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Energy Supply Sheet - user information

1. Available Budget

Please indicate your available budget for the requested PV system

2. Present Power Facilities

Should any present power facilities be available, these should be listed under this section.

Solar system

- 2.1 Inverter power rating: normally in Watt (W) or VA.
- 2.2 Battery capacity: should be marked on the battery as XXX Ah C10 or XXX Ah C100. The Ah value is the most important information, should the C value also be known, please state it.
- 2.3 System Voltage: Voltage of battery bank, alternatively state number of single batteries and their voltage, i.e. 48V, 36V, 12V, 12x2V, etc.
- 2.4 Solar Array: indicate size of existing solar power output. Sum up the wattage of all existing PV modules.

Generator

- 2.5 Make: Generator manufacturer, e.g. Honda, etc
- 2.6 Model: Generator model
- 2.7 Size: power generation capacity, e.g. 5.5KW, 30kVA, etc.
- 2.8 Single/Three Phase: current system running on single or three phase. A single phase generator indicates no three phase loads are used.

3. General Information

- 3.1 System Type: The locality at which the PV system is required is either: Residential, Farm, Lodge or Commercial. This indicates certain power usage behaviours and the system can thus be sized accordingly.
- 3.2 Reason: The reason why PV power is to be installed, please only indicate one. The information obtained will again assist us in determining system needs and size. To prevent power outages requires a different system than a standalone system to generate 220V.
- 3.3 PV Tracker Required: Yes/No. Solar modules can be mounted on a PV tracker which follows the daily movement of the sun for best performance over the whole day.

- 3.4 220V Battery Charging Required: should a generator of sufficient size be available, charging of the batteries via the generator can be incorporated. Depending on charging time and generator capacity the amount of PV modules required will be reduced.
- 3.5 Required Generator Runtime: indicate the hours the generator needs to run per day as heavy loads need to be powered. Less generator runtimes will increase number of total PV modules.
- 3.6 Required System Autonomy: System autonomy is the backup time for which the system can operate under normal load conditions should no/limited battery charging capacity be available, e.g. heavy cloud cover for days on end. Normal system autonomy for off grid system is 2-3 days, for back systems (UPS) 0.5 days maximum. The system autonomy determines the required battery capacity.
- 3.7 Installation Required: should the requested system be installed by a qualified Solar Age Namibia team or should it be setup for DIY installation.

4. Personal Information

Your personal information is required to contact you, should we have any questions concerning your requested system quotation. Furthermore, if installation is required, your personal information will assist us in determining where the installation will take place.

5. Type of load

List of possible loads that are found in normal households. Should loads not listed be incorporated, please indicate under other together with the power consumption.

6. Power (W)

Lists power usage of all listed loads. Should additional loads (not listed) be incorporated, please specify the power rating of each load.

7. Qty

The total number of each load that needs to be incorporated in the system, i.e. 15 Lights, 2 TV 54cm, etc.

8. Daily use (hrs)

Please indicate the usage time (hours) per day for each listed load. Should no time be given, then Solar Age Namibia will assume usage time according to personal experience and general behaviour, i.e. TV 3 hours/day, Alarm 24hours/day, etc.

9. Days per Week

Not all loads are operated 7 days a week, e.g washing machines, some kitchen appliances, etc. Please indicate what the weekly usage will be, i.e. 3 days per week, etc. This together with the daily use value determines the amount of power to be generated/supplied by the system.

10. Daily Energy (Wh/d)

Is not vital and can be left blank.