

Scenario — PV

GEMINI-60-house-part-of-a-settlement Greek - Corfu 39.748, 19.660

Name	Slope °	Azimuth °	Wp	Wall d/h m	Face	Bifacial	Wp counted
Roof East	22	-90	19800	—	front	—	yes
Roof West	22	90	19800	—	front	—	yes
Terrace railing south	90	0	4620	5 / 4	front	—	yes
Terrace railing north	90	180	4620	5 / 4	front	—	yes
share central structure east part	8	-90	20460	—	front	—	yes
share central strucure west part	8	90	20460	—	front	—	yes
Total counted			89760				

Database PVGIS-SARAH3 2005–2023 loss 14 % azimuth 0 = south, 90 = west, –90 = east.

Price bands and charts use UTC+1 from longitude (15° per hour), not the political time zone.

Peak hour 2020-05-26 12:10 local (11:10 UTC) 65676 W 0.732 W/Wp of 89760 Wp.

Database gaps: 10 days with 0 yield while the sun reached the horizon at noon. 2008-01-23, 2008-03-01, 2008-03-06, 2008-05-17, 2008-05-18, 2009-04-18, 2009-04-19, 2009-08-15, 2009-08-16, 2016-10-16. Yield charts skip them. The simulation uses the lowest-yield day of that month.

Sell when the export price is above 0. At 0 cent export PV yield only, not the battery. Do not sell when the earning is negative. At 15:00 winter time, battery export is only the kWh that would not fit in the next 72 h.



Scenario — house, heat pump, battery
GEMINI-60-house-part-of-a-settlement

Greek - Corfu 39.748, 19.660

Chapter	Parameter	Value
Building	Design out / in / heat	-10.0 °C / 20.0 °C / 1600.0 W
	Heat on / cool on / ground	22.0 °C / 25.0 °C / 10.0 °C
	Curve / flow min / max	0.4 / 25.0 °C / 55.0 °C
	Thermal mass of the house	25.0 kWh/K
	Household only	4.0 kWh/day
DHW	Litres at 40 °C / tank	200.0 L tank 42.0 °C 8-18 h
	Water out of the pipe Q1-Q4	12 °C 16 °C 22 °C 16 °C
Heat pump	Source	air and ground
	COP -10/0/10 @ 35 °C	2.4 3.4 4.5
	COP -10/0/10 @ 50 °C	1.9 2.6 3.3
	kW -10/0/10 @ 35 °C	4 5 6
	kW -10/0/10 @ 50 °C	3.5 4.5 5
Battery	kWh / C-rate / SOC min-max-start	257.2 kWh C 0.5 5 / 95 / 50 %
	Nameplate	—
	Charge / discharge η	95 % / 90 %
Grid	Inverter / grid connection	54.0 kW / 27.0 kW
	Max export	27.0 kW
	Import cap Jan-Jun kW	Jan 2 Feb 2 Mar 2 Apr 2 May 2 Jun 2
	Import cap Jul-Dec kW	Jul 2 Aug 2 Sep 2 Oct 2 Nov 2 Dec 2
Cars	Lunch DC / night AC	0.0 kWh @ 100.0 kW night 10.0 kWh @ 11.0 kW

Records 1-10 — contribution of each PV
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PV	2020-05-26 11:10	2013-05-14 11:10	2016-05-25 10:10	2016-04-26 11:10	2021-06-01 10:10	2021-06-14 11:10	2010-05-09 10:10	2020-05-26 10:10	2010-05-09 11:10	2016-05-25 11:10
Roof East	14534	14316	15794	14164	15771	14478	15654	15667	14139	14255
Roof West	16046	15906	14484	15742	14455	15784	14305	14374	15710	15728
Terrace railing south	1619	1793	1635	2227	1558	1447	1911	1615	1901	1624
Terrace railing north	166	149	180	229	201	189	205	185	206	198
share central structure east part	16371	16173	16726	15982	16688	16227	16565	16588	15955	16039
share central strucure west part	16940	16772	16233	16578	16193	16720	16056	16101	16547	16594
Watt at record	65676	65109	65052	64923	64866	64845	64696	64529	64457	64438
Percent of installed peak	73.2	72.5	72.5	72.3	72.3	72.2	72.1	71.9	71.8	71.8

Hours at or above a share of the record
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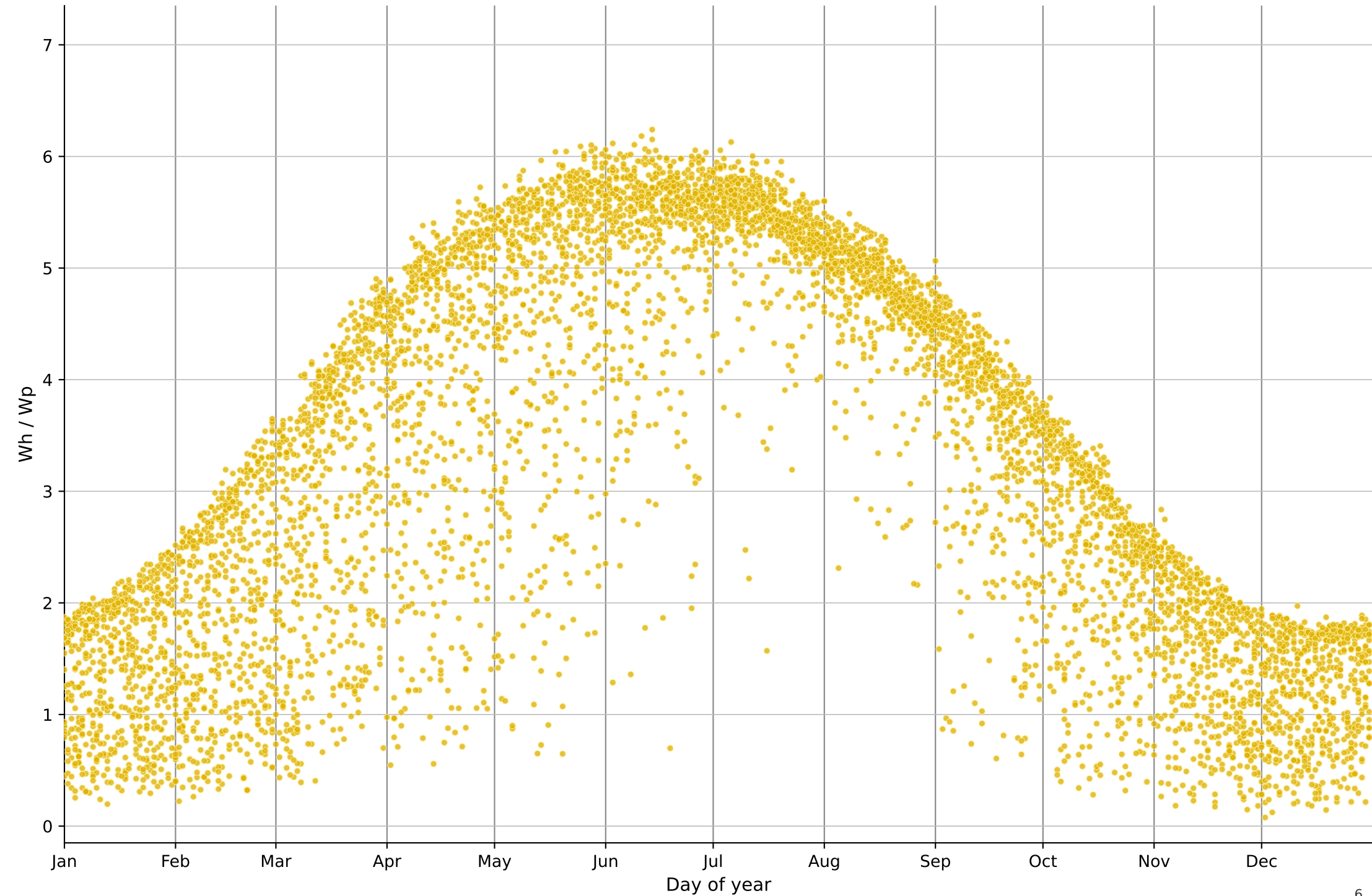
Of the record	Hours	Watts
98 %	11	64363 W
96 %	88	63049 W
94 %	331	61736 W
92 %	813	60422 W
90 %	1718	59109 W

Records of each photovoltaic field
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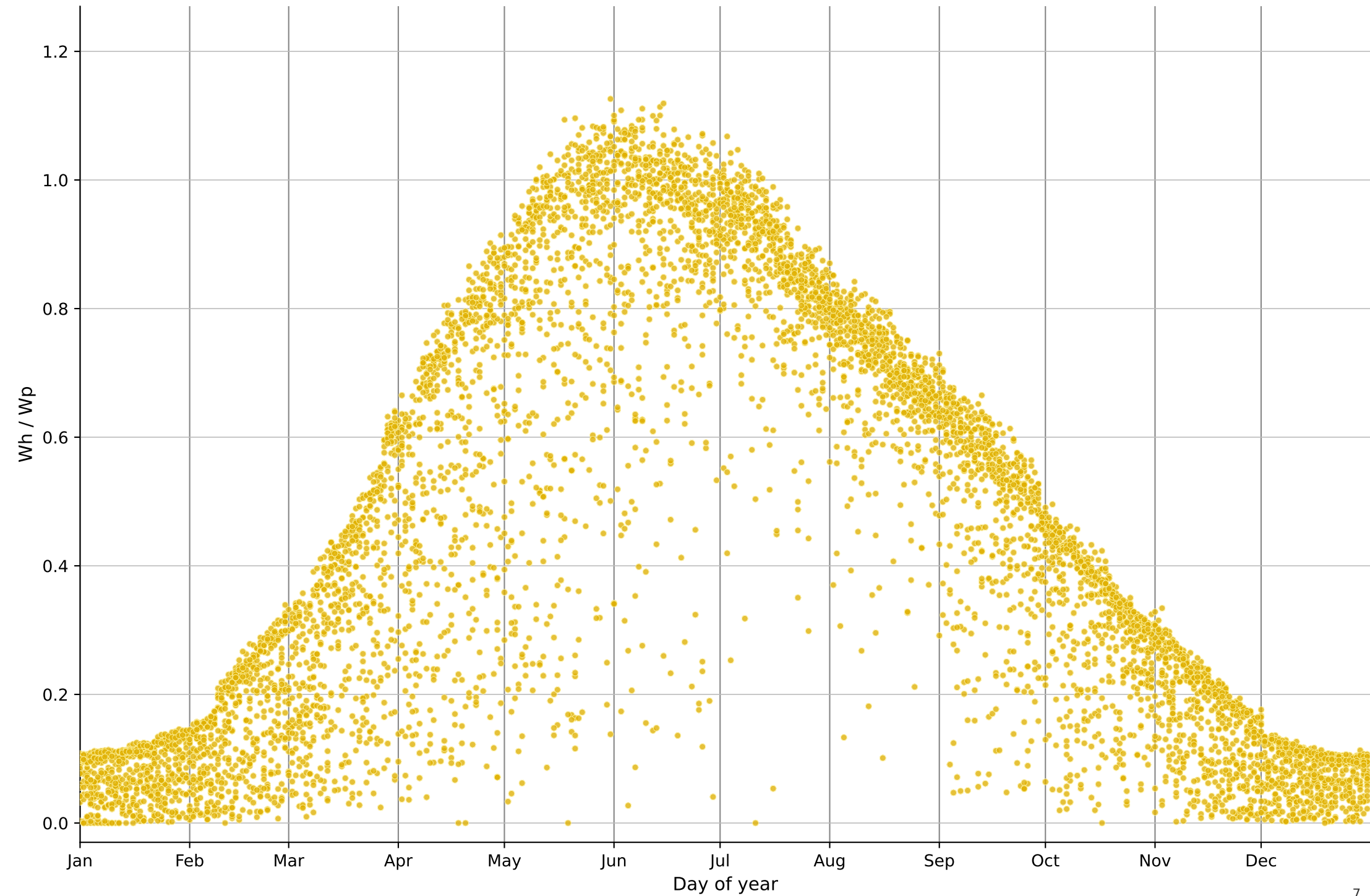
PV	Date	Watts	%	h ≥98%	h ≥96%	h ≥94%	h ≥92%	h ≥90%
Roof East	2021-06-01 09:10	16382	82.7	11	49	181	485	1065
Roof West	2020-05-26 12:10	16775	84.7	3	24	102	321	783
Terrace railing south	2012-02-28 11:10	3523	76.3	1	6	19	36	66
Terrace railing north	2005-06-11 16:10	801	17.3	4	10	39	101	204
share central structure east part	2016-05-25 10:10	16726	81.8	14	81	289	729	1570
share central strucure west part	2020-05-26 11:10	16940	82.8	5	45	183	554	1273

Watts is the highest hour of that field. % is of its own Wp. Hours are the count of hours at or above that share of its own record. Use this to size the MPPT or the inverter for that field.

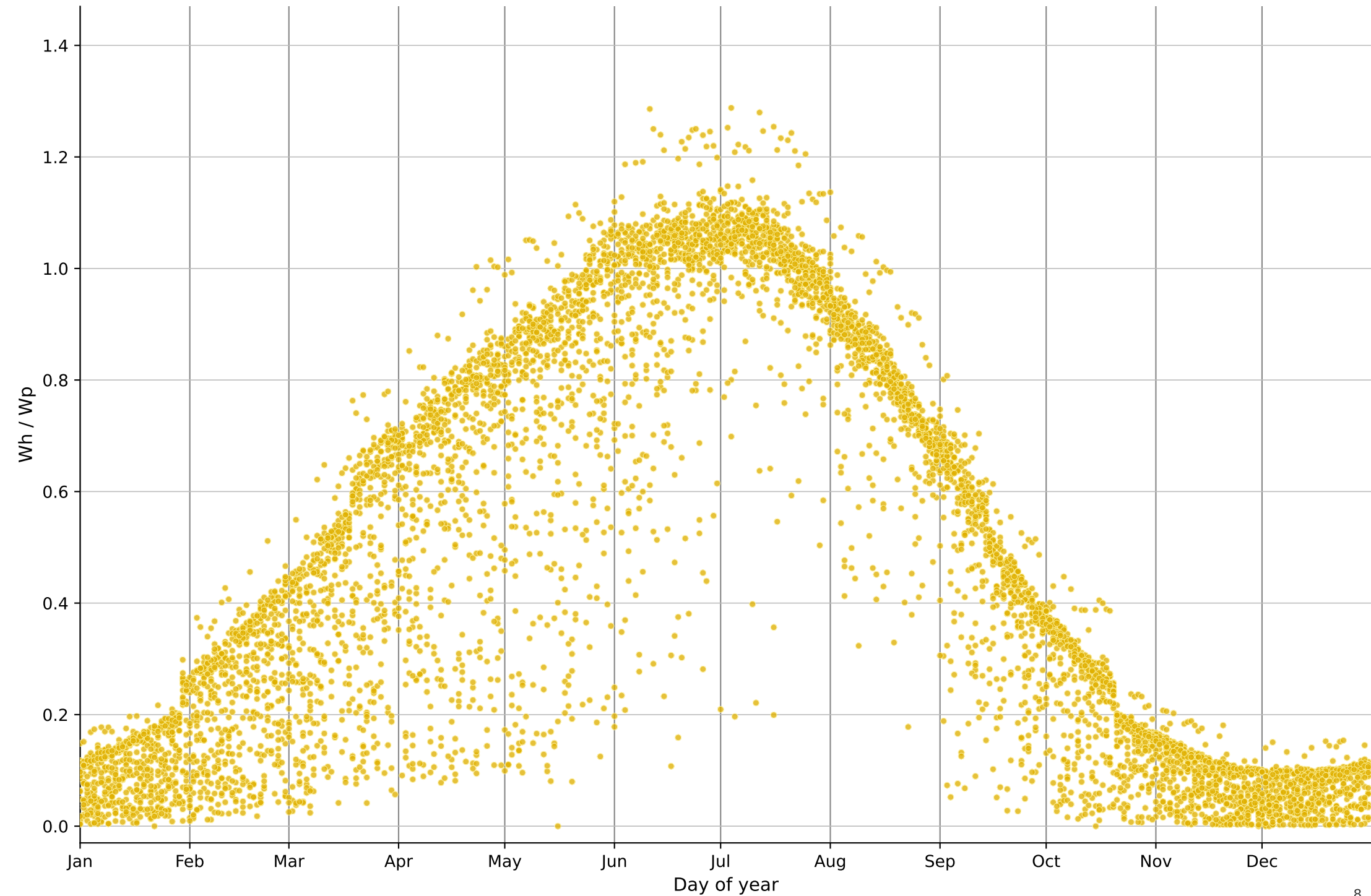
Yield distribution for each day — W_h / W_p of all PV together
Greek - Corfu 39.748, 19.660



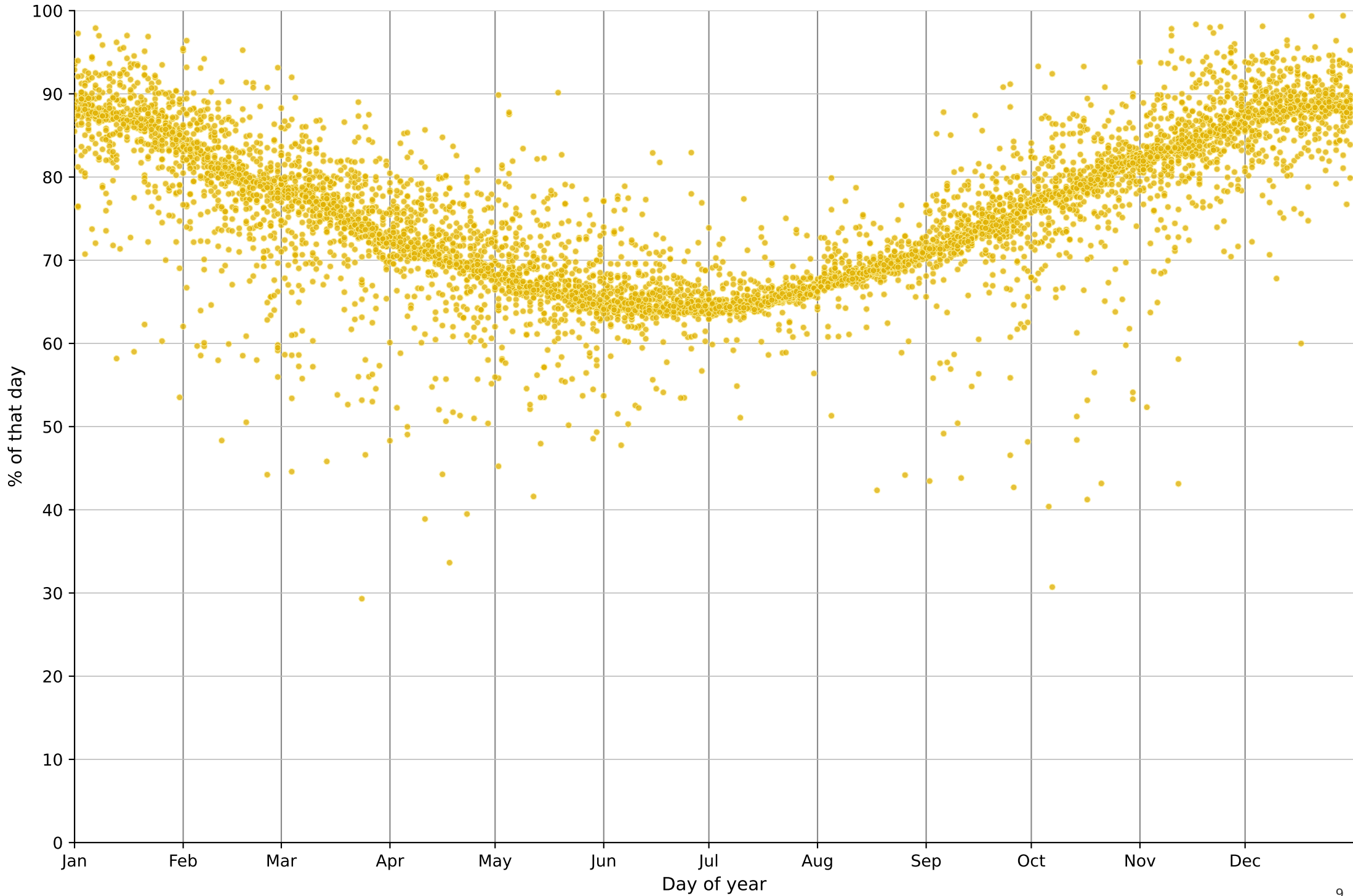
Yield distribution for each day — Wh / Wp of all PV together — 00:00-09:00
Greek - Corfu 39.748, 19.660



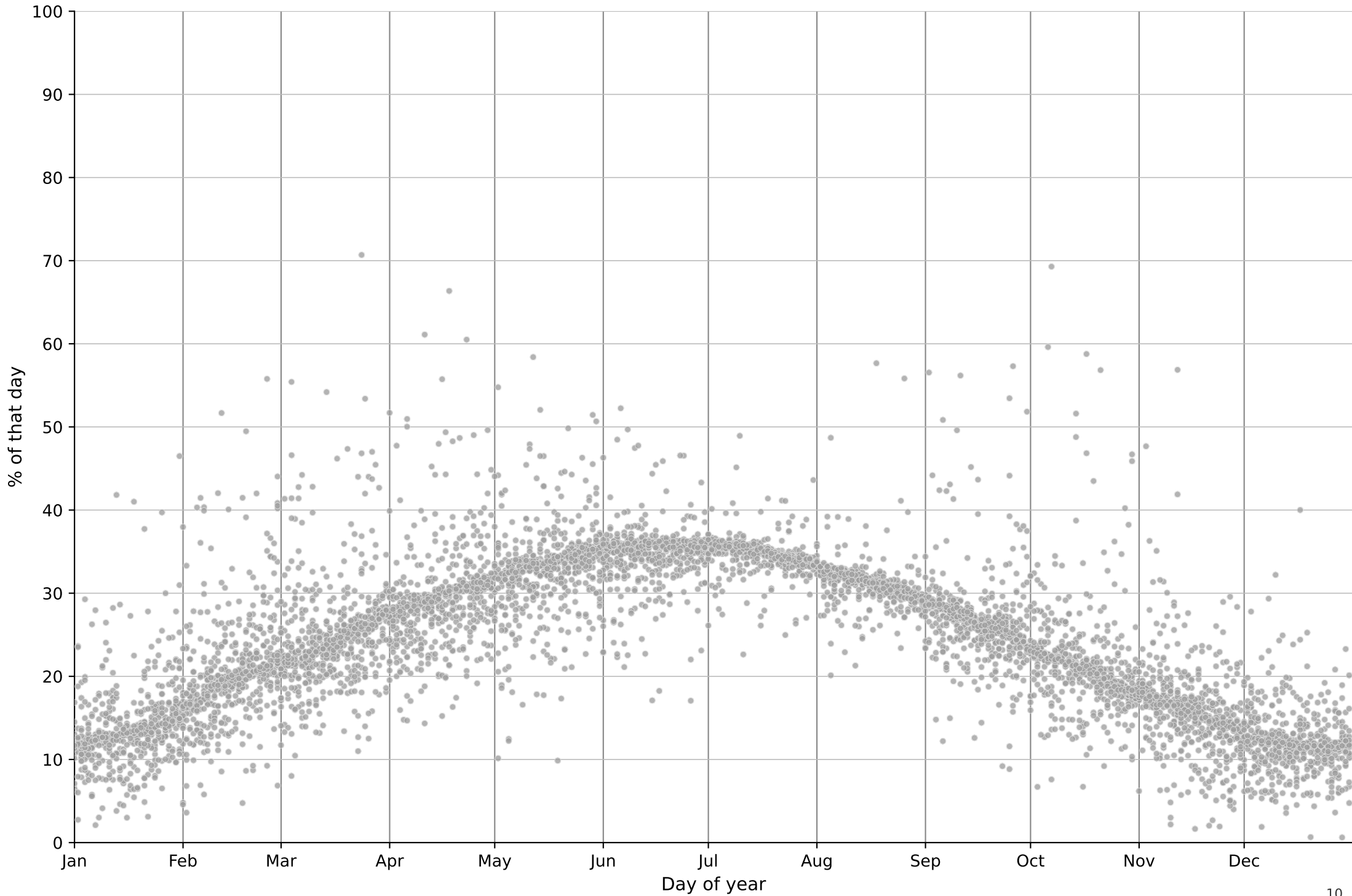
Yield distribution for each day — Wh / Wp of all PV together — 15:00-23:59
Greek - Corfu 39.748, 19.660



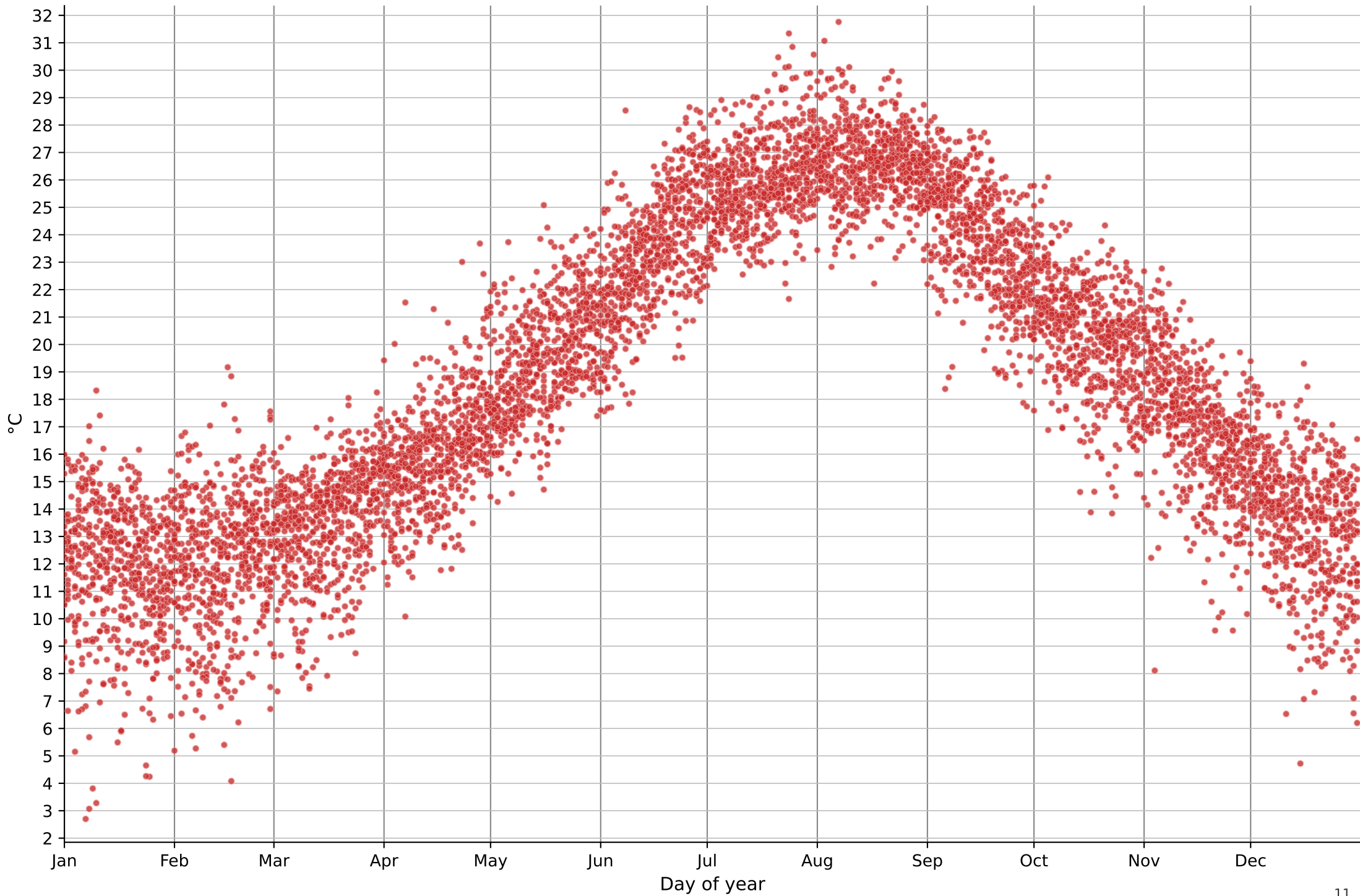
Share of the day's yield in 09:00-15:00 winter time
Greek - Corfu 39.748, 19.660



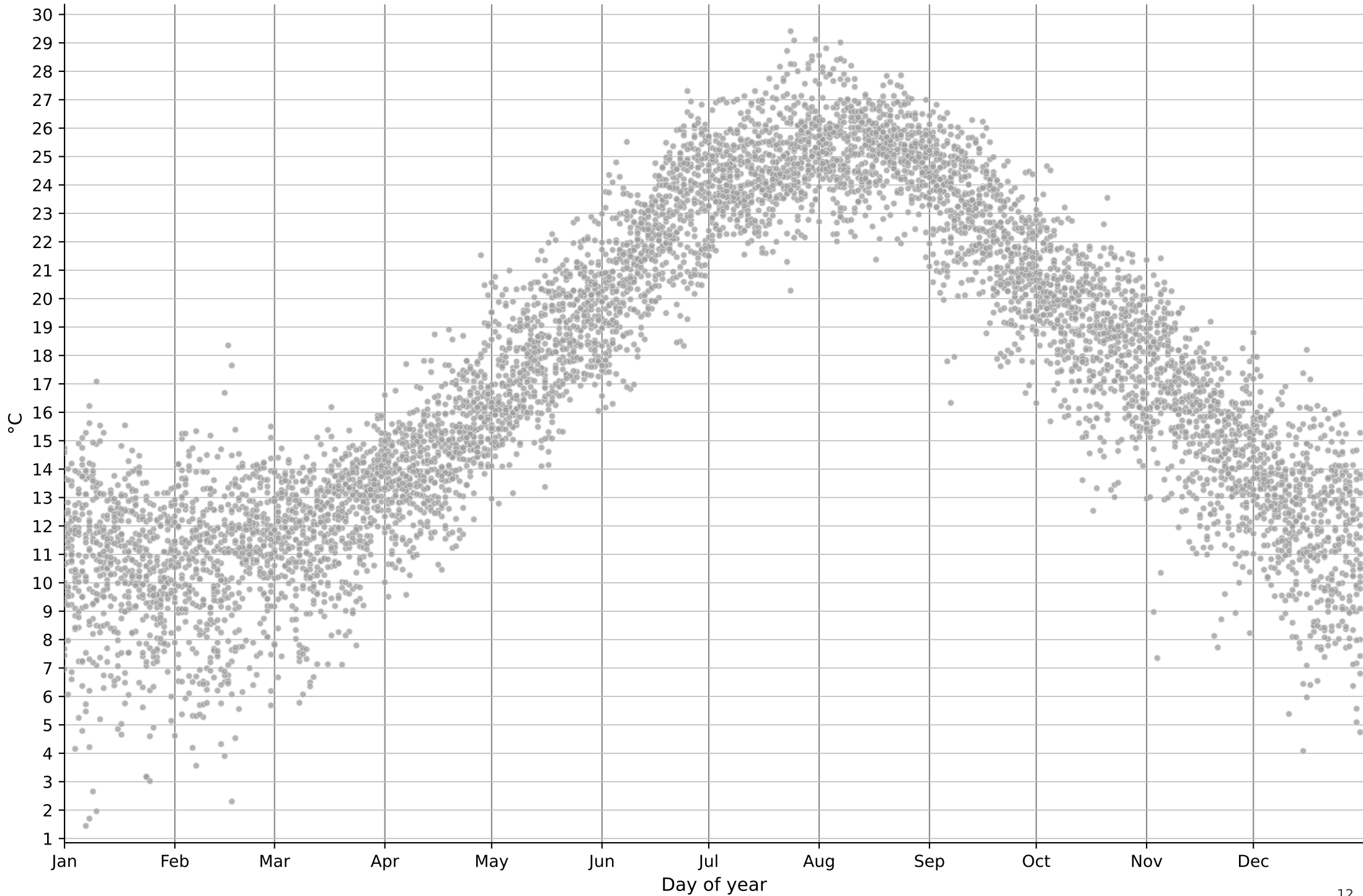
Share of the day's yield outside 09:00-15:00 winter time
Greek - Corfu 39.748, 19.660



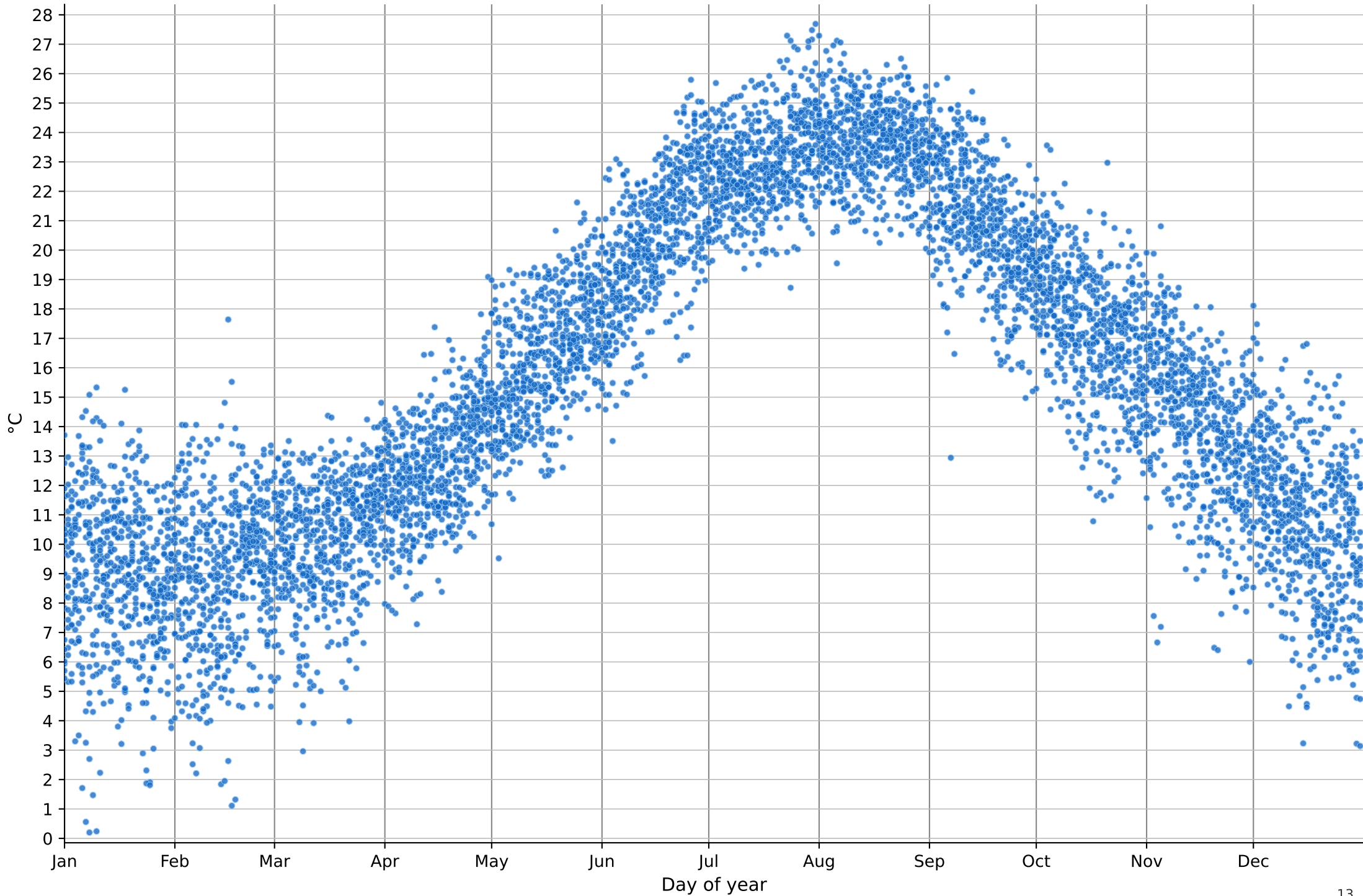
Highest temperature of each day
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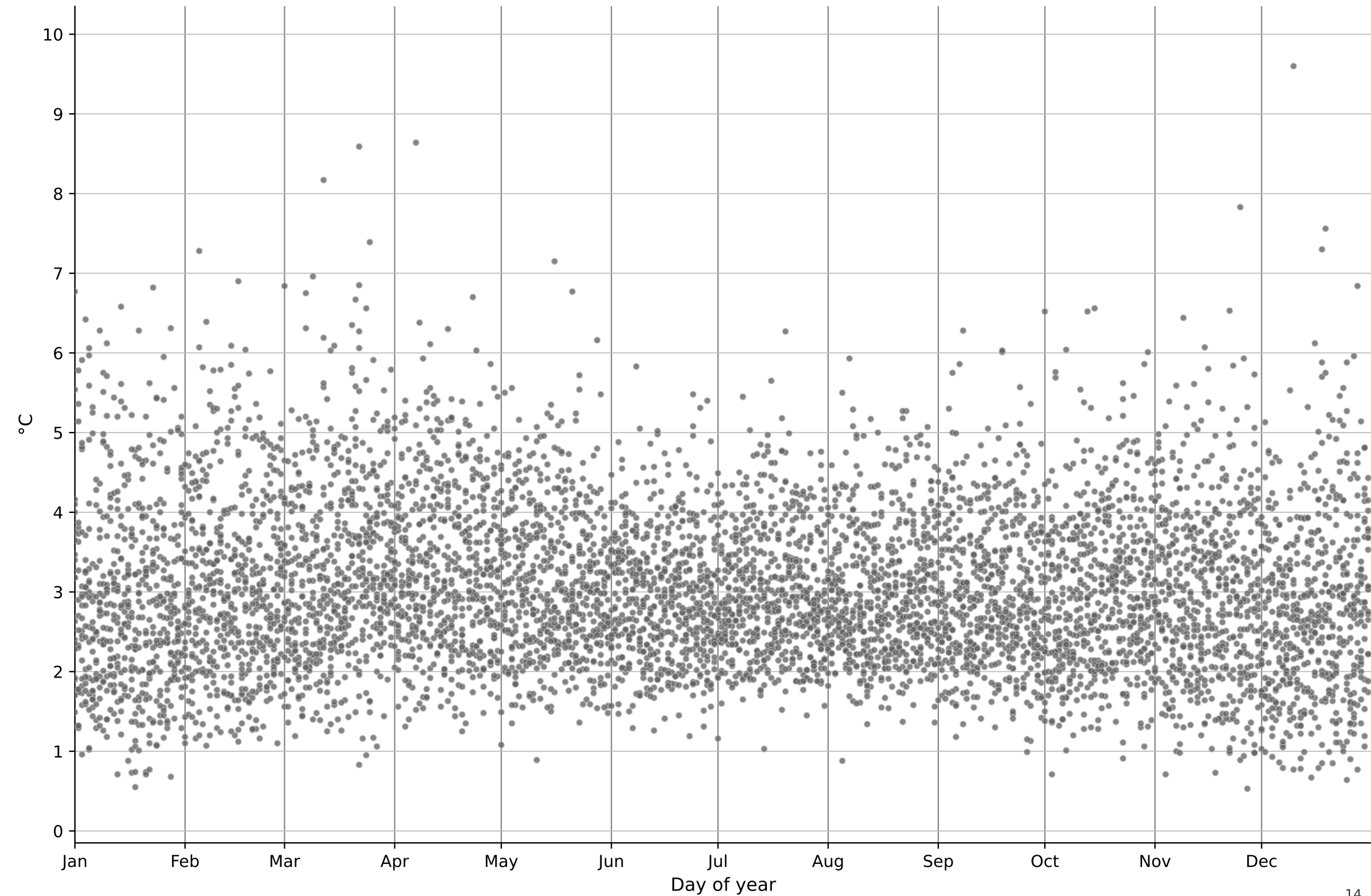
Average temperature of each day
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Lowest temperature of each day
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Difference between highest and lowest temperature of each day
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Monthly and yearly specific yield (kWh/kWp = Wh/Wp)
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Month / year		Roof East 22°/-90° 19800 Wp	Roof West 22°/-90° 19800 Wp	Terrace railing south 90°/0° 4620 Wp	Terrace railing north 90°/180° 4620 Wp	Share central structure east 8°/-90° 20460 Wp	Share central structure west 8°/90° 20460 Wp	All together
January	Maximum	58.08	56.33	9.64	9.64	57.99	57.39	52.18
	average	48.30	45.25	7.70	7.70	48.16	46.87	43.09
	minimum	33.72	30.44	6.61	6.61	33.24	31.89	29.75
February	Maximum	75.29	72.95	21.57	11.31	75.53	74.41	68.05
	average	59.15	58.32	16.24	10.39	59.79	59.51	54.48
	minimum	47.10	47.17	11.57	9.02	48.79	48.61	44.69
March	Maximum	119.54	118.18	74.87	18.23	122.64	122.14	112.83
	average	96.59	96.94	60.10	16.30	99.48	99.72	92.03
	minimum	79.38	81.37	49.52	14.40	82.43	83.52	76.82
April	Maximum	142.17	145.57	86.20	23.30	148.55	149.96	136.94
	average	124.04	126.85	74.73	20.65	129.29	130.46	119.46
	minimum	107.05	103.89	64.65	18.53	109.69	108.58	100.70
May	Maximum	170.12	171.61	69.85	28.96	177.49	178.26	161.42
	average	152.39	154.38	64.63	26.39	159.06	159.89	145.05
	minimum	129.90	130.91	56.27	23.47	135.05	135.37	123.45
June	Maximum	179.32	181.57	57.19	28.29	186.78	187.74	169.11
	average	166.62	170.15	55.55	26.37	174.04	175.61	158.20
	minimum	152.10	155.54	53.70	24.33	159.05	160.55	144.90
July	Maximum	178.86	184.53	62.36	24.87	187.11	189.70	170.21
	average	175.17	179.57	61.21	22.87	183.31	185.40	166.62
	minimum	165.04	172.86	59.55	22.14	176.55	178.76	161.08
August	Maximum	160.43	163.15	83.28	19.79	168.06	169.33	153.40
	average	153.99	156.04	80.48	17.83	161.10	162.00	147.10
	minimum	142.61	143.09	74.33	16.32	148.55	148.66	135.57
September	Maximum	123.11	122.01	78.87	17.01	126.66	126.17	116.42
	average	112.91	113.87	72.31	15.00	116.69	117.10	107.81
	minimum	101.52	106.40	64.75	12.95	106.31	108.21	98.97
October	Maximum	94.43	93.07	42.77	14.82	96.57	96.06	88.00
	average	81.25	80.36	36.93	12.35	83.11	82.81	76.00
	minimum	67.71	61.96	28.36	11.10	67.75	65.45	61.17
November	Maximum	64.09	61.00	9.56	9.56	63.82	62.66	57.32
	average	51.57	49.01	8.79	8.79	51.46	50.48	46.33
	minimum	44.93	42.79	7.82	7.82	45.25	44.88	41.09
December	Maximum	54.44	54.95	7.99	7.99	54.86	55.16	49.88
	average	42.15	40.77	7.17	7.17	42.13	41.57	38.11
	minimum	30.36	28.27	6.42	6.42	30.10	29.21	27.18
All years	Maximum	1315.3	1316.3	574.5	202.1	1355.2	1357.8	1236.1
	average	1264.1	1271.5	545.8	191.8	1307.6	1311.4	1194.3
	minimum	1180.7	1218.0	525.8	186.2	1256.4	1259.6	1149.5

Highest combined yield hour: 2020-05-26 11:10 UTC 65676.4 W (0.732 W/Wp) of 89760 Wp installed. Use this hour to size battery charge power.

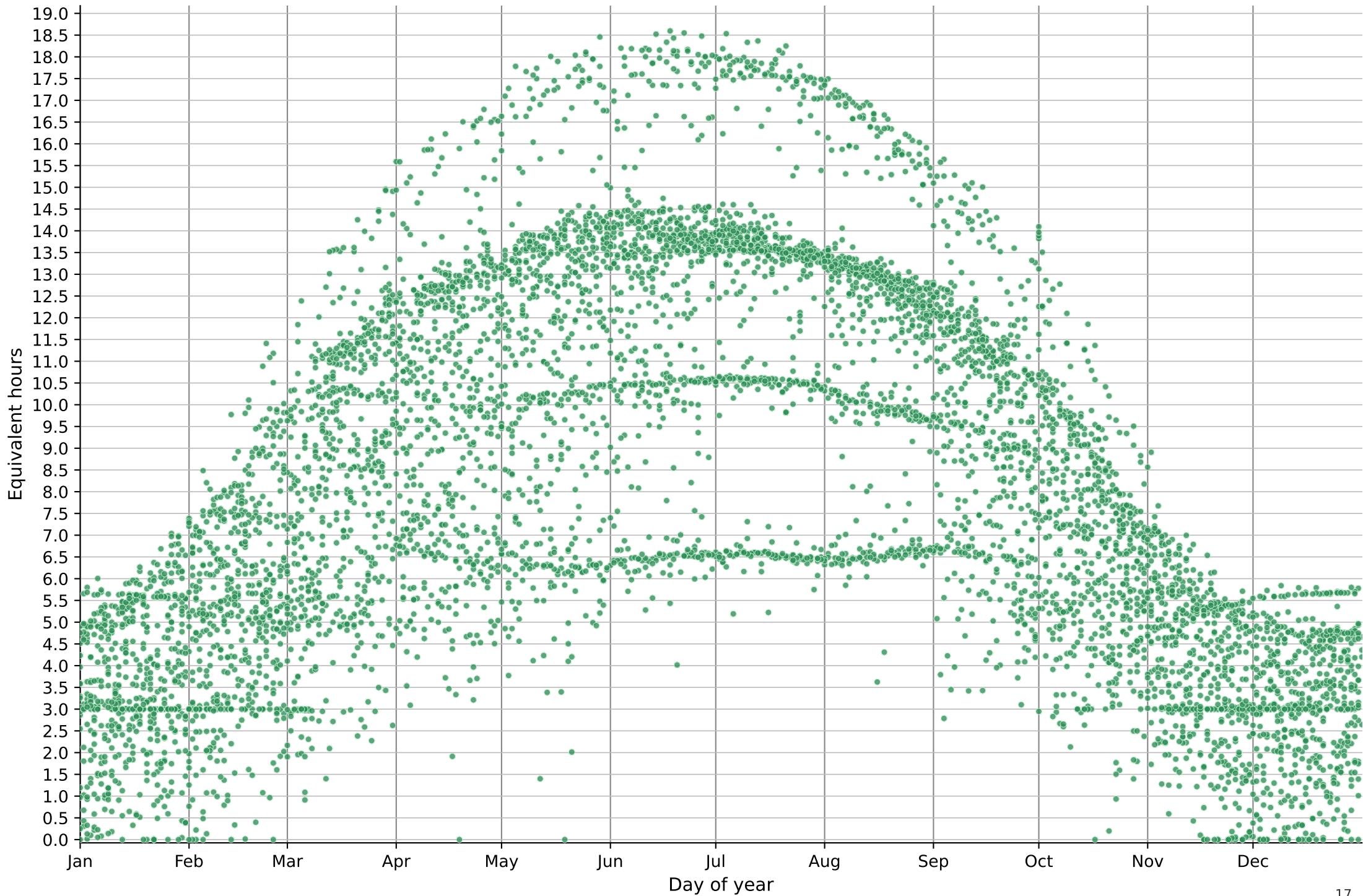
Monthly and yearly total yield (kWh)
Greek - Corfu 39.748, 19.660

Month / year		Roof East 22°/-90° 19800 Wp	Roof West 22°/-90° 19800 Wp	Terrace railing south 90°/0° 4620 Wp	Terrace railing north 90°/180° 4620 Wp	Share central structure east 8°/-90° 20460 Wp	Share central structure west 8°/90° 20460 Wp	All together
January	Maximum	1150.0	1115.3	44.6	44.6	1186.6	1174.3	4684.0
	average	956.4	896.0	35.6	35.6	985.3	958.9	3867.7
	minimum	667.6	602.8	30.5	30.5	680.0	652.5	2670.2
February	Maximum	1490.7	1444.5	99.6	52.2	1545.3	1522.5	6108.1
	average	1171.2	1154.7	75.0	48.0	1223.4	1217.7	4890.0
	minimum	932.5	933.9	53.5	41.7	998.3	994.5	4011.7
March	Maximum	2366.9	2340.1	345.9	84.2	2509.1	2499.0	10127.5
	average	1912.4	1919.4	277.6	75.3	2035.4	2040.2	8260.5
	minimum	1571.8	1611.2	228.8	66.5	1686.6	1708.8	6895.4
April	Maximum	2814.9	2882.3	398.2	107.6	3039.4	3068.1	12291.5
	average	2456.0	2511.5	345.3	95.4	2645.2	2669.2	10722.6
	minimum	2119.6	2057.1	298.7	85.6	2244.2	2221.5	9038.7
May	Maximum	3368.4	3397.9	322.7	133.8	3631.5	3647.3	14489.3
	average	3017.3	3056.7	298.6	121.9	3254.3	3271.3	13020.1
	minimum	2571.9	2592.1	260.0	108.4	2763.2	2769.7	11080.9
June	Maximum	3550.5	3595.1	264.2	130.7	3821.6	3841.1	15179.1
	average	3299.1	3369.0	256.6	121.8	3560.9	3593.1	14200.4
	minimum	3011.6	3079.7	248.1	112.4	3254.2	3284.9	13006.2
July	Maximum	3541.4	3653.6	288.1	114.9	3828.3	3881.2	15277.6
	average	3468.4	3555.6	282.8	105.7	3750.5	3793.3	14956.2
	minimum	3267.9	3422.6	275.1	102.3	3612.1	3657.4	14458.4
August	Maximum	3176.5	3230.4	384.8	91.4	3438.5	3464.5	13768.9
	average	3049.1	3089.6	371.8	82.4	3296.1	3314.6	13203.5
	minimum	2823.6	2833.1	343.4	75.4	3039.4	3041.5	12169.2
September	Maximum	2437.6	2415.7	364.4	78.6	2591.4	2581.4	10450.3
	average	2235.7	2254.5	334.1	69.3	2387.4	2395.9	9676.8
	minimum	2010.0	2106.6	299.2	59.8	2175.0	2214.1	8883.5
October	Maximum	1869.8	1842.8	197.6	68.5	1975.8	1965.3	7898.5
	average	1608.7	1591.1	170.6	57.1	1700.4	1694.2	6822.0
	minimum	1340.7	1226.8	131.0	51.3	1386.2	1339.1	5490.9
November	Maximum	1268.9	1207.8	44.2	44.2	1305.7	1282.0	5144.7
	average	1021.1	970.3	40.6	40.6	1052.9	1032.8	4158.3
	minimum	889.6	847.3	36.1	36.1	925.8	918.3	3688.1
December	Maximum	1077.9	1088.1	36.9	36.9	1122.4	1128.5	4477.1
	average	834.6	807.2	33.1	33.1	862.0	850.4	3420.5
	minimum	601.2	559.7	29.6	29.6	615.9	597.7	2439.2
All years	Maximum	26042	26063	2654	934	27728	27780	110955
	average	25030	25176	2522	886	26754	26831	107199
	minimum	23377	24117	2429	860	25705	25772	103182

Highest combined yield hour: 2020-05-26 11:10 UTC 65676.4 W (0.732 W/Wp) of 89760 Wp installed. Use this hour to size battery charge power.

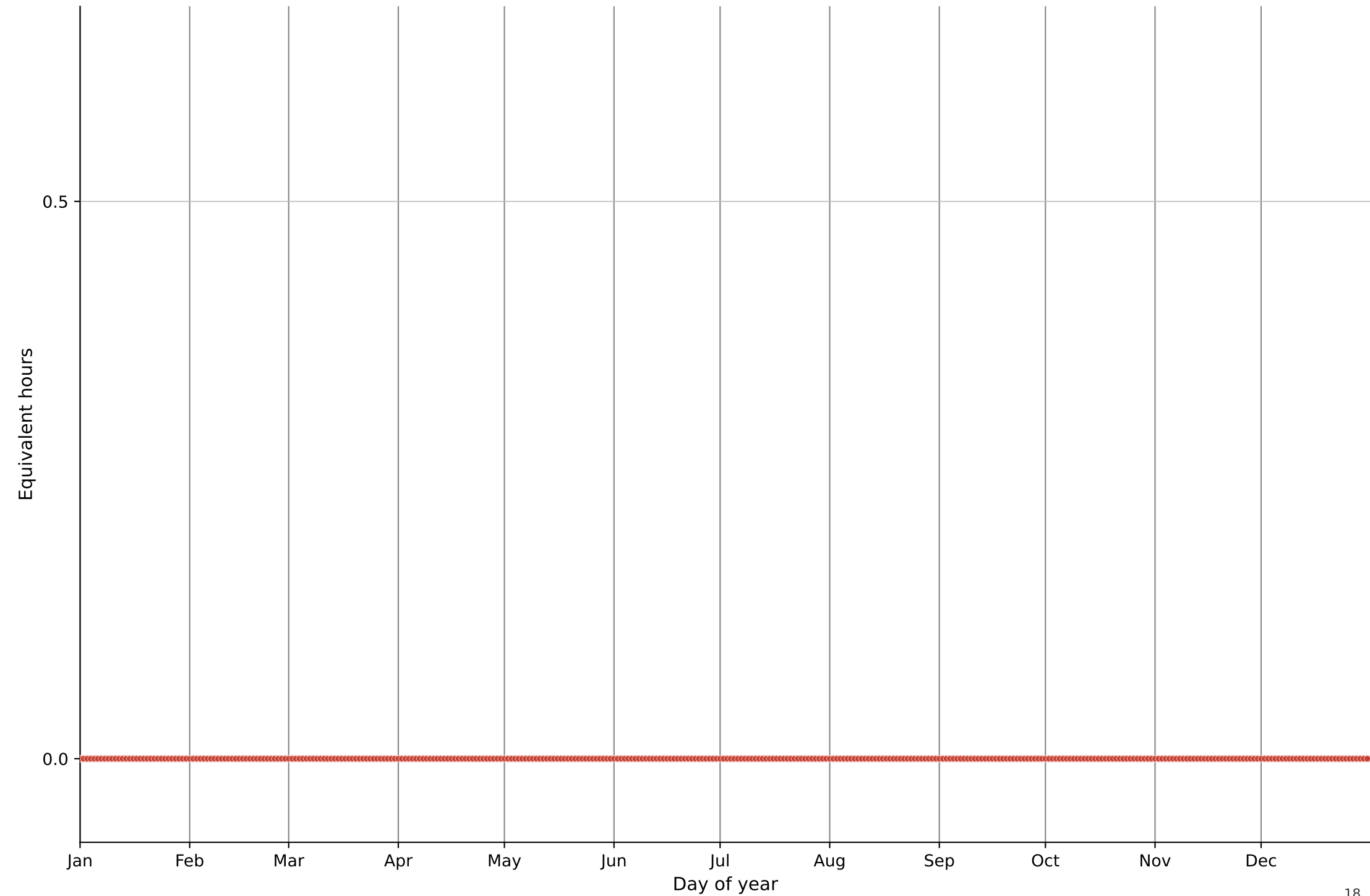
Export energy as equivalent hours (kWh / grid kW)

Greek - Corfu 39.748, 19.660

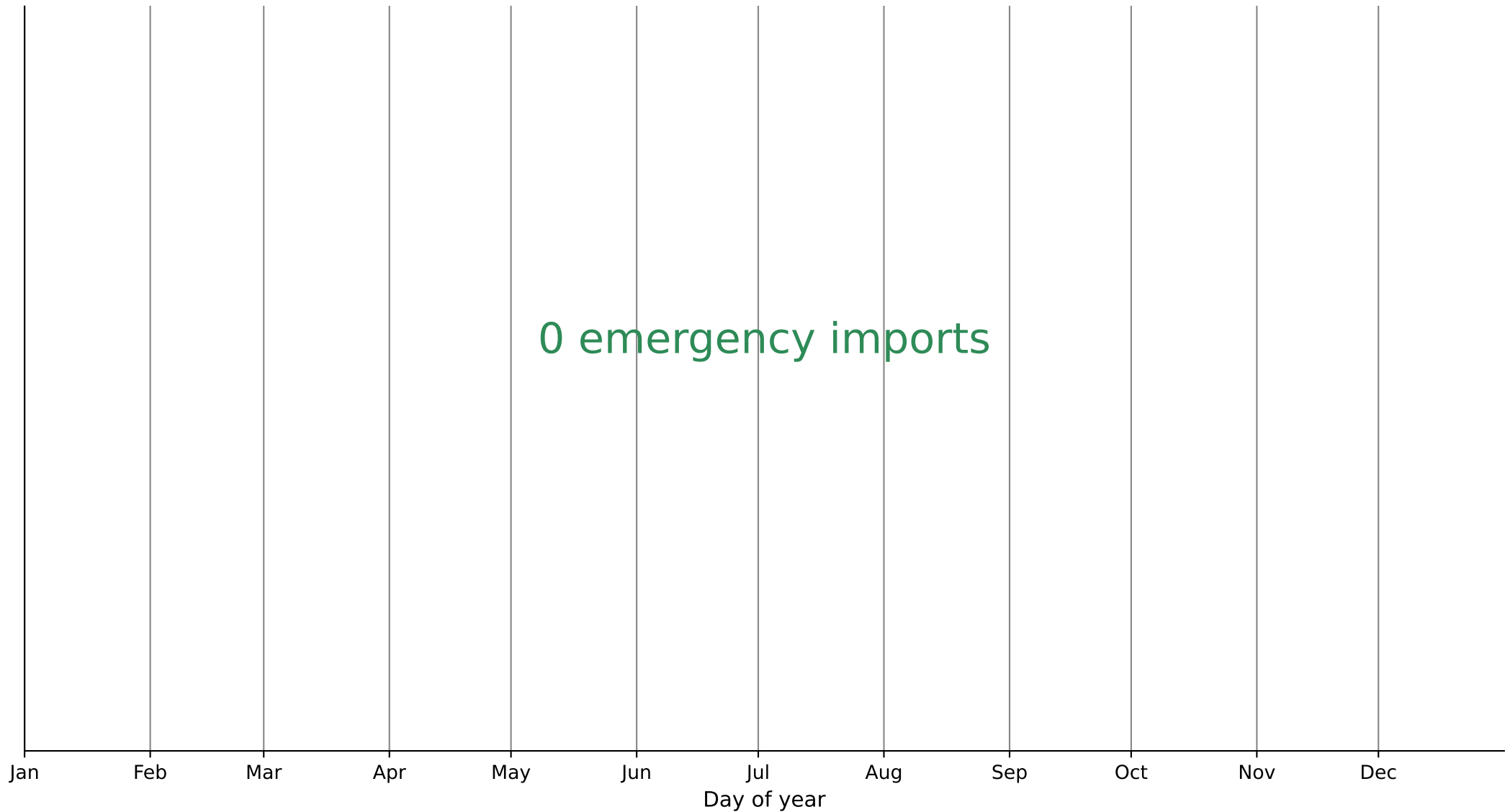


Import energy as equivalent hours (kWh / grid kW)

Greek - Corfu 39.748, 19.660



Emergency import hours: 0 days with an emergency: 0
Greek - Corfu 39.748, 19.660



Emergency = this hour's grid import is above the month's max import kW. 2 kW means up to 48 kWh in 24 hours. More than 2 kW in an hour is the higher grid fee. Import inside that cap is not an emergency. Preferred cheap hours are 00:00-06:00 and 09:00-15:00 winter time.

Energy in kWh
Greek - Corfu 39.748, 19.660

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	All
Export to grid													
month Maximum	3670	5161	8410	9162	10333	10464	10843	10105	8122	6828	4142	3573	84003
month average	2995	4055	6865	8038	9412	10012	10522	9872	7750	5852	3243	2602	81219
month minimum	1918	3239	5625	7105	8359	9302	10313	9337	7328	4618	2837	1736	77590
day Maximum	190.0	308.1	421.0	453.4	498.3	502.1	500.4	472.3	422.4	380.5	240.5	157.7	502.1
day average	96.6	143.7	221.5	267.9	303.6	333.7	339.4	318.5	258.3	188.8	108.1	83.9	222.4
day minimum	0.0	0.0	24.6	0.0	0.0	108.4	140.2	97.9	75.2	0.0	0.0	0.0	0.0
Import from grid													
month Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
month average	0	0	0	0	0	0	0	0	0	0	0	0	0
month minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
day Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total energy used for house													
month Maximum	607	560	586	530	516	474	476	488	463	500	526	575	6171
month average	581	528	565	519	506	466	469	474	453	489	505	557	6112
month minimum	563	511	552	506	490	457	461	464	447	469	491	532	6040
day Maximum	21.5	21.2	20.3	21.6	21.0	20.7	20.4	19.2	19.2	17.9	19.6	20.5	21.6
day average	18.8	18.7	18.2	17.3	16.3	15.5	15.1	15.3	15.1	15.8	16.8	18.0	16.7
day minimum	15.6	16.2	16.9	15.1	15.1	15.1	14.8	14.8	14.8	15.1	15.2	15.9	14.8

Month rows: kWh in that month. Day rows: best / average / worst day.
Total energy used for house = household + car + heating + cooling + DHW + direct electric.
PV not exported and not marked wasted is still in the battery, or could not leave because the grid was already full. It is not house use.

Energy by price
Greek - Corfu 39.748, 19.660

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	All
Export													
month Maximum	734	844	1060	922	966	966	985	1020	939	969	756	703	10045
month average	575	693	933	869	925	923	964	964	884	879	607	514	9729
month minimum	365	579	803	831	876	879	939	932	854	722	519	335	9216
day Maximum	36.5	43.4	47.4	45.7	46.5	47.8	48.1	45.9	43.2	46.9	36.5	34.7	48.1
day average	18.5	24.6	30.1	29.0	29.8	30.8	31.1	31.1	29.5	28.4	20.2	16.6	26.6
day minimum	0.0	0.0	3.0	0.0	0.0	13.0	13.7	10.4	7.4	0.0	0.0	0.0	0.0
Import													
month Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
month average	0	0	0	0	0	0	0	0	0	0	0	0	0
month minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
day Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Peak grid fee													
month Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
month average	0	0	0	0	0	0	0	0	0	0	0	0	0
month minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
day Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Import incl. peak fee													
month Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
month average	0	0	0	0	0	0	0	0	0	0	0	0	0
month minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
day Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Balance													
month Maximum	734	844	1060	922	966	966	985	1020	939	969	756	703	10045
month average	575	693	933	869	925	923	964	964	884	879	607	514	9729
month minimum	365	579	803	831	876	879	939	932	854	722	519	335	9216
day Maximum	36.5	43.4	47.4	45.7	46.5	47.8	48.1	45.9	43.2	46.9	36.5	34.7	48.1
day average	18.5	24.6	30.1	29.0	29.8	30.8	31.1	31.1	29.5	28.4	20.2	16.6	26.6
day minimum	0.0	0.0	3.0	0.0	0.0	13.0	13.7	10.4	7.4	0.0	0.0	0.0	0.0

Currency in Your units. Import and export use the cent/kWh of that hour. Peak fee 6.33 / kW / month is the highest import hour of the month (hourly stand-in for the 15-minute peak) and is added to that month's Sell only when export is above 0. At 0 cent, export PV yield only, not the battery. Do not sell when the earning is negative.

Export in kWh during price hours
Greek - Corfu 39.748, 19.660

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	All
Export total													
month Maximum	3670	5161	8410	9162	10333	10464	10843	10105	8122	6828	4142	3573	84003
month average	2995	4055	6865	8038	9412	10012	10522	9872	7750	5852	3243	2602	81219
month minimum	1918	3239	5625	7105	8359	9302	10313	9337	7328	4618	2837	1736	77590
day Maximum	190.0	308.1	421.0	453.4	498.3	502.1	500.4	472.3	422.4	380.5	240.5	157.7	502.1
day average	96.6	143.7	221.5	267.9	303.6	333.7	339.4	318.5	258.3	188.8	108.1	83.9	222.4
day minimum	0.0	0.0	24.6	0.0	0.0	108.4	140.2	97.9	75.2	0.0	0.0	0.0	0.0
Export during high price hours													
month Maximum	3584	3791	3665	3285	3155	2808	2934	3274	3530	3830	3694	3567	37860
month average	2914	3179	3490	3068	2933	2682	2779	3016	3264	3634	2999	2593	36552
month minimum	1886	2745	3399	2934	2797	2570	2709	2949	3169	3314	2549	1728	34495
day Maximum	159.9	161.1	158.5	151.5	158.9	153.6	151.2	142.1	154.0	153.9	157.5	157.7	161.1
day average	94.0	112.7	112.6	102.3	94.6	89.4	89.7	97.3	108.8	117.2	100.0	83.7	100.1
day minimum	0.0	0.0	24.6	0.0	0.0	66.2	71.4	70.9	54.5	0.0	0.0	0.0	0.0
Export during medium price hours													
month Maximum	243	1409	3629	4722	5673	5920	6156	5386	3941	2704	629	27	37368
month average	80	827	2611	3906	4941	5568	5956	5252	3601	1964	244	9	34960
month minimum	12	273	1702	3192	4053	5116	5767	4822	3208	1152	8	1	32993
day Maximum	42.1	156.6	248.4	279.4	306.8	313.5	313.4	300.9	251.0	218.9	126.0	5.2	313.5
day average	2.6	29.3	84.2	130.2	159.4	185.6	192.1	169.4	120.0	63.3	8.1	0.3	95.7
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	40.1	27.0	0.0	0.0	0.0	0.0	0.0
Export during low price hours													
month Maximum	0	145	1195	1407	1862	1999	1956	1773	1068	389	0	0	10477
month average	0	48	764	1064	1538	1762	1787	1604	885	254	0	0	9706
month minimum	0	0	479	635	1151	1389	1565	1391	596	89	0	0	8194
day Maximum	0.0	40.6	81.0	99.9	108.0	108.0	108.0	84.1	81.0	54.0	0.0	0.0	108.0
day average	0.0	1.7	24.6	35.5	49.6	58.7	57.6	51.7	29.5	8.2	0.0	0.0	26.6
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

kWh exported while that price band was active. Not the money. Winter time. High 06:00–09:00 and 17:00–20:00, sold first. Low 09:00–15:00, sold last. Medium is the rest.

Heat pump
Greek - Corfu 39.748, 19.660

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	All
Heating													
month Maximum	122	107	103	71	44	18	3	3	14	29	67	99	597
month average	98	88	83	61	35	12	1	0	5	19	48	82	531
month minimum	81	65	71	50	21	3	0	0	0	1	35	59	470
day Maximum	5.8	5.6	4.6	6.3	5.8	5.5	2.3	1.0	3.8	2.5	4.2	5.1	6.3
day average	3.2	3.1	2.7	2.0	1.1	0.4	0.0	0.0	0.2	0.6	1.6	2.6	1.5
day minimum	0.0	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.0
Cooling													
month Maximum	0.00	0.00	0.00	0.00	0.00	5.88	17.22	29.80	12.79	0.00	0.00	0.00	50.33
month average	0.00	0.00	0.00	0.00	0.00	1.42	9.46	15.46	3.77	0.00	0.00	0.00	30.10
month minimum	0.00	0.00	0.00	0.00	0.00	0.00	2.14	2.50	0.00	0.00	0.00	0.00	11.02
day Maximum	0.00	0.00	0.00	0.00	0.00	3.46	5.65	4.44	4.40	0.00	0.00	0.00	5.65
day average	0.00	0.00	0.00	0.00	0.00	0.05	0.31	0.50	0.13	0.00	0.00	0.00	0.08
day minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DHW													
month Maximum	51	47	50	39	38	34	25	25	25	37	39	43	444
month average	49	45	48	38	36	33	25	25	24	36	37	41	438
month minimum	48	43	47	36	35	32	24	24	24	34	36	39	432
day Maximum	1.7	1.7	1.7	1.4	1.3	1.2	0.8	0.8	0.9	1.3	1.4	1.4	1.7
day average	1.6	1.6	1.5	1.3	1.2	1.1	0.8	0.8	0.8	1.2	1.2	1.3	1.2
day minimum	1.4	1.4	1.4	1.1	1.1	1.1	0.8	0.8	0.8	1.1	1.1	1.2	0.8
Direct electric													
month Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
month average	0	0	0	0	0	0	0	0	0	0	0	0	0
month minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
day Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

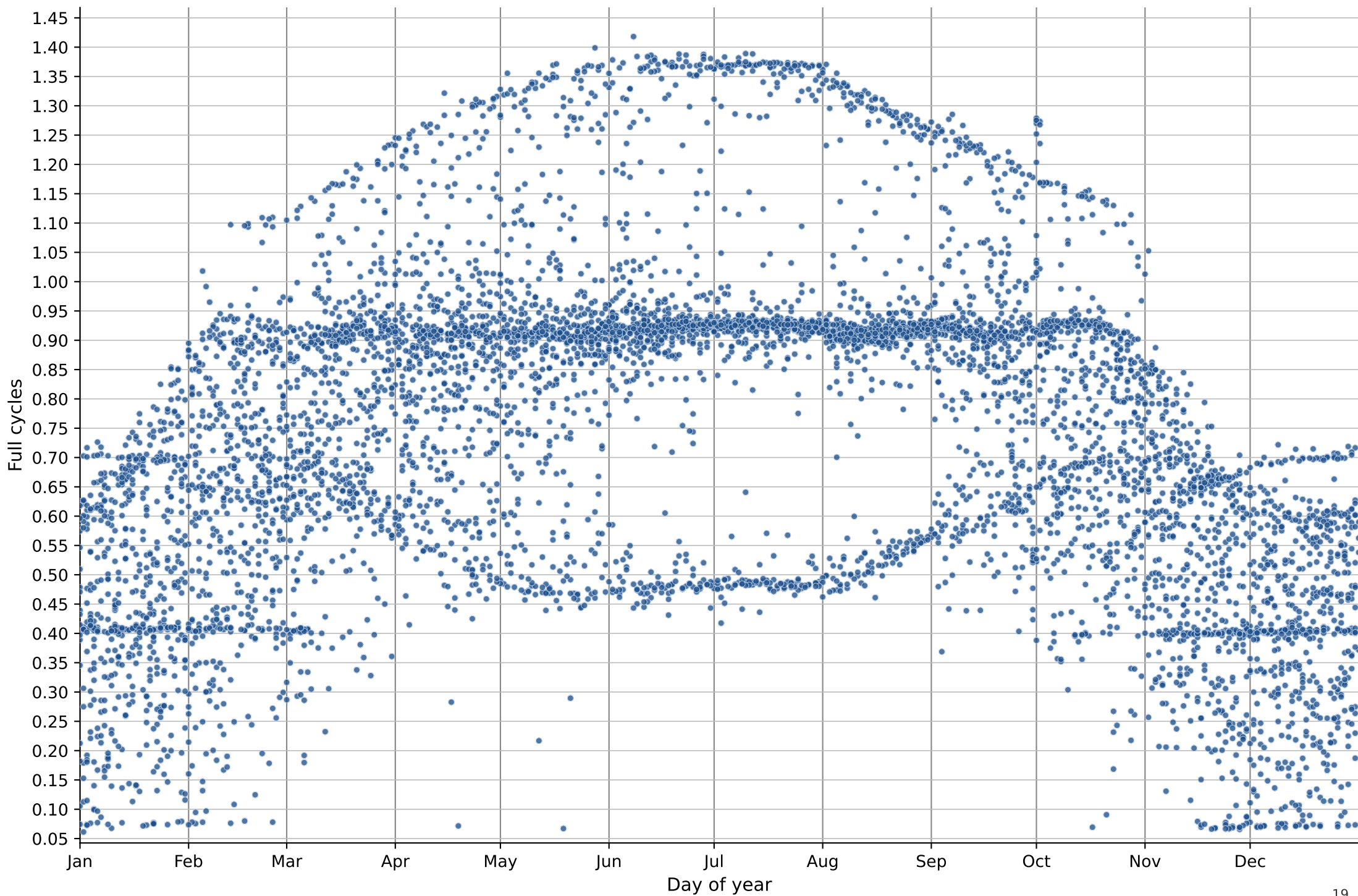
Heating, cooling and DHW are electricity. Direct electric is the part the heat pump could not cover.

Battery
Greek - Corfu 39.748, 19.660

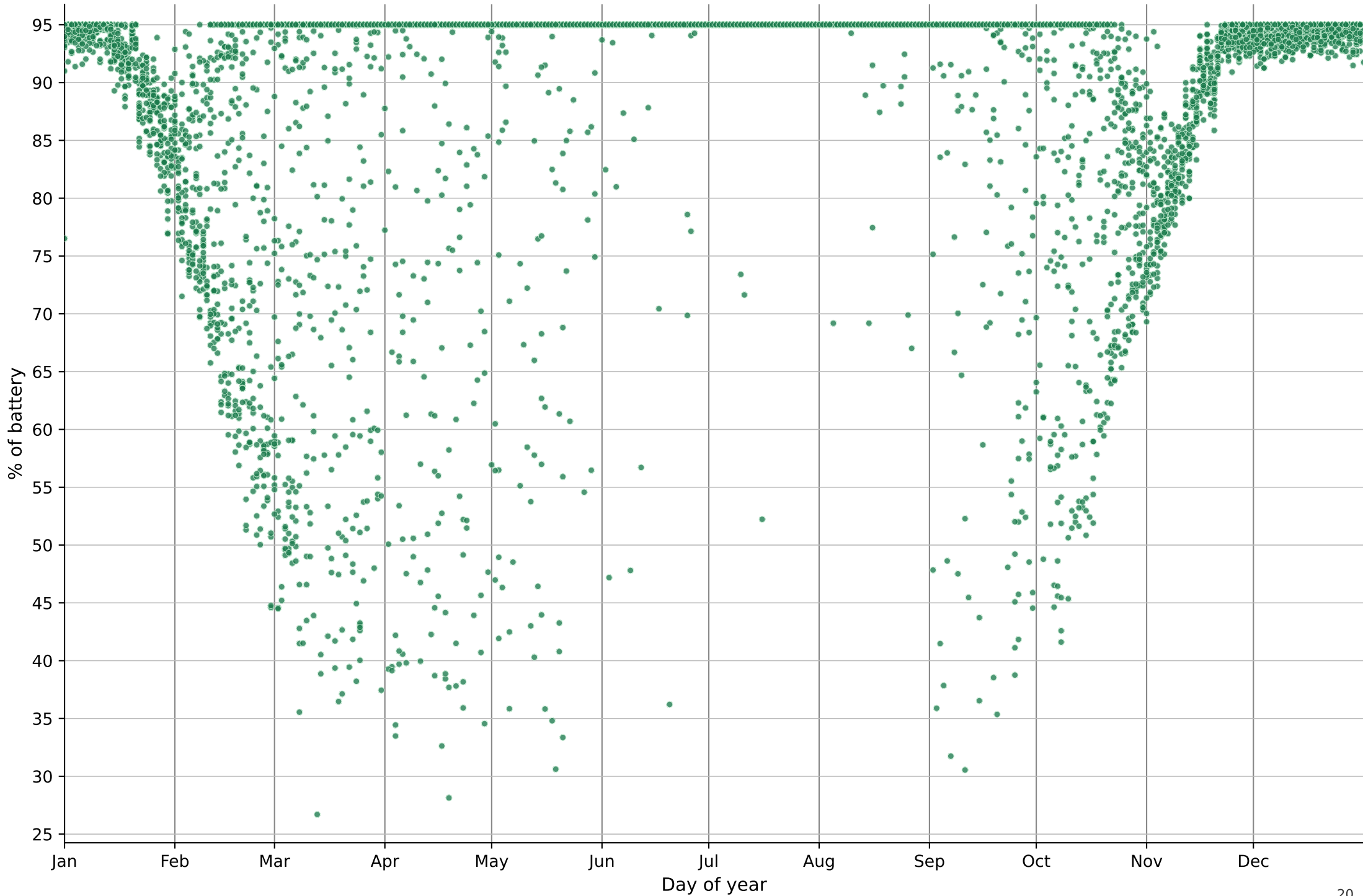
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	All
Wasted													
month Maximum	0	25	563	2202	3148	3668	3531	2635	1257	30	0	0	15201
month average	0	4	349	1640	2532	3152	3361	2290	869	19	0	0	14216
month minimum	0	0	168	940	1625	2668	3042	1753	443	4	0	0	13114
day Maximum	0.0	9.5	60.8	189.0	219.4	231.7	212.4	186.6	127.7	19.8	0.0	0.0	231.7
day average	0.0	0.1	11.3	54.7	81.7	105.1	108.4	73.9	29.0	0.6	0.0	0.0	38.9
day minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Full cycles													
month Maximum	17.42	22.70	27.15	27.42	28.59	28.10	29.17	28.80	27.06	26.95	19.01	16.84	280.32
month average	14.57	17.98	24.21	25.67	27.46	27.52	28.59	28.31	25.94	23.87	15.33	12.88	272.32
month minimum	10.07	14.99	21.40	24.38	26.07	26.74	27.90	27.91	24.36	20.05	13.61	9.32	259.28
day Maximum	0.85	1.11	1.25	1.33	1.40	1.42	1.39	1.37	1.29	1.28	1.05	0.72	1.42
day average	0.47	0.64	0.78	0.86	0.89	0.92	0.92	0.91	0.86	0.77	0.51	0.42	0.75
day minimum	0.06	0.07	0.18	0.07	0.07	0.43	0.42	0.46	0.37	0.07	0.07	0.07	0.06
Charge C													
month Maximum	0.14	0.20	0.23	0.24	0.24	0.24	0.23	0.23	0.22	0.19	0.16	0.12	2.36
month average	0.13	0.18	0.22	0.23	0.23	0.23	0.22	0.22	0.21	0.18	0.14	0.11	2.31
month minimum	0.13	0.16	0.21	0.23	0.23	0.22	0.22	0.21	0.20	0.18	0.13	0.11	2.29
day Maximum	0.14	0.20	0.23	0.24	0.24	0.24	0.23	0.23	0.22	0.19	0.16	0.12	0.24
day average	0.09	0.12	0.16	0.19	0.20	0.21	0.21	0.20	0.18	0.14	0.10	0.09	0.16
day minimum	0.02	0.01	0.03	0.03	0.04	0.04	0.10	0.12	0.04	0.01	0.01	0.01	0.01
Discharge C													
month Maximum	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.12	1.39
month average	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.12	0.12	0.12	1.39
month minimum	0.11	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1.38
day Maximum	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.12	0.12
day average	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
day minimum	0.00	0.01	0.10	0.01	0.00	0.11	0.11	0.11	0.10	0.01	0.00	0.01	0.00

Wasted = PV left when the export price is negative and the battery is full. Full cycles = discharge kWh / 257.2 kWh. Battery export only into hours whose export price is above 0, highest price first. At 0 cent on

Battery cycles per day (discharge / 257.2 kWh)
Greek - Corfu 39.748, 19.660



Battery max charge state per day (257.2 kWh = 100 %)
Greek - Corfu 39.748, 19.660



Battery min charge state per day (257.2 kWh = 100 %)
Greek - Corfu 39.748, 19.660

