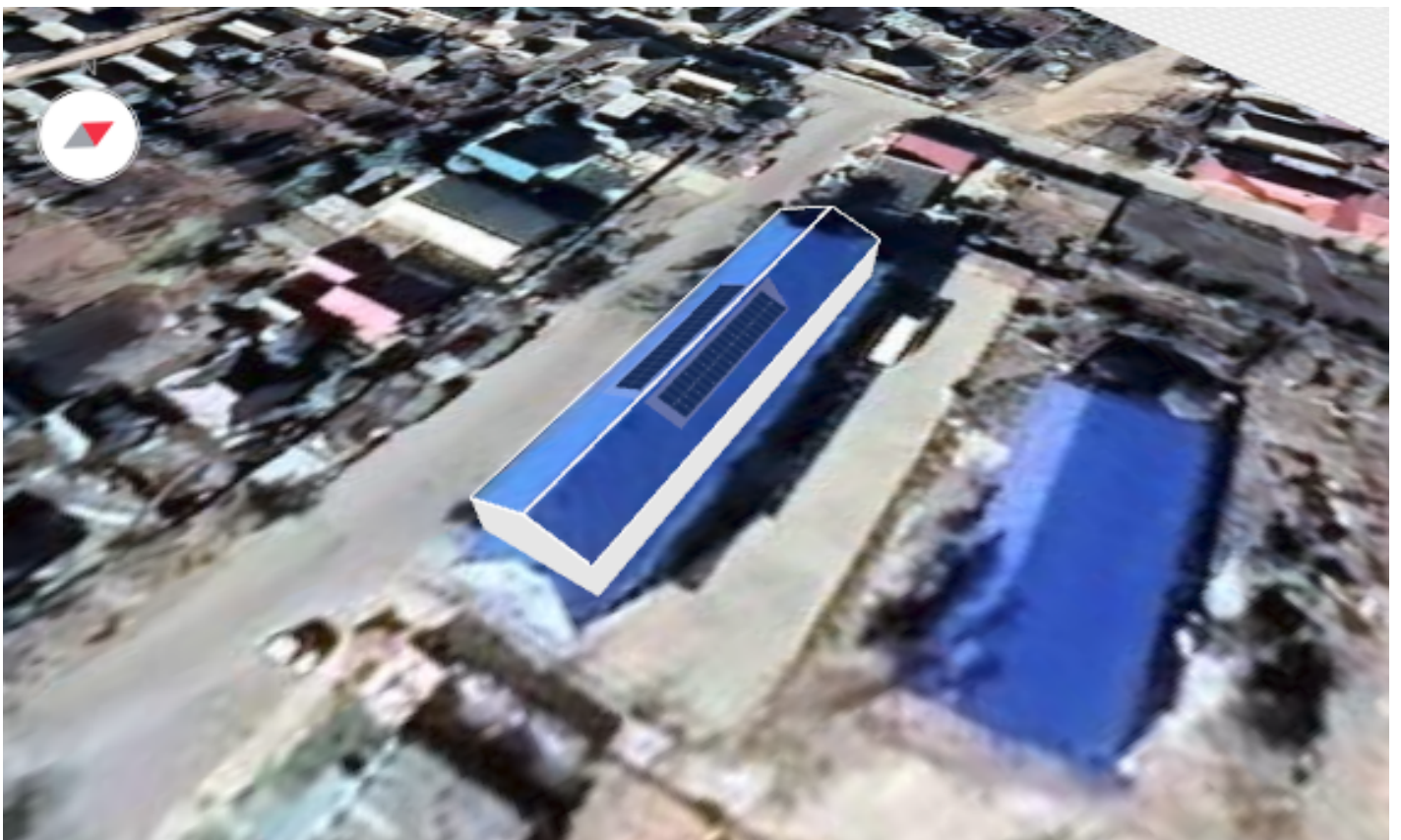
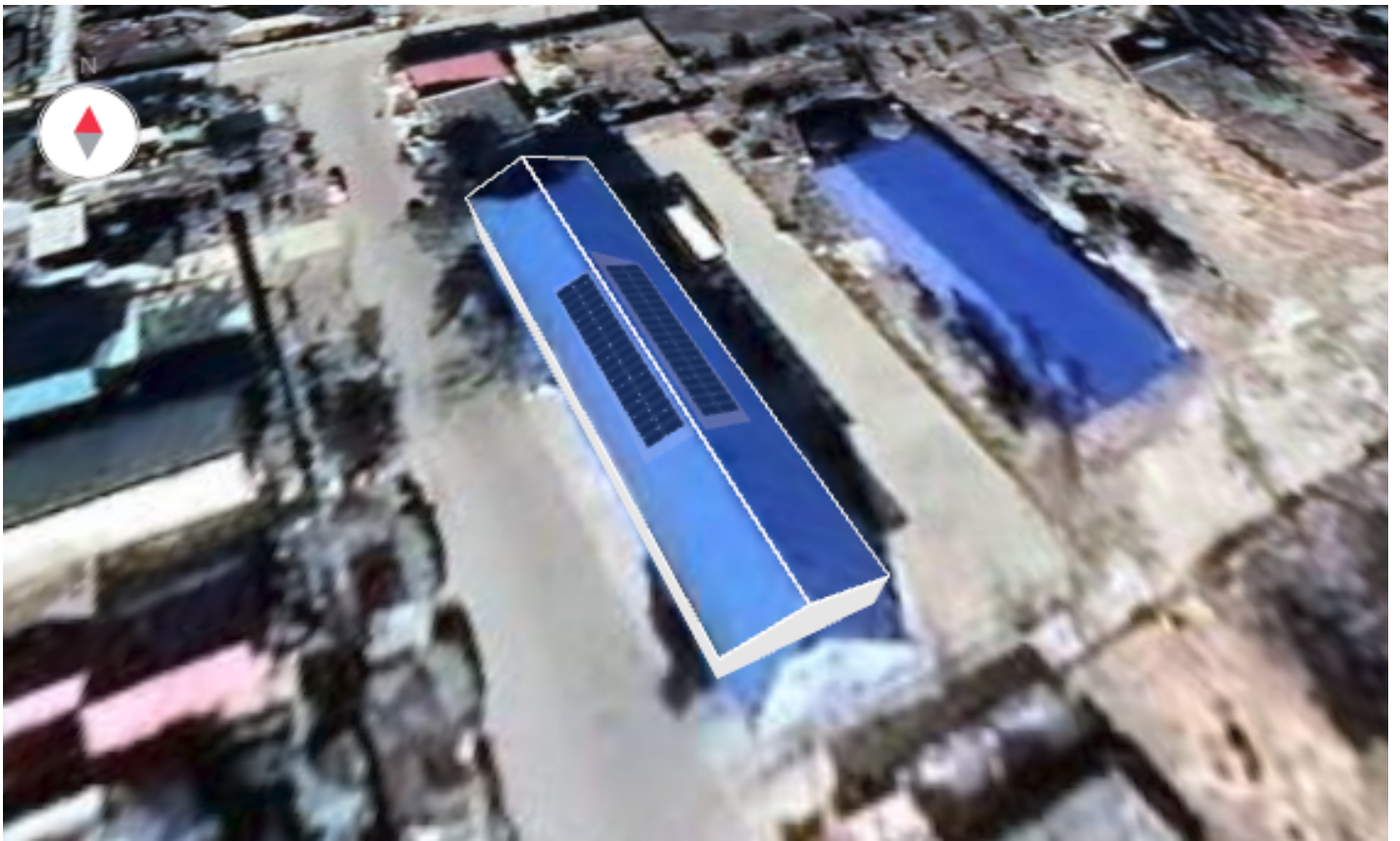
 FusionSolar / SmartDesign

Ceadir-Lunga


PV Solution

Customer BTS PRO S.R.L.
Address Ceadir-Lunga, Moldova



Project Overview

System Capacity



PV System 29.16 kWp
 AC Power 30 kW
 Oversizing Ratio 97.2%

Devices

Device Name	Manufacturer/Model	Quantity
PV Module	 Trina Solar/TSM-DE09.08	72
Inverter	 SUN2000-30KTL-M3	1

Economic Benefits

Accumulated Net Profits of 25 Years: **502.02** USD

ROI Overview

17,029.44 USD
Initial Investment Cost

17,029.44 USD
Own Funds

0 USD
O&M Cost

-5,373.3 USD
NPV

0.24 %
IRR

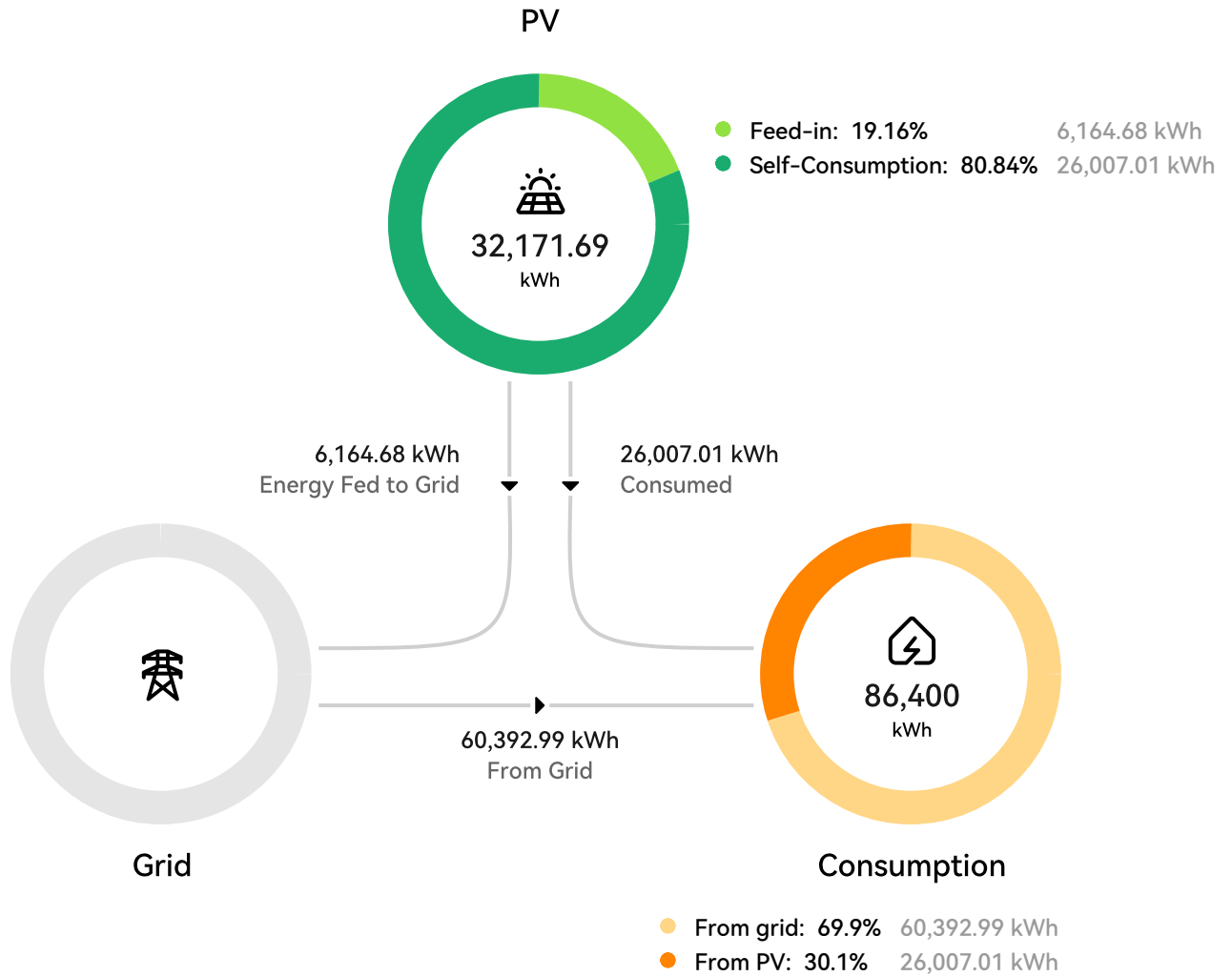
24.61 years
Payback Period

0.03 USD/kWh
LCOE

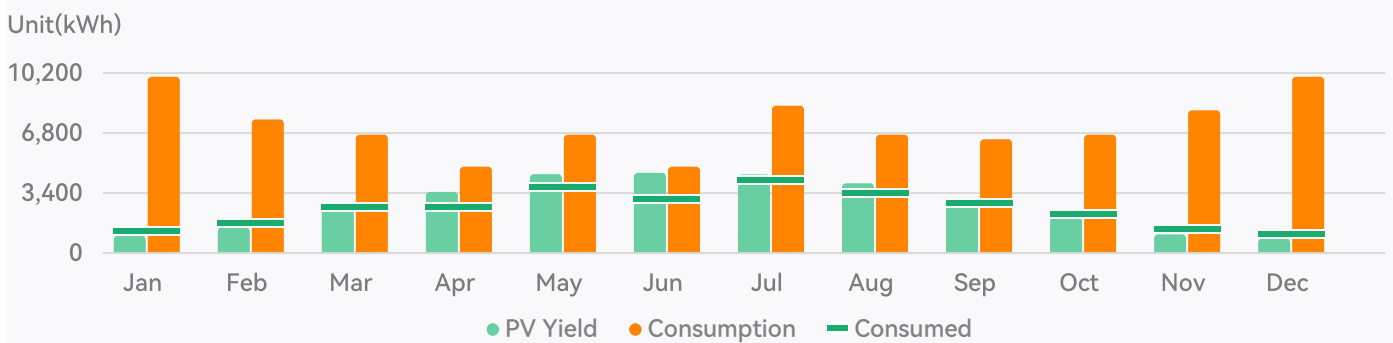


Energy Management

First-Year Data



Monthly Energy Consumption in the First Year



Power Curve

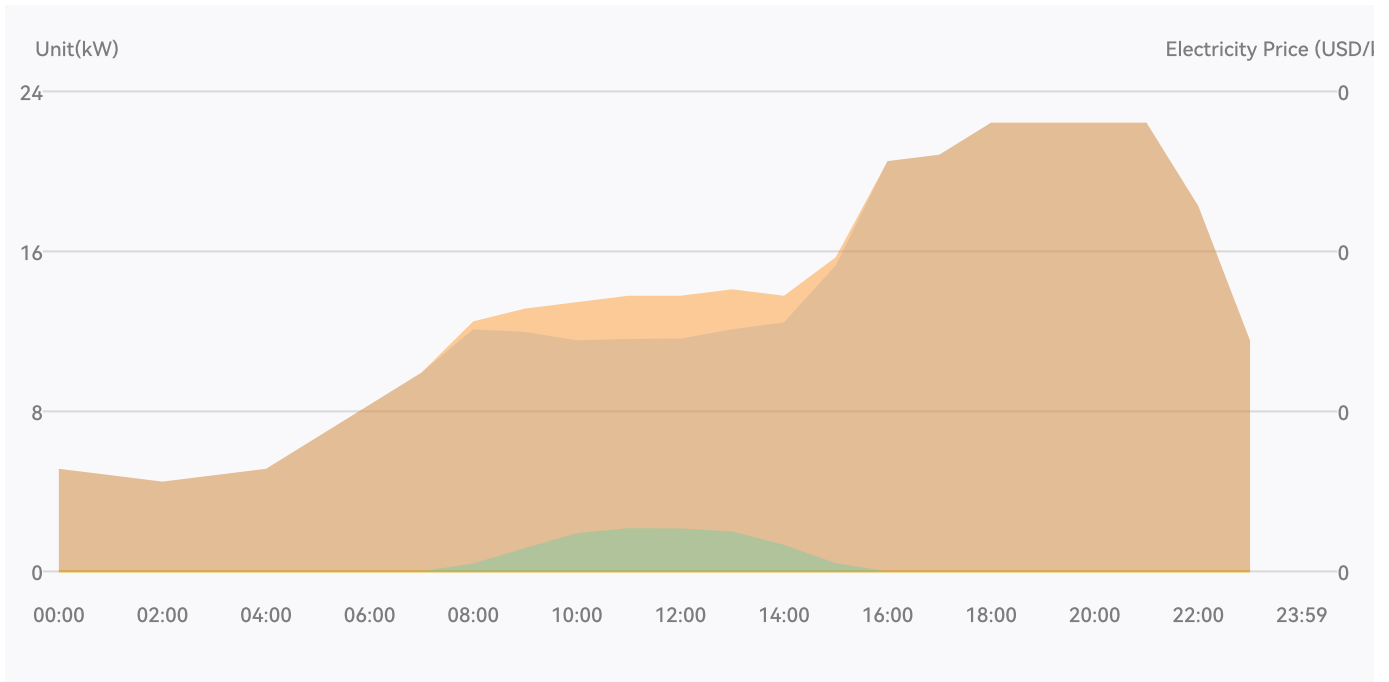
■ Load Power
 ■ +Mains Power/-Feed-in Power
 ■ PV Power



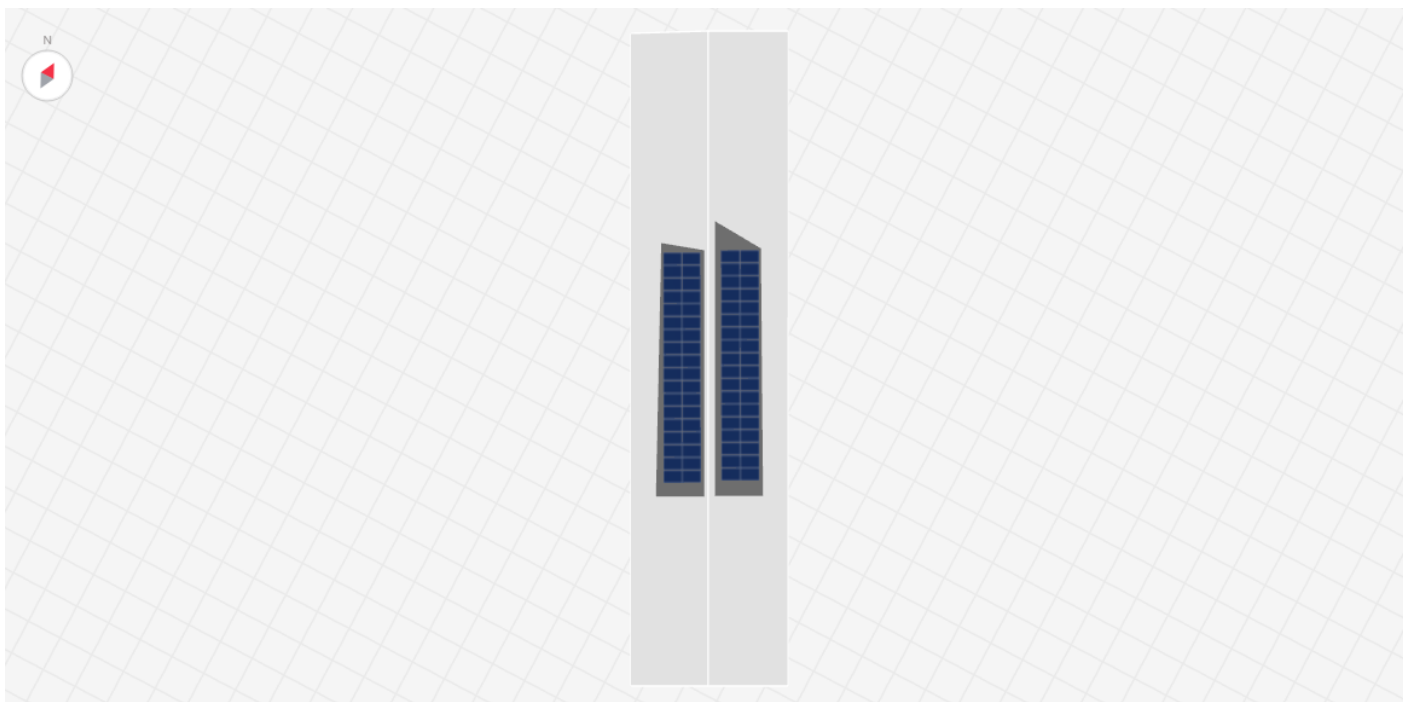
Daily Energy Consumption

01-27

■ Load Power
 ■ +Mains Power/-Feed-in Power
 ■ PV Power
 ■ Electricity Price Curve

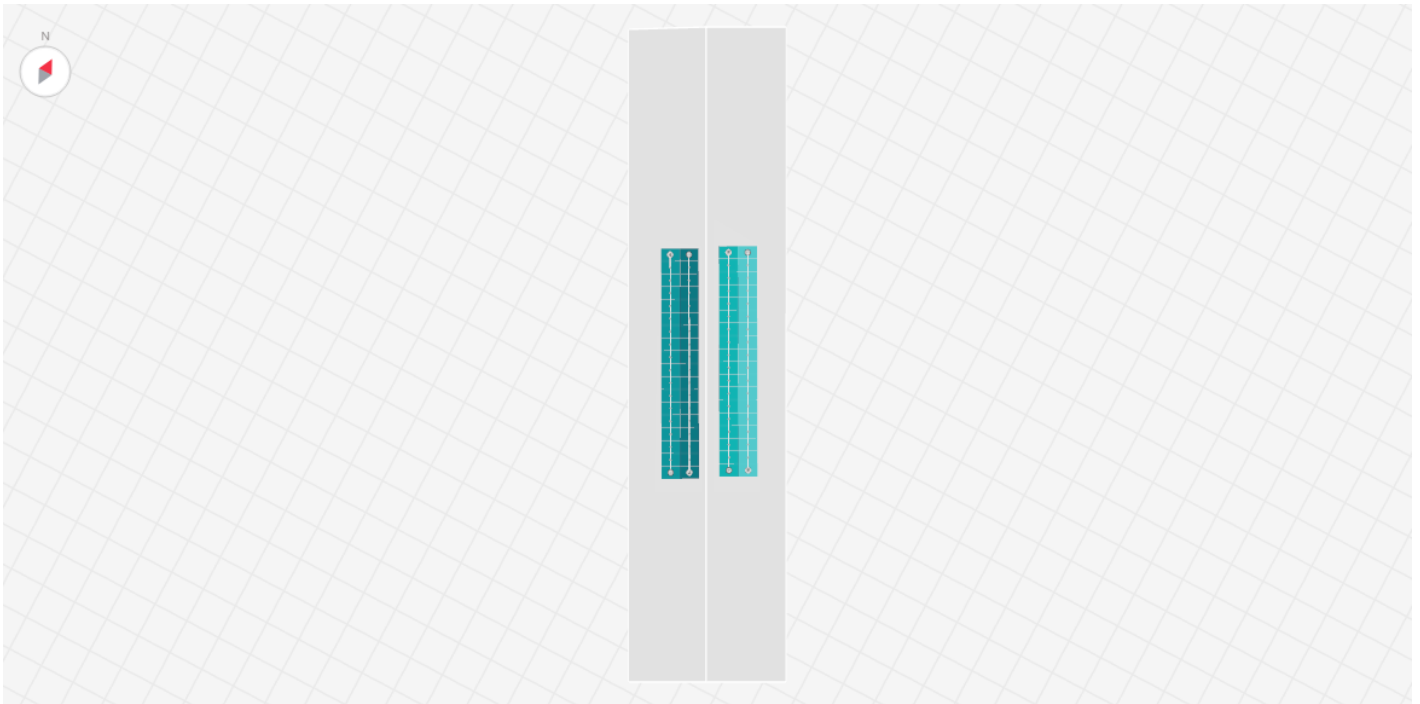


PV Module Layout Building 1



Manufacturer/Model	Quantity	Azimuth	Absolute Tilt
● Trina Solar/TSM-DE09.08	36	-118°	33°
● Trina Solar/TSM-DE09.08	36	62°	30°

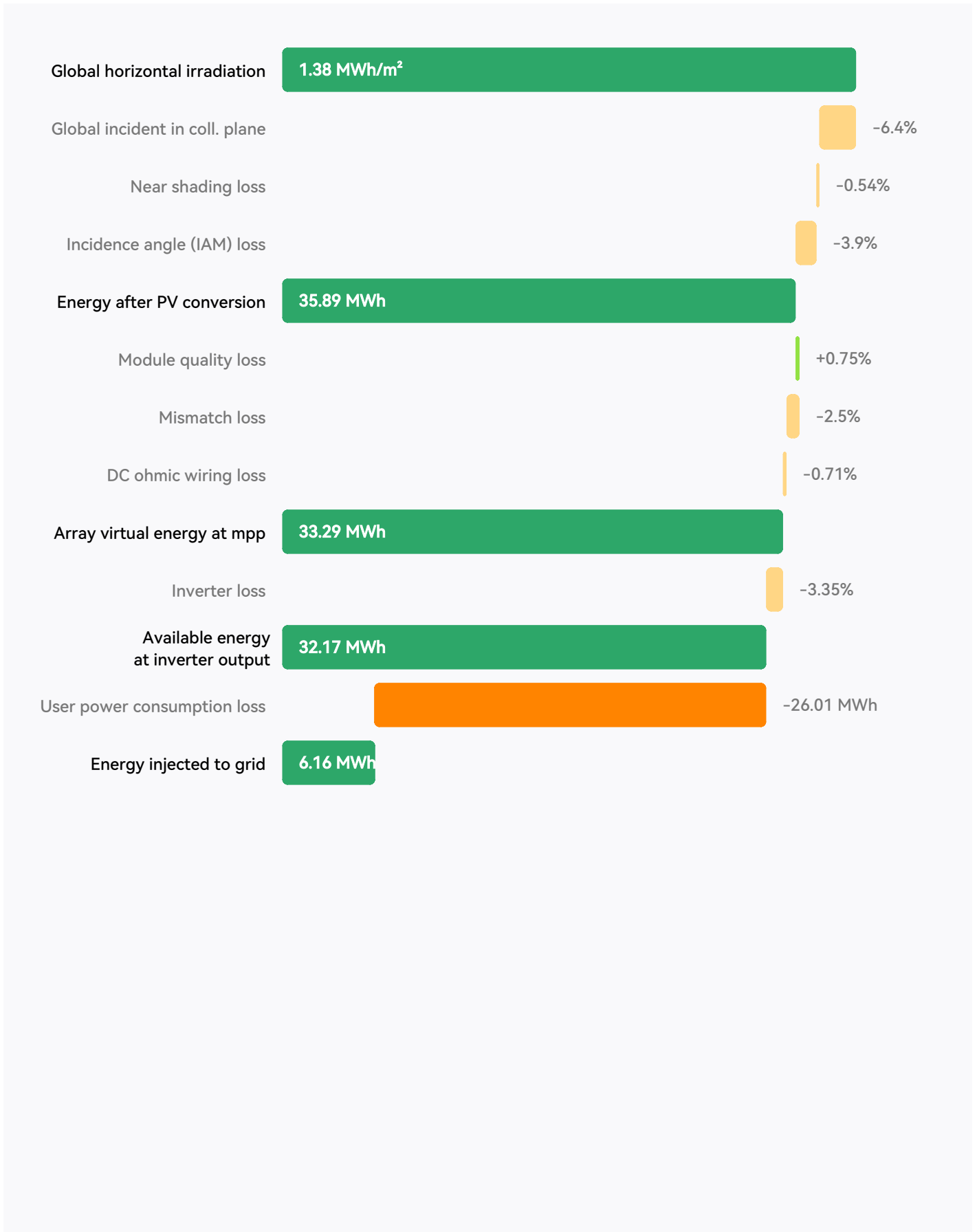
Electrical Wiring Building 1



Electrical Wiring - Details Building 1

Inverter	MPPT	String	PV Module
# 1 SUN2000-30KTL-M3	MPPT1	● String1	18
	MPPT2	● String2	18
	MPPT3	● String3	18
	MPPT4	● String4	18

System Loss Diagram



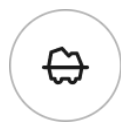
First-Year Environmental Benefits



13.98 tons
CO₂ Reduced



19
Equivalent Trees Planted



12 tons
Standard Coal Saved

Simulation Parameters

Time Zone	UTC +2:00
Weather Station	Sarata
Meteorological Data	Meteonorm
Grid Type	230 V/400 V
Plant Altitude	14 m