SMA Technologie AG
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Questionnaire on Off-grid System Dimensioning

General Data

Project _____ ☐ New plant
Customer _____ ☐ Refurbishment
Delivery address _____ ☐ Commissioning by SMA required
E-Mail _____ Delivery date _____ /_____(kW/Year)

Site and Plant Data

Country _____
City _____
Environmental Factors

solar irradiation	KWh/m²/a	
Wind speed medium	m/s	
Ambient temperature	°C min.	°C maximal
Altitude	m ü. NN	

Electric data

Grid Voltage: VAC ☐ Island grid ☐ Utility backup*
Frequency Hz ☐ 1-phase ☐ 3-phase

Battery Voltage: ☐ 24 V ☐ 48V ☐ 60V
Size: Ah or Autonomy time h

Grid feeding systems ☐ Diesel ☐ PV ☐ Wind ☐ CHP ☐ Others

Type of connection of PV/Wind ☐ AC-or ☐ DC-coupled

Communication ☐ Remote access via ☐ Modem ☐ GSM ☐ RS485

Loads / Consumption

	daily	summer	winter	yearly
Energy	kWh/d	kWh/d	kWh/d	kWh/a
Nominal load	kW	kW	kW	kW
Maximum load	kW	kW	kW	kW
Minimum load	kW	kW	kW	kW

Others Are there consumers with special requirements? (e.g.: high starting currents)

*Please enclose drawing, if possible.
Required minimum entries are grayed.

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Grid Feeding Systems

Diesel generator ☐ existing ☐ new

Manufacturer Type
Type ☐ synchronous ☐ asynchronous
Power kVA
Voltage V
Current A

Photovoltaics ☐ existing ☐ new

Manufacturer Type
Total power kWp
Voltage V

Wind power plant ☐ existing ☐ new

Manufacturer Type
Type ☐ synchronous ☐ asynchronous
Power kVA
Voltage V
Current A
Control Frequency ☐ electronic ☐ mechanical
Voltage ☐ electronic ☐ none
Grid forming ☐ yes ☐ no

CHP ☐ existing ☐ new

Manufacturer Type
Type ☐ synchronous ☐ asynchronous
Power kVA_{el} / kW_{th}
Voltage V
Current A
Control Frequency ☐ electronic ☐ mechanical
Voltage ☐ electronic ☐ none

Other ☐ existing ☐ new

Type (e.g. water turbine)
Manufacturer Type
Type ☐ synchronous ☐ asynchronous
Power kVA
Voltage V
Current A
Control Frequency ☐ electronic ☐ mechanical
Voltage ☐ electronic ☐ none
Grid forming ☐ yes ☐ no

Comments

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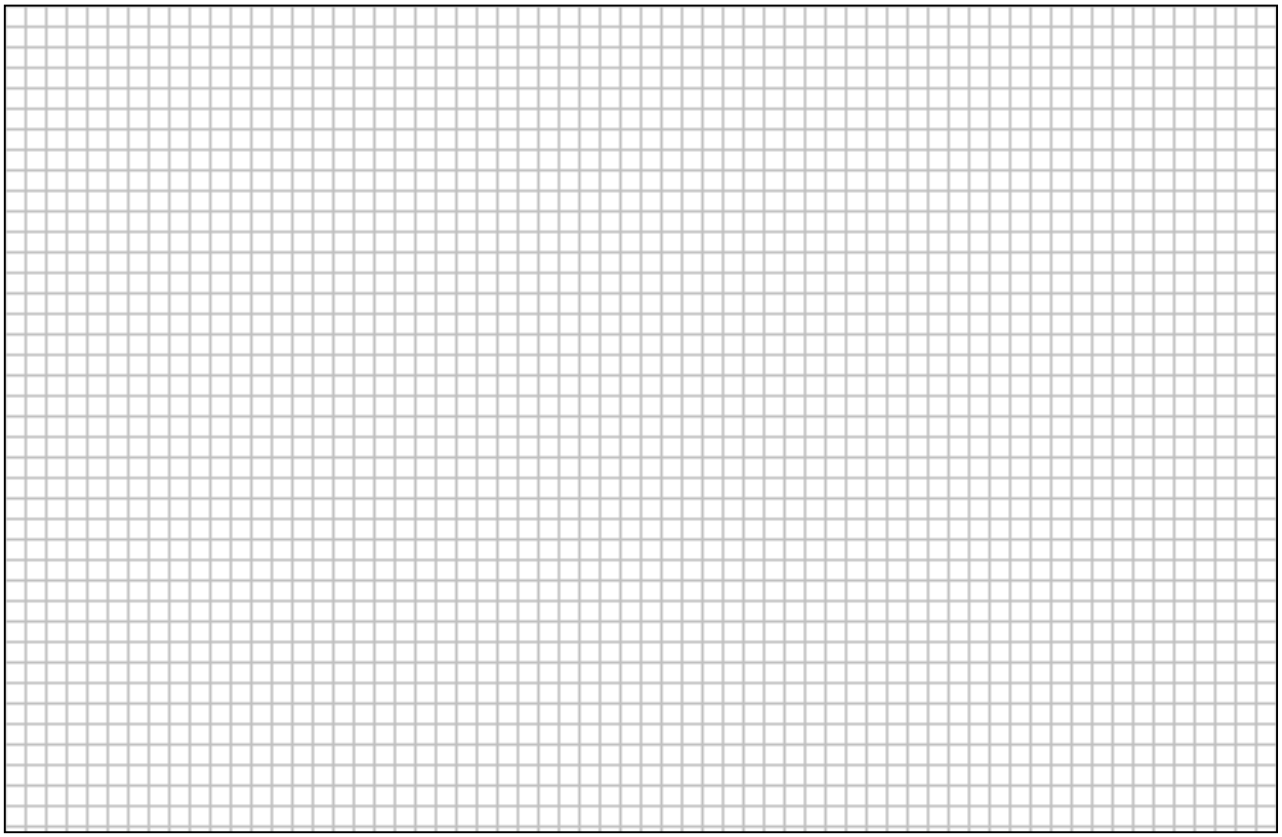
Appendix

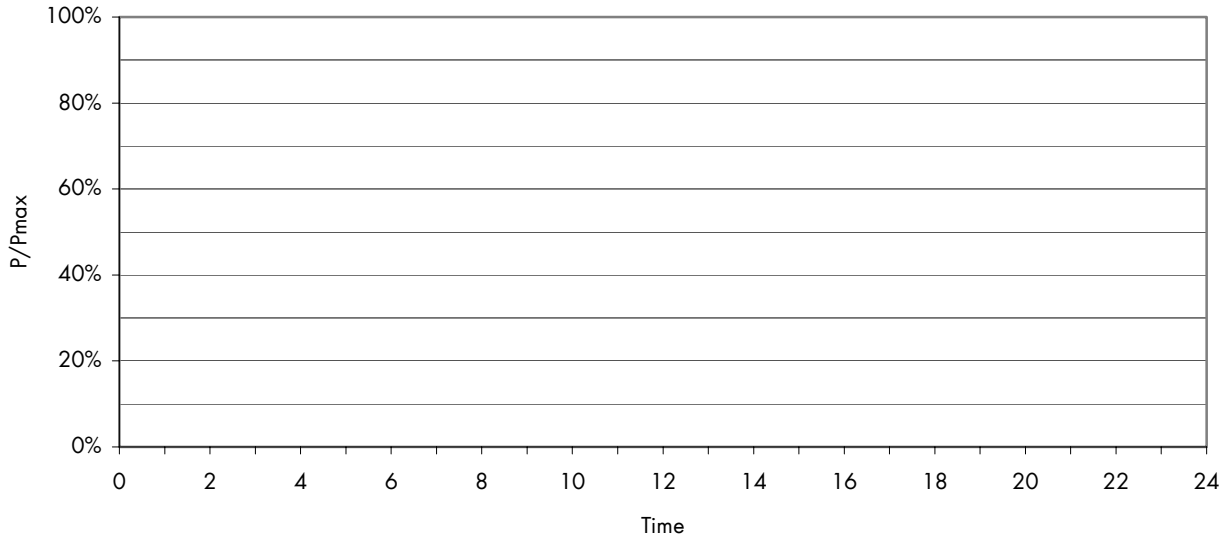
as to 2: Plant data

Drawing / Block Circuit Diagram



as to 3: Loads / Consumption

typical daily load curve
(in case of different consumption in summer / winter please draw two curves)



Pmax: kW