

Commission number:

Please return the completed Planning Sheet to your contact person. Solara will contact or send you an offer within 2 to 5 days. Please consider that every stand alone system is a customised system.

Date: Signature of the planing person:						
Contactdetails						
Company	Answer required until					
Street	Realization period					
ZIP, City	Project status					
Phone	Price association (possible buc	lget)				
E-Mail	-					
Location						
Projectname	Plant operator					
Street	Phone/E-Mail					
ZIP, City	Absolute altitude					
Roof composition						
Foor mounting						
Ridge roof Hip roof	Shed roof	Flat roof				
b c c c c c c c c c c c c c c c c c c c	b	a b c				
Roof meassure						
a Roof width: b Roof height: c Ridge height: d Ridge length:	W + +	Roof pitch [°]: Roof alignment [°]:				
	30° 0 S	www.solara.de				



Planning Draft			
Further planning documents			
Enclosed further planning documents:	Ground plan	Photos/Drawings	Site plan

Draft of the building conditions

Roof integrated objects (pitched dommer, chimney, lightpanels etc.)

Shadowing of the modules (in-roof objects, trees, surrounding buildings etc.)



Project description

What should be operated?

E.g. house supply, illumination, cooling, electrical system/engine, caravan, boat, etc.



Utilisation time of the system							
Whole year usage	hole year usage Usage during a specific period from:						
Just weekend usage							
Mainly consumption during the	day (daytime usage)	night (nighttime usage)					
Utilisation days per month							
January	February	March	April				
Мау	June	July	August				
September	October	November	December				
Deily als stricity concurrentian							

Daily electricity consumption

Calculation of the daily energy requirement (24h):

Power input [W] x number of power consuming devices x duty cycle [h]

Power consuming	Watt*	Watt if	Volt	age	number of	Duty cycle	Energy
devices	[W]	variational	DC	AC	devices	per day [h]	requirement [Wh]
Energy saving lamp	11						
Standard lamp	60						
Radio	20						
Hi-Fi system	100						
Video/DVD	50						
Televisor	100						
Computer	100						
Computer monitor	100						
Color-Laserprinter	170						
Telephone charger	0,5						
Refrigerator	80						
Freezer	100						
Ventilator	100						
Mikrowave	1200						
Dishwasher	1200						
Kitchenware	200						
Coffee machine	1000						
Washing machine	1000						
Vacuum cleaner	1000						
Water pump	300						



System data Loads								
Max. and min. loads and when do they oc Necessary for sizing the inverter and/or di generator.	cur? esel	max min.	. load load	Daily	Summ kW kW	nerkW kW	Winter	kW kW
Inverter								
Required power drain of the inverter				Continuous Maximum o	output at 25° utput (5sec.)	C at 25°C		w w
Other energy sources								
No other energy sources	DC-Voltage	V	DC-Pov	werW	AC-Voltage	V	AC-Power	W
Wind		V		W		V		W
Other:		V		W		V		w
Sizing of the energy storage Autonomous time The definition of the energy availability time (autonomous time) is important fot the dimensioning of the battery. Pleas fill out: how long should the system be autonomous? Should the system work even in longer bad weather periodes? Depending on the usage time and the usage intensity per year (summer/winter), the autonomous time can variegate. Specification:								
Availability in days (autonomy)	Summer			winte	ſ			
Availability all year round	yes	1	No					
Battery dimension/ type (not strictly requ	uired)							
Battery type: liquid acid	gel							
For dimensioning the battery, the daily energy requirement (Wh) will be divided by the system voltage (e.g. 12V). At average temperatures, it is possible to discharge a battery up to ca. 50% (deep discharge thresholds). So the necessary daly energy requirement is the doubled result of the division. The finally battery size will be achived by multiplying the defined autonomous days.								
Daily energy requirement / Syste	w Voltage	>	(2 x	Autonomou	s days	=	Battery size	
Ū	ŶĻ	_V >	(2 x	Û	days =	=	\bigcup	Ah