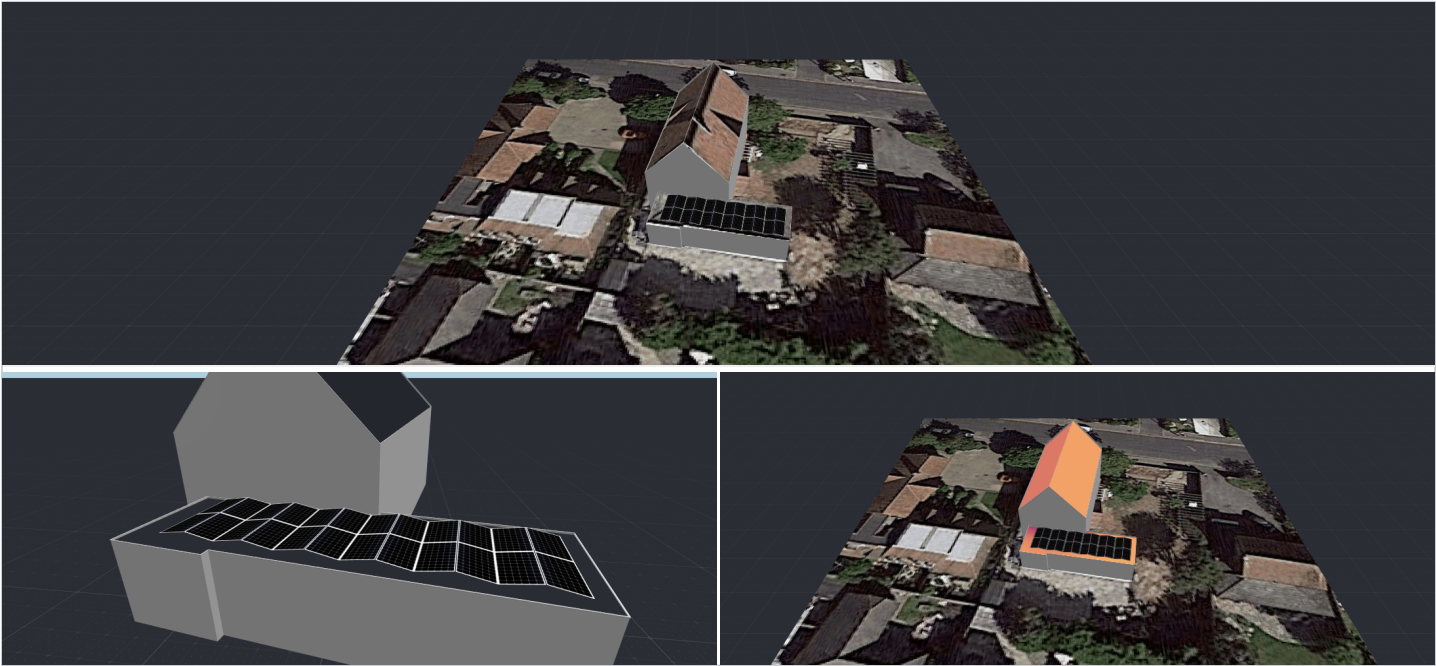


HOLLYHOLM

Sylvan Way 8, Bognor Regis, PO21 2RS, United Kingdom | Morgan | Oct 14, 2020



SYSTEM OVERVIEW

 24 PV modules

 1 Inverters

 24 Optimizers

 1 Batteries

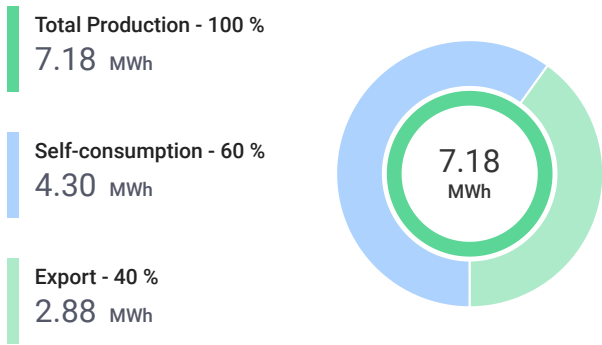
SIMULATION RESULTS

 Installed DC Power 8.28 kWp	 Max Achieved AC Power 6.00 kW	 Annual Energy Production 7.18 MWh	 CO2 Emission Saved 2.02 t	 Equivalent Trees Planted 93
 Max Achieved DC Power 7.30 kW	 DC/AC Oversizing 122 %	 Max Active AC Power 6.00 kW	 Performance Ratio 79 %	 Performance Index 867 kWh/kWp

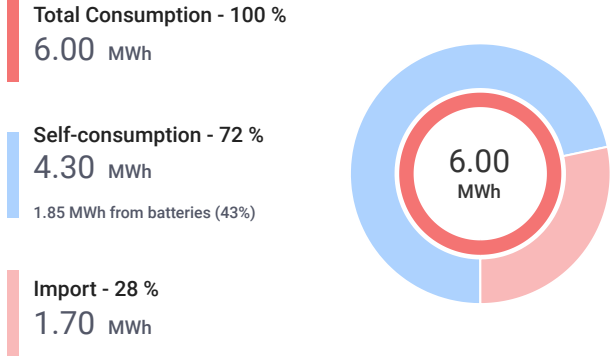
HOLLYHOLM
Sylvan Way 8, Bognor Regis, PO21 2RS, United Kingdom | Morgan | Oct 14, 2020



SYSTEM PRODUCTION



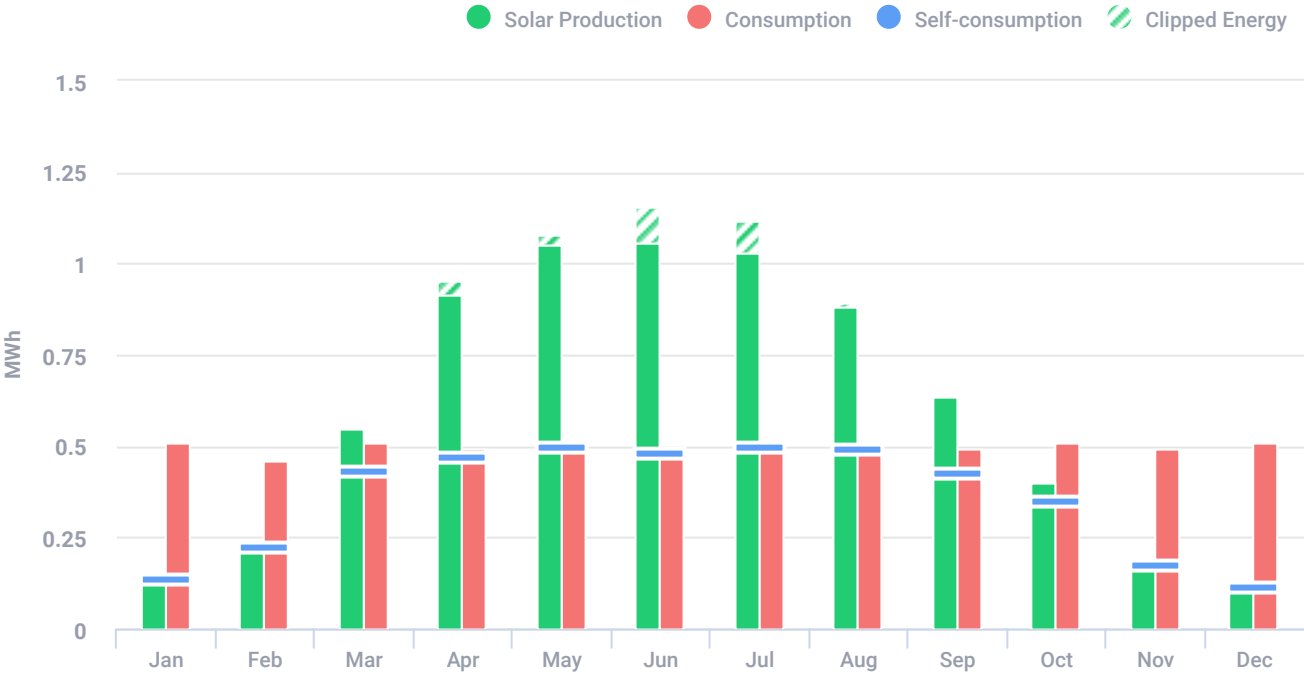
CONSUMPTION



HOLLYHOLM
Sylvan Way 8, Bognor Regis, PO21 2RS, United Kingdom | Morgan | Oct 14, 2020



ESTIMATED MONTHLY ENERGY



Total clipped energy: 3.53%

Month	Solar Production (kWh)	Consumption (kWh)	Self-consumption (kWh)	Clipped Energy (kWh)
Jan	135	510	135	-
Feb	234	460	227	-
Mar	548	510	434	-
Apr	915	493	468	39
May	1,052	510	499	28
Jun	1,059	493	481	95
Jul	1,028	510	497	91
Aug	880	510	492	11
Sep	632	493	427	3
Oct	402	510	352	-
Nov	176	493	174	-
Dec	115	510	114	-

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
12	JA Solar, JAM60S10-345/MR (1000V)	4.1 kWp			280°	10°

HOLLYHOLM

Sylvan Way 8, Bognor Regis, PO21 2RS, United Kingdom | Morgan | Oct 14, 2020



PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
12	JA Solar, JAM60S10-345/MR (1000V)	4.1 kWp			100°	10°
Total:	24	8.3 kWp				

BILL OF MATERIALS (BOM)

Items	Quantity	Cost (£)	Total (£)
SE6000H	1		
P404	24		
LG Chem RESU10H	1		
JA Solar, JAM60S10-345/MR (1000V)	24		

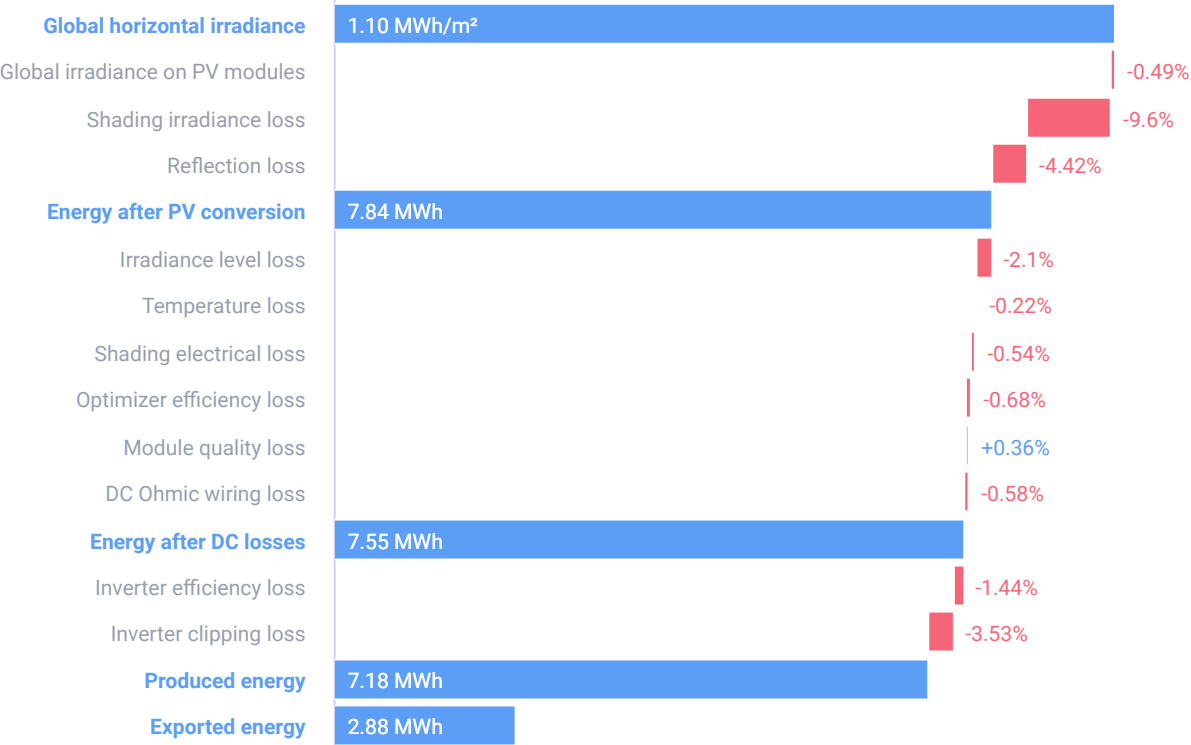
ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
(1 SE6000H x) 7.3kW 122% 1 x LG Chem RESU10H	2 x strings	12 x P404	12

HOLLYHOLM
Sylvan Way 8, Bognor Regis, PO21 2RS, United Kingdom | Morgan | Oct 14, 2020



SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Fontwell (4.84 km away)
Station altitude	1 m
Station data source	Meteonorm 7.1
Grid	230V L-N
Export limit to grid	3.68 kW



LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%