

# Your PV system



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# Overview



**9.31 kWp**

PV Generator Output



**6,821 kWh**

PV yield per year



**88.8 %**

Level of Self-sufficiency



**35.2 %**

Own Power Consumption



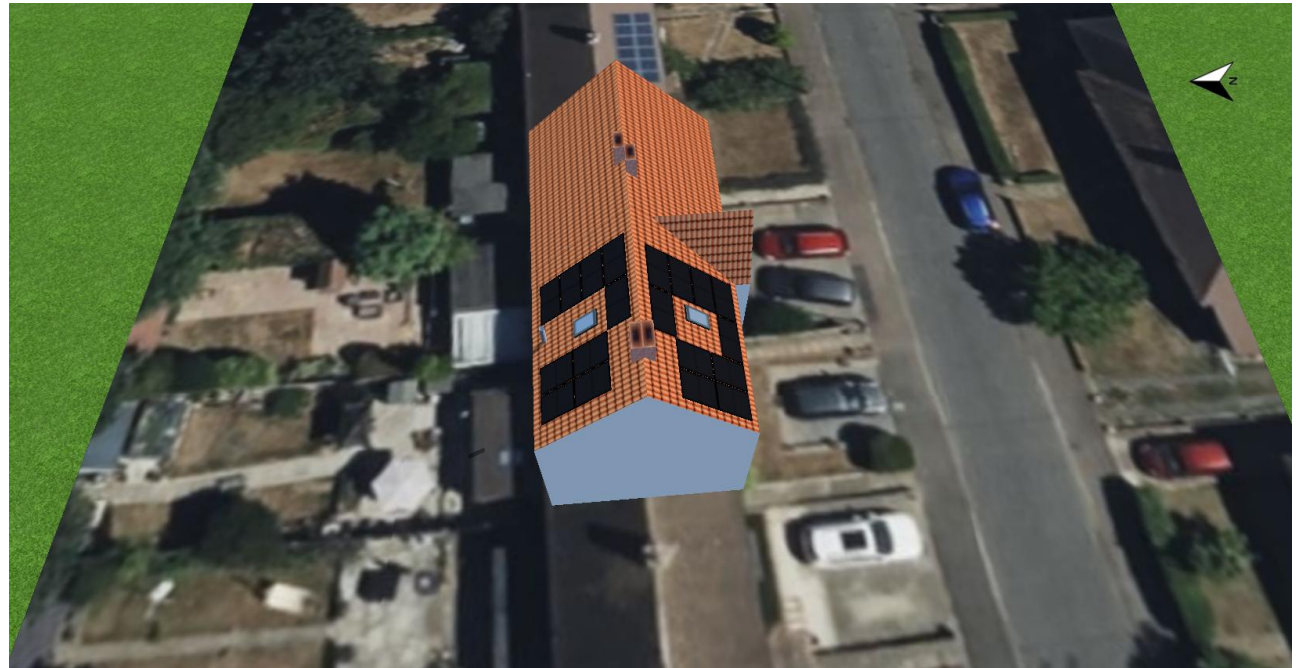
**5.93 %**

Internal Rate of Return (IRR)



**1,522 kg / year**

CO<sub>2</sub> Emissions avoided



# Components



## PV Modules

19x Aiko - AIKO-A490-MCE54Mb



## Battery Systems

1x FoxESS - FE-KH1-9.0 + EP12 11.52kWh Battery



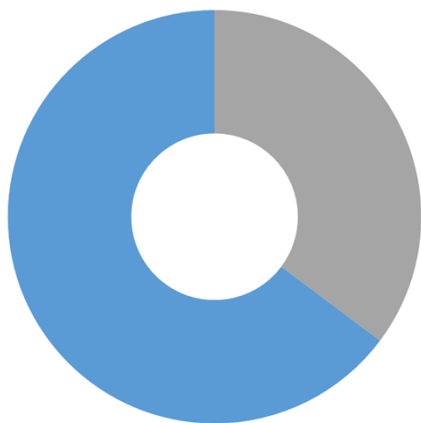
## Inverters

1x FoxESS - KH9

# PV System



PV Generator Energy (AC grid) with battery



■ Direct Own Use ■ Grid Export

|                                                   |                       |
|---------------------------------------------------|-----------------------|
| <b>PV Generator Energy (AC grid) with battery</b> | <b>6,821 kWh/Year</b> |
| Direct Own Use                                    | 2,403 kWh/Year        |
| Grid Export                                       | 4,417 kWh/Year        |



## 35.2 %

Own Power Consumption

The self-consumption share indicates how much of the generated solar power is used by the producer and not fed into the grid.



## 80.5 %

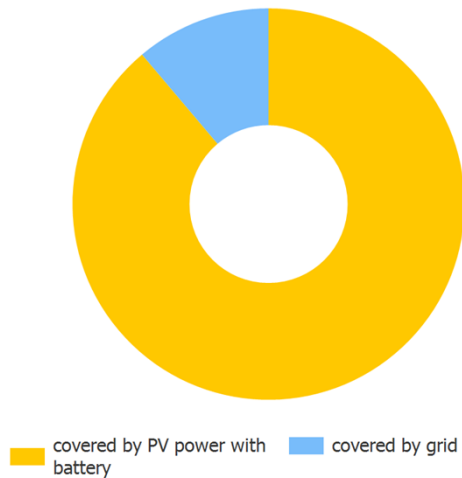
Performance Ratio (PR)

The plant utilization rate describes the ratio between the energy actually generated and the theoretical potential energy of a PV system.

# Appliances



Total Consumption



|                                  |                       |
|----------------------------------|-----------------------|
| Appliances                       | 2,700 kWh/Year        |
| Standby Consumption (Inverter)   | 5 kWh/Year            |
| <b>Total Consumption</b>         | <b>2,705 kWh/Year</b> |
| covered by PV power with battery | 2,403 kWh/Year        |
| covered by grid                  | 302 kWh/Year          |



**88.8 %**

Level of Self-sufficiency

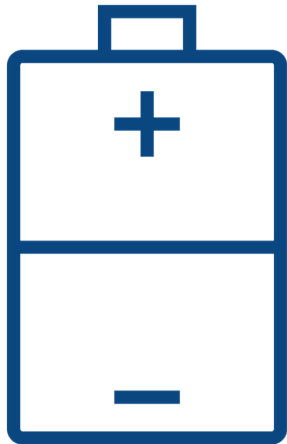
The degree of self-sufficiency describes the proportion of total consumption that is covered by solar power.



**1,522 kg / year**

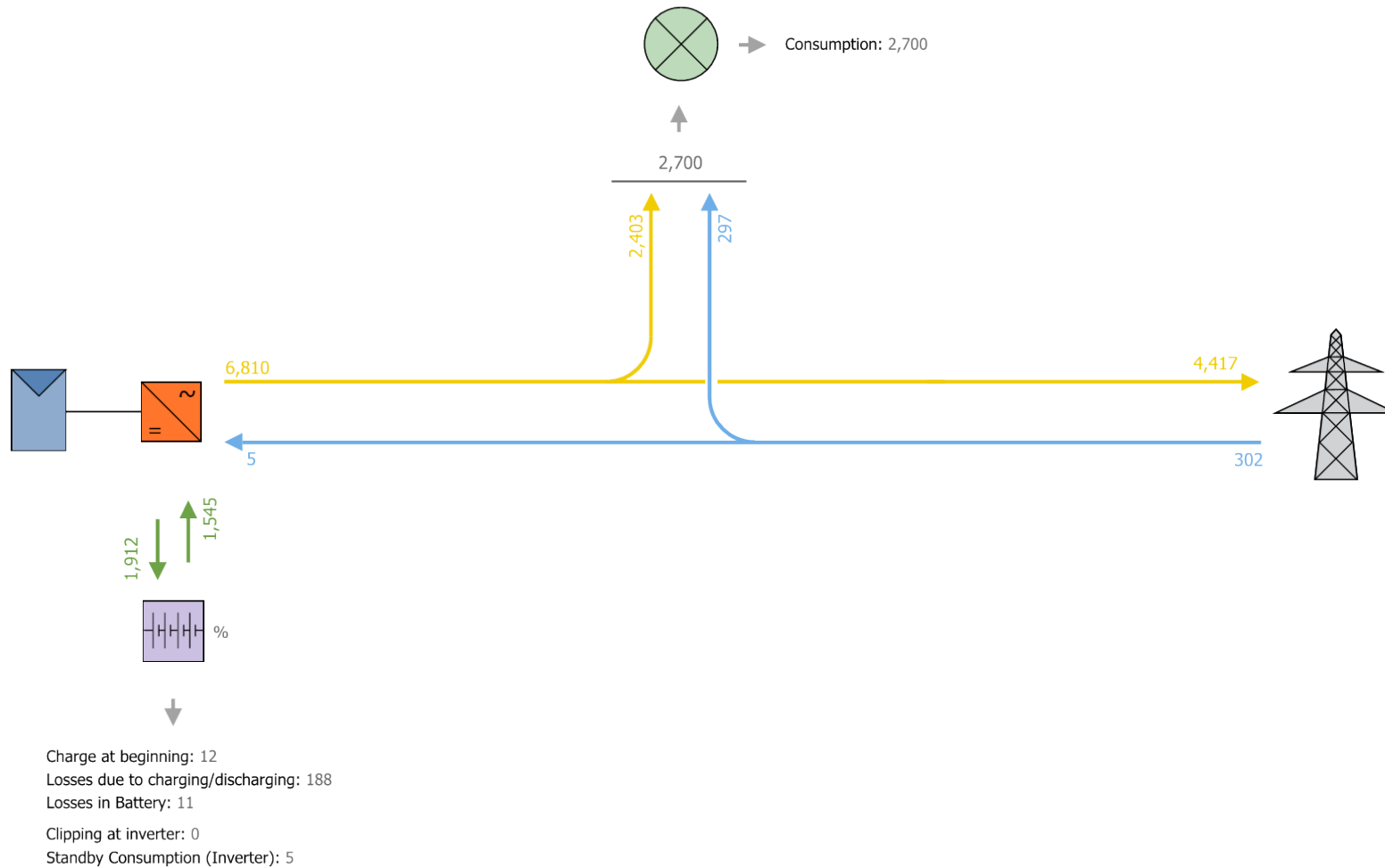
CO<sub>2</sub> Emissions avoided

# Battery System



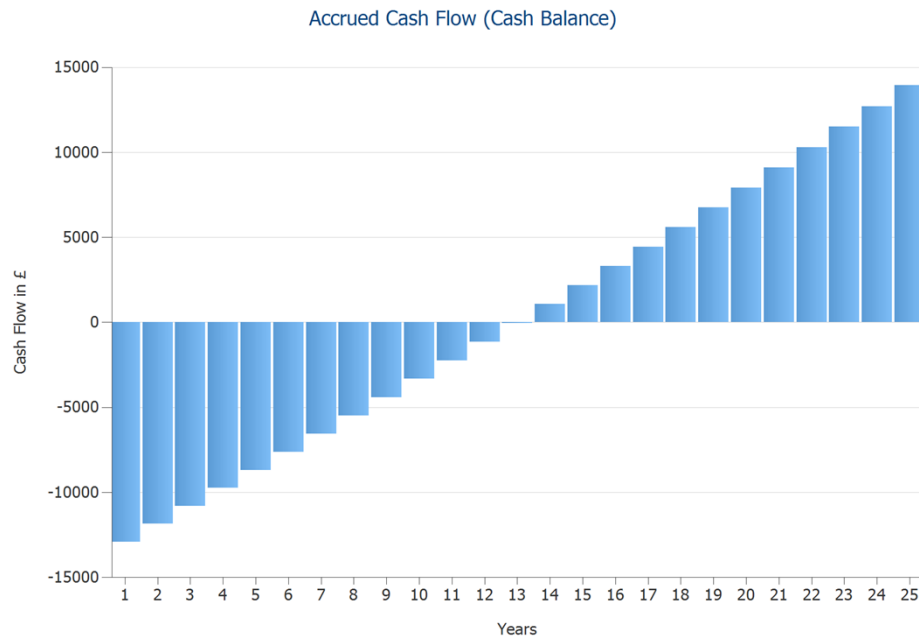
|                                                |                |
|------------------------------------------------|----------------|
| Battery Charge (PV System)                     | 1,912 kWh/Year |
| Battery Energy for the Covering of Consumption | 1,545 kWh/Year |
| Battery discharge into the grid                | 0 kWh/Year     |

# Energy flow



All values in kWh

# Financial Analysis



Investment Costs 13,966.00 £

Specific Investment Costs 1,500.11 £/kWp



**5.93 %**

Internal Rate of Return (IRR)



**13,938.76 £**

Accrued Cash Flow (Cash Balance)



**13 Years**

Amortization Period



**0.082 £/kWh**

Electricity Production Costs



**0.2218 £/kWh**

Energy Price (Energy from Grid)