98	11.33	9.89

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
15/12/2022 14:30	5712.87	5172.30	0	0	38.92	38.95	39.05	131.12	128.54	128.51	0.74	50.03	11.14	10.22
15/12/2022 15:00	5629.43	5152.66	0	0	39.16	39.20	39.29	128.71	126.12	126.29	0.74	50.00	10.98	10.12
15/12/2022 15:30	5510.75	5036.94	0	0	39.21	39.25	39.35	123.29	121.01	121.01	0.73	49.95	10.46	9.80
15/12/2022 16:00	4883.23	4702.84	0	0	39.54	39.59	39.68	113.20	110.84	110.65	0.71	49.97	9.40	9.33
15/12/2022 16:30	4651.72	4657.48	0	0	39.45	39.50	39.58	118.92	116.77	116.36	0.71	49.99	9.86	9.80
15/12/2022 17:00	4925.57	4860.91	0	0	39.81	39.87	39.95	116.52	114.45	113.99	0.71	50.02	9.74	9.70
15/12/2022 17:30	4907.50	4907.61	0	0	39.91	39.98	40.05	118.27	116.33	115.73	0.71	50.00	9.92	9.87
15/12/2022 18:00	4827.91	4763.47	0	0	40.50	40.56	40.64	102.31	100.47	99.95	0.72	50.00	8.89	8.46
15/12/2022 18:30	4474.80	4213.48	0	0	40.47	40.54	40.61	103.96	102.11	101.46	0.72	50.01	9.02	8.59
15/12/2022 19:00	4653.35	4362.25	0	0	40.38	40.45	40.53	114.02	112.08	111.81	0.75	50.04	10.18	9.11
15/12/2022 19:30	5556.00	5121.83	0	0	40.42	40.48	40.55	130.90	128.85	128.36	0.73	50.04	11.50	10.69
15/12/2022 20:00	5708.04	5334.46	0	0	40.43	40.50	40.58	128.53	126.46	126.00	0.73	50.05	11.27	10.52
15/12/2022 20:30	5498.82	5134.17	0	0	40.08	40.15	40.22	127.05	124.99	124.79	0.74	50.05	11.16	10.20
15/12/2022 21:00	5555.95	5087.86	0	0	39.54	39.61	39.69	125.19	123.28	122.93	0.74	50.00	10.89	9.88
15/12/2022 21:30	5279.84	4802.22	0	0	39.09	39.16	39.23	125.20	123.39	122.82	0.74	50.05	10.76	9.77
15/12/2022 22:00	5379.71	4896.69	0	0	39.16	39.23	39.31	118.70	116.91	116.65	0.74	49.90	10.18	9.33
15/12/2022 22:30	4994.29	4605.80	0	0	38.75	38.83	38.89	114.79	113.15	112.49	0.73	49.96	9.63	9.04
15/12/2022 23:00	4601.10	4368.13	0	0	38.93	39.01	39.07	102.71	101.17	100.37	0.72	49.97	8.52	8.24

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
15/12/2022 23:30	3895.23	3598.92	0	0	38.67	38.75	38.80	90.87	89.37	88.58	0.74	50.04	7.72	6.98
16/12/2022 00:00	3878.39	3579.69	0	0	38.91	38.99	39.04	95.08	93.53	92.58	0.74	50.03	8.08	7.39
16/12/2022 00:30	4836.37	4366.54	0	0	38.68	38.77	38.82	124.05	122.30	121.62	0.74	50.04	10.60	9.53
16/12/2022 01:00	5293.30	4793.51	0	0	38.60	38.69	38.74	125.51	123.82	123.10	0.74	49.93	10.69	9.64
16/12/2022 01:30	5376.56	4888.67	0	0	38.73	38.81	38.87	125.58	123.91	123.16	0.74	50.03	10.73	9.69
16/12/2022 02:00	5329.68	4887.74	0	0	38.81	38.89	38.95	126.09	124.33	123.56	0.74	50.05	10.80	9.72
16/12/2022 02:30	5312.31	4787.59	0	0	38.87	38.96	39.02	122.13	120.48	119.55	0.74	50.04	10.44	9.48
16/12/2022 03:00	5128.07	4614.61	0	0	39.02	39.10	39.16	118.31	116.76	115.99	0.75	50.03	10.26	9.10
16/12/2022 03:30	4750.60	4381.11	0	0	39.08	39.17	39.23	106.62	105.03	104.18	0.73	50.06	8.96	8.51
16/12/2022 04:00	3825.78	3691.69	0	0	39.24	39.33	39.39	74.36	72.86	71.96	0.73	49.99	6.28	5.88
16/12/2022 04:30	3225.44	3017.65	0	0	38.99	39.08	39.13	75.40	74.01	73.17	0.72	49.99	6.23	6.05
16/12/2022 05:00	3164.94	3050.67	0	0	39.38	39.46	39.52	75.98	74.44	73.49	0.72	49.96	6.36	6.11
16/12/2022 05:30	3701.45	3509.47	0	0	39.23	39.31	39.38	94.40	92.77	92.08	0.72	50.05	7.89	7.62
16/12/2022 06:00	4086.66	3913.42	0	0	39.12	39.21	39.27	103.22	101.48	100.87	0.75	50.02	8.92	7.98
16/12/2022 06:30	4137.45	3891.61	0	0	39.14	39.22	39.29	97.40	95.71	95.07	0.73	49.97	8.26	7.70
16/12/2022 07:00	4093.96	3898.64	0	0	39.51	39.59	39.66	98.50	96.73	96.10	0.72	50.02	8.30	8.00
16/12/2022 07:30	4524.90	4218.79	0	0	39.29	39.36	39.43	113.22	111.28	110.84	0.73	49.88	9.67	8.97
16/12/2022 08:00	5038.68	4570.96	0	0	39.22	39.28	39.35	117.50	115.35	114.97	0.74	50.08	10.17	9.11

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
16/12/2022 08:30	5183.43	4721.71	0	0	39.39	39.45	39.52	120.76	118.40	118.04	0.74	50.04	10.42	9.48
16/12/2022 09:00	5267.02	4813.44	0	0	39.43	39.48	39.55	123.41	120.89	120.61	0.74	50.06	10.64	9.71
16/12/2022 09:30	5436.83	4863.63	0	0	39.16	39.20	39.27	124.48	122.00	121.85	0.75	50.08	10.82	9.55
16/12/2022 10:00	5436.00	4871.61	0	0	39.32	39.37	39.44	124.32	121.93	121.53	0.74	50.06	10.74	9.70
16/12/2022 10:30	5369.60	4898.43	0	0	39.34	39.40	39.46	124.44	121.98	121.59	0.74	49.94	10.68	9.80
16/12/2022 11:00	5232.80	4847.20	0	0	39.56	39.61	39.68	105.54	103.52	102.77	0.74	50.03	9.19	8.24
16/12/2022 11:30	4107.16	3850.68	0	0	39.70	39.77	39.84	94.85	93.00	92.13	0.72	50.05	8.00	7.73
16/12/2022 12:00	3964.54	3768.02	0	0	40.02	40.09	40.16	93.36	91.69	90.73	0.72	50.05	7.99	7.62
16/12/2022 12:30	3920.22	3803.17	0	0	40.13	40.20	40.27	91.16	89.38	88.43	0.72	50.03	7.72	7.55
16/12/2022 13:00	3827.61	3697.76	0	0	39.83	39.88	39.96	87.11	85.32	84.55	0.72	50.03	7.37	7.11
16/12/2022 13:30	3875.91	3621.71	0	0	39.12	39.16	39.24	91.78	89.87	89.38	0.74	50.02	7.80	7.19
16/12/2022 14:00	3846.93	3626.59	0	0	39.04	39.09	39.16	96.89	95.00	94.49	0.73	49.97	8.20	7.61
16/12/2022 14:30	4270.72	3854.49	0	0	39.11	39.16	39.24	103.48	101.38	100.93	0.75	50.00	9.00	7.89
16/12/2022 15:00	4559.35	3959.14	0	0	39.27	39.32	39.40	105.17	103.05	102.51	0.76	49.97	9.23	8.00
16/12/2022 15:30	4601.77	4000.89	0	0	39.34	39.39	39.47	103.98	101.91	101.43	0.76	49.95	9.17	7.89
16/12/2022 16:00	4566.58	3993.59	0	0	39.73	39.79	39.86	104.65	102.68	101.90	0.75	50.02	9.19	8.17
16/12/2022 16:30	4544.37	4119.87	0	0	39.77	39.83	39.90	103.92	101.94	101.13	0.74	50.04	9.04	8.22
16/12/2022 17:00	4495.31	4001.46	0	0	39.96	40.03	40.10	103.28	101.46	100.85	0.75	49.98	9.18	8.07

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
16/12/2022 17:30	4635.09	4172.54	0	0	40.14	40.23	40.29	107.80	106.05	105.38	0.74	50.01	9.55	8.57
16/12/2022 18:00	4681.39	4271.92	0	0	40.27	40.35	40.41	103.24	101.30	100.53	0.73	50.01	8.99	8.39
16/12/2022 18:30	4475.86	4136.56	0	0	40.60	40.69	40.75	104.57	102.77	101.86	0.73	49.97	9.21	8.55
16/12/2022 19:00	4346.01	4127.61	0	0	40.31	40.39	40.46	102.63	100.83	100.15	0.74	49.95	9.01	8.30
16/12/2022 19:30	4598.56	4434.96	0	0	40.16	40.24	40.30	111.14	109.27	108.82	0.73	50.03	9.63	9.08
16/12/2022 20:00	4647.38	4473.79	0	0	40.16	40.24	40.30	109.23	107.36	106.84	0.72	49.98	9.35	9.04
16/12/2022 20:30	4681.40	4535.39	0	0	40.26	40.34	40.40	107.25	105.54	104.93	0.71	49.95	9.11	9.00
16/12/2022 21:00	4592.15	4443.67	0	0	40.08	40.16	40.22	107.98	106.30	105.77	0.72	49.99	9.25	8.91
16/12/2022 21:30	4661.40	4460.14	0	0	39.60	39.70	39.75	110.66	109.12	108.48	0.73	49.98	9.46	8.95
16/12/2022 22:00	4964.52	4661.97	0	0	39.38	39.48	39.53	118.55	116.98	116.24	0.73	49.97	10.17	9.44
16/12/2022 22:30	5338.91	4877.57	0	0	38.84	38.93	38.98	124.59	123.00	122.37	0.74	49.97	10.60	9.73
16/12/2022 23:00	5163.01	4637.80	0	0	38.92	39.02	39.07	108.33	106.81	106.08	0.76	50.04	9.47	8.19
16/12/2022 23:30	4526.86	4028.72	0	0	39.14	39.24	39.29	104.01	102.61	101.57	0.74	50.13	8.93	8.14
17/12/2022 00:00	4495.03	4089.59	0	0	39.19	39.30	39.34	103.52	101.88	100.88	0.74	49.97	8.91	8.07
17/12/2022 00:30	4771.90	4367.63	0	0	39.10	39.20	39.25	126.57	124.95	124.29	0.74	49.96	10.84	9.96
17/12/2022 01:00	5305.01	4954.27	0	0	39.14	39.24	39.29	122.02	120.41	119.80	0.72	49.97	10.29	9.79
17/12/2022 01:30	5111.34	4912.64	0	0	39.13	39.23	39.28	115.90	114.36	113.63	0.71	49.90	9.51	9.55
17/12/2022 02:00	4890.51	4763.28	0	0	39.19	39.29	39.34	117.70	116.10	115.35	0.72	49.96	9.86	9.51

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
17/12/2022 02:30	4758.86	4636.27	0	0	39.34	39.45	39.50	113.05	111.48	110.81	0.72	50.08	9.48	9.21
17/12/2022 03:00	4717.28	4626.53	0	0	39.47	39.57	39.63	112.45	110.82	110.10	0.71	50.11	9.36	9.28
17/12/2022 03:30	5011.30	4802.53	0	0	39.48	39.59	39.64	120.38	118.88	118.28	0.73	49.97	10.26	9.73
17/12/2022 04:00	4977.41	4763.86	0	0	39.40	39.50	39.55	118.33	116.92	116.11	0.73	49.91	10.18	9.41
17/12/2022 04:30	5032.71	4606.01	0	0	39.41	39.50	39.55	116.99	115.46	114.69	0.75	50.06	10.26	9.08
17/12/2022 05:00	4901.78	4449.35	0	0	39.37	39.46	39.51	110.18	108.41	107.66	0.75	50.02	9.60	8.55
17/12/2022 05:30	4819.48	4294.65	0	0	39.25	39.33	39.39	111.30	109.47	108.80	0.74	50.00	9.65	8.64
17/12/2022 06:00	4896.59	4427.31	0	0	39.20	39.28	39.35	113.32	111.70	111.17	0.74	50.08	9.78	8.86
17/12/2022 06:30	5006.35	4493.50	0	0	39.11	39.20	39.26	118.97	117.33	116.89	0.75	50.00	10.41	9.11
17/12/2022 07:00	4262.93	3863.93	0	0	39.35	39.42	39.50	87.59	85.94	85.19	0.74	50.01	7.51	6.89
17/12/2022 07:30	3424.04	3212.04	0	0	38.87	38.93	39.00	77.93	76.45	75.83	0.73	49.97	6.51	6.15
17/12/2022 08:00	3246.23	3026.51	0	0	39.07	39.13	39.20	77.62	76.08	75.26	0.72	50.07	6.47	6.19
17/12/2022 08:30	3402.36	3227.87	0	0	39.10	39.15	39.22	82.00	80.32	79.60	0.73	50.00	6.89	6.49
17/12/2022 09:00	3525.63	3291.67	0	0	38.97	39.01	39.10	88.26	86.35	86.25	0.74	49.99	7.51	6.86
17/12/2022 09:30	4157.99	3761.38	0	0	38.76	38.81	38.88	100.77	98.83	98.36	0.73	49.95	8.47	7.86
17/12/2022 10:00	4636.98	4203.08	0	0	38.69	38.74	38.80	108.41	106.23	105.62	0.74	50.04	9.19	8.32
17/12/2022 10:30	5052.34	4399.00	0	0	38.61	38.66	38.73	121.09	118.62	118.49	0.76	49.98	10.46	9.07
17/12/2022 11:00	5397.92	4829.67	0	0	38.48	38.53	38.59	126.99	124.78	124.41	0.74	49.95	10.65	9.82

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
17/12/2022 11:30	4956.69	4409.44	0	0	38.51	38.56	38.62	133.02	130.57	130.49	0.75	50.00	11.34	10.11
17/12/2022 12:00	5632.20	5109.61	0	0	39.30	39.36	39.43	132.10	129.87	129.57	0.75	50.24	11.51	10.24
17/12/2022 12:30	5519.63	5044.97	0	0	39.30	39.36	39.44	122.46	120.15	119.75	0.73	49.97	10.44	9.70
17/12/2022 13:00	5002.83	4696.74	0	0	39.08	39.13	39.22	115.39	113.27	113.13	0.72	49.95	9.58	9.32
17/12/2022 13:30	4772.97	4458.25	0	0	38.58	38.64	38.70	119.76	117.61	117.27	0.73	50.00	10.00	9.36
17/12/2022 14:00	4864.94	4585.05	0	0	38.63	38.68	38.74	110.40	108.46	107.75	0.72	50.00	9.09	8.76
17/12/2022 14:30	4573.47	4364.20	0	0	38.82	38.88	38.94	110.21	108.18	107.53	0.73	50.00	9.23	8.67
17/12/2022 15:00	4611.65	4376.14	0	0	38.94	39.00	39.07	117.99	115.79	115.13	0.73	49.91	9.86	9.36
17/12/2022 15:30	4954.42	4659.49	0	0	38.99	39.05	39.11	116.38	114.30	113.91	0.73	49.92	9.85	9.16
17/12/2022 16:00	5211.36	4776.81	0	0	39.15	39.21	39.28	124.08	121.99	121.56	0.74	49.94	10.69	9.66
17/12/2022 16:30	5296.45	4825.07	0	0	39.03	39.09	39.15	123.63	121.57	121.06	0.74	49.91	10.65	9.56
17/12/2022 17:00	5401.65	4853.42	0	0	39.25	39.33	39.38	127.49	125.57	124.94	0.74	50.02	10.98	10.01
17/12/2022 17:30	5083.59	4618.68	0	0	39.71	39.79	39.83	103.94	102.06	101.13	0.74	50.07	9.02	8.22
17/12/2022 18:00	4489.06	4039.20	0	0	40.15	40.24	40.28	101.63	99.93	98.94	0.74	50.06	8.96	8.10
17/12/2022 18:30	4418.38	4041.90	0	0	40.41	40.51	40.56	100.48	98.82	97.73	0.73	49.97	8.81	8.17
17/12/2022 19:00	4342.95	4034.96	0	0	40.43	40.53	40.57	103.81	101.96	100.98	0.74	49.91	9.16	8.38
17/12/2022 19:30	4655.05	4344.64	0	0	40.30	40.39	40.43	108.68	107.00	106.00	0.72	49.99	9.37	8.98
17/12/2022 20:00	4507.60	4447.83	0	0	40.36	40.47	40.51	103.43	101.79	100.65	0.71	49.97	8.78	8.70

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
17/12/2022 20:30	4276.86	4230.77	0	0	40.36	40.46	40.49	93.37	91.66	90.48	0.70	50.04	7.85	7.89
17/12/2022 21:00	4277.96	4270.48	0	0	40.31	40.41	40.45	109.47	107.74	106.92	0.72	50.02	9.39	9.11
17/12/2022 21:30	4208.58	4096.19	0	0	40.30	40.39	40.44	90.56	89.02	88.05	0.72	50.08	7.77	7.50
17/12/2022 22:00	4027.85	3899.43	0	0	40.12	40.21	40.27	99.55	98.04	97.35	0.73	50.06	8.61	8.14
17/12/2022 22:30	4619.71	4299.31	0	0	40.09	40.18	40.24	115.28	113.69	113.06	0.73	49.85	10.05	9.36
17/12/2022 23:00	5279.32	4858.50	0	0	39.78	39.88	39.94	120.46	118.92	118.33	0.74	50.05	10.54	9.60
17/12/2022 23:30	5257.03	4793.67	0	0	39.92	40.01	40.08	121.73	119.99	119.58	0.75	49.95	10.77	9.62
18/12/2022 00:00	5223.84	4647.12	0	0	39.74	39.84	39.90	116.16	114.60	114.06	0.75	50.00	10.25	9.13
18/12/2022 00:30	5261.01	4686.25	0	0	39.69	39.77	39.84	117.91	116.28	115.88	0.75	49.96	10.40	9.24
18/12/2022 01:00	5183.88	4648.86	0	0	39.66	39.75	39.82	116.79	115.21	114.87	0.75	50.00	10.27	9.19
18/12/2022 01:30	5397.31	4814.45	0	0	39.61	39.69	39.76	125.32	123.62	123.41	0.75	49.96	11.10	9.75
18/12/2022 02:00	5204.38	4651.76	0	0	39.77	39.85	39.93	120.96	119.31	119.03	0.75	50.05	10.69	9.52
18/12/2022 02:30	5199.22	4723.35	0	0	39.91	40.00	40.08	114.16	112.59	112.13	0.72	49.94	9.77	9.38
18/12/2022 03:00	4784.53	4569.13	0	0	39.88	39.97	40.05	107.65	106.12	105.61	0.72	49.94	9.16	8.88
18/12/2022 03:30	4429.05	4340.92	0	0	39.94	40.03	40.11	95.20	93.78	93.07	0.72	49.96	8.08	7.87
18/12/2022 04:00	3965.55	3917.80	0	0	40.16	40.25	40.33	89.52	88.14	87.18	0.69	50.04	7.34	7.71
18/12/2022 04:30	3726.98	3794.18	0	0	39.89	39.97	40.05	91.03	89.46	88.76	0.72	50.03	7.73	7.48
18/12/2022 05:00	3893.74	3780.45	0	0	39.86	39.93	40.01	98.67	97.05	96.53	0.73	49.96	8.53	7.96

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
18/12/2022 05:30	4468.52	4206.71	0	0	39.62	39.69	39.78	126.66	124.72	124.65	0.72	49.98	10.82	10.28
18/12/2022 06:00	5551.13	5085.45	0	0	39.62	39.70	39.78	129.20	127.25	126.93	0.74	50.00	11.21	10.28
18/12/2022 06:30	5596.70	5132.61	0	0	39.61	39.68	39.76	124.81	122.86	122.52	0.73	49.96	10.73	10.02
18/12/2022 07:00	5291.61	4855.52	0	0	39.82	39.89	39.97	118.22	116.15	115.77	0.73	50.01	10.25	9.48
18/12/2022 07:30	4959.45	4580.45	0	0	39.57	39.62	39.71	111.32	109.16	108.89	0.74	50.04	9.61	8.82
18/12/2022 08:00	4635.13	4328.61	0	0	39.47	39.52	39.59	113.01	110.92	110.51	0.74	50.06	9.71	8.96
18/12/2022 08:30	4555.44	4235.15	0	0	39.04	39.08	39.15	105.38	102.95	102.76	0.72	50.05	8.77	8.41
18/12/2022 09:00	4460.96	4183.79	0	0	38.75	38.78	38.86	102.96	100.51	100.45	0.73	50.00	8.58	8.08
18/12/2022 09:30	4252.60	4056.50	0	0	38.80	38.84	38.93	105.27	103.14	102.93	0.72	49.97	8.73	8.36
18/12/2022 10:00	4525.09	4316.07	0	0	39.02	39.06	39.14	108.81	106.36	106.21	0.72	49.96	9.04	8.70
18/12/2022 10:30	4764.02	4476.19	0	0	38.94	38.98	39.06	112.71	110.51	110.33	0.73	49.98	9.46	8.91
18/12/2022 11:00	5159.50	4771.13	0	0	38.96	39.00	39.08	122.89	120.53	120.26	0.73	50.01	10.38	9.67
18/12/2022 11:30	4949.15	4547.94	0	0	39.69	39.75	39.84	103.34	101.61	100.85	0.72	50.03	8.79	8.38
18/12/2022 12:00	4436.77	4141.33	0	0	40.22	40.28	40.37	102.24	100.39	99.69	0.73	49.97	8.94	8.26
18/12/2022 12:30	4455.77	4216.13	0	0	40.26	40.32	40.40	98.68	96.73	95.87	0.72	50.02	8.45	8.15
18/12/2022 13:00	4288.17	4020.53	0	0	39.64	39.68	39.76	97.79	95.74	95.16	0.74	49.95	8.48	7.69
18/12/2022 13:30	4059.09	3756.94	0	0	38.97	39.00	39.09	94.20	92.15	91.56	0.72	50.00	7.79	7.53
18/12/2022 14:00	3719.14	3522.51	0	0	38.84	38.88	38.95	88.14	86.04	85.59	0.72	50.00	7.28	6.99

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
18/12/2022 14:30	3623.11	3541.99	0	0	39.01	39.04	39.12	87.09	85.14	84.49	0.71	50.04	7.16	7.01
18/12/2022 15:00	3398.19	3331.21	0	0	39.26	39.29	39.38	79.46	77.74	77.12	0.72	49.99	6.64	6.37
18/12/2022 15:30	3286.91	3123.85	0	0	39.44	39.48	39.56	76.56	74.70	73.86	0.72	49.96	6.42	6.13
18/12/2022 16:00	3258.85	3176.34	0	0	39.49	39.54	39.61	78.15	76.39	75.45	0.71	49.95	6.48	6.37
18/12/2022 16:30	3243.50	3139.08	0	0	39.66	39.71	39.79	76.01	74.41	73.60	0.72	50.00	6.43	6.13
18/12/2022 17:00	3532.46	3308.19	0	0	39.55	39.60	39.68	92.51	90.80	90.22	0.72	50.03	7.83	7.48
18/12/2022 17:30	3993.86	3696.59	0	0	39.80	39.88	39.94	82.94	81.27	80.34	0.75	49.99	7.34	6.41
18/12/2022 18:00	3783.53	3304.36	0	0	40.19	40.27	40.33	95.08	92.96	92.36	0.75	50.09	8.50	7.42
18/12/2022 18:30	4360.90	3904.12	0	0	40.32	40.39	40.45	103.73	101.65	100.96	0.74	49.98	9.11	8.36
18/12/2022 19:00	4321.97	3974.60	0	0	40.41	40.48	40.55	95.70	93.55	92.78	0.74	50.03	8.40	7.72
18/12/2022 19:30	4299.39	3972.80	0	0	40.33	40.42	40.47	103.96	101.86	101.03	0.74	49.97	9.11	8.40
18/12/2022 20:00	4373.86	4077.67	0	0	40.33	40.41	40.47	103.83	101.72	100.86	0.72	50.01	8.95	8.54
18/12/2022 20:30	4326.72	4144.93	0	0	40.27	40.35	40.41	99.74	97.71	96.86	0.72	49.95	8.56	8.21
18/12/2022 21:00	4075.09	4052.75	0	0	40.35	40.42	40.50	96.72	94.75	94.02	0.71	50.02	8.14	8.16
18/12/2022 21:30	4346.69	4377.15	0	0	39.92	39.99	40.07	106.29	104.68	103.98	0.70	50.09	8.87	8.93
18/12/2022 22:00	4520.31	4414.82	0	0	39.33	39.40	39.48	108.43	106.89	106.23	0.72	50.01	9.17	8.73
18/12/2022 22:30	4638.55	4408.06	0	0	38.77	38.85	38.92	111.78	110.37	109.75	0.73	49.95	9.36	8.85
18/12/2022 23:00	4624.12	4423.42	0	0	38.87	38.95	39.03	110.28	108.88	108.24	0.72	49.96	9.19	8.83

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
18/12/2022 23:30	4747.61	4510.12	0	0	39.12	39.20	39.27	112.63	111.21	110.38	0.72	50.03	9.46	9.04
19/12/2022 00:00	4829.27	4515.24	0	0	39.07	39.16	39.22	116.81	115.32	114.53	0.73	49.98	9.95	9.22
19/12/2022 00:30	5160.42	4698.94	0	0	38.82	38.90	38.96	121.81	120.21	119.56	0.74	50.03	10.45	9.40
19/12/2022 01:00	5251.16	4762.50	0	0	39.02	39.10	39.16	124.58	123.06	122.28	0.74	50.02	10.77	9.64
19/12/2022 01:30	5339.84	4762.07	0	0	38.88	38.96	39.03	123.67	122.04	121.56	0.75	49.98	10.66	9.53
19/12/2022 02:00	5228.23	4715.77	0	0	38.98	39.06	39.13	124.26	122.73	122.17	0.75	49.92	10.75	9.60
19/12/2022 02:30	5296.73	4778.26	0	0	38.78	38.86	38.93	119.32	117.84	117.24	0.75	49.99	10.28	9.15
19/12/2022 03:00	5191.58	4723.45	0	0	38.86	38.95	39.02	122.75	121.24	120.62	0.74	49.99	10.49	9.56
19/12/2022 03:30	5221.07	4708.39	0	0	38.98	39.07	39.13	118.05	116.66	115.80	0.74	49.98	10.10	9.23
19/12/2022 04:00	4997.83	4586.49	0	0	39.10	39.18	39.24	112.34	110.84	110.02	0.73	50.08	9.52	8.91
19/12/2022 04:30	4712.81	4418.32	0	0	38.89	38.96	39.03	112.95	111.33	110.78	0.73	50.01	9.52	8.92
19/12/2022 05:00	4680.14	4445.76	0	0	38.98	39.05	39.13	113.28	111.68	111.01	0.72	49.95	9.45	9.09
19/12/2022 05:30	4811.43	4549.61	0	0	39.04	39.10	39.18	116.74	114.85	114.46	0.73	49.97	9.85	9.27
19/12/2022 06:00	4697.93	4610.62	0	0	39.37	39.44	39.52	116.47	114.73	114.03	0.72	50.02	9.75	9.49
19/12/2022 06:30	4788.35	4714.23	0	0	39.49	39.57	39.65	112.83	111.27	110.65	0.72	50.00	9.50	9.22
19/12/2022 07:00	4992.63	4726.47	0	0	39.55	39.64	39.72	118.36	116.91	116.26	0.73	49.96	10.13	9.56
19/12/2022 07:30	5135.81	4758.99	0	0	39.25	39.34	39.41	120.75	119.32	118.57	0.75	50.01	10.53	9.37
19/12/2022 08:00	4978.55	4520.06	0	0	39.17	39.24	39.32	115.33	113.60	112.96	0.75	49.99	10.06	8.87

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
19/12/2022 08:30	5091.82	4507.56	0	0	38.87	38.93	39.01	119.32	117.33	116.93	0.75	49.97	10.33	9.09
19/12/2022 09:00	5073.49	4445.56	0	0	38.70	38.75	38.83	113.27	111.27	110.87	0.76	50.03	9.82	8.51
19/12/2022 09:30	4749.78	4190.99	0	0	38.59	38.63	38.72	108.44	106.35	105.93	0.75	50.01	9.24	8.25
19/12/2022 10:00	4821.63	4287.32	0	0	38.43	38.47	38.55	116.76	114.57	114.36	0.74	50.00	9.89	8.89
19/12/2022 10:30	5161.14	4511.28	0	0	38.02	38.06	38.15	121.45	119.58	119.08	0.75	50.00	10.25	9.10
19/12/2022 11:00	4948.20	4389.16	0	0	39.12	39.17	39.26	122.03	120.08	119.76	0.74	50.00	10.54	9.47
19/12/2022 11:30	5090.64	4676.67	0	0	39.54	39.60	39.69	116.80	114.78	114.18	0.73	50.01	9.96	9.39
19/12/2022 12:00	4783.38	4681.72	0	0	40.19	40.26	40.35	108.82	107.20	106.39	0.70	49.95	9.10	9.24
19/12/2022 12:30	4688.60	4684.48	0	0	40.39	40.46	40.55	110.09	108.29	107.46	0.70	49.97	9.26	9.37
19/12/2022 13:00	4729.15	4724.14	0	0	40.20	40.27	40.35	114.71	112.84	112.29	0.71	50.00	9.76	9.58
19/12/2022 13:30	4842.39	4724.19	0	0	40.09	40.15	40.24	112.97	110.92	110.66	0.72	49.95	9.62	9.36
19/12/2022 14:00	4788.40	4656.58	0	0	40.01	40.08	40.16	119.65	117.63	117.21	0.73	49.98	10.31	9.77
19/12/2022 14:30	4815.99	4705.09	0	0	40.14	40.22	40.30	117.69	115.84	115.24	0.73	49.96	10.22	9.59
19/12/2022 15:00	5224.34	4895.09	0	0	40.33	40.41	40.49	120.65	118.75	118.19	0.73	50.05	10.53	9.88
19/12/2022 15:30	5266.73	4986.88	0	0	40.43	40.51	40.58	121.82	120.02	119.21	0.72	50.02	10.52	10.15
19/12/2022 16:00	5221.43	4939.76	0	0	40.66	40.74	40.81	118.77	116.87	116.11	0.74	50.04	10.54	9.69
19/12/2022 16:30	4553.75	4349.23	0	0	40.64	40.72	40.79	108.29	106.64	105.62	0.73	50.06	9.56	8.87
19/12/2022 17:00	5034.12	4714.49	0	0	40.88	40.97	41.04	116.28	114.46	113.59	0.72	50.04	10.12	9.81

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
19/12/2022 17:30	5025.48	4863.12	0	0	40.69	40.77	40.85	121.38	119.50	119.30	0.74	49.95	10.82	9.91
19/12/2022 18:00	5382.33	5023.01	0	0	40.82	40.91	40.98	121.46	119.63	119.13	0.73	49.98	10.78	10.03
19/12/2022 18:30	5262.91	4977.78	0	0	40.99	41.08	41.16	119.66	117.90	117.50	0.72	49.97	10.52	10.09
19/12/2022 19:00	5087.46	4880.56	0	0	41.11	41.19	41.27	111.19	109.42	108.69	0.72	50.02	9.69	9.47
19/12/2022 19:30	4713.58	4627.52	0	0	41.05	41.13	41.21	106.21	104.46	103.77	0.71	50.00	9.13	9.14
19/12/2022 20:00	4768.08	4761.07	0	0	40.94	41.02	41.09	111.81	109.99	109.37	0.71	50.04	9.61	9.59
19/12/2022 20:30	4741.82	4720.44	0	0	40.45	40.52	40.60	110.64	108.78	108.23	0.71	49.99	9.37	9.39
19/12/2022 21:00	4688.34	4598.60	0	0	40.43	40.50	40.58	108.23	106.48	105.92	0.71	50.00	9.27	9.08
19/12/2022 21:30	4674.11	4542.65	0	0	40.16	40.24	40.32	112.42	110.92	110.43	0.72	49.98	9.70	9.28
19/12/2022 22:00	5110.07	4810.89	0	0	40.20	40.27	40.36	120.07	118.43	118.22	0.73	50.03	10.48	9.82
19/12/2022 22:30	5321.87	5062.81	0	0	39.77	39.84	39.93	128.15	126.38	126.07	0.72	49.97	10.92	10.51
19/12/2022 23:00	5390.32	5123.34	0	0	39.94	40.02	40.10	123.32	121.65	121.04	0.72	49.98	10.61	10.08
19/12/2022 23:30	5320.85	4974.75	0	0	39.87	39.95	40.03	122.91	121.29	120.65	0.73	49.98	10.63	9.96
20/12/2022 00:00	5276.20	4927.96	0	0	40.00	40.08	40.16	118.95	117.28	116.47	0.73	50.02	10.27	9.70
20/12/2022 00:30	5291.52	4971.45	0	0	39.98	40.06	40.14	119.57	117.83	117.13	0.72	50.01	10.22	9.85
20/12/2022 01:00	5281.71	4916.80	0	0	39.67	39.76	39.83	116.42	114.81	114.31	0.75	49.97	10.29	9.09
20/12/2022 01:30	4914.15	4391.73	0	0	39.84	39.92	39.99	108.64	107.18	106.40	0.74	49.96	9.55	8.61
20/12/2022 02:00	4468.73	4097.97	0	0	39.91	39.99	40.06	96.18	94.87	93.89	0.73	49.97	8.27	7.82

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
20/12/2022 02:30	3921.86	3791.32	0	0	40.05	40.14	40.22	85.38	84.24	83.15	0.69	49.95	7.03	7.30
20/12/2022 03:00	3620.07	3659.71	0	0	39.96	40.05	40.12	91.58	90.32	89.40	0.72	50.03	7.81	7.53
20/12/2022 03:30	3875.53	3801.07	0	0	40.13	40.22	40.30	88.23	86.97	85.91	0.71	50.00	7.44	7.39
20/12/2022 04:00	3936.34	3785.92	0	0	40.07	40.16	40.23	98.25	96.83	96.12	0.73	50.09	8.53	7.98
20/12/2022 04:30	4168.13	3908.98	0	0	39.97	40.05	40.12	98.27	96.76	95.92	0.74	50.01	8.64	7.81
20/12/2022 05:00	4482.47	4056.57	0	0	39.96	40.02	40.10	103.92	104.11	101.19	0.74	49.97	9.17	8.31
20/12/2022 05:30	4683.27	4289.38	0	0	40.04	40.11	40.19	106.05	106.34	103.35	0.73	49.93	9.30	8.59
20/12/2022 06:00	4701.19	4324.11	0	0	40.08	40.17	40.25	109.40	109.02	106.78	0.73	50.04	9.55	8.90
20/12/2022 06:30	4736.59	4371.43	0	0	40.27	40.36	40.43	101.70	101.28	99.00	0.72	49.95	8.76	8.45
20/12/2022 07:00	4339.44	4188.53	0	0	40.31	40.41	40.48	100.06	99.70	97.31	0.72	50.07	8.66	8.29
20/12/2022 07:30	4116.60	3980.63	0	0	40.22	40.30	40.38	89.59	89.36	87.28	0.70	50.00	7.54	7.62
20/12/2022 08:00	3753.84	3675.49	0	0	40.01	40.08	40.17	87.19	86.83	85.01	0.72	50.09	7.49	7.17
20/12/2022 08:30	3729.16	3597.38	0	0	40.05	40.12	40.20	87.32	86.80	84.96	0.72	49.99	7.48	7.21
20/12/2022 09:00	3808.96	3637.07	0	0	39.87	39.96	40.04	91.08	89.75	89.03	0.73	49.96	7.83	7.40
20/12/2022 09:30	4074.45	3818.70	0	0	39.82	39.91	39.99	99.23	97.82	97.03	0.73	49.99	8.55	8.03
20/12/2022 10:00	4341.97	4011.46	0	0	39.73	39.81	39.89	106.34	104.71	103.55	0.74	49.97	9.20	8.48
20/12/2022 10:30	4676.61	4261.47	0	0	39.38	39.46	39.53	108.86	107.09	106.37	0.74	49.96	9.39	8.56
20/12/2022 11:00	4701.93	4260.26	0	0	39.36	39.44	39.51	109.41	107.82	106.99	0.74	49.96	9.50	8.54

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
20/12/2022 11:30	4699.84	4246.80	0	0	39.48	39.57	39.64	105.90	104.47	103.56	0.74	49.98	9.15	8.38
20/12/2022 12:00	4634.93	4212.39	0	0	39.67	39.75	39.82	109.58	107.95	106.91	0.74	50.00	9.60	8.60
20/12/2022 12:30	4769.98	4350.16	0	0	39.62	39.71	39.78	111.09	109.56	108.56	0.74	49.98	9.62	8.83
20/12/2022 13:00	4762.83	4346.67	0	0	39.49	39.57	39.65	107.24	105.71	104.70	0.73	50.00	9.18	8.58
20/12/2022 13:30	4756.76	4362.47	0	0	39.39	39.47	39.54	110.53	109.06	108.24	0.74	49.94	9.59	8.68
20/12/2022 14:00	4405.81	4059.21	0	0	39.60	39.67	39.75	95.22	93.69	92.74	0.72	50.01	8.01	7.77
20/12/2022 14:30	3853.55	3808.13	0	0	39.50	39.58	39.65	89.07	87.76	86.64	0.70	49.93	7.31	7.42
20/12/2022 15:00	3763.59	3709.66	0	0	39.52	39.60	39.68	90.44	89.01	87.92	0.72	49.98	7.61	7.34
20/12/2022 15:30	3721.69	3645.70	0	0	39.95	40.04	40.12	88.83	87.63	86.45	0.72	50.02	7.57	7.29
20/12/2022 16:00	3753.86	3654.63	0	0	40.07	40.17	40.24	89.79	88.52	87.25	0.72	50.03	7.63	7.44
20/12/2022 16:30	3868.55	3785.97	0	0	40.16	40.25	40.32	96.83	95.48	94.17	0.71	50.06	8.21	8.08
20/12/2022 17:00	4324.01	4123.40	0	0	40.11	40.20	40.26	106.66	105.12	103.99	0.74	50.06	9.40	8.51
20/12/2022 17:30	4538.14	4208.85	0	0	40.24	40.33	40.39	103.32	101.97	100.69	0.73	50.07	8.98	8.44
20/12/2022 18:00	4608.07	4191.79	0	0	39.87	39.97	40.02	103.68	102.20	101.10	0.75	49.99	9.17	8.13
20/12/2022 18:30	4365.62	4027.80	0	0	40.03	40.11	40.17	102.44	100.79	99.70	0.74	50.05	9.02	8.12
20/12/2022 19:00	4557.01	4182.00	0	0	40.20	40.29	40.35	108.55	106.92	105.82	0.74	50.04	9.51	8.77
20/12/2022 19:30	4633.48	4284.18	0	0	40.24	40.34	40.40	106.50	105.02	103.75	0.73	49.99	9.30	8.65
20/12/2022 20:00	4807.63	4485.65	0	0	40.37	40.46	40.52	108.67	107.04	106.00	0.72	49.97	9.41	8.98

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
20/12/2022 20:30	4733.76	4458.78	0	0	40.57	40.66	40.72	111.05	109.35	108.33	0.73	50.03	9.79	9.08
20/12/2022 21:00	4788.54	4388.58	0	0	40.27	40.36	40.42	108.70	107.01	106.24	0.74	50.07	9.58	8.76
20/12/2022 21:30	4518.04	4187.19	0	0	40.16	40.24	40.31	96.29	94.85	93.93	0.72	50.09	8.30	7.91
20/12/2022 22:00	4008.09	3868.54	0	0	40.21	40.30	40.38	92.60	91.39	90.39	0.72	49.97	7.93	7.68
20/12/2022 22:30	3947.49	3769.54	0	0	39.94	40.03	40.11	87.10	85.90	85.03	0.72	49.95	7.47	7.11
20/12/2022 23:00	3669.21	3532.47	0	0	39.93	40.01	40.09	84.19	83.05	82.13	0.71	49.99	7.09	7.00
20/12/2022 23:30	3564.73	3491.23	0	0	39.61	39.69	39.76	85.24	84.02	83.11	0.72	49.94	7.19	6.95
21/12/2022 00:00	3598.93	3467.91	0	0	39.77	39.86	39.93	83.83	82.62	81.59	0.72	50.01	7.11	6.85
21/12/2022 00:30	4075.19	3796.57	0	0	39.71	39.80	39.87	102.36	100.98	100.14	0.74	49.93	8.93	8.12
21/12/2022 01:00	4557.16	4078.56	0	0	39.66	39.74	39.81	103.99	102.58	101.74	0.75	49.97	9.19	8.09
21/12/2022 01:30	4554.30	4050.12	0	0	39.68	39.77	39.84	101.66	100.22	99.46	0.75	49.97	8.94	7.97
21/12/2022 02:00	4353.99	3962.02	0	0	39.81	39.90	39.97	100.07	98.70	97.68	0.74	50.01	8.76	7.94
21/12/2022 02:30	4471.42	4009.68	0	0	39.79	39.89	39.95	101.73	100.45	99.42	0.74	49.97	8.84	8.15
21/12/2022 03:00	4499.06	4081.54	0	0	39.89	39.99	40.05	103.34	102.09	100.92	0.74	49.96	9.09	8.20
21/12/2022 03:30	4340.44	4033.71	0	0	39.98	40.07	40.13	95.24	93.94	92.70	0.73	50.01	8.25	7.70
21/12/2022 04:00	4068.18	3838.59	0	0	39.95	40.04	40.11	90.29	89.04	87.88	0.71	49.98	7.63	7.48
21/12/2022 04:30	3776.16	3705.24	0	0	39.78	39.86	39.92	89.63	88.22	87.27	0.72	49.99	7.57	7.35
21/12/2022 05:00	3847.84	3811.42	0	0	39.95	40.03	40.09	94.41	92.94	91.92	0.70	50.07	7.86	7.94

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
21/12/2022 05:30	4180.21	4072.76	0	0	39.99	40.07	40.14	104.86	103.19	102.40	0.73	50.12	9.08	8.49
21/12/2022 06:00	4560.07	4255.26	0	0	40.00	40.08	40.15	110.36	108.69	107.82	0.74	50.04	9.62	8.88
21/12/2022 06:30	4724.25	4343.52	0	0	39.80	39.88	39.95	106.68	104.92	104.25	0.74	50.06	9.36	8.42
21/12/2022 07:00	4784.59	4337.00	0	0	40.49	40.57	40.65	107.83	106.03	105.26	0.73	49.99	9.51	8.78
21/12/2022 07:30	4572.67	4309.49	0	0	40.19	40.25	40.34	105.02	103.30	102.58	0.74	50.06	9.24	8.43
21/12/2022 08:00	4541.53	4108.04	0	0	40.12	40.17	40.25	100.59	98.83	98.11	0.74	50.02	8.86	8.02
21/12/2022 08:30	4403.20	4062.94	0	0	39.23	39.26	39.34	104.92	103.01	102.41	0.74	50.03	9.01	8.20
21/12/2022 09:00	4402.14	3927.61	0	0	39.35	39.38	39.46	87.38	85.43	84.65	0.74	49.98	7.54	6.77
21/12/2022 09:30	3431.66	3204.68	0	0	39.23	39.25	39.34	73.46	71.62	70.56	0.72	49.97	6.10	5.86
21/12/2022 10:00	3258.28	3035.06	0	0	39.15	39.17	39.26	80.15	78.33	77.58	0.72	49.98	6.70	6.37
21/12/2022 10:30	3407.91	3253.47	0	0	39.07	39.09	39.17	88.22	86.37	85.74	0.74	49.94	7.47	6.90
21/12/2022 11:00	3585.44	3375.67	0	0	39.03	39.05	39.14	84.42	82.59	82.05	0.72	49.92	7.04	6.70
21/12/2022 11:30	3923.68	3686.00	0	0	38.91	38.93	39.03	94.51	92.63	92.18	0.72	50.04	7.85	7.52
21/12/2022 12:00	3889.65	3764.99	0	0	39.46	39.49	39.58	93.06	91.15	90.51	0.73	50.14	7.88	7.44
21/12/2022 12:30	3946.27	3754.98	0	0	39.44	39.48	39.57	96.72	94.86	94.17	0.72	49.94	8.13	7.81
21/12/2022 13:00	3855.49	3649.50	0	0	39.26	39.29	39.38	82.39	80.45	79.81	0.72	50.00	6.88	6.59
21/12/2022 13:30	3545.89	3350.12	0	0	38.58	38.59	38.68	91.84	89.78	89.16	0.73	49.96	7.59	7.17
21/12/2022 14:00	4160.08	3796.97	0	0	38.47	38.48	38.56	103.46	101.39	101.05	0.75	49.96	8.87	7.74

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
21/12/2022 14:30	4493.85	4054.17	0	0	38.61	38.63	38.71	112.58	110.48	110.14	0.74	49.94	9.59	8.59
21/12/2022 15:00	4847.24	4292.06	0	0	38.78	38.80	38.89	112.85	110.51	110.11	0.74	50.02	9.63	8.64
21/12/2022 15:30	4785.98	4264.01	0	0	39.44	39.47	39.56	105.14	102.96	102.47	0.75	49.98	9.21	8.08
21/12/2022 16:00	4565.02	4112.42	0	0	39.83	39.86	39.95	105.51	103.29	102.62	0.74	50.03	9.17	8.36
21/12/2022 16:30	4484.11	4138.24	0	0	40.15	40.19	40.28	101.42	99.40	98.70	0.73	50.00	8.73	8.28
21/12/2022 17:00	4615.72	4248.25	0	0	40.23	40.27	40.36	104.82	102.75	102.21	0.74	50.05	9.18	8.44
21/12/2022 17:30	4770.63	4384.98	0	0	40.49	40.53	40.61	106.35	104.04	103.73	0.74	50.02	9.40	8.57
21/12/2022 18:00	4369.48	4140.79	0	0	40.56	40.61	40.69	97.92	95.72	95.27	0.73	50.01	8.56	8.01
21/12/2022 18:30	3978.50	3919.54	0	0	40.65	40.71	40.78	87.71	85.61	84.90	0.69	49.98	7.21	7.63
21/12/2022 19:00	3760.93	3863.05	0	0	40.74	40.80	40.87	93.25	91.17	90.60	0.70	50.00	7.87	7.98
21/12/2022 19:30	3980.22	4000.90	0	0	40.63	40.67	40.75	94.57	94.49	91.85	0.70	49.97	8.03	8.11
21/12/2022 20:00	4138.10	4077.03	0	0	40.56	40.61	40.68	99.30	98.56	96.49	0.72	50.03	8.61	8.27
21/12/2022 20:30	4487.29	4291.10	0	0	40.32	40.39	40.45	111.64	109.33	108.85	0.73	49.91	9.74	9.07
21/12/2022 21:00	4927.12	4486.74	0	0	39.81	39.87	39.93	114.22	111.95	111.62	0.75	50.04	10.08	8.92
21/12/2022 21:30	4839.30	4418.63	0	0	39.78	39.84	39.90	110.91	108.68	108.34	0.74	49.97	9.73	8.71
21/12/2022 22:00	4831.92	4332.86	0	0	39.77	39.84	39.91	111.59	109.54	109.10	0.75	49.98	9.81	8.76
21/12/2022 22:30	4711.51	4182.03	0	0	39.46	39.54	39.60	102.41	100.42	99.76	0.75	49.99	8.95	7.92
21/12/2022 23:00	4432.51	3973.14	0	0	39.44	39.52	39.59	97.62	95.66	95.02	0.73	49.97	8.36	7.73

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
21/12/2022 23:30	3992.53	3724.79	0	0	39.21	39.29	39.35	95.37	93.62	92.99	0.74	49.97	8.17	7.46
22/12/2022 00:00	3604.02	3400.21	0	0	39.17	39.24	39.31	87.61	85.84	85.21	0.73	49.95	7.37	6.96
22/12/2022 00:30	3589.69	3449.16	0	0	38.99	39.06	39.12	87.54	85.86	85.30	0.72	49.97	7.25	7.02
22/12/2022 01:00	3715.17	3504.03	0	0	38.93	39.00	39.07	89.94	88.29	87.73	0.73	49.98	7.61	7.03
22/12/2022 01:30	3814.52	3551.41	0	0	39.03	39.10	39.16	88.70	87.07	86.46	0.73	49.98	7.43	7.05
22/12/2022 02:00	3760.98	3471.55	0	0	39.01	39.08	39.15	98.62	96.90	96.50	0.74	49.99	8.49	7.62
22/12/2022 02:30	4320.47	3925.73	0	0	39.07	39.15	39.21	108.64	106.71	106.16	0.73	49.97	9.23	8.55
22/12/2022 03:00	4730.75	4209.44	0	0	39.05	39.13	39.19	111.98	109.97	109.40	0.75	50.00	9.69	8.60
22/12/2022 03:30	4782.48	4270.33	0	0	39.13	39.20	39.26	106.60	104.67	103.97	0.74	49.98	9.11	8.33
22/12/2022 04:00	4556.02	4166.13	0	0	39.10	39.17	39.23	109.94	107.99	107.35	0.75	50.02	9.50	8.48
22/12/2022 04:30	4807.38	4306.23	0	0	39.49	39.57	39.62	112.46	110.40	109.79	0.75	50.06	9.86	8.70
22/12/2022 05:00	4880.06	4372.17	0	0	39.38	39.45	39.51	113.17	111.09	110.59	0.75	49.97	9.84	8.80
22/12/2022 05:30	4848.92	4370.72	0	0	39.42	39.48	39.55	112.26	110.11	109.72	0.75	49.97	9.76	8.74
22/12/2022 06:00	4770.75	4290.15	0	0	39.32	39.39	39.46	104.99	103.01	102.47	0.74	50.02	9.02	8.25
22/12/2022 06:30	4017.87	3656.41	0	0	39.50	39.56	39.64	83.89	81.75	81.19	0.75	49.93	7.28	6.49
22/12/2022 07:00	3107.62	2999.97	0	0	40.07	40.14	40.22	70.69	68.63	67.77	0.71	50.07	5.86	5.87
22/12/2022 07:30	2991.49	2974.25	0	0	39.84	39.89	39.97	71.62	69.69	69.14	0.72	50.06	6.03	5.82
22/12/2022 08:00	3073.12	2825.54	0	0	39.70	39.74	39.81	66.26	64.20	63.68	0.73	50.03	5.60	5.29

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
22/12/2022 08:30	2799.04	2635.41	0	0	39.43	39.46	39.54	68.61	66.40	66.08	0.74	50.05	5.83	5.37
22/12/2022 09:00	3203.77	2911.67	0	0	39.23	39.25	39.34	76.08	73.78	73.67	0.74	49.99	6.46	5.92
22/12/2022 09:30	3247.38	2988.65	0	0	39.30	39.32	39.40	76.87	74.48	74.30	0.73	50.00	6.47	6.06
22/12/2022 10:00	3254.10	3061.85	0	0	39.31	39.33	39.41	85.51	82.97	83.04	0.74	49.98	7.34	6.63
22/12/2022 10:30	3759.78	3325.60	0	0	39.16	39.17	39.25	88.87	86.20	86.53	0.76	50.02	7.76	6.69
22/12/2022 11:00	3972.41	3448.17	0	0	39.15	39.16	39.26	91.71	88.97	89.07	0.75	49.98	7.94	6.96
22/12/2022 11:30	3674.52	3199.36	0	0	39.30	39.31	39.40	77.15	74.57	74.19	0.76	50.05	6.72	5.79
22/12/2022 12:00	3170.48	2634.00	0	0	40.00	40.03	40.10	61.88	59.45	58.82	0.78	50.10	5.63	4.48
22/12/2022 12:30	3369.75	2908.07	0	0	39.85	39.88	39.97	81.53	79.35	78.83	0.73	49.92	6.93	6.57
22/12/2022 13:00	3604.19	3189.05	0	0	39.68	39.70	39.78	83.40	81.18	80.80	0.74	49.99	7.22	6.53
22/12/2022 13:30	3305.91	2950.45	0	0	39.08	39.09	39.17	73.28	71.09	70.59	0.74	50.01	6.25	5.60
22/12/2022 14:00	3311.43	2978.53	0	0	39.01	39.01	39.09	76.47	74.14	73.85	0.75	50.01	6.57	5.78
22/12/2022 14:30	3259.44	2966.44	0	0	39.04	39.06	39.13	79.70	77.58	77.27	0.73	49.93	6.71	6.22
22/12/2022 15:00	3140.08	2957.36	0	0	39.24	39.25	39.33	79.19	76.92	76.44	0.73	50.02	6.64	6.26
22/12/2022 15:30	3511.59	3297.22	0	0	39.15	39.16	39.24	84.58	82.29	82.04	0.74	49.96	7.16	6.60
22/12/2022 16:00	3721.57	3458.85	0	0	39.39	39.42	39.49	91.65	89.28	88.93	0.73	50.02	7.78	7.25
22/12/2022 16:30	3844.16	3742.48	0	0	39.75	39.78	39.85	93.87	91.43	90.90	0.71	50.10	7.82	7.70
22/12/2022 17:00	4220.84	4085.89	0	0	39.74	39.78	39.85	104.20	101.71	101.29	0.73	50.03	8.87	8.40

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out	
22/12/2022 17:30	4389.57	4080.50	0	0	39.92	39.97	40.03	104.47	102.17	101.87	0.74	50.11	9.15	8.25
22/12/2022 18:00	4779.47	4442.81	0	0	40.30	40.37	40.43	106.40	104.11	103.41	0.72	50.08	9.14	8.76
22/12/2022 18:30	4813.78	4427.77	0	0	40.41	40.47	40.52	110.55	108.20	107.73	0.74	50.02	9.78	8.87
22/12/2022 19:00	4860.87	4434.19	0	0	40.54	40.61	40.66	109.69	107.39	106.77	0.74	50.07	9.70	8.86
22/12/2022 19:30	4868.94	4423.90	0	0	40.24	40.29	40.35	111.49	109.20	108.85	0.74	49.99	9.84	8.90
22/12/2022 20:00	4435.62	4150.33	0	0	40.10	40.15	40.21	94.66	92.54	92.07	0.72	49.97	8.08	7.76
22/12/2022 20:30	4127.52	3920.99	0	0	40.10	40.15	40.21	95.58	93.36	92.93	0.73	49.86	8.22	7.77
22/12/2022 21:00	4035.36	3812.53	0	0	40.09	40.14	40.20	94.05	91.92	91.50	0.73	50.05	8.07	7.66
22/12/2022 21:30	4037.55	3879.86	0	0	40.08	40.14	40.20	95.03	92.97	92.49	0.72	50.13	8.15	7.75
22/12/2022 22:00	3987.91	3831.46	0	0	40.09	40.15	40.21	90.54	88.63	88.00	0.71	50.08	7.65	7.50
22/12/2022 22:30	3777.77	3664.52	0	0	39.63	39.70	39.75	88.00	86.15	85.58	0.73	50.01	7.47	7.09
22/12/2022 23:00	3738.67	3544.59	0	0	39.85	39.92	39.98	79.90	78.12	77.36	0.72	50.08	6.73	6.54
22/12/2022 23:30	3670.29	3447.25	0	0	39.87	39.96	40.01	94.91	93.20	92.55	0.73	50.02	8.19	7.65
23/12/2022 00:00	4026.51	3791.73	0	0	39.81	39.90	39.96	100.91	99.21	98.43	0.74	50.04	8.76	8.05
23/12/2022 00:30	4561.87	4123.77	0	0	39.64	39.71	39.78	106.79	104.88	104.43	0.75	49.95	9.36	8.36
23/12/2022 01:00	4567.12	4100.53	0	0	39.76	39.83	39.90	105.45	103.53	103.07	0.75	50.05	9.28	8.26
23/12/2022 01:30	4537.56	4022.99	0	0	39.66	39.74	39.80	101.28	99.46	99.00	0.75	49.98	8.92	7.89
23/12/2022 02:00	4555.43	4025.61	0	0	39.78	39.86	39.93	104.50	102.63	102.12	0.75	50.01	9.21	8.18

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
23/12/2022 02:30	4562.85	4088.53	0	0	39.88	39.96	40.03	102.56	100.86	100.18	0.74	49.96	8.93	8.20
23/12/2022 03:00	4500.97	4135.86	0	0	40.01	40.10	40.16	105.14	103.45	102.70	0.74	50.05	9.26	8.36
23/12/2022 03:30	4697.07	4294.01	0	0	40.02	40.11	40.18	108.84	107.04	106.37	0.73	49.98	9.48	8.77
23/12/2022 04:00	4829.38	4416.12	0	0	39.90	39.99	40.05	110.34	108.60	107.98	0.74	50.01	9.67	8.79
23/12/2022 04:30	4373.30	4102.90	0	0	39.85	39.94	40.00	94.69	92.95	92.31	0.72	49.99	8.01	7.79
23/12/2022 05:00	4133.55	3978.94	0	0	39.78	39.86	39.91	96.45	94.58	93.91	0.72	49.97	8.20	7.85
23/12/2022 05:30	4138.20	3951.04	0	0	39.83	39.90	39.97	97.10	95.15	94.57	0.72	50.09	8.27	7.90
23/12/2022 06:00	4148.61	3931.92	0	0	39.74	39.81	39.87	99.23	97.35	96.78	0.73	50.12	8.51	7.99
23/12/2022 06:30	4150.02	3935.56	0	0	39.70	39.76	39.83	97.21	95.34	94.83	0.72	50.13	8.26	7.88
23/12/2022 07:00	3963.65	3905.83	0	0	40.11	40.18	40.26	97.74	95.83	95.46	0.73	50.05	8.51	7.89
23/12/2022 07:30	4275.11	3872.95	0	0	39.67	39.72	39.80	99.84	97.86	97.50	0.75	50.10	8.75	7.80
23/12/2022 08:00	4515.71	4047.99	0	0	39.34	39.38	39.45	103.44	101.12	100.87	0.75	49.92	9.03	7.94
23/12/2022 08:30	4431.73	3877.10	0	0	39.43	39.46	39.54	105.11	102.66	102.36	0.75	49.95	9.16	8.12
23/12/2022 09:00	4623.86	4113.91	0	0	39.35	39.39	39.47	104.99	102.54	102.08	0.74	49.91	9.05	8.17
23/12/2022 09:30	4617.12	4120.09	0	0	39.31	39.35	39.43	106.22	103.84	103.67	0.74	49.90	9.16	8.28
23/12/2022 10:00	4653.36	4108.62	0	0	39.24	39.28	39.36	101.64	99.13	98.95	0.75	50.00	8.83	7.79
23/12/2022 10:30	4439.46	3966.11	0	0	39.13	39.16	39.23	100.42	97.93	97.72	0.74	50.02	8.61	7.76
23/12/2022 11:00	4500.08	3979.75	0	0	39.20	39.24	39.32	105.82	103.38	103.22	0.76	49.97	9.27	8.01

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
23/12/2022 11:30	4386.09	3774.52	0	0	39.45	39.48	39.56	97.19	94.53	94.33	0.76	50.01	8.56	7.36
23/12/2022 12:00	4059.29	3739.43	0	0	39.98	40.03	40.11	92.04	89.82	89.21	0.72	49.98	7.80	7.53
23/12/2022 12:30	3907.08	3798.60	0	0	40.06	40.10	40.18	95.26	92.98	92.52	0.72	49.95	8.12	7.79
23/12/2022 13:00	3945.41	3776.75	0	0	39.75	39.80	39.87	94.30	92.04	91.64	0.73	49.96	8.09	7.54
23/12/2022 13:30	4072.00	3781.06	0	0	39.17	39.19	39.27	95.73	93.32	93.19	0.73	50.00	8.11	7.52
23/12/2022 14:00	4068.52	3723.55	0	0	39.22	39.25	39.33	91.49	89.10	88.89	0.73	50.01	7.77	7.17
23/12/2022 14:30	3896.77	3602.47	0	0	39.18	39.21	39.29	92.12	89.89	89.67	0.74	50.01	7.84	7.21
23/12/2022 15:00	3969.21	3734.35	0	0	39.39	39.42	39.50	93.66	91.46	91.05	0.72	50.04	7.87	7.51
23/12/2022 15:30	3917.08	3727.23	0	0	39.43	39.47	39.54	91.87	89.72	89.19	0.73	49.96	7.78	7.32
23/12/2022 16:00	4129.85	3829.71	0	0	39.67	39.72	39.80	95.21	92.94	92.42	0.73	49.98	8.08	7.67
23/12/2022 16:30	4309.56	3965.98	0	0	40.14	40.19	40.26	104.85	102.52	102.04	0.74	50.05	9.23	8.32
23/12/2022 17:00	4555.39	4167.93	0	0	40.20	40.27	40.34	106.07	103.97	103.38	0.74	50.06	9.36	8.45
23/12/2022 17:30	4711.19	4319.74	0	0	40.48	40.55	40.62	108.46	106.36	105.79	0.74	50.00	9.59	8.76
23/12/2022 18:00	4798.60	4490.08	0	0	40.86	40.94	41.00	105.91	103.99	103.35	0.73	50.03	9.35	8.76
23/12/2022 18:30	4726.68	4386.31	0	0	40.69	40.77	40.83	107.17	105.16	104.69	0.74	50.00	9.59	8.65
23/12/2022 19:00	4778.71	4352.93	0	0	40.86	40.94	41.00	107.39	105.37	104.80	0.74	50.02	9.60	8.75
23/12/2022 19:30	4701.30	4303.70	0	0	40.52	40.59	40.66	107.32	105.35	105.00	0.74	50.01	9.58	8.62
23/12/2022 20:00	4841.04	4373.13	0	0	40.75	40.83	40.89	109.09	106.93	106.45	0.74	50.01	9.72	8.87

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
23/12/2022 20:30	4789.19	4407.65	0	0	40.67	40.76	40.81	104.92	103.06	102.30	0.73	49.96	9.22	8.64
23/12/2022 21:00	4371.52	4163.64	0	0	40.54	40.62	40.69	97.99	96.25	95.70	0.72	49.98	8.44	8.20
23/12/2022 21:30	4309.64	4165.69	0	0	40.40	40.48	40.54	101.97	100.16	99.51	0.72	50.00	8.74	8.52
23/12/2022 22:00	4231.48	4101.63	0	0	39.98	40.06	40.12	96.31	94.64	94.16	0.72	49.96	8.27	7.86
23/12/2022 22:30	4121.06	3931.65	0	0	39.44	39.53	39.59	97.56	96.01	95.36	0.73	49.95	8.34	7.79
23/12/2022 23:00	4251.09	3948.22	0	0	39.62	39.70	39.77	99.26	97.65	97.22	0.73	50.02	8.49	8.00
23/12/2022 23:30	4139.38	3891.08	0	0	39.56	39.65	39.71	95.46	94.03	93.38	0.73	50.09	8.23	7.60
24/12/2022 00:00	4017.61	3755.80	0	0	39.05	39.14	39.19	93.29	91.75	91.05	0.74	50.05	7.98	7.27
24/12/2022 00:30	4137.48	3767.23	0	0	39.10	39.18	39.24	97.88	96.40	95.74	0.75	49.96	8.46	7.57
24/12/2022 01:00	4565.80	4072.55	0	0	38.92	39.00	39.06	110.66	108.96	108.24	0.75	49.96	9.56	8.47
24/12/2022 01:30	4740.19	4194.19	0	0	39.03	39.11	39.17	110.58	108.78	108.00	0.75	50.02	9.57	8.49
24/12/2022 02:00	4667.36	4145.74	0	0	39.06	39.15	39.21	107.40	105.73	105.07	0.74	50.00	9.24	8.34
24/12/2022 02:30	4635.08	4091.48	0	0	39.11	39.20	39.26	105.34	103.72	102.83	0.75	50.07	9.13	8.11
24/12/2022 03:00	4675.65	4142.46	0	0	39.27	39.37	39.43	107.64	106.07	105.24	0.74	50.08	9.26	8.46
24/12/2022 03:30	4641.37	4144.93	0	0	39.23	39.33	39.40	107.30	105.80	105.16	0.75	49.98	9.38	8.28
24/12/2022 04:00	4598.96	4135.52	0	0	39.39	39.48	39.54	104.12	102.46	101.64	0.74	49.93	8.97	8.21
24/12/2022 04:30	4377.02	4003.64	0	0	39.51	39.61	39.67	98.89	97.34	96.35	0.73	50.02	8.48	7.88
24/12/2022 05:00	4047.14	3779.68	0	0	39.29	39.37	39.43	91.75	90.14	89.43	0.73	49.98	7.77	7.31

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
24/12/2022 05:30	3969.14	3787.46	0	0	39.48	39.55	39.63	97.24	95.55	94.84	0.72	50.08	8.21	7.86
24/12/2022 06:00	4008.43	3897.75	0	0	39.86	39.96	40.03	95.16	93.68	92.90	0.71	49.97	8.01	7.90
24/12/2022 06:30	4062.08	3978.26	0	0	39.96	40.05	40.12	95.44	94.02	93.10	0.71	50.08	7.99	8.00
24/12/2022 07:00	4032.43	4004.41	0	0	39.92	40.02	40.10	99.36	97.86	97.14	0.72	49.98	8.45	8.19
24/12/2022 07:30	4159.70	4039.78	0	0	40.19	40.27	40.35	103.35	101.57	100.96	0.73	50.06	8.94	8.46
24/12/2022 08:00	4308.91	4046.50	0	0	39.82	39.88	39.96	100.42	98.52	98.06	0.74	49.93	8.74	7.98
24/12/2022 08:30	4449.82	3963.04	0	0	39.66	39.72	39.79	96.94	94.87	94.63	0.75	50.02	8.48	7.58
24/12/2022 09:00	4033.26	3486.25	0	0	39.69	39.74	39.82	91.29	88.96	88.69	0.76	50.09	8.11	6.96
24/12/2022 09:30	4108.79	3430.11	0	0	39.75	39.79	39.88	86.60	84.44	84.18	0.77	49.97	7.84	6.45
24/12/2022 10:00	3704.29	3024.92	0	0	39.57	39.61	39.69	80.52	78.28	77.93	0.78	50.03	7.30	5.87
24/12/2022 10:30	3616.90	2892.75	0	0	39.43	39.47	39.54	79.77	77.64	77.42	0.78	50.05	7.25	5.77
24/12/2022 11:00	3626.78	2926.55	0	0	39.55	39.59	39.68	81.74	79.47	79.23	0.78	50.03	7.41	5.97
24/12/2022 11:30	3694.21	2978.52	0	0	39.73	39.78	39.85	76.65	74.54	74.11	0.78	50.00	6.96	5.64
24/12/2022 12:00	3270.91	2704.26	0	0	40.18	40.25	40.32	70.48	68.51	67.60	0.76	50.15	6.29	5.41
24/12/2022 12:30	2748.80	2490.26	0	0	40.39	40.47	40.53	61.74	59.94	58.92	0.74	50.00	5.38	4.91
24/12/2022 13:00	2618.71	2325.37	0	0	40.14	40.19	40.26	61.06	59.13	58.46	0.75	50.03	5.39	4.72
24/12/2022 13:30	2683.78	2257.69	0	0	39.49	39.52	39.59	60.05	57.92	57.46	0.77	49.98	5.36	4.38
24/12/2022 14:00	2317.47	1941.97	0	0	39.70	39.73	39.81	42.95	41.17	40.04	0.75	49.98	3.66	3.28

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
24/12/2022 14:30	1782.54	1502.59	0	0	39.61	39.65	39.73	48.69	46.80	45.92	0.77	50.01	4.29	3.58
24/12/2022 15:00	2505.04	2154.16	0	0	39.77	39.81	39.88	65.94	63.74	63.22	0.76	50.07	5.81	5.00
24/12/2022 15:30	2870.27	2517.35	0	0	39.50	39.51	39.65	65.28	63.29	63.51	0.75	49.95	5.70	5.00
24/12/2022 16:00	2935.98	2611.43	0	0	39.81	39.83	39.97	68.03	66.07	66.11	0.73	49.97	5.85	5.41
24/12/2022 16:30	2819.11	2622.94	0	0	40.54	40.63	40.68	68.63	66.82	65.77	0.73	50.03	5.97	5.56
24/12/2022 17:00	2946.47	2767.24	0	0	40.81	40.90	40.96	68.10	66.22	65.32	0.73	50.02	5.98	5.54
24/12/2022 17:30	3094.39	2904.54	0	0	40.86	40.95	41.00	69.84	68.11	67.28	0.73	50.06	6.09	5.77
24/12/2022 18:00	3078.16	2971.62	0	0	40.81	40.89	40.94	76.88	74.89	74.15	0.73	49.95	6.74	6.30
24/12/2022 18:30	3406.10	3161.53	0	0	40.90	40.99	41.04	78.51	76.52	75.84	0.75	50.05	7.04	6.30
24/12/2022 19:00	3561.38	3228.61	0	0	40.96	41.05	41.10	80.88	78.86	78.17	0.74	50.05	7.23	6.54
24/12/2022 19:30	3594.12	3304.13	0	0	41.04	41.14	41.19	74.63	72.67	71.69	0.72	50.02	6.47	6.24
24/12/2022 20:00	3199.85	2975.04	0	0	40.86	40.95	40.99	71.05	68.99	68.02	0.74	49.98	6.29	5.71
24/12/2022 20:30	3379.42	2996.36	0	0	40.36	40.44	40.48	83.88	81.70	80.90	0.75	50.01	7.49	6.56
24/12/2022 21:00	3771.60	3293.46	0	0	40.40	40.49	40.53	89.50	87.32	86.61	0.75	50.02	7.99	7.04
24/12/2022 21:30	4105.50	3540.08	0	0	39.96	40.04	40.09	91.26	89.11	88.64	0.77	49.96	8.25	6.91
24/12/2022 22:00	4180.44	3475.90	0	0	40.09	40.17	40.23	91.35	89.41	88.90	0.77	50.06	8.33	6.91
24/12/2022 22:30	4174.96	3452.19	0	0	39.69	39.79	39.83	92.02	90.22	89.62	0.77	50.07	8.36	6.84
24/12/2022 23:00	4143.29	3444.94	0	0	39.83	39.92	39.99	93.41	91.55	91.07	0.76	50.00	8.40	7.11

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
24/12/2022 23:30	3977.96	3330.62	0	0	39.86	39.95	40.01	85.20	83.34	82.69	0.77	50.01	7.69	6.44
25/12/2022 00:00	3782.09	3154.81	0	0	39.84	39.93	40.00	81.57	79.83	79.14	0.76	50.05	7.31	6.21
25/12/2022 00:30	3361.48	2925.11	0	0	39.88	39.97	40.03	70.43	68.66	67.90	0.76	50.01	6.25	5.39
25/12/2022 01:00	2981.90	2731.96	0	0	39.88	39.97	40.04	66.18	64.51	63.73	0.73	50.06	5.65	5.32
25/12/2022 01:30	2866.55	2689.57	0	0	39.71	39.81	39.87	67.86	66.21	65.51	0.74	50.01	5.88	5.32
25/12/2022 02:00	2815.18	2570.83	0	0	39.89	39.98	40.04	60.13	58.56	57.65	0.74	50.04	5.17	4.76
25/12/2022 02:30	2592.54	2408.47	0	0	39.88	39.97	40.04	60.86	59.29	58.62	0.74	50.09	5.27	4.80
25/12/2022 03:00	2708.89	2522.10	0	0	40.02	40.11	40.19	62.64	61.11	60.28	0.72	49.98	5.33	5.09
25/12/2022 03:30	2682.21	2541.11	0	0	39.89	39.99	40.05	62.66	61.15	60.25	0.72	50.03	5.32	5.07
25/12/2022 04:00	2799.99	2680.38	0	0	39.89	39.99	40.06	69.24	67.65	66.93	0.73	49.96	5.93	5.57
25/12/2022 04:30	3193.63	2949.32	0	0	39.85	39.95	40.01	76.46	74.71	74.01	0.75	50.01	6.72	5.96
25/12/2022 05:00	3393.53	3066.79	0	0	39.54	39.62	39.69	84.43	82.52	81.86	0.74	49.96	7.31	6.60
25/12/2022 05:30	3788.86	3382.12	0	0	39.81	39.89	39.95	85.65	83.81	83.24	0.75	50.01	7.59	6.62
25/12/2022 06:00	3928.26	3372.63	0	0	39.80	39.89	39.95	89.61	87.74	87.08	0.76	50.06	8.05	6.79
25/12/2022 06:30	3910.08	3420.10	0	0	40.04	40.13	40.21	86.19	84.47	83.73	0.75	50.11	7.64	6.75
25/12/2022 07:00	3717.92	3333.96	0	0	40.39	40.49	40.58	84.65	82.99	82.31	0.75	50.02	7.56	6.71
25/12/2022 07:30	3678.88	3276.49	0	0	40.13	40.22	40.29	85.41	83.72	82.94	0.75	49.97	7.61	6.68
25/12/2022 08:00	3718.95	3241.44	0	0	40.00	40.08	40.15	84.74	83.05	82.33	0.76	50.04	7.59	6.54

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
25/12/2022 08:30	3814.93	3268.49	0	0	39.76	39.83	39.90	89.56	87.52	86.95	0.75	49.96	7.92	6.91
25/12/2022 09:00	3743.94	3412.63	0	0	40.47	40.54	40.62	77.15	75.27	74.28	0.71	49.99	6.56	6.42
25/12/2022 09:30	3025.55	3073.16	0	0	40.41	40.48	40.56	77.62	76.10	75.11	0.69	49.99	6.38	6.70
25/12/2022 10:00	3229.02	3252.66	0	0	40.24	40.31	40.38	75.42	73.83	72.92	0.71	50.01	6.35	6.30
25/12/2022 10:30	3103.28	3102.46	0	0	40.25	40.32	40.40	75.80	74.11	73.20	0.71	50.00	6.39	6.32
25/12/2022 11:00	3402.20	3321.59	0	0	40.33	40.41	40.47	81.21	79.46	78.60	0.71	49.97	6.86	6.79
25/12/2022 11:30	3363.32	3378.65	0	0	40.47	40.56	40.62	82.08	80.46	79.39	0.70	50.03	6.83	7.02
25/12/2022 12:00	3517.50	3566.41	0	0	40.78	40.87	40.94	81.76	80.15	79.22	0.71	49.96	6.96	6.95
25/12/2022 12:30	3646.52	3648.31	0	0	40.87	40.97	41.04	87.86	86.24	85.38	0.71	49.99	7.54	7.47
25/12/2022 13:00	4090.84	3911.31	0	0	40.63	40.72	40.79	100.18	98.41	97.81	0.73	50.02	8.80	8.25
25/12/2022 13:30	4612.52	4309.02	0	0	40.33	40.40	40.47	114.69	112.51	111.86	0.73	49.98	9.95	9.40
25/12/2022 14:00	4908.29	4592.96	0	0	40.23	40.30	40.37	112.74	110.51	110.01	0.73	49.95	9.81	9.16
25/12/2022 14:30	4844.77	4509.75	0	0	40.23	40.31	40.38	109.22	107.11	106.37	0.73	49.93	9.50	8.87
25/12/2022 15:00	4692.91	4354.32	0	0	40.40	40.47	40.55	107.13	105.07	104.46	0.73	49.94	9.41	8.69
25/12/2022 15:30	4661.82	4259.10	0	0	40.43	40.51	40.59	105.47	103.46	102.86	0.74	49.97	9.32	8.51
25/12/2022 16:00	4589.50	4184.73	0	0	40.44	40.52	40.58	103.08	100.95	100.20	0.74	49.98	9.07	8.33
25/12/2022 16:30	4523.30	4211.69	0	0	40.50	40.58	40.64	102.41	100.31	99.44	0.73	49.96	8.99	8.32
25/12/2022 17:00	4459.65	4186.05	0	0	40.71	40.80	40.86	102.27	100.25	99.33	0.73	50.07	8.94	8.45

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
25/12/2022 17:30	4369.44	4158.14	0	0	40.74	40.84	40.90	102.62	100.71	99.78	0.73	49.99	9.02	8.46
25/12/2022 18:00	4663.28	4335.79	0	0	40.77	40.86	40.93	105.15	103.22	102.43	0.73	49.97	9.27	8.66
25/12/2022 18:30	4490.14	4290.62	0	0	40.99	41.09	41.14	98.16	96.37	95.49	0.72	50.03	8.57	8.25
25/12/2022 19:00	4193.39	4147.43	0	0	41.10	41.19	41.27	96.76	95.02	94.32	0.70	50.06	8.25	8.40
25/12/2022 19:30	4154.71	4158.97	0	0	40.94	41.04	41.09	97.71	96.04	95.20	0.71	50.01	8.42	8.32
25/12/2022 20:00	4186.83	4142.28	0	0	40.87	40.97	41.02	98.45	96.80	95.91	0.71	50.05	8.52	8.33
25/12/2022 20:30	4215.15	4152.92	0	0	40.80	40.91	40.96	98.38	96.75	95.90	0.71	50.00	8.47	8.34
25/12/2022 21:00	4463.43	4340.55	0	0	40.90	41.02	41.06	107.10	105.44	104.56	0.72	50.02	9.32	9.05
25/12/2022 21:30	4677.79	4453.33	0	0	40.95	41.06	41.12	109.43	107.73	106.94	0.73	50.02	9.71	9.08
25/12/2022 22:00	4894.78	4494.58	0	0	40.67	40.79	40.84	112.29	110.72	110.00	0.74	49.98	10.07	9.09
25/12/2022 22:30	4916.29	4461.30	0	0	40.13	40.24	40.30	112.20	110.61	109.91	0.74	49.95	9.85	9.04
25/12/2022 23:00	4834.36	4372.36	0	0	39.81	39.90	39.97	106.55	104.99	104.47	0.75	50.10	9.44	8.34
25/12/2022 23:30	4678.34	4176.61	0	0	39.93	40.04	40.10	105.53	104.05	103.22	0.75	50.00	9.36	8.30
26/12/2022 00:00	4650.97	4137.30	0	0	39.94	40.05	40.11	103.58	102.13	101.23	0.74	50.01	9.09	8.26
26/12/2022 00:30	4414.40	3966.74	0	0	39.55	39.66	39.71	97.32	95.92	95.05	0.74	49.98	8.49	7.63
26/12/2022 01:00	4064.04	3726.67	0	0	39.58	39.69	39.74	91.81	90.33	89.60	0.73	50.02	7.84	7.38
26/12/2022 01:30	3928.17	3711.36	0	0	39.54	39.64	39.70	92.62	91.16	90.40	0.73	50.04	7.93	7.41
26/12/2022 02:00	3936.14	3729.93	0	0	39.57	39.67	39.72	93.23	91.76	91.01	0.73	49.93	7.95	7.50

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
26/12/2022 02:30	3880.09	3697.41	0	0	39.72	39.82	39.88	89.04	87.63	86.81	0.71	50.01	7.40	7.42
26/12/2022 03:00	3966.99	3815.65	0	0	39.74	39.85	39.91	96.48	95.15	94.51	0.73	50.05	8.30	7.80
26/12/2022 03:30	4276.64	4009.64	0	0	39.71	39.83	39.88	105.81	104.43	103.58	0.74	49.98	9.26	8.37
26/12/2022 04:00	4743.64	4289.12	0	0	39.69	39.79	39.86	110.73	109.30	108.74	0.75	50.03	9.76	8.70
26/12/2022 04:30	4850.61	4323.22	0	0	39.68	39.79	39.84	112.17	110.59	109.83	0.75	49.96	9.90	8.76
26/12/2022 05:00	4942.96	4399.48	0	0	39.63	39.73	39.78	112.34	110.76	110.02	0.75	50.01	9.88	8.79
26/12/2022 05:30	4884.81	4347.04	0	0	39.54	39.63	39.69	111.29	109.68	108.99	0.75	50.05	9.77	8.68
26/12/2022 06:00	4830.32	4278.61	0	0	39.56	39.66	39.73	108.65	107.21	106.49	0.75	50.03	9.62	8.41
26/12/2022 06:30	4813.63	4229.36	0	0	39.66	39.77	39.83	107.69	106.24	105.59	0.75	49.97	9.52	8.39
26/12/2022 07:00	4525.04	4078.58	0	0	39.67	39.77	39.83	100.72	99.12	98.35	0.73	49.99	8.60	8.14
26/12/2022 07:30	4466.65	3951.46	0	0	39.36	39.44	39.50	104.12	102.29	101.81	0.76	50.03	9.24	7.89
26/12/2022 08:00	4513.82	4051.89	0	0	39.50	39.57	39.64	101.01	99.15	98.28	0.73	49.94	8.63	8.04
26/12/2022 08:30	4091.20	3903.10	0	0	39.37	39.44	39.50	95.45	93.56	92.79	0.73	50.04	8.08	7.62
26/12/2022 09:00	4180.64	4077.78	0	0	40.02	40.10	40.17	100.15	98.41	97.57	0.71	49.97	8.48	8.30
26/12/2022 09:30	4245.35	4108.80	0	0	40.07	40.15	40.21	98.22	96.38	95.57	0.72	50.04	8.34	8.11
26/12/2022 10:00	4238.85	4096.00	0	0	39.97	40.05	40.11	99.81	97.80	97.05	0.72	50.00	8.49	8.18
26/12/2022 10:30	4196.11	4030.99	0	0	39.87	39.94	40.00	96.54	94.67	93.86	0.72	50.01	8.23	7.85
26/12/2022 11:00	4107.36	3937.28	0	0	39.91	40.00	40.05	97.75	95.95	95.04	0.73	49.98	8.37	7.93

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
26/12/2022 11:30	4213.89	4014.21	0	0	40.00	40.08	40.15	105.45	103.60	102.84	0.73	50.00	9.14	8.51
26/12/2022 12:00	4741.11	4374.52	0	0	40.20	40.29	40.35	109.93	108.03	107.00	0.74	49.96	9.61	8.87
26/12/2022 12:30	4753.27	4354.68	0	0	40.37	40.47	40.52	104.55	102.86	101.87	0.74	49.99	9.21	8.45
26/12/2022 13:00	4715.42	4236.85	0	0	40.25	40.35	40.41	105.73	103.96	103.09	0.75	49.98	9.42	8.37
26/12/2022 13:30	4793.35	4200.87	0	0	39.77	39.85	39.90	111.46	109.43	108.68	0.75	50.00	9.81	8.72
26/12/2022 14:00	4773.65	4223.83	0	0	39.83	39.92	39.97	105.99	104.07	103.32	0.75	50.05	9.32	8.33
26/12/2022 14:30	4680.03	4192.16	0	0	39.85	39.93	39.98	104.72	102.82	102.03	0.75	49.93	9.24	8.19
26/12/2022 15:00	4623.40	4166.45	0	0	40.05	40.15	40.20	108.57	106.71	105.82	0.74	50.01	9.55	8.64
26/12/2022 15:30	4710.91	4331.98	0	0	40.08	40.17	40.22	106.04	104.20	103.24	0.73	49.90	9.20	8.58
26/12/2022 16:00	4651.60	4316.54	0	0	40.24	40.35	40.39	107.44	105.64	104.55	0.73	50.00	9.30	8.79
26/12/2022 16:30	4723.71	4330.98	0	0	40.54	40.64	40.69	104.92	103.21	102.13	0.73	49.92	9.24	8.56
26/12/2022 17:00	4712.48	4392.05	0	0	40.65	40.76	40.81	109.69	108.05	106.93	0.73	49.97	9.61	9.07
26/12/2022 17:30	4689.17	4448.70	0	0	40.92	41.02	41.05	99.85	98.01	96.97	0.72	50.02	8.68	8.39
26/12/2022 18:00	4281.13	4162.48	0	0	40.59	40.67	40.71	94.70	92.66	92.03	0.72	50.02	8.13	7.92
26/12/2022 18:30	4045.47	3988.10	0	0	40.68	40.76	40.81	92.47	90.51	89.88	0.71	50.02	7.92	7.79
26/12/2022 19:00	4046.13	3950.21	0	0	40.79	40.87	40.93	94.18	92.32	91.71	0.72	50.02	8.14	7.92
26/12/2022 19:30	4163.13	4061.45	0	0	40.74	40.83	40.87	98.68	96.99	96.19	0.72	50.01	8.52	8.30
26/12/2022 20:00	4486.69	4285.91	0	0	40.77	40.85	40.90	106.78	104.83	104.17	0.72	49.98	9.33	8.89

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
26/12/2022 20:30	4881.87	4633.56	0	0	40.72	40.81	40.86	113.11	111.25	110.32	0.73	49.97	9.99	9.29
26/12/2022 21:00	5004.26	4659.03	0	0	40.48	40.58	40.63	111.53	109.82	108.87	0.73	49.97	9.82	9.10
26/12/2022 21:30	4942.71	4601.12	0	0	40.51	40.63	40.67	113.79	112.12	111.06	0.73	49.98	9.95	9.38
26/12/2022 22:00	4945.41	4546.96	0	0	40.31	40.42	40.46	111.77	109.95	109.18	0.74	50.03	9.92	8.95
26/12/2022 22:30	4875.25	4386.22	0	0	40.22	40.33	40.37	108.47	106.85	105.97	0.73	50.01	9.50	8.79
26/12/2022 23:00	4794.36	4361.28	0	0	40.26	40.37	40.42	110.12	108.52	107.70	0.74	49.98	9.79	8.80
26/12/2022 23:30	4565.86	4223.89	0	0	40.32	40.41	40.46	101.68	100.04	99.20	0.74	49.96	8.99	8.17
27/12/2022 00:00	4151.62	3863.33	0	0	40.22	40.33	40.37	91.28	89.70	88.69	0.72	50.04	7.87	7.48
27/12/2022 00:30	3945.08	3782.80	0	0	40.31	40.42	40.47	85.51	83.97	83.04	0.71	50.04	7.22	7.19
27/12/2022 01:00	3641.42	3625.37	0	0	40.24	40.34	40.39	86.90	85.37	84.45	0.71	50.00	7.31	7.31
27/12/2022 01:30	3714.69	3679.94	0	0	40.12	40.22	40.28	90.99	89.49	88.67	0.71	49.95	7.70	7.59
27/12/2022 02:00	3885.78	3742.46	0	0	40.07	40.17	40.22	88.54	87.02	86.21	0.72	50.02	7.55	7.30
27/12/2022 02:30	3818.93	3667.33	0	0	40.10	40.21	40.26	94.52	93.04	92.13	0.73	49.96	8.19	7.69
27/12/2022 03:00	3998.93	3790.99	0	0	40.24	40.35	40.40	94.09	92.57	91.57	0.73	50.04	8.22	7.62
27/12/2022 03:30	4400.64	4013.15	0	0	40.22	40.34	40.38	104.27	102.73	101.73	0.74	49.97	9.23	8.33
27/12/2022 04:00	4639.20	4162.08	0	0	40.18	40.30	40.34	104.88	103.19	102.34	0.74	50.05	9.27	8.38
27/12/2022 04:30	4563.09	4067.83	0	0	40.24	40.35	40.39	100.58	98.79	97.95	0.75	50.04	8.96	7.96
27/12/2022 05:00	4602.55	4146.19	0	0	40.20	40.30	40.35	102.29	100.52	99.77	0.75	50.04	9.13	8.06

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
27/12/2022 05:30	4605.55	4227.89	0	0	40.03	40.13	40.17	109.85	107.94	106.97	0.74	50.05	9.57	8.82
27/12/2022 06:00	4811.21	4422.96	0	0	40.10	40.22	40.27	111.16	109.69	108.63	0.74	49.95	9.79	8.91
27/12/2022 06:30	4825.71	4456.10	0	0	40.13	40.26	40.31	111.18	109.80	108.60	0.73	49.96	9.68	9.05
27/12/2022 07:00	4839.09	4465.77	0	0	40.56	40.69	40.74	106.96	105.77	104.39	0.72	49.92	9.29	8.93
27/12/2022 07:30	4517.13	4288.62	0	0	40.42	40.54	40.59	101.40	100.12	98.87	0.73	49.96	8.84	8.36
27/12/2022 08:00	4154.29	3994.15	0	0	40.63	40.74	40.79	95.70	94.27	92.86	0.72	50.05	8.23	8.04
27/12/2022 08:30	3873.30	3871.28	0	0	40.62	40.74	40.79	90.93	89.58	88.15	0.70	49.97	7.63	7.83
27/12/2022 09:00	3768.14	3852.89	0	0	40.38	40.48	40.53	89.41	87.91	86.74	0.71	50.03	7.57	7.53
27/12/2022 09:30	3885.50	3820.15	0	0	40.12	40.21	40.26	95.03	93.33	92.49	0.71	49.99	8.06	7.89
27/12/2022 10:00	3895.00	3861.82	0	0	40.14	40.24	40.30	91.37	89.88	88.93	0.71	49.93	7.70	7.65
27/12/2022 10:30	4082.14	3866.86	0	0	39.98	40.08	40.13	98.69	97.10	96.34	0.74	50.05	8.66	7.86
27/12/2022 11:00	4215.06	3875.65	0	0	39.92	40.02	40.08	100.06	98.43	97.57	0.74	49.98	8.72	8.00
27/12/2022 11:30	4657.67	4225.05	0	0	39.99	40.10	40.15	110.44	108.75	107.94	0.74	50.03	9.75	8.75
27/12/2022 12:00	4862.63	4382.57	0	0	40.06	40.17	40.23	108.30	106.67	105.80	0.74	50.06	9.49	8.70
27/12/2022 12:30	4867.60	4404.71	0	0	39.98	40.09	40.15	109.33	107.76	106.83	0.74	49.97	9.60	8.72
27/12/2022 13:00	4765.09	4336.63	0	0	40.03	40.13	40.20	108.75	107.07	106.24	0.74	49.98	9.58	8.65
27/12/2022 13:30	4621.52	4175.92	0	0	39.76	39.85	39.89	101.48	99.97	99.04	0.73	49.98	8.74	8.16
27/12/2022 14:00	4504.40	4145.97	0	0	39.75	39.84	39.89	107.66	105.94	105.16	0.74	50.00	9.35	8.57

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
27/12/2022 14:30	4543.28	4120.09	0	0	39.74	39.83	39.88	98.08	96.34	95.42	0.73	50.04	8.44	7.85
27/12/2022 15:00	3943.06	3799.81	0	0	39.89	39.97	40.03	92.09	90.42	89.46	0.71	49.96	7.75	7.61
27/12/2022 15:30	3800.16	3737.62	0	0	39.98	40.07	40.12	87.98	86.24	85.25	0.71	49.97	7.41	7.27
27/12/2022 16:00	3628.64	3577.69	0	0	40.46	40.56	40.62	88.01	86.31	85.40	0.71	50.10	7.45	7.43
27/12/2022 16:30	3808.71	3891.36	0	0	40.70	40.80	40.86	94.15	92.49	91.39	0.69	49.87	7.86	8.15
27/12/2022 17:00	4048.01	3971.47	0	0	40.80	40.90	40.96	95.18	93.39	92.51	0.70	49.97	8.08	8.16
27/12/2022 17:30	4045.68	4051.43	0	0	40.76	40.86	40.93	92.83	91.28	90.46	0.71	50.08	7.94	7.91
27/12/2022 18:00	4271.01	4118.89	0	0	40.77	40.86	40.93	99.74	98.00	97.57	0.73	50.03	8.82	8.22
27/12/2022 18:30	4467.94	4202.62	0	0	40.87	40.94	41.04	102.20	100.31	99.98	0.73	49.98	9.01	8.49
27/12/2022 19:00	4540.45	4243.32	0	0	40.89	40.98	41.05	103.38	101.75	100.96	0.73	49.96	9.16	8.55
27/12/2022 19:30	4559.16	4240.56	0	0	40.80	40.92	40.96	103.52	101.96	101.04	0.73	49.94	9.15	8.54
27/12/2022 20:00	4663.23	4295.03	0	0	40.96	41.07	41.11	108.54	106.85	105.97	0.74	50.01	9.74	8.88
27/12/2022 20:30	4705.72	4358.24	0	0	40.49	40.60	40.64	104.85	103.28	102.28	0.74	49.91	9.36	8.41
27/12/2022 21:00	4699.44	4227.13	0	0	40.60	40.70	40.76	102.69	101.15	100.28	0.74	49.99	9.10	8.38
27/12/2022 21:30	4599.00	4147.98	0	0	40.56	40.66	40.72	103.02	101.60	100.68	0.74	50.06	9.21	8.30
27/12/2022 22:00	4396.46	4071.49	0	0	40.50	40.61	40.67	98.16	96.72	95.73	0.72	49.93	8.53	8.13
27/12/2022 22:30	4256.81	4001.66	0	0	39.98	40.09	40.14	91.14	89.95	89.10	0.72	50.01	7.80	7.49
27/12/2022 23:00	3900.00	3791.16	0	0	40.22	40.34	40.39	89.76	88.46	87.63	0.73	50.05	7.76	7.37

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
27/12/2022 23:30	3952.28	3769.78	0	0	40.06	40.17	40.22	92.68	91.44	90.60	0.72	50.09	7.88	7.70
28/12/2022 00:00	3908.43	3737.88	0	0	40.15	40.26	40.32	90.90	89.47	88.63	0.72	50.00	7.82	7.47
28/12/2022 00:30	3873.44	3660.26	0	0	39.94	40.05	40.11	90.30	89.04	88.25	0.72	50.01	7.70	7.43
28/12/2022 01:00	3978.06	3790.04	0	0	39.94	40.06	40.11	97.58	96.28	95.45	0.73	50.12	8.49	7.87
28/12/2022 01:30	4115.90	3888.34	0	0	39.98	40.10	40.15	95.23	93.95	93.16	0.73	50.01	8.23	7.75
28/12/2022 02:00	4105.20	3904.22	0	0	39.93	40.04	40.09	95.32	94.03	93.18	0.72	50.04	8.19	7.79
28/12/2022 02:30	4284.13	4042.78	0	0	39.86	39.98	40.03	100.09	98.92	98.14	0.73	49.93	8.67	8.11
28/12/2022 03:00	4703.49	4296.45	0	0	40.06	40.18	40.24	109.64	108.31	107.39	0.74	50.06	9.68	8.76
28/12/2022 03:30	4652.69	4239.60	0	0	40.07	40.19	40.25	102.08	100.78	99.76	0.74	50.07	9.01	8.15
28/12/2022 04:00	4551.32	4107.03	0	0	39.96	40.07	40.12	103.52	102.17	101.15	0.75	50.06	9.17	8.17
28/12/2022 04:30	4511.72	4093.66	0	0	40.10	40.21	40.26	102.31	100.91	99.84	0.74	49.96	8.99	8.20
28/12/2022 05:00	4643.74	4197.63	0	0	39.82	39.93	40.00	103.42	102.00	101.32	0.74	50.00	9.08	8.20
28/12/2022 05:30	4614.61	4205.16	0	0	40.34	40.45	40.51	104.18	102.68	101.69	0.74	50.09	9.27	8.34
28/12/2022 06:00	4653.23	4209.08	0	0	40.41	40.52	40.58	104.08	102.57	101.63	0.74	50.06	9.21	8.42
28/12/2022 06:30	4637.41	4208.18	0	0	40.21	40.31	40.38	105.93	104.34	103.56	0.74	49.99	9.36	8.49
28/12/2022 07:00	4261.75	4014.72	0	0	40.42	40.52	40.60	91.41	89.85	89.04	0.72	50.03	7.85	7.62
28/12/2022 07:30	3844.19	3723.89	0	0	40.02	40.09	40.18	90.23	88.59	88.12	0.73	49.98	7.78	7.34
28/12/2022 08:00	4019.97	3772.25	0	0	40.08	40.14	40.22	93.77	91.87	91.49	0.73	49.96	8.10	7.62

Date	kwh_out	kvarh_out	kwh_in	kvarh_in	kv-r	kv-s	kv-t	ir	is	it	pf	freq	mw_out	mvar_out
28/12/2022 08:30	4052.12	3850.86	0	0	39.81	39.85	39.93	95.46	93.47	93.31	0.73	49.99	8.18	7.71
28/12/2022 09:00	4226.05	3991.78	0	0	39.61	39.65	39.74	99.11	97.01	97.04	0.73	50.04	8.50	7.92
28/12/2022 09:30	4221.65	3926.59	0	0	39.17	39.21	39.30	102.49	100.38	100.32	0.74	49.99	8.82	7.96
28/12/2022 10:00	4491.04	4030.87	0	0	38.93	38.96	39.05	103.88	101.74	102.07	0.75	49.95	8.94	7.99