

Questionnaire for Solar-Fuel-Saver Systems

We are happy to design an energy system specifically to your needs. Please complete the questionnaire and send it back to info@go-pure.eu. We will then contact you with a first system layout and a budget calculation.

Fields marked with * are mandatory.

➔ General Data:

Project name:* _____
 Customer: _____
 Contact Person: _____
 Address: _____
 E-mail: _____ Phone number: _____

➔ Project Site Data:

Please provide information concerning the site.

- Country:* _____ City:* _____
- Location Coordinates (if available): _____
- Altitude: _____ [m]
- Site accessibility: Is site accessible with container trucks? Yes No
- Area availability:* _____ [m²]

If possible, please provide a map, or a sketch of the area intended for the project.

- Please describe this location: _____
- Is the area flat? Yes No – Additional Information: _____
- What is the soil condition? [Sandy / Rocky / Alluvial / other]: _____

➔ Electrical System:

Please provide information concerning the diesel generator system.

- Is there an existing diesel generator?*: Yes No
- System Capacity:* _____ [kW]

If yes, please provide details of the generator(s).

Generator 1

- Manufacturer: _____
- Model: _____
- Rated Power: _____ [kVA]
- Controller: _____ [such as Woodward, Deep Sea, ComAp]
- Controller Model: _____
- Storage Tank Size: _____ [Liters]

Generator 2

- Manufacturer: _____
- Model: _____
- Rated Power: _____ [kVA]
- Controller: _____ [such as Woodward, Deep Sea, ComAp]
- Controller Model: _____
- Storage Tank Size: _____ [Liters]

Generator 3

- Manufacturer: _____
- Model: _____
- Rated Power: _____ [kVA]
- Controller: _____ [such as Woodward, Deep Sea, ComAp]
- Controller Model: _____
- Storage Tank Size: _____ [Liters]

For multiple generator systems, please provide the name and model of the multiple generator control system (MGCS).

- Manufacturer: _____
- Model: _____
- Access to controllers' settings possible? Yes No

Clear photos of the generators' controller panel are also helpful so we can design the best solution for you.

➔ Loads & Consumption

Please provide information concerning the fuel consumption pattern.

- Energy consumption per day:* _____ [kWh/d]
- How high is the "peak load" (highest load in the day)?* _____ [kW]
- What is the lowest load during daytime?* _____ [kW]
- Expected average power factor of load (cos φ): _____ [-]

Please provide the hourly load profile and select the corresponding power unit [kW]* If possible, please specify the loads of all three phases. If not, we assume for the load to be balanced on all three phases.

Time of day	Power [kW]				Time of day	Power [kW]			
	Phase 1	Phase 2	Phase 3	Total		Phase 1	Phase 2	Phase 3	Total
01:00 am					01:00 pm				
02:00 am					02:00 pm				
03:00 am					03:00 pm				
04:00 am					04:00 pm				
05:00 am					05:00 pm				
06:00 am					06:00 pm				
07:00 am					07:00 pm				
08:00 am					08:00 pm				
09:00 am					09:00 pm				
10:00 am					10:00 pm				
11:00 am					11:00 pm				
12:00 pm					0:00 am				

This table provides us with information to make a forecast of the amount of fuel you will save with our solution.

➔ Economics & Finance

Please provide the following information for an economic/financial forecast of the solution:

- Diesel price delivered at site (including Transportation etc.):* _____ [€/Liter]
- Expected Diesel price increase over next 20 years: _____ [% per year]
- Land Lease Cost [for solar field]: _____ [€/m²*year]
- Targeted equity share: _____ [%]
- Required return on equity: _____ [% per year]
- Interest rate on debt capital: _____ [% per year]
- Inflation: _____ [% per year]
- Corporate Tax: _____ [%]

➔ Energy Supply System

Please provide the following information for a financial payback forecast:

- Current price of energy paid by the user (either grid or genset): _____ [€/kWh]
- Expected increase of price of energy over next 20 years: _____ [% per year]