

EXAMPLE

Standard survey form for PV solar energy project

Please fill the following information as much as possible.
This will help to prepare a complete solar PV solution according to your requirement and existing electrical installation.

100 General data:

101	Project name		
102	Customer		
103	Contact person		
104	Telephone		
105	E-mail		
106	Industry/Application		
107	Expected date of installation		
108	Required solar PV solution:		
	ongrid		off grid with batteries
	hybrid with batteries and grid		hybrid with generator and grid
	hybrid with batteries and generator		hybrid with batteries, generator and grid

200 Location data:

201	Address		
202	City and country		
203	Latitude/Longitude/Altitude		

300 Electrical data:

301	Grid Configuration	1 phase	3 phase	3phase with MV distribution
302	Low voltage level		V	
303	Medium voltage level		KV	MV transformer on site
304	Nominal frequency		Hz	

400 Load data/Consumption

401	Average load		kW per hour		
402	Minimum load		kW per hour		
403	Maximum load		kW per hour		
404	Annual consumption		kWh		
405	Average consumption in day		kWh	in night	kWh
406	Load per hour in kW (if data is available)				
	0-1h	6-7h	12-13h	18-19h	
	1-2h	7-8h	13-14h	19-20h	
	2-3h	8-9h	14-15h	20-21h	
	3-4h	9-10h	15-16h	21-22h	
	4-5h	10-11h	16-17h	22-23h	
	5-6h	11-12h	17-18h	23-24h	
407	Seasonal variation	Yes		No	
408	Minimum load (off-season)		kW		
409	Maximum load (off-season)		kW		

500 Genset configuration (only fill if using generator and intends to hybrid with PV system)

501	Fuel type:	Diesel generator	Gas generator	Steam turbine	Furnace oil generator
502	Generator information				
	Model				
	Manufacturer				
	Quantity (units)				
	Power rating (KVA)				
	Fuel consumption (L per hour)				
	Fuel cost (per litre)				

503	Annual fuel consumption (litres)		
504	General controller information		
	Manufacturer	Model	Modem/TCP interface
	Overload plant controller available		Yes
	Genset power management	manual	relative PM %
	Other:		No time controlled
505	Genset control type	isochronous	droop controlled
506	Genset status	in operation	not yet installed

600 Economics:

601	Currency		
602	Grid electricity cost	per kWh	
603	Average electricity cost with fuel	per kWh	
604	Estimated annual fuel price increase	%	
605	Estimated annual grid electricity price increase	%	
606	Operational and maintenance expenditure of electricity cost	%	

700 Additional information:

701	Permanent internet connection on site	yes	no
702	Free available space (M ²)	on roof	on ground
703	Type of roof	inclined	plane
704	Tilt (°)		

705 Please attached the following documents if available:

- Copy of electrical bill.
- Single line diagram of electrical distribution.
- Data sheet generator.
- Simple site map sketch.

706 Additional instructions:

707 Information provided by:

- Name
- Company name
- Designation
- Contact number
- E-mail
- Date