



Off-grid

Technical planning aid

for calculation of stand-alone solar power systems (off-grid)

This checklist is designed to help you to summarise all the important information needed for the optimum planning of an off-grid solar power system. Your specialist supplier will be pleased to provide you with an offer tailored to your specific needs based on this information.

_____ Company, Name		_____ E-Mail	
_____ Address		_____ Site address	
_____ Telephone	_____ Fax	_____ Coordinates of site	

1. Project description

Please give a brief description of the planned use (e. g. residential, water pumping)

2. Kind of offer

What kind of offering do you require?

Equipment only Equipment and installation

3. Information about electricity supply at site

Are there other electricity sources?

- No
- Yes, namely:
- Electricity grid (_____ phases)
 - Diesel generator (____ phases), rated power: _____ kW
 - Other: _____ (____ phases),
rated power: _____ kW

4. Usage period

Please specify the number of days the system is used each month of the year in the table below.

	Jan	Feb	Mar	Apr	May	Jun
Operation: days per month						
	Jul	Aug	Sep	Oct	Nov	Dec
Operation: days per month						

5. Load profile

a. Please specify your average daily electricity consumption in kWh per day: _____ kWh/d or per anno: _____ kWh/a.

b. Please complete the table by specifying all your electrical equipment

I. Electrical device	II. Device details, product name	III. Voltage		IV. Rated output	V. Quantity of devices	VI. Operating time (hours per day)	VII. Energy need (=IV x V x VI)
		DC	AC				
Light bulb		V _{DC}	V _{AC}	W		h/d	Wh
Light bulb		V _{DC}	V _{AC}	W		h/d	Wh
Other light		V _{DC}	V _{AC}	W		h/d	Wh
Pump		V _{DC}	V _{AC}	W		h/d	Wh
TV		V _{DC}	V _{AC}	W		h/d	Wh
Radio		V _{DC}	V _{AC}	W		h/d	Wh
DVD Player		V _{DC}	V _{AC}	W		h/d	Wh
Coffee machine		V _{DC}	V _{AC}	W		h/d	Wh
Computer		V _{DC}	V _{AC}	W		h/d	Wh
Refrigerator		V _{DC}	V _{AC}	W		h/d	Wh
Freezer		V _{DC}	V _{AC}	W		h/d	Wh
		V _{DC}	V _{AC}	W		h/d	Wh
		V _{DC}	V _{AC}	W		h/d	Wh
		V _{DC}	V _{AC}	W		h/d	Wh
Total	--	--	--	--	--	--	Wh

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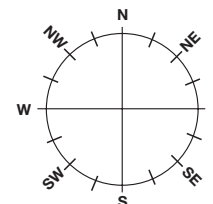
CONERGY

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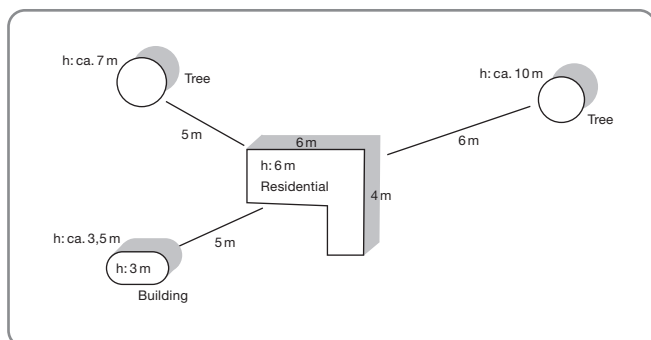
6. Location description sketch

Please sketch the site characteristics (habitation, other buildings, trees, shaded area etc.), including information about distances and heights, and add pictures, if available.



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Example



Specialist company executing the work:

OFF-GRID/II-TP-CAN-0704