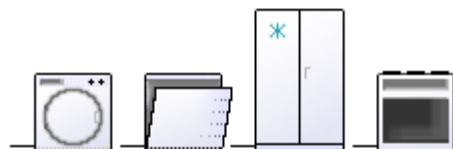
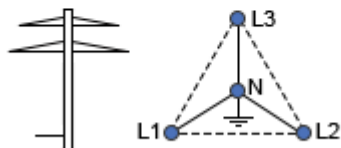


Photovoltaics: Photovoltaic module
Number of modules: 10
Total nominal power generator field: 1.8 kW
Orientation (E=+90°, S=0°, W=-90°): 0 °
Tilt angle (hor.=0°, vert.=90°): 45 °



Number of electricity consumption profiles: 0
Total consumption of the profiles: 0 kWh



Electric Grid: Three-phase (230V/400V, 50 Hz, WYE)
Local grid voltage: 400 V
Feed-in power limitation: no

Location of the system

Ramfjordbotn
Longitude: 19.402°
Latitude: 69.519°
Elevation: 779 m

This report has been created by:

Luc Meier
Stadthausstrasse 125
8400 Winterthur

Financial Report

Overview photovoltaics (annual values)

Total gross area	14 m ²
Energy production DC [Qpvf]	1,339.6 kWh
Energy production AC [Qinv]	1,203.3 kWh
Total nominal power generator field	1.8 kW
Performance ratio	79 %
Specific annual yield	668.5 kWh/kWp/a
Phase imbalance	1.3 kVA
Reactive energy [Qinvr]	0 kvarh
Apparent energy [Qinva]	1,203.3 kVAh
CO2 savings	645.4 kg

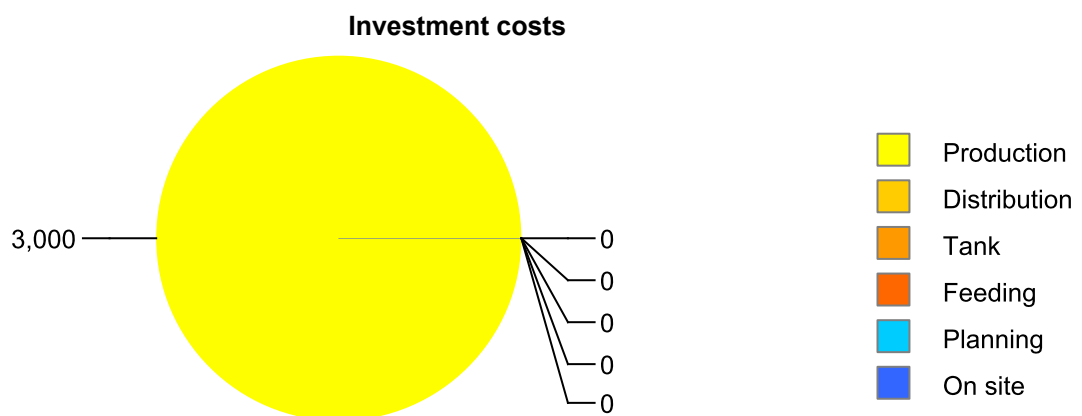
Financial Report

Conditions

Time period under observation		30.00	a
Internal rate of return		0.00	%/a
Energy price increase			
Electricity		0.00	%/a
Price change technology		0.00	%/a
Inflation		2.00	%/a
Degradation PV		0.50	%/a

System costs

Production	100.00%	3000.00	CHF
Total		3000.00	CHF



Operation and maintenance

Costs			
Maintenance costs		0.00	
Hook-up fees		0.00	

Miscellaneous

Credit			
Interest rate on debt		0.00	%
Debt amount		0.00	CHF
Debt maturity		0.00	a
Receipts from thermal energy			
Sales of thermal energy		0.00	CHF
Energy price increase		3.00	%

Net present value

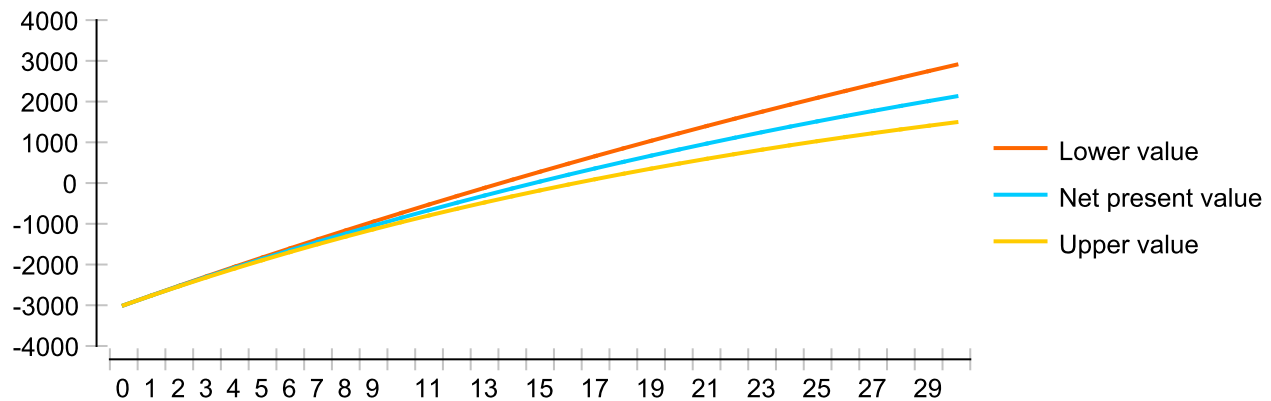
Net present value		2129.16	CHF
NPV sensitivity analysis of effective interest rate			
Upper value	1.00%	1493.45	CHF

Financial Report

Net present value

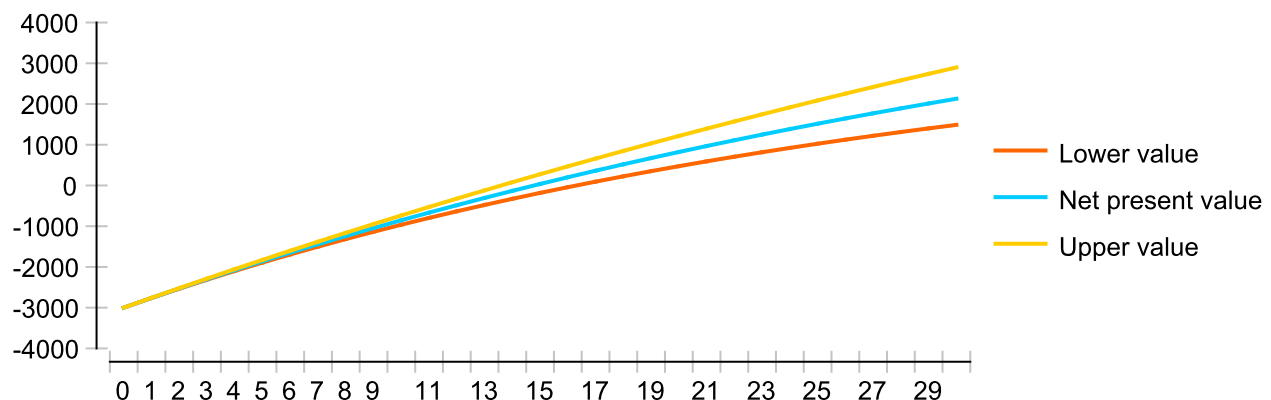
NPV sensitivity analysis of effective interest rate			
Lower value	-1.00%	2905.68	CHF

NPV sensitivity analysis of effective interest rate



NPV sensitivity analysis of energy price increase			
Upper value	1.00%	2897.18	CHF
Lower value	-1.00%	1487.64	CHF

NPV sensitivity analysis of energy price increase



Payback period

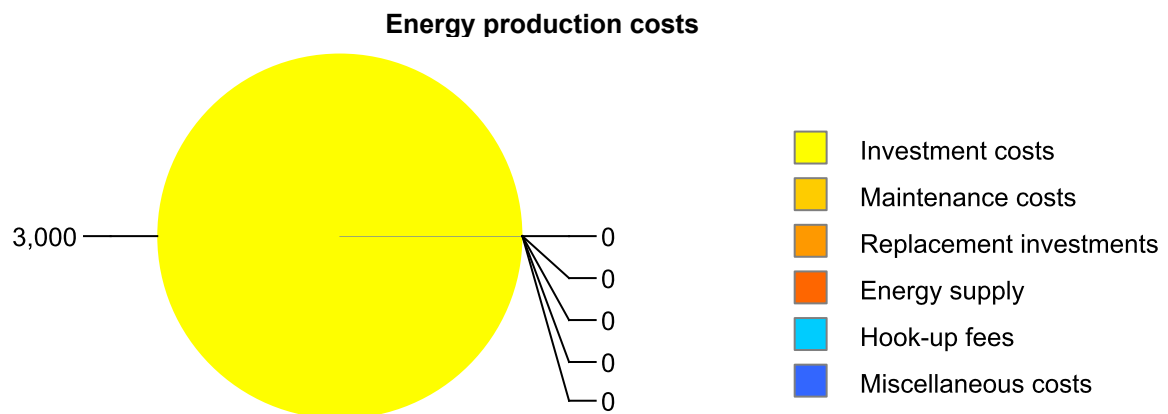
Payback period		15.00	a
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Total gains and costs

Absolute profit		3820.02	CHF
Energy production costs		0.09	CHF/kWh
Receipts from the sale of energy		5129.16	CHF
Costs of fuel and district heat		0.00	CHF
Electricity costs		0.00	CHF

Financial Report

Total gains and costs



Annuity

Annuity		70.97 CHF/a
Annuity factor		0.03 %

Internal rate of return

Internal rate of return		0.05 %
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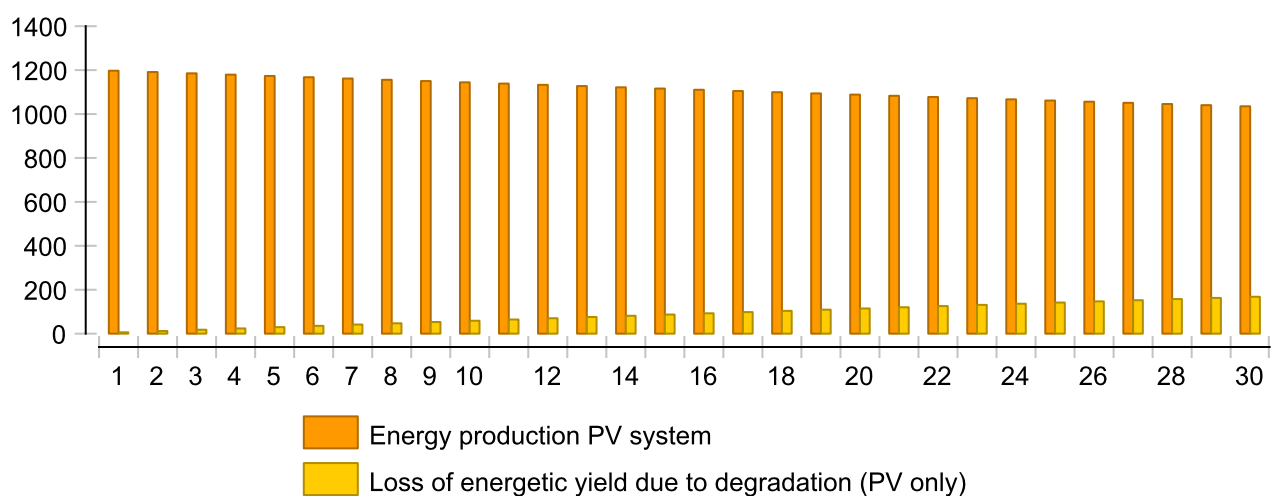
Replacement investments

Replacement rate		0.00
Replacement investments		0.00 CHF

Degradation PV

Loss of energetic yield due to degradation (PV only)		2667.02 kWh
Loss of financial yield due to degradation (PV only)		368.49 CHF

Energy production PV system

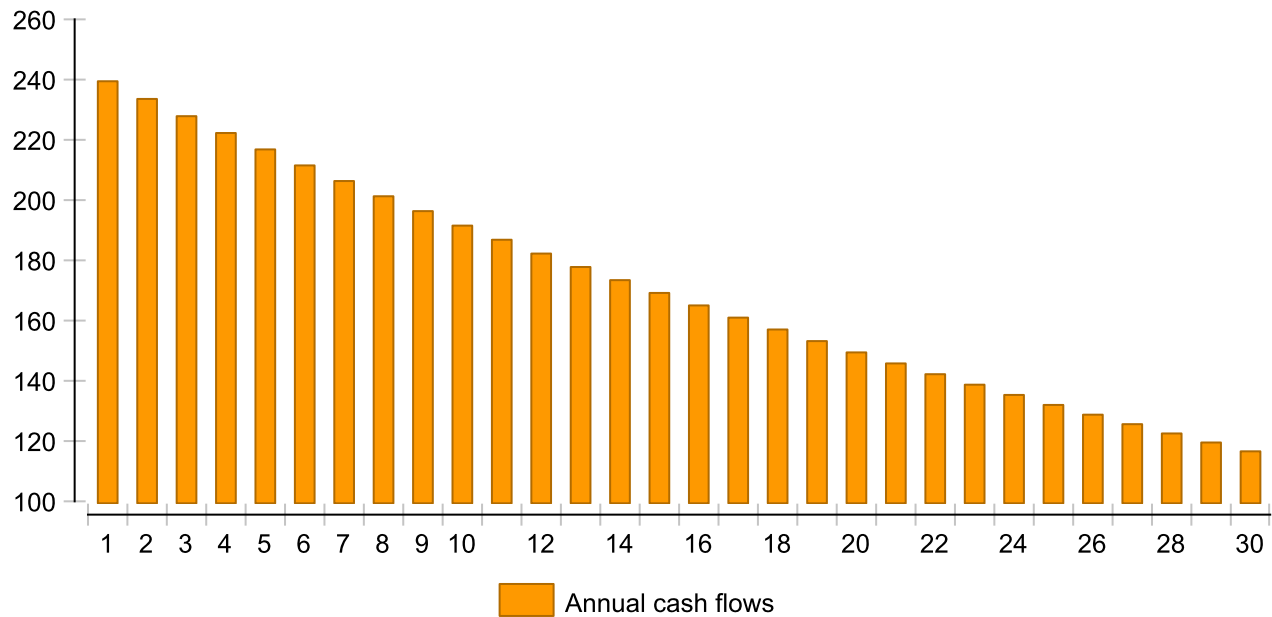


Financial Report

Annual cash flows

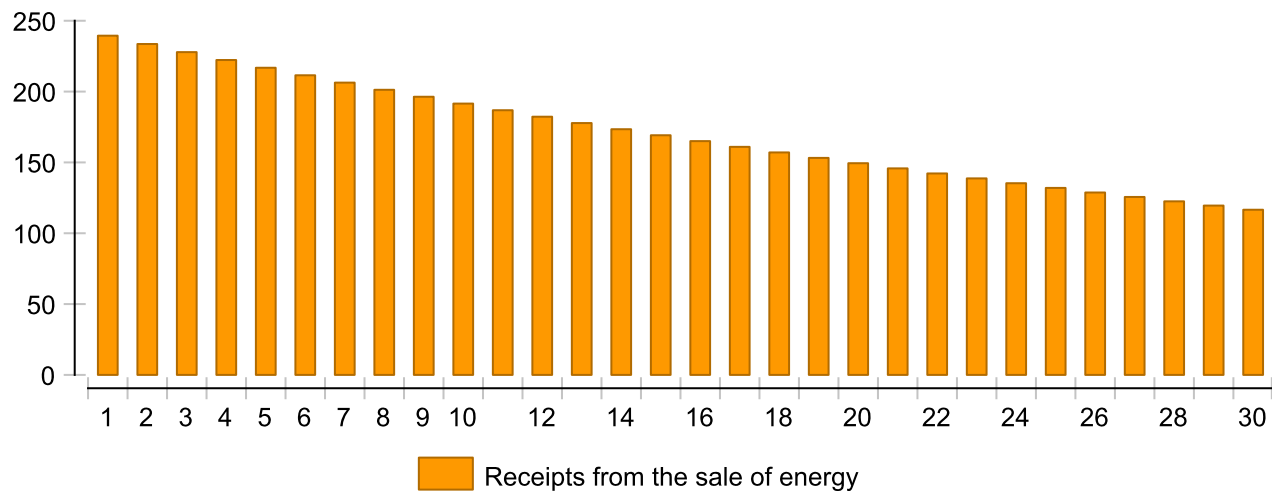
Annual cash flows		0.00 CHF
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Annual cash flows



Receipts from the sale of energy		5129.16 CHF
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Receipts from the sale of energy



Costs of fuel and district heat		0.00 CHF
Electricity costs		0.00 CHF
Replacement investments		0.00 CHF

Financial Report

Glossary

Net present value	Total amount of the (net) present value of all expenditures and returns on investment in the time period under observation. The reference date is the date of commissioning. A sensitivity analysis on the effective interest rate and the upward change in energy prices is automatically attached to this value. Additionally, the upper and lower extreme values are also shown. For further information, please see the user documentation (F11).
Internal rate of return	
Payback period	Length of time required for the investment to be amortized through revenues, also known as a payback period. For further information, please see the user documentation (F11).