

DegerHellas LTD

Energy Systems

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YIELDS S100-SR 2022 - 2023



Basic installation data:

Solar plant identification: Kogias
Location: Spercheiada/Fthiotida
Country/Region: Greece
Longitude: 38°90'75.72" North
Latitude: 22°12'73.25" East

System configuration:

Rated installation output: 100 kWp
Number of trackers: 5 x S100 - SR
Number of modules: 272 x 72 cells -370 Wp bifacial
Number of inverters: 5 x REFUsol 20KW
Installer: ENERSYS

Connected to Grid since 2011

Production period

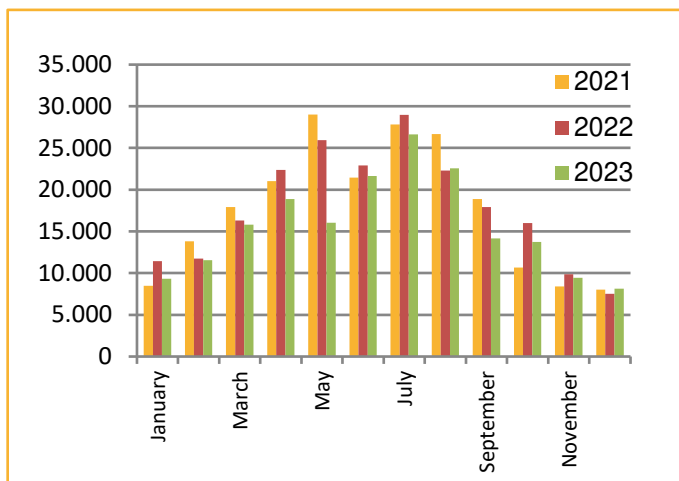
JANUARY 2021 - DECEMBER 2023

Month	2021		2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp	kWh total	kWh/kWp
January	8483,30	84,83	11444,00	114,44	9308,70	93,09
February	13829,50	138,30	11740,60	117,41	11553,90	115,54
March	17933,70	179,34	16313,30	163,13	15797,70	157,98
April	21013,10	210,13	22377,40	223,77	18871,60	188,72
May	29021,30	290,21	25940,90	259,41	16033,70	160,34
June	21430,20	214,30	22909,10	229,09	21622,10	216,22
July	27820,90	278,21	28952,40	289,52	26626,90	266,27
August	26682,50	266,83	22298,20	222,98	22562,90	225,63
September	18875,70	188,76	17929,50	179,30	14175,30	141,75
October	10651,40	106,51	16002,10	160,02	13732,80	137,33
November	8413,50	84,14	9846,20	98,46	9446,20	94,46
December	8025,50	80,26	7514,00	75,14	8134,00	81,34

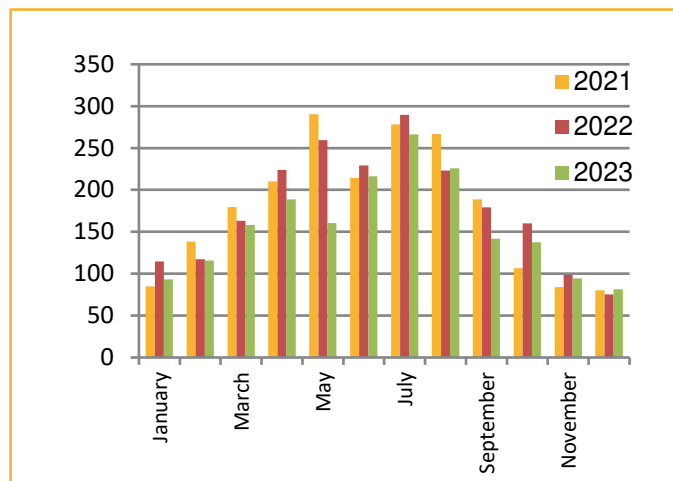


100 Kw

TOTAL	212180,60	2121,81	213267,70	2132,68	187865,80	1878,66
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Total production graph % difference : -13,52%



Production performance: kWh/kWp

Notice :

The energy installation was upgraded (from fixed mounting-previous state) to single axis tracking systems S100-SR with bifacial PV panels, at the end of September 2019.

Basic installation data:

Solar plant identification: Pentalofos
Location: pentalofos chalkidiki
Country/Region: Greece
Longitude: 40°73'44.08" North
Latitude: 22°81'21.93" East

System configuration:

Rated installation output: 999,60 kWp
Number of trackers: 41 x S100 - SR
Number of modules: 2940 x LUXOR 340Wp
Number of inverters: 50 X SINVERT PVM20
 7 x SINVERT PVM13

Connected to Grid since 2012

Production period

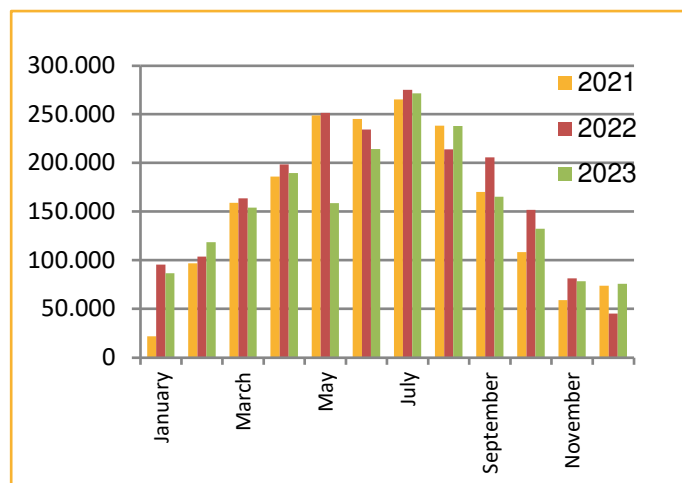
JANUARY 2021 - DECEMBER 2023

Month	2021		2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp	kWh total	kWh/kWp
January	21810,40	21,82	95505,60	95,54	86589,70	86,62
February	96645,40	96,68	103765,70	103,81	118590,90	118,64
March	159051,30	159,11	163552,10	163,62	153819,40	153,88
April	186042,20	186,12	198539,10	198,62	189363,40	189,44
May	248813,30	248,91	251228,61	251,33	158701,30	158,76
June	245046,80	245,14	234091,10	234,18	214153,50	214,24
July	265094,60	265,20	275082,40	275,19	271337,80	271,45
August	238083,50	238,18	213948,50	214,03	237853,70	237,95
September	169989,30	170,06	205616,80	205,70	165130,61	165,20
October	108304,40	108,35	151625,10	151,69	132172,70	132,23
November	59060,80	59,08	81381,50	81,41	78389,40	78,42
December	73797,00	73,83	45093,10	45,11	75627,60	75,66

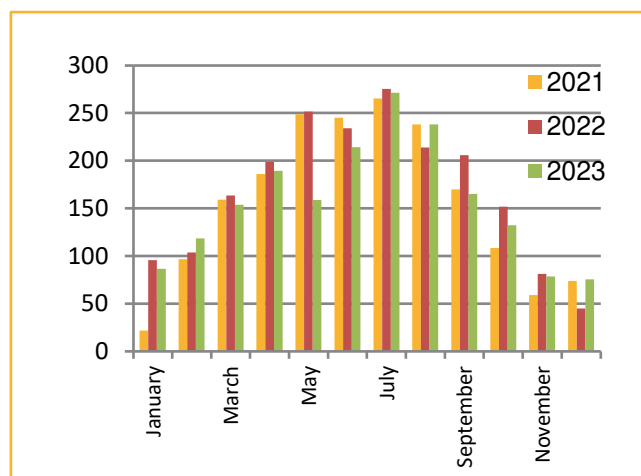


999,60 kW

TOTAL	1871739,00	1872,49	2019429,61	2020,24	1881730,01	1882,48
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Total production graph % difference : -7,32%



Production performance: kWh/kWp

Notice :

The energy installation was upgraded (from fixed mounting-previous state) to single axis tracking systems S100-SR, in the beginning of February 2021. Please keep in mind that January 2021 was a transitional month with low energy production , due to trackers' installation tasks.

Basic installation data:

Solar plant identification: Adamakos
Location: Fokida
Country/Region: Greece
Longitude: 38° 38'7"North
Latitude: 22° 30'26"East

System configuration:

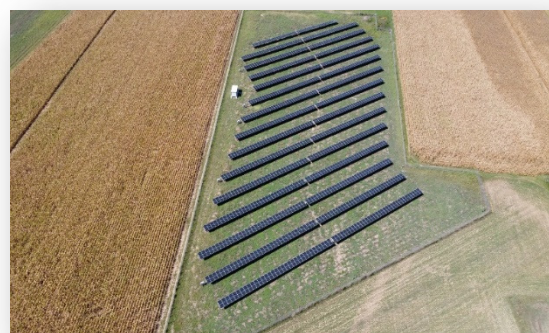
Rated installation output: 500 kWp
Number of trackers: 15 x S100 -SR
Number of modules: 940 x ECO LINE HALF CELL M144 / 530 W
Number of inverters: 7 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2021

Production period

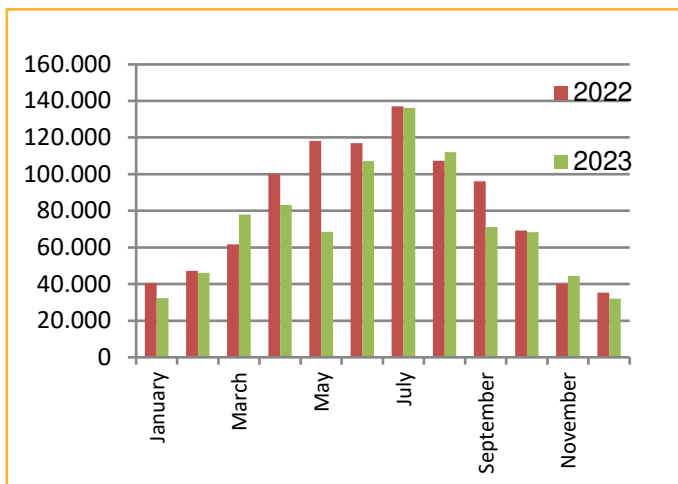
September 2022 - December 2023

Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	40552,2	81,10	32386,32	64,77
February	47187,91	94,38	46154,65	92,31
March	61653,71	123,31	77892,66	155,79
April	99867,24	199,73	83230,24	166,46
May	118075,78	236,15	68429,60	136,86
June	116928,69	233,86	107079,17	214,16
July	136993,37	273,99	136066,03	272,13
August	107267,29	214,53	111940,28	223,88
September	96116,61	192,23	71113,34	142,23
October	69175,97	138,35	68334,95	136,67
November	40166,13	80,33	44392,29	88,78
December	35212,89	70,43	31961,80	63,92

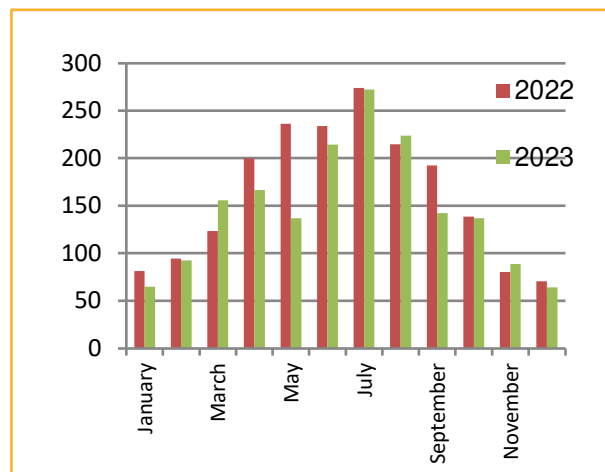


500 Kw

TOTAL	969197,79	1938,40	878981,33	1757,96
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Total production graph % difference : -10,26%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on September 2021.

Basic installation data:

Solar plant identification: Giantsidis
Location: Sofiada-Fthiotis
Country/Region: Greece
Longitude: 39° 12'45"North
Latitude: 22° 15'38"East

System configuration:

Rated installation output: 400 kWp
Number of trackers: 11 x S100 -SR
Number of modules: 755 x LUXOR / 530Wp
Number of inverters: 4 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2022

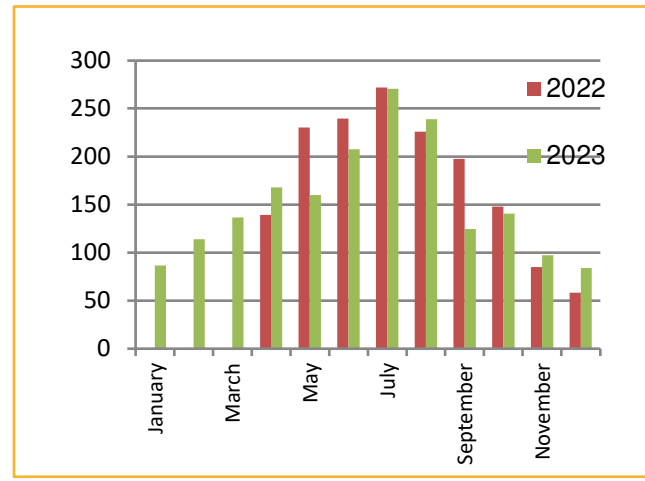
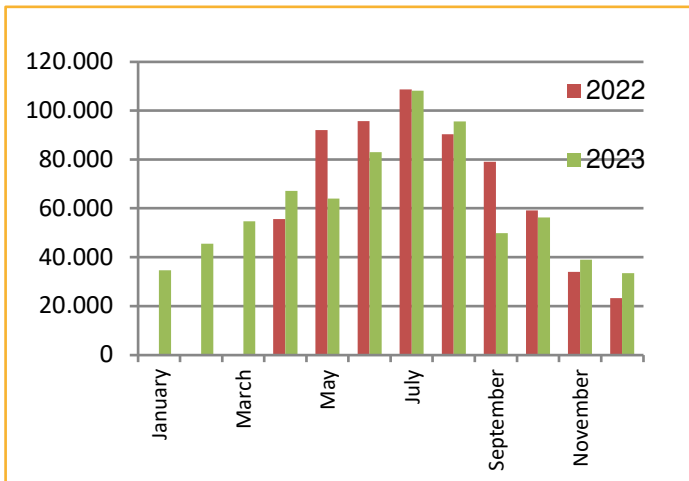
Production period

September 2022 - December 2023

Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	0	0,00	34647,96	86,62
February	0,00	0,00	45554,31	113,89
March	0,00	0,00	54680,48	136,70
April	55643,91	139,11	67149,50	167,87
May	92014,80	230,04	63944,26	159,86
June	95763,34	239,41	83010,53	207,53
July	108709,34	271,77	108151,18	270,38
August	90389,88	225,97	95554,37	238,89
September	79037,43	197,59	49825,57	124,56
October	59180,50	147,95	56262,82	140,66
November	33997,16	84,99	38923,90	97,31
December	23264,81	58,16	33517,25	83,79
TOTAL	638001,17	1595,00	731222,13	1828,06



400 Kw



Total production graph % difference : 12,75%

Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on April 2022.

Basic installation data:

Solar plant identification: Holevas
Location: Filiadona-Fthiotis
Country/Region: Greece
Longitude: 39° 3'31"North
Latitude: 22° 28'55"East

System configuration:

Rated installation output: 100 kWp
Number of trackers: 5 x S100 -SR
Number of modules: 190 x TRINA SOLAR 525Wp
Number of inverters: 2 x SUN2000-60KTL-M0
Installer: Enersys

Connected to Grid since 2021

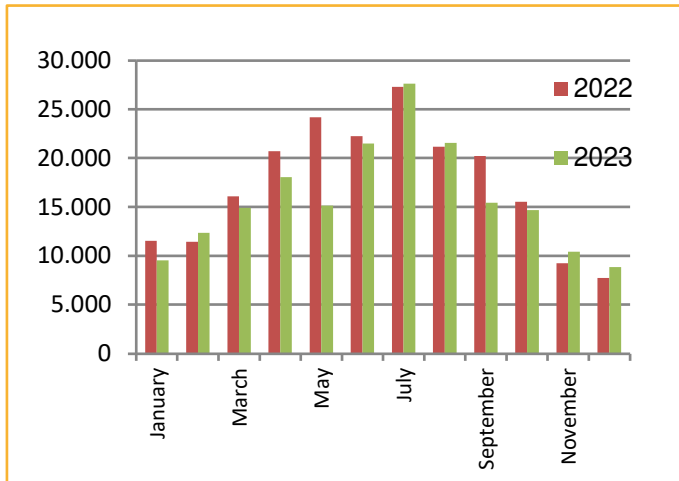
Production period

January 2022 - December 2023

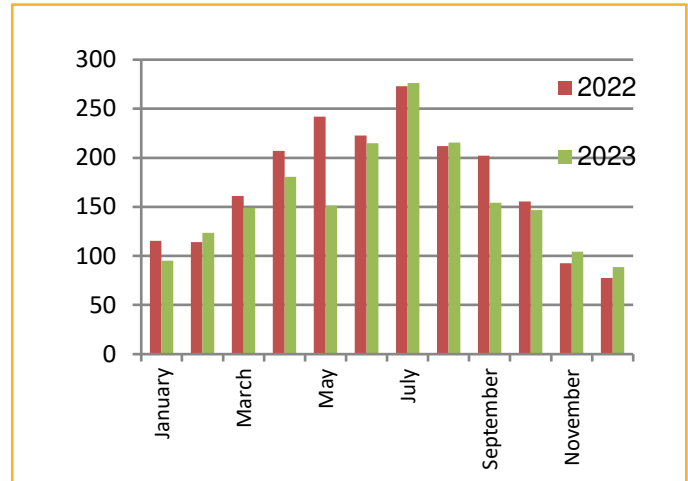
Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	11532,17	115,32	9526,86	95,27
February	11417,48	114,17	12365,40	123,65
March	16088,52	160,89	14904,58	149,05
April	20711,11	207,11	18045,16	180,45
May	24178,77	241,79	15136,86	151,37
June	22257,09	222,57	21486,22	214,86
July	27294,78	272,95	27601,80	276,02
August	21176,52	211,77	21564,57	215,65
September	20204,02	202,04	15423,09	154,23
October	15537,22	155,37	14673,60	146,74
November	9243,97	92,44	10428,44	104,28
December	7742,00	77,42	8845,94	88,46
TOTAL	207383,65	2073,84	190002,52	1900,03



100 Kw



Total production graph % difference : -9,15%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on May 2021.

Basic installation data:

Solar plant identification: Sakkas
Location: Domokos
Country/Region: Greece
Longitude: 39° 4'14"North
Latitude: 22° 28'24"East

System configuration:

Rated installation output: 400 kWp
Number of trackers: 11 x S100 -SR
Number of modules: 606 x JINKO 660Wp
Number of inverters: 4 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2023

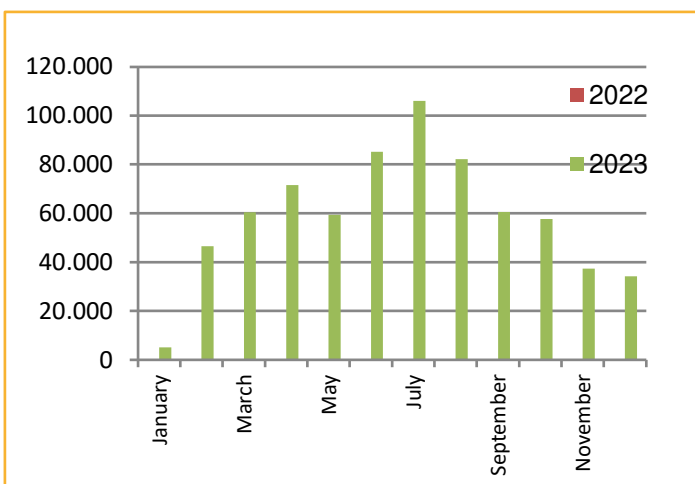
Production period

January 2023 - December 2023

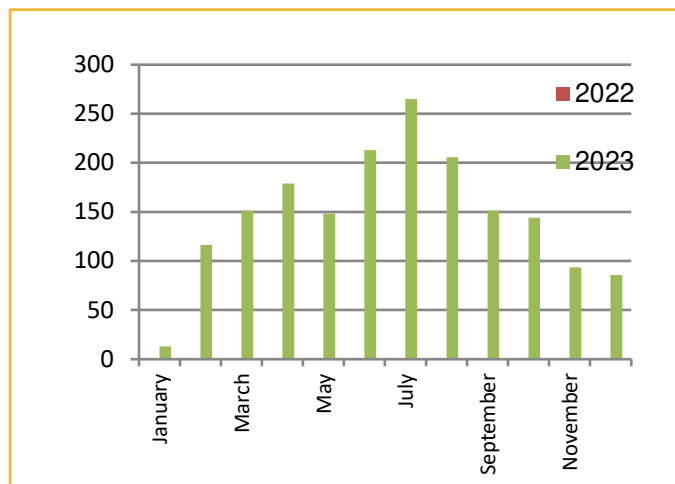
Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	0,00	0,00	5131,890	12,83
February	0,00	0,00	46447,130	116,12
March	0,00	0,00	60416,480	151,04
April	0,00	0,00	71581,580	178,95
May	0,00	0,00	59317,770	148,29
June	0,00	0,00	85187,680	212,97
July	0,00	0,00	106008,310	265,02
August	0,00	0,00	82200,620	205,50
September	0,00	0,00	60520,560	151,30
October	0,00	0,00	57611,470	144,03
November	0,00	0,00	37386,870	93,47
December	0,00	0,00	34234,560	85,59
TOTAL	0,00	0,00	706044,92	1765,11



400 Kw



Total production graph % difference : 100,00%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on January 2023.

Basic installation data:

Solar plant identification: Thavmakos
Location: Domokos
Country/Region: Greece
Longitude: 39° 8'58"North
Latitude: 22° 18'8"East

System configuration:

Rated installation output: 500 kWp
Number of trackers: 15 x S100 -SR
Number of modules: 926 x VERTEX / 540Wp
Number of inverters: 5 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2022

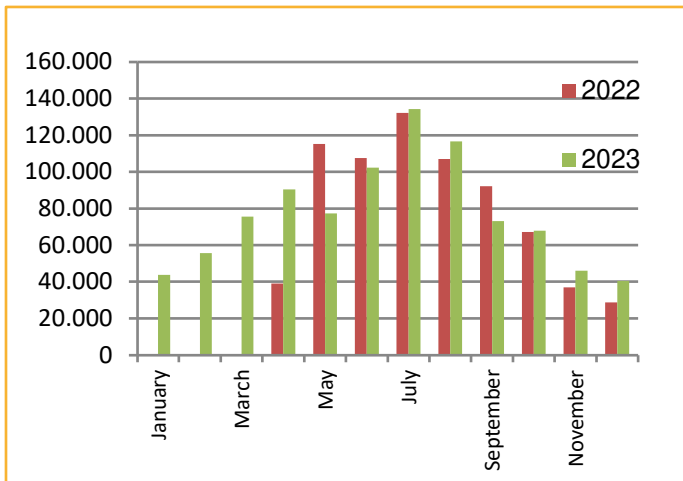
Production period

April 2022 - December 2023

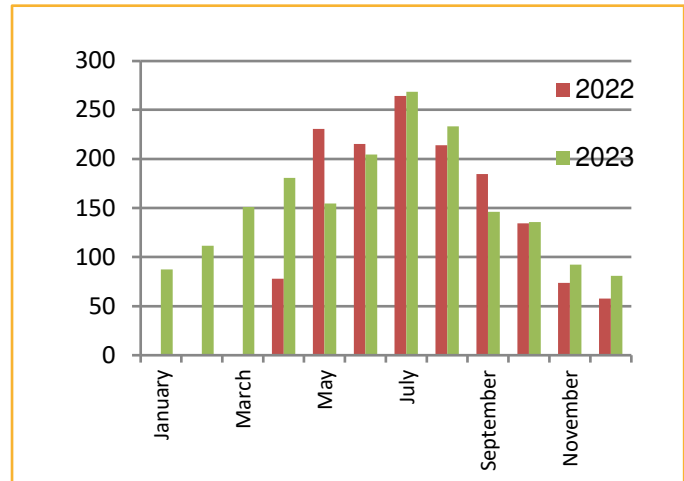
	2022		2023	
Month	kWh total	kWh/kWp	kWh total	kWh/kWp
January	0,00	0,00	43739,360	87,48
February	0,00	0,00	55706,530	111,41
March	0,00	0,00	75501,140	151,00
April	38951,28	77,90	90354,010	180,71
May	115276,48	230,55	77337,740	154,68
June	107586,69	215,17	102295,100	204,59
July	132108,03	264,22	134223,810	268,45
August	107024,16	214,05	116536,830	233,07
September	92222,33	184,44	73114,490	146,23
October	67130,86	134,26	67903,130	135,81
November	36899,47	73,80	46052,410	92,10
December	28808,07	57,62	40400,630	80,80
TOTAL	726007,37	1452,01	923165,18	1846,33



500 Kw



Total production graph % difference : 21,36%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on April 2022.

Basic installation data:

Solar plant identification: Tsiakas
Location: Lamia
Country/Region: Greece
Longitude: 38° 53'1"North
Latitude: 22° 20'52"East

System configuration:

Rated installation output: 100 kWp
Number of trackers: 3 x S100 -SR
Number of modules: 186 x 530 Wp
Number of inverters: 2 x SUN2000-60KTL-M0
Installer: Enersys

Connected to Grid since 2021

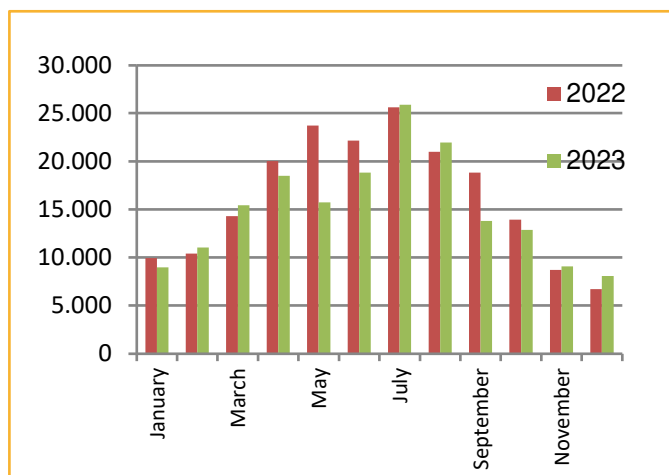
Production period

January 2022 - December 2023

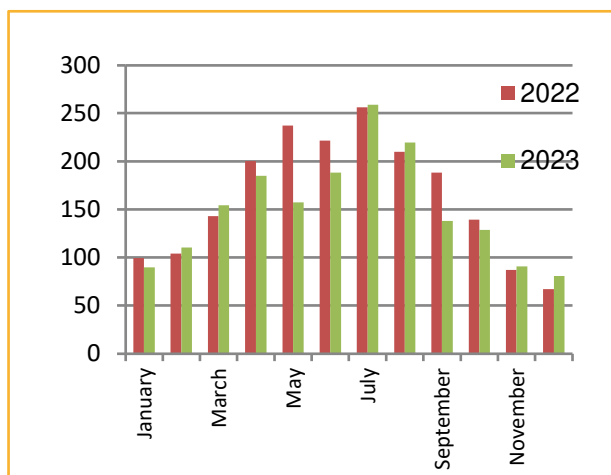
Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	9.928,000	99,28	8.962,490	89,62
February	10.394,840	103,95	11.041,680	110,42
March	14.291,310	142,91	15.440,080	154,40
April	20.015,660	200,16	18.478,440	184,78
May	23.722,380	237,22	15.720,760	157,21
June	22.138,430	221,38	18.832,680	188,33
July	25.613,390	256,13	25.897,730	258,98
August	20.988,540	209,89	21.954,720	219,55
September	18.816,350	188,16	13.783,510	137,84
October	13.939,920	139,40	12.874,990	128,75
November	8.698,830	86,99	9.063,880	90,64
December	6.724,090	67,24	8.068,020	80,68
TOTAL	195271,74	1952,72	180118,98	1801,19



100 Kw



Total production graph % difference : -8,41%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on October 2021.

Basic installation data:

Solar plant identification: Koutsoumpas
Location: Lamia
Country/Region: Greece
Longitude: 38° 50'57"North
Latitude: 22° 28'23"East

System configuration:

Rated installation output: 500 kWp
Number of trackers: 14 x S100 -SR
Number of modules: 940 x LUXOR/530 W
Number of inverters: 5 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2022

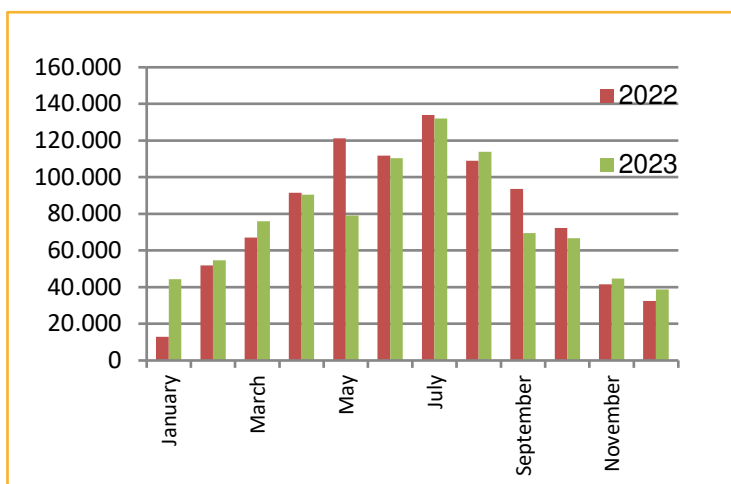
Production period

January 2022 - December 2023

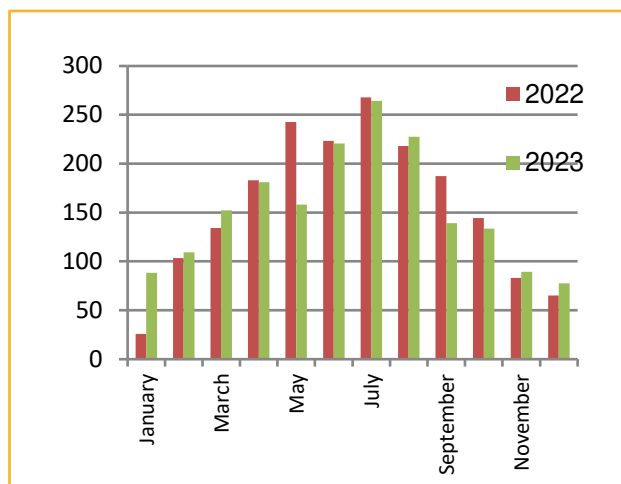
Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	12.852,880	25,71	44.250,740	88,50
February	51.773,730	103,55	54.599,830	109,20
March	67.045,840	134,09	76.014,170	152,03
April	91.471,270	182,94	90.438,500	180,88
May	121.206,290	242,41	79.065,470	158,13
June	111.667,860	223,34	110.285,530	220,57
July	133.886,760	267,77	131.977,310	263,95
August	108.999,560	218,00	113.797,850	227,60
September	93.532,950	187,07	69.521,020	139,04
October	72.213,840	144,43	66.729,820	133,46
November	41.491,530	82,98	44.678,390	89,36
December	32.512,410	65,02	38.763,810	77,53
TOTAL	938654,92	1877,31	920122,44	1840,24



500 Kw



Total production graph % difference : -2,01%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on January 2022.

Basic installation data:

Solar plant identification: Garelis
Location: Domokos
Country/Region: Greece
Longitude: 39° 9'14"North
Latitude: 22° 18'0"East

System configuration:

Rated installation output: 500 kWp
Number of trackers: 14 x S100 -SR
Number of modules: 940 x LUXOR / 530 W
Number of inverters: 5 x SUN2000-100KTL-M1
Installer: Enersys

Connected to Grid since 2022

Production period

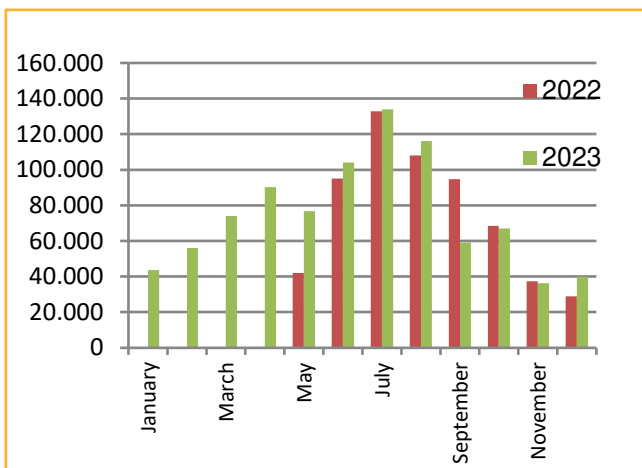
May 2022 - December 2023

Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	0,000	0,00	43704,440	87,41
February	0,000	0,00	55958,340	111,92
March	0,000	0,00	73945,340	147,89
April	0,000	0,00	90282,270	180,56
May	41.993,370	83,99	76770,550	153,54
June	95.099,580	190,20	104057,950	208,12
July	132.784,140	265,57	133911,940	267,82
August	108.094,350	216,19	116108,930	232,22
September	94.654,070	189,31	59173,430	118,35
October	68.411,140	136,82	67015,010	134,03
November	37.265,250	74,53	36160,810	72,32
December	28.821,500	57,64	39860,860	79,72

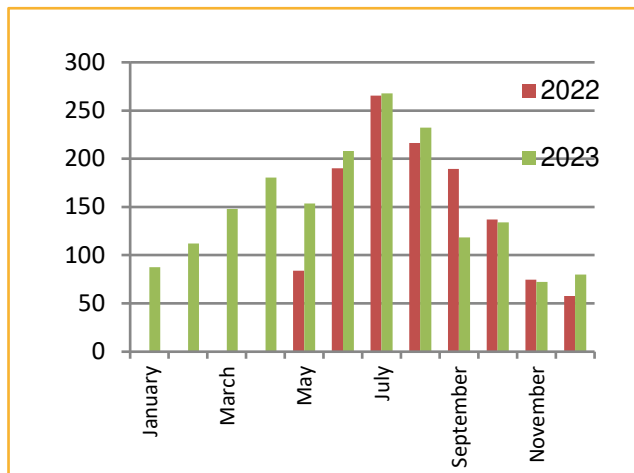


500 Kw

TOTAL	607123,40	1214,25	896949,87	1793,90
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Total production graph % difference : 32,31%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on May 2022.

Basic installation data:

Solar plant identification: Kontarolaka
Location: Almyros - Magnesia
Country/Region: Greece
Longitude: 39° 13'77"North
Latitude: 22° 84'53"East

System configuration:

Rated installation output: 499,26 kWp
Number of trackers: 16 x S100 -SR
Number of modules: 942 x LUXOR / 530Wp
Number of inverters: 5

Connected to Grid since 2022

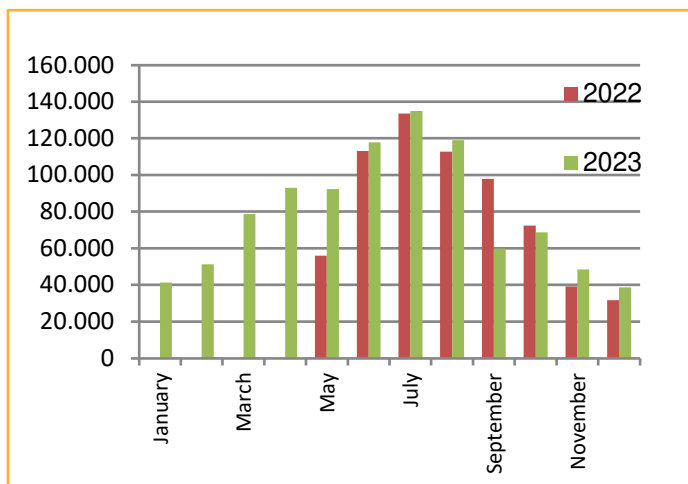
Production period

May 2022 - December 2023

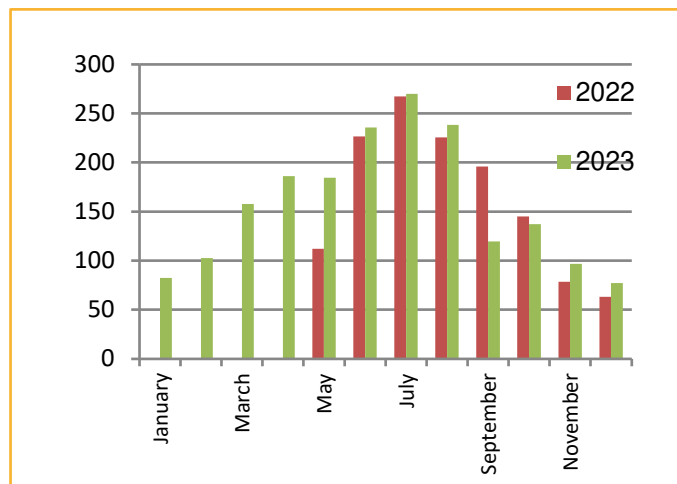
Month	2022		2023	
	kWh total	kWh/kWp	kWh total	kWh/kWp
January	0,00	0,00	41.169,660	82,46
February	0,00	0,00	51.216,310	102,58
March	0,00	0,00	78.684,600	157,60
April	0,00	0,00	92.869,130	186,01
May	55977,98	112,12	92.172,050	184,62
June	113087,83	226,51	117.687,080	235,72
July	133509,78	267,42	134.829,300	270,06
August	112705,57	225,75	118.939,510	238,23
September	97783,28	195,86	59.701,160	119,58
October	72405,01	145,02	68.582,230	137,37
November	39215,47	78,55	48.354,120	96,85
December	31582,94	63,26	38.604,300	77,32
TOTAL	656267,86	1314,48	942809,45	1888,41



499,26 Kw



Total production graph % difference : 30,39%



Production performance: kWh/kWp

Notice :

The energy installation was connected to Grid on May 2022.

All used data within (raw data, pictures, graphs, etc.) were offered by our valuable customers !!!



Best Wishes for Great yields during 2024!!!