

DAARLE - LANGS DE SCHUTTING

Daarle, Netherlands | Mark Mevius | Dec 26, 2022

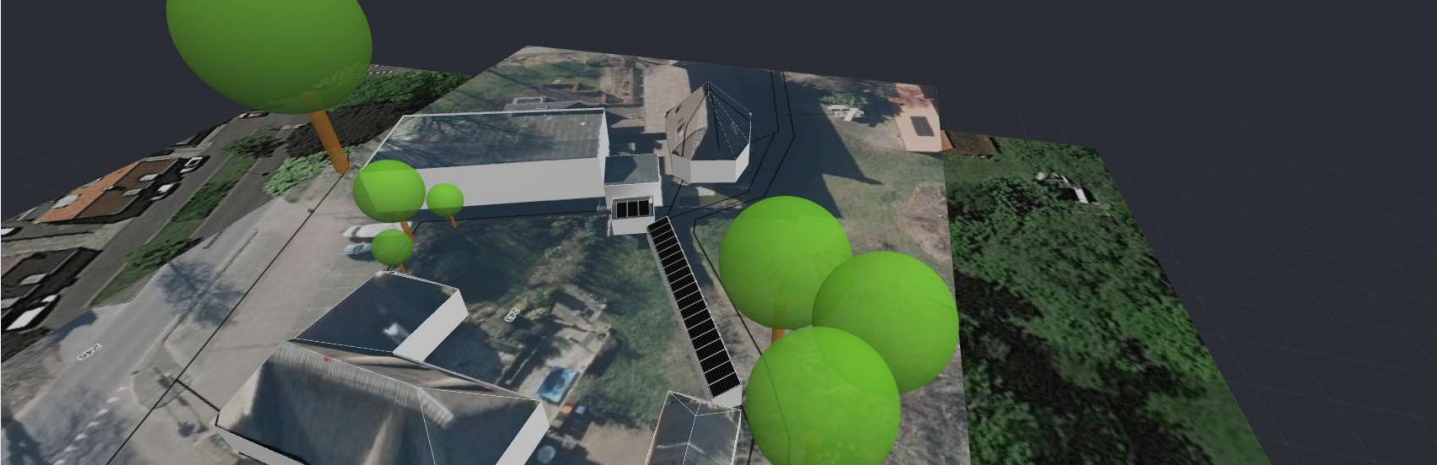


SYSTEM OVERVIEW

 22 PV modules

 1 Inverter

 22 Optimizers



FINANCIAL OVERVIEW

Net Payments	Lifetime Bill Savings (NPV)	System Profit (NPV)	Internal Return Rate (IRR)	Payback Period
€ 8,343	€ 33,743	€ 25,401	25.31 %	4 years

SIMULATION RESULTS

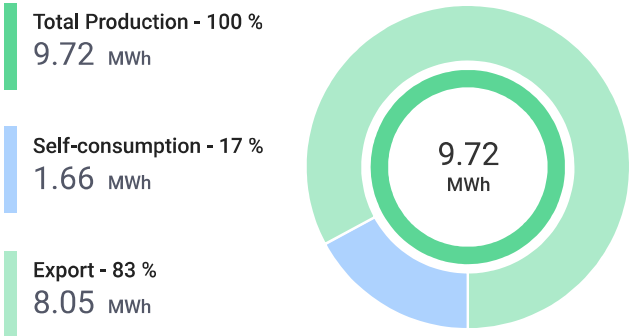
 Installed DC Power 11.99 kWp	 Max Achieved AC Power 11.25 kW	 Annual Energy Production 9.72 MWh	 CO2 Emission Saved 4.91 t	 Equivalent Trees Planted 225
 Max Achieved DC Power 11.45 kW	 DC/AC Oversizing 57 %	 Max Active AC Power 20.00 kW	 Performance Ratio 78 %	 Performance Index 810 kWh/kWp

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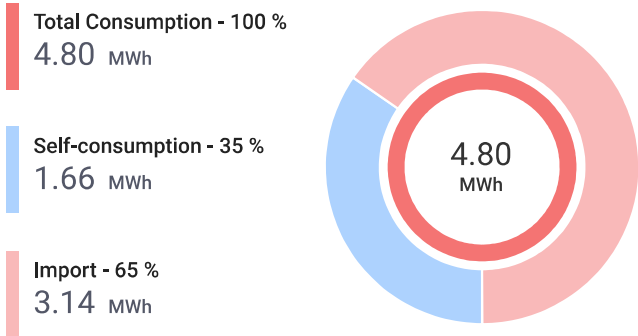
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SYSTEM PRODUCTION



CONSUMPTION



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
3	JA Solar, JAM72S30-545/MR (1000V)	1.6 kWp			77°	12°
19	JA Solar, JAM72S30-545/MR (1000V)	10.4 kWp			147°	20°
Total:	22	12 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (€)	Total (€)
SE20K		1	2400.00	2,400.00
P605		22	90.00	1,980.00
JAM72S30-545/MR (1000V)		22	289.00	6,358.00
Diversen kabels/aansluitmateriaa		1	1500.00	1,500.00
SE-ANT-ZBWIFI-KIT Wifi winkelman-zonnepanelen.nl		1	29.50	29.50
Montagemateriaal		22	50.00	1,100.00

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BILL OF MATERIALS (BOM) (CONTINUED)

Items	Part Number	Quantity	Price (€)	Total (€)
Discount		21 %		- 2,807.18
Total Price: € 10,560.33				

ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 x SE20K 11.45kW 57%	 1 x string	 22 x P605	 22

SYSTEM LOSS DIAGRAM

