

Project Overview

PV System

Grid-connected PV System

Climate Data	Chisinau, MDA (1991 - 2010)	
PV Generator Output	590,44	kWp
PV Generator Surface	2 630,9	m ²
Number of PV Modules	1018	
Number of Inverters	13	

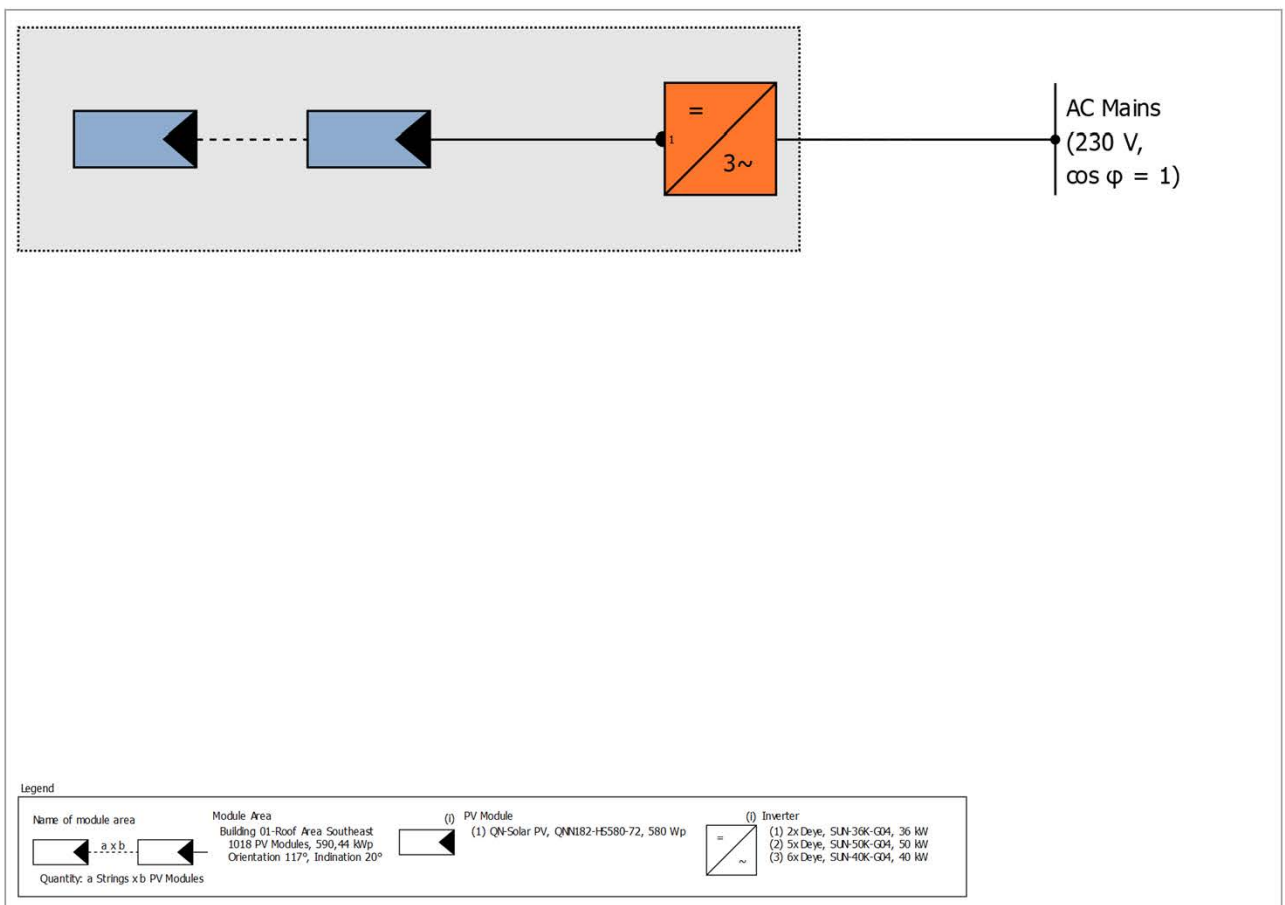


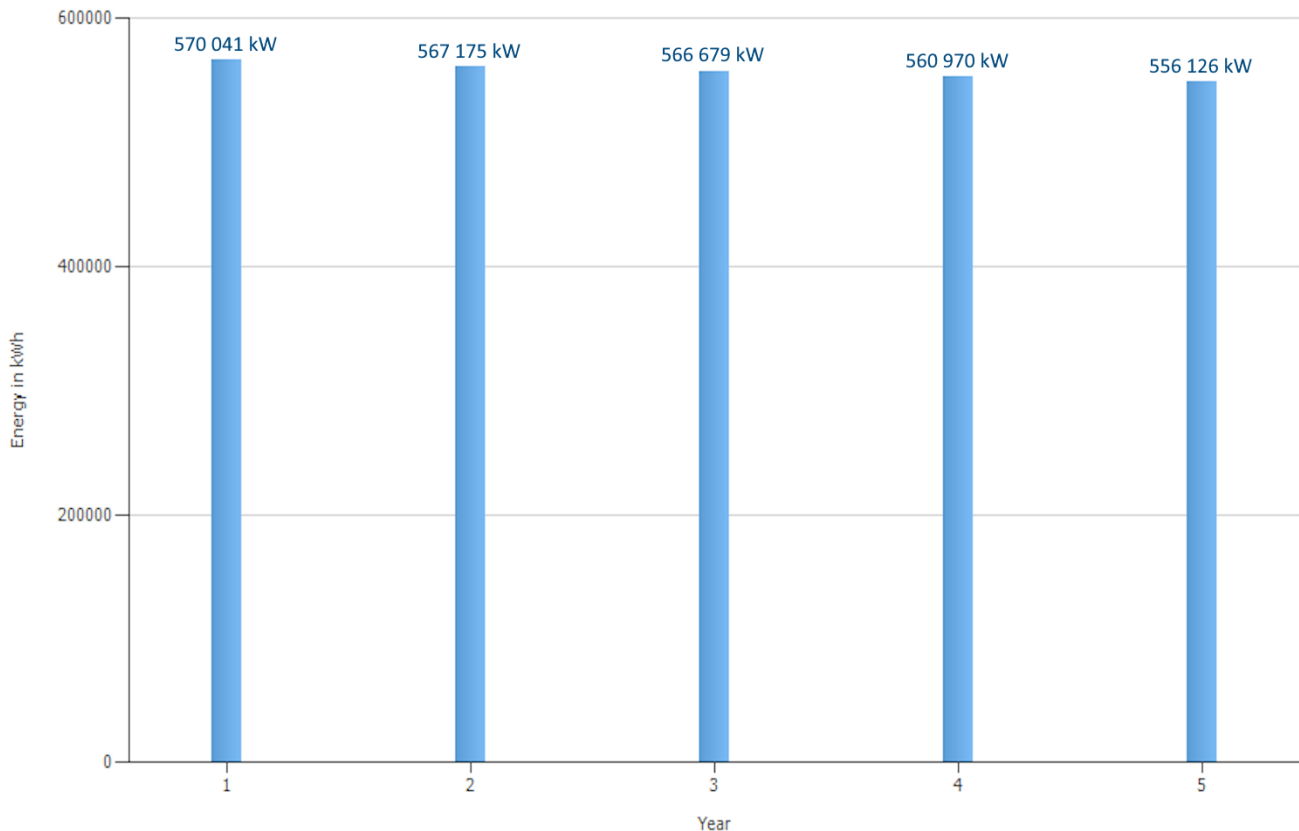
Figure: Schematic diagram

The yield

The yield

PV Generator Energy (AC grid)	570 041 kWh
Grid Feed-in	570 041 kWh
Down-regulation at Feed-in Point	0 kWh
Own Power Consumption	0,0 %
Solar Fraction	0,0 %
Spec. Annual Yield	965,33 kWh/kWp
Performance Ratio (PR)	75,0 %
CO ₂ Emissions avoided	267 886 kg / year

PV ENERGY DURING OBSERVATION PERIOD 5 YEARS



The results have been calculated with a mathematical model calculation from Valentin Software GmbH (PV*SOL algorithms). The actual yields from the solar power system may differ as a result of weather variations, the efficiency of the modules and inverter, and other factors.

Simulation Results

Results Total System

PV System

PV Generator Output	590,4 kWp
Spec. Annual Yield	965,33 kWh/kWp
Performance Ratio (PR)	75,0 %
Grid Feed-in	570 041 kWh/Year
Grid Feed-in in the first year (incl. module degradation)	567 175 kWh/Year
Standby Consumption (Inverter)	71 kWh/Year
CO ₂ Emissions avoided	267 886 kg / year

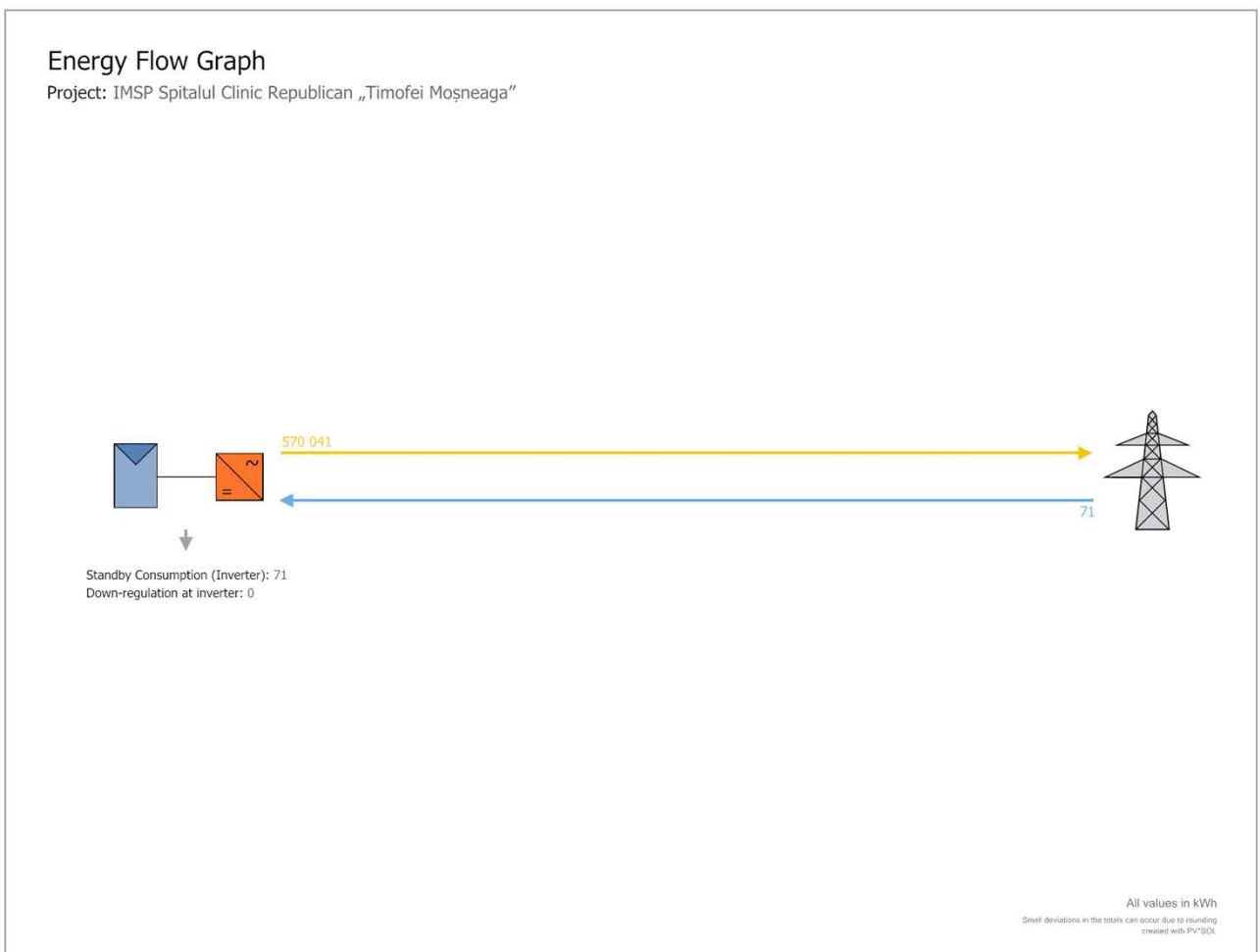


Figure: Energy Flow Graph

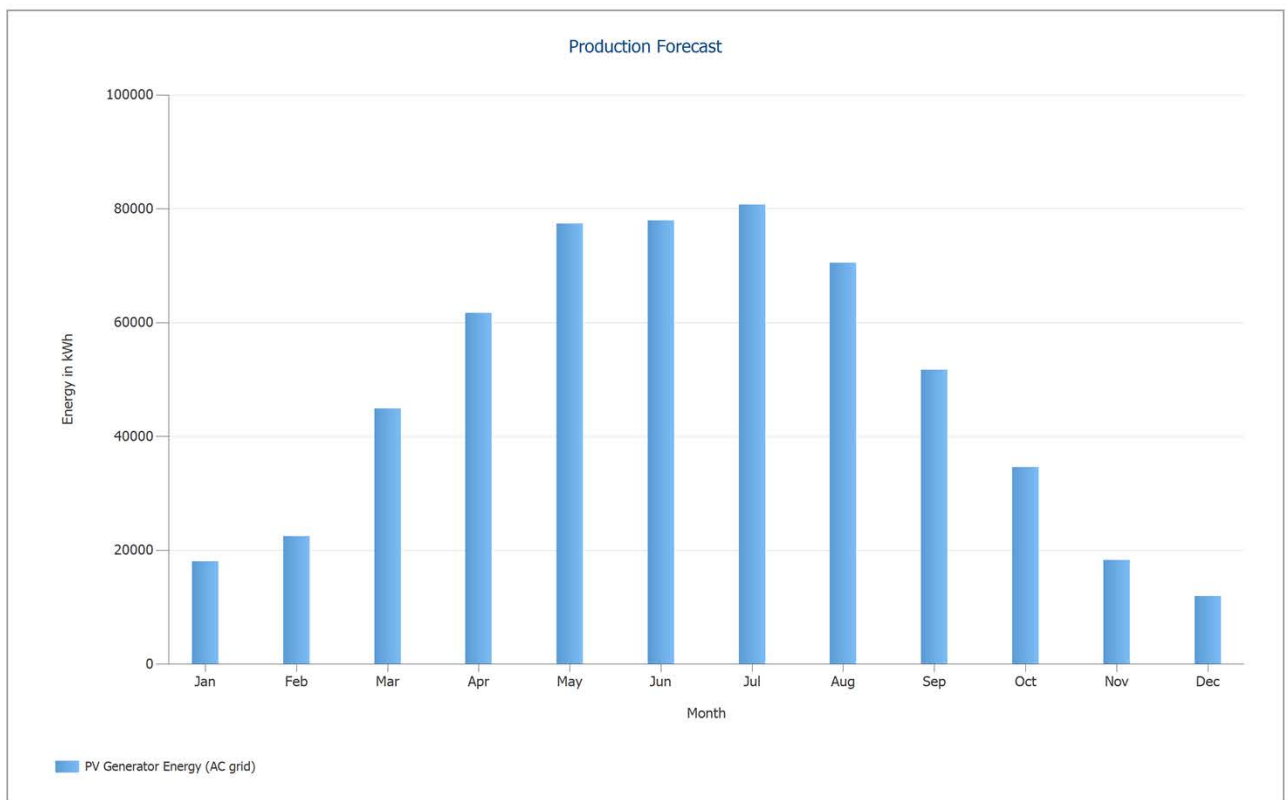


Figure: Production Forecast

Results per Module Area

Building 01-Roof Area Southeast

PV Generator Output	590,44 kWp
PV Generator Surface	2 630,90 m ²
Global Radiation at the Module	1218,45 kWh/m ²
Global Radiation on Module without reflection	1287,28 kWh/m ²
Performance Ratio (PR)	74,99 %
PV Generator Energy (AC grid)	570041,18 kWh/Year
Spec. Annual Yield	965,45 kWh/kWp