

Checklist Client Requirements

Client Information

Last Name: _____

First Name: _____

Company: _____

Address: _____

Country: _____

Phone: _____

Fax: _____

E-Mail: _____

Application

What voltage output is needed? (What is the regular grid voltage in the country?)

AC/DC: _____ Voltage: _____

Frequency: _____ Number of phases: _____

Plug/socket: _____

Is the system going to be used as stand-alone solution (off-grid) or as power back-up for the regular grid (on-grid)?

off-grid on-grid Comments: _____

Is it planned to feed excess power into the local grid in case of an on-grid solution?

Yes No Comments: _____

Details on connected devices

What is the average total consumption of attached devices (in W or kW)?

What is the average combined daily consumption (in Wh or kWh)?

What is the peak load (in W or kW)?

How long will the average daily period of use be (hours per day)?

How long will the period of peak load be (hours per day)?

Over what period the peak load will be needed (hours per day)?

Is the consumption during specific hours of the day and/or specific days of the week different from the remaining period?

Is the demand for energy constant over the year and if it isn't, how does demand change over the months? (E.g. use of heaters during winter, air conditioners in summer, etc.)

Are there other irregular consumers? (E.g. lighting during night hours, power sockets used by maintenance technicians, etc.)

Do consumption profiles over the day and/or over the year exist or can they be generated?

Peak load compensation

Is a diesel powered generator set wanted for compensating peak loads?

Yes No Comments: _____

For which maximum duration period should the PLC cover the consumption of the predefined consumers using stored energy (battery)?

For which maximum duration period should the PLC cover consumption of the predefined consumers taking into account energy generated by the diesel powered generating set?

What maximum energy storage capacity for the batteries is wanted or needed?

What minimum reserve storage capacity remaining in the batteries is wanted?

Water treatment

Is a water treatment unit required?

Yes No Comments: _____

How much drinking water is needed per day?

Day	Water demand [l/d]	Comments
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		

What is the distance between the nearest water source and the container?

What kind of water source is it? How dirty is the water?

(From the ocean, a river, a lake, a well, is it brackish? How high is the turbidity?)

Is a remote monitoring for the water treatment unit wanted?

(Is there a mobile phone network available at the installation site? Which? How good is the signal? What is the data transmission rate?)

Yes No Comments: _____

Installation site

Where is the container supposed to be installed?

Country: _____

Region: _____

Next bigger town (distance): _____

Mobile Network (Sort, quality, transmission rate): _____

Longitude and latitude:

Is the container supposed to be used as a stationary or a mobile installation?

Stationary

Mobile

Comments: (Details on the exact place of installation or kind of mobile use)

Is a drawing of the future installation site available?

Yes No Comments: _____

How large is the available free space for the container?

Condition of the installation site

Is the ground solid?

(Rock, hard stones, sand, mud or wet ground where the container could sink?)

Yes No Comments: _____

Are leveling works necessary?

Yes No Comments: _____

Is it possible to fasten some kind of anchoring to the ground?

Yes No Comments: _____

Special requirements

Are the buildings or natural objects that can cast a shadow on the installation site?

(Buildings, masts, towers, trees, etc.? What time of the day would each affect which part of the site?)

Yes No Comments: _____

Is there a danger of theft or destruction of property? (Has a fence to be built?)

Yes No Comments: _____

Are there possible sources of dirt? (Leaves from trees, sand, animals, etc.)

Yes No Comments: _____

Is there regrowing vegetation that has to be removed continuously? (E.g. in the tropics)

Yes No Comments: _____

Is there a risk of natural disasters?

(Earthquakes, volcanoes, hurricanes, floods, tsunamis, etc.)

Yes No Comments: _____

Other possible problems

(Caused by the weather, snow, mud, sandstorms, flood, regular flooding, hailstorms, heavy rain, etc.)

Delivery of the PLC

Is there bulk material for filling of the sand bags? (Sand, gravel, etc., for the PV unit)

Yes No Comments: _____

Is the ground solid enough for a trailer truck with the container?

Yes No Comments: _____

Is there sufficient space for maneuvering the truck?

Yes No Comments: _____

Do you have your own truck for transporting the container?

Yes No Comments: _____

Is there a crane or a forklifter available for unloading the container?

Yes No Comments: _____

Is there a gas station nearby?

Yes No Comments: _____

Mobile use of the PLC (optional)

Is there a proper truck or towing vehicle available?

Yes No Comments: _____

Is there the right trailer or chassis for the transport of a container on hand?

Yes No Comments: _____

Is the PLC supposed to stay on the trailer permanently?

Yes No Comments: _____

Extra equipment

Is remote monitoring wanted for the container?

(Is there a mobile phone network available at the installation site? Which? How good is the signal? What is the data transmission rate?)

Yes No Comments: _____

Other optional equipment: (E.g. higher battery capacities, additional water storage tank, fuel storage tank, fuel pump)

On-site conditions

Solar radiation (average h/d): _____

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
hrs												

Wind speed (average m/s): _____

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
m/s												

Temperatures (average °C): _____

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
°C												

Water supply (in case of water treatment unit): _____

Explanatory notes