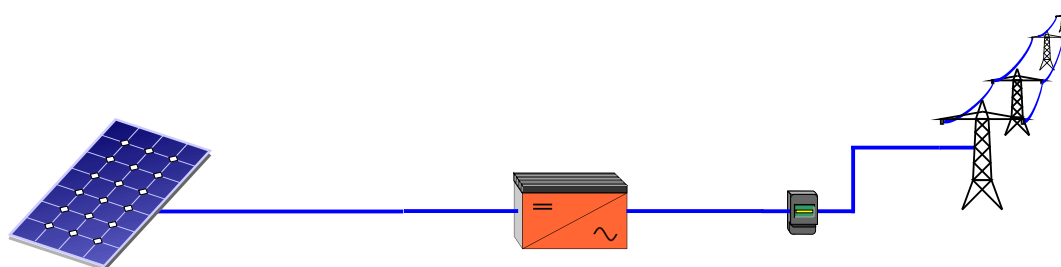


Project Name: Skærbæk
 Variant Reference: System Variant

29-01-2008



20 x Gaia Solar
 GS 85 p 85 W
 ↙35° ↘0°

1 x Danfoss
 PGI 1.5 HV
 1,8 kW

Location:	Kobenhavn
Climate Data Record:	Kobenhavn
PV Output:	1,720 kWp
Gross/Active Solar PV Surface Area:	13,80 / 13,98 m ²

PV Array Irradiation:	16.129 kWh
Energy Produced by PV Array (AC):	1.471,8 kWh
Grid Feed-in:	1.471,8 kWh

System Efficiency:	9,0 %
Performance Ratio:	73,5 %
Inverter Efficiency:	90,7 %
PV Array Efficiency:	10,0 %
Specific Annual Yield:	847,9 kWh/kWp
CO2 Emissions Avoided:	1.291 kg/a

The Results are calculated using a mathematical model. The actual PV System yields can vary due to variations in climate conditions, module and inverter efficiency and other factors. The System Schematic above is a sketch, and cannot replace a professional technical drawing of the PV System.

Project Name: Skærbæk
 Variant Reference: System Variant

29-01-2008

System in Grid Connected Operation

Location:	Kobenhavn	PV Output:	1,720 kWp
Climate Data Record:	Kobenhavn	Gross/Active Solar PV Surface Area:	13,8 m ² / 14,0 m ²
Number of Arrays:	1		

Array Name

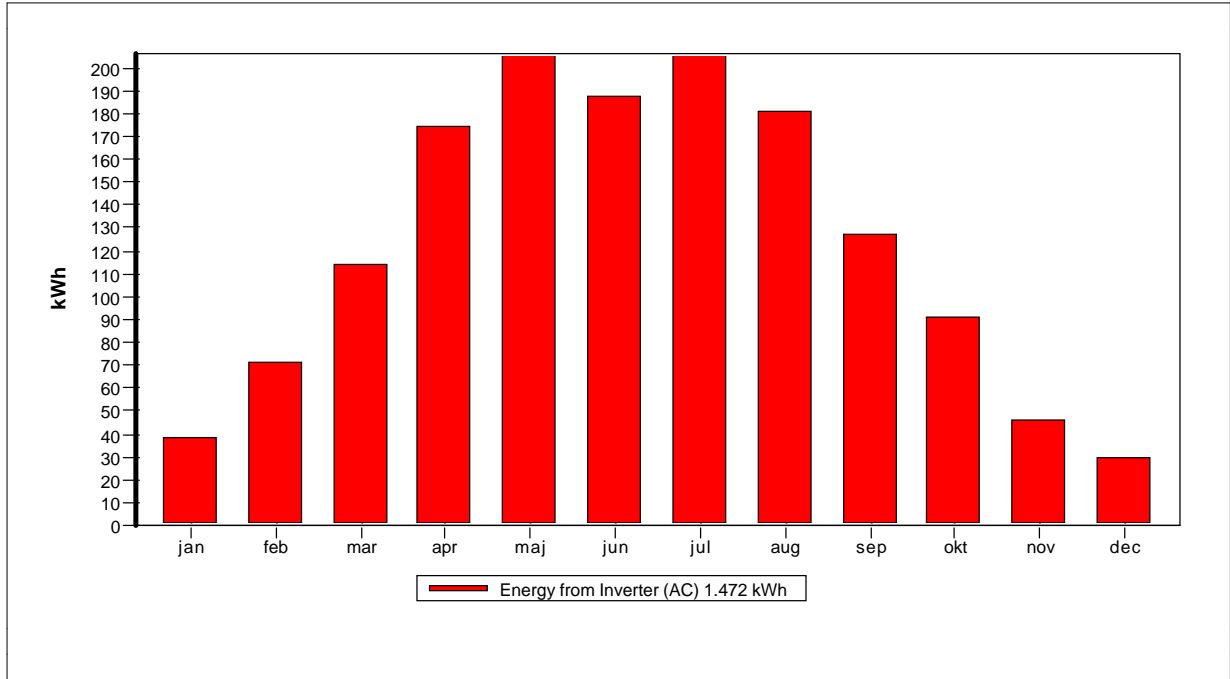
Output:	1,72 kW	Ground Reflection:	20,0 %
Gross/Active Solar Surface Area:	13,8 m ² / 14,0 m ²	Output Losses due to:	
PV Module	20 x	Deviation from AM 1.5:	1,0 %
Manufacturer:	Gaia Solar	Deviation from Manufacturer's Specification:	2,0 %
Type:	GS 85 p	Diodes:	0,5 %
Power Rating:	85 W	Due to Pollution:	0,0 %
Power Rating Deviation:	0 %	Inverter	1 x
Efficiency (STC):	12,3 %	Manufacturer:	Danfoss
No. of Modules in Series:	20	Type:	PGI 1.5 HV
MPP Voltage (STC):	362 V	Output:	1,80 kW
Orientation:	0,0 °	European Efficiency:	93,2 %
Inclination:	35,0 °	No. of MPP Trackers:	1
Mount:	Without Ventilation	MPP Tracking:	200 V To: 500 V
Shade:	No		

Individual Appliances Total Consumption: 0 kWh

Individual Appliance 1 Type: User-Independent Appl. 0 kWh

Simulation Results for Total System:

Irradiation onto Horizontal:	13.709 kWh	Own Use:	13,9 kWh
PV Array Irradiation:	16.129 kWh	Energy Produced by PV Array:	1.608 kWh
Irradiation minus Reflection:	15.434 kWh	System Efficiency:	9,0 %
Energy from Inverter (AC):	1.472 kWh	Performance Ratio:	73,5 %
Consumption Requirement:	0 kWh	Final Yield:	2,3 h/d
Energy from Grid:	14 kWh	Specific Annual Yield:	848 kWh/kWp
Array Efficiency:	10,0 %		



Project Name: Skærbæk
 Variant Reference: System Variant

29-01-2008

Economic Efficiency Calculation

System Data

PV Output: 1,720kWp
 System Operating Start: 01-05-2006

Electricity Feed-in:
 Grid Concept: Full Supply to Grid
 For the First 20 Years: 0,0000 kr/kWh
 After: 0,0000 kr/kWh

Basic Economic Efficiency Parameters

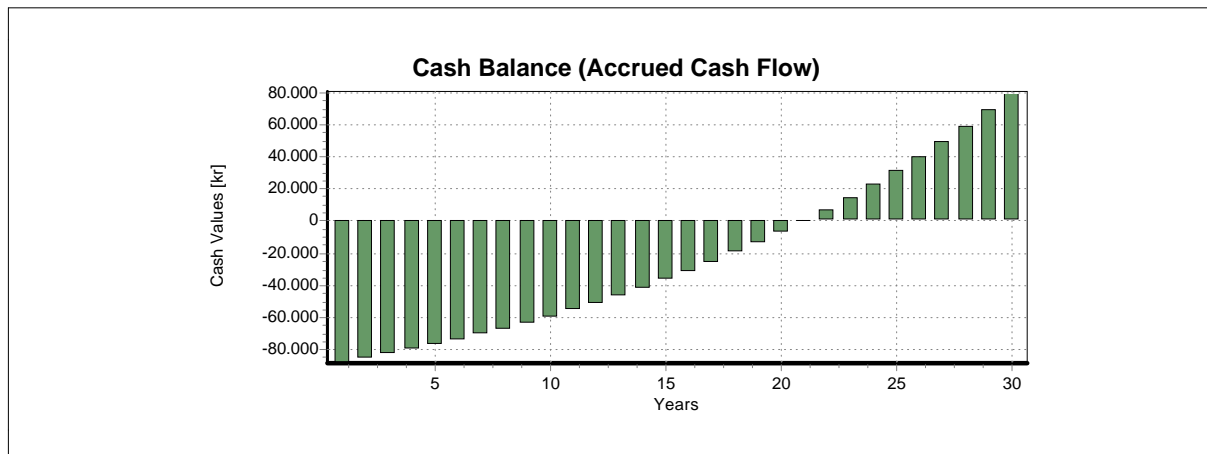
Assessment Period 29 Years
 Interest on Capital 0,00 %
 All entries without sales tax

Balance of Costs

Investment Costs 90.000,00 kr
 Operating Costs 315,00 kr/a
 Other Income/Savings 2.723,00 kr/a

Results According to Capital Value Method

Capital Value 116.671,31 kr
 Amortization Period 20,7 Years
 Net Yield 3,5 %
 Electricity Production Costs 2,25 kr/kWh



Project Name: Skærbæk
Variant Reference: System Variant

29-01-2008

Detailed List of all Payments Received and Made

Investment Costs			
Position	Service Life [a]	Price Change Factor [%]	Amount[kr]
Investment Costs	50	0,00	90.000,00
Operating Costs			
Position		Price Change Factor [%]	Amount[kr]/a
Running Costs		0,00	315,00
Other Income/Savings			
Position		Price Change Factor [%]	Amount[kr]/a
Other Income/Savings		5,00	2.723,00