

Planning sheet PV-stand-alone-system

Commission number: _____

Please return the completed planning sheet to your contact person. Solara will then contact you within 2 – 5 days or send you an offer. Please note that each stand-alone-system is an individual system.

Date: _____ Signature of the planner: _____

Contact details

Company

Street name, No.

Postcode, City

Phone number

E-mail

Answer needed until

Realisation period

Project maturity

Price idea (financial leeway)

Location

Project name

Street name, No

Postcode, City

System administrator

Phone number/e-mail

Height above sea level

Roof construction

Ground installation

Saddle roof



Hipped roof



Pent roof

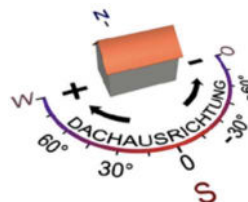


Flat roof



Dimensions

a Roof width: _____
b Roof height: _____
c Ridge height: _____
d Ridge length: _____



Roof tilt [°]: _____
Roof alignment [°]: _____

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Planning sketch

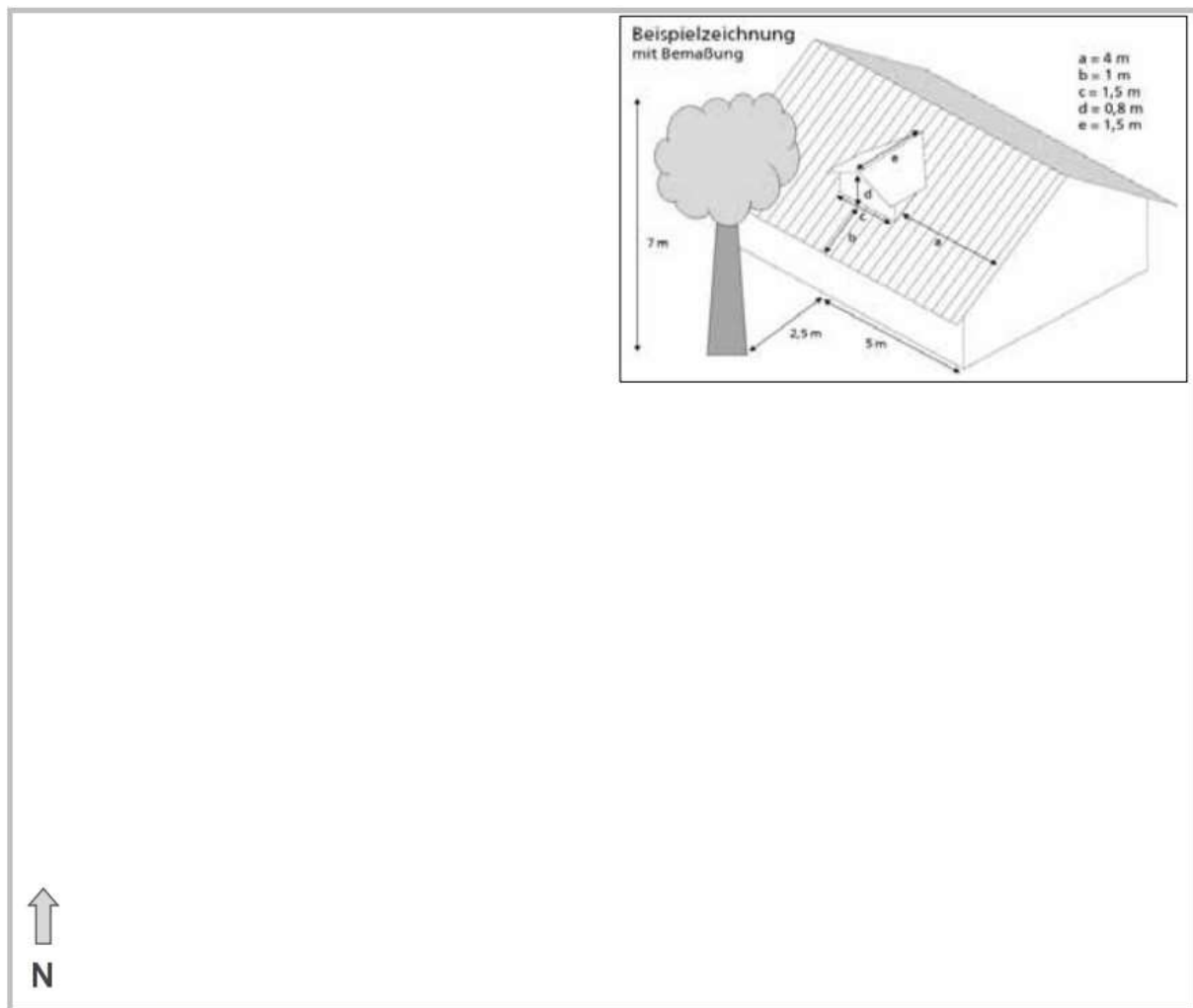
Additional planning documents

Enclosed as additional planning documents: Floor plan Photos/Drawings Site plan

Sketch of the structural conditions

Objects integrated in the roof (dormers, chimney, light panels etc.)

Shading of the module surface (objects in the roof, trees, surrounding buildings etc.)



Note: _____

Project description

What should be operated and, if necessary, why? E.g. house supply, lighting system, cooling, electrical system/drive, motorhome, boat etc.

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Usage times of the entire system

- All year-round usage Usage over a temporary time from: _____ until: _____
 Only weekend usage

Usage mostly daytime night-time

Days of usage over the month:

_____ January _____ February _____ March _____ April
 _____ May _____ June _____ July _____ August
 _____ September _____ October _____ November _____ Dezember

Power usage and daily usage

Calculation of the power requirements per day (24h):

Power input [W] x No of consumers x Operation duration [h]

Consumer	Watt* [W]	Watt if variant	Voltage		No of consumers	Daily operation duration [h]	Power requirements [Wh]
			DC	AC			
Energy-saving lamp	11						
Lamp	60						
Radio	20						
Stereo system	100						
Video/DVD	50						
Television	100						
Computer	100						
Monitor	100						
Colour laser printer	170						
Telephone charger	0,5						
Fridge	80						
Freezer	100						
Fan	100						
Microwave	1200						
Dishwasher	1200						
Kitchen appliances	200						
Coffee machine	1000						
Washing machine	1000						
Hoover	1000						
Water pump	300						

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Total energy demand per day (24h) _____ Wh

*average power input

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Plant data

Loads

What are the max and min loads Daily Summer Winter
and when do they occur? Max load _____ kW _____ kW _____ kW
 Min load _____ kW _____ kW _____ kW

Inverter

Required power output of the inverter Continuous output at 25°C _____ W
 Maximum power (5 sec.) at 25°C _____ W

Other energy sources

<input type="checkbox"/> no other energy sources	DC voltage	DC output	AC voltage	AC output
<input type="checkbox"/> diesel generator	_____ V	_____ W	_____ V	_____ W
<input type="checkbox"/> wind	_____ V	_____ W	_____ V	_____ W
<input type="checkbox"/> other _____	_____ V	_____ W	_____ V	_____ W

Battery: Layout of the energy storage device

Autonomy time

The determination of the energy availability (autonomy time) is necessary to dimension the battery.

Please fill in:

How long must/should the installation be autonomous? _____

Should the system also function safely in bad weather? _____

Depending on the time and intensity of use over the year (summer/winter), the autonomy time can vary in its length.

Guidelines:

	Summer	Winter
Availability in days (autonomy)	_____	_____
Availability all year round	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Battery size/type

Please tick (not mandatory):

Battery type Liquid acid Gel

To calculate the battery size, the daily energy requirement (Wh) is divided by the system voltage (e.g. 12V). A battery can be discharged to about 50% at average temperatures (deep charge limit). This means that the result of the division is doubled and is the necessary energy quantity of the day in Ah. The final battery size is obtained by multiplying this daily amount by the number of defined autonomy days.

Daily requirements	/	System voltage	x 2 x	Autonom Days	=	Battery size
↓		↓		↓		↓
_____ Wh	/	_____ V	x 2 x	_____ Tage	=	_____ Ah