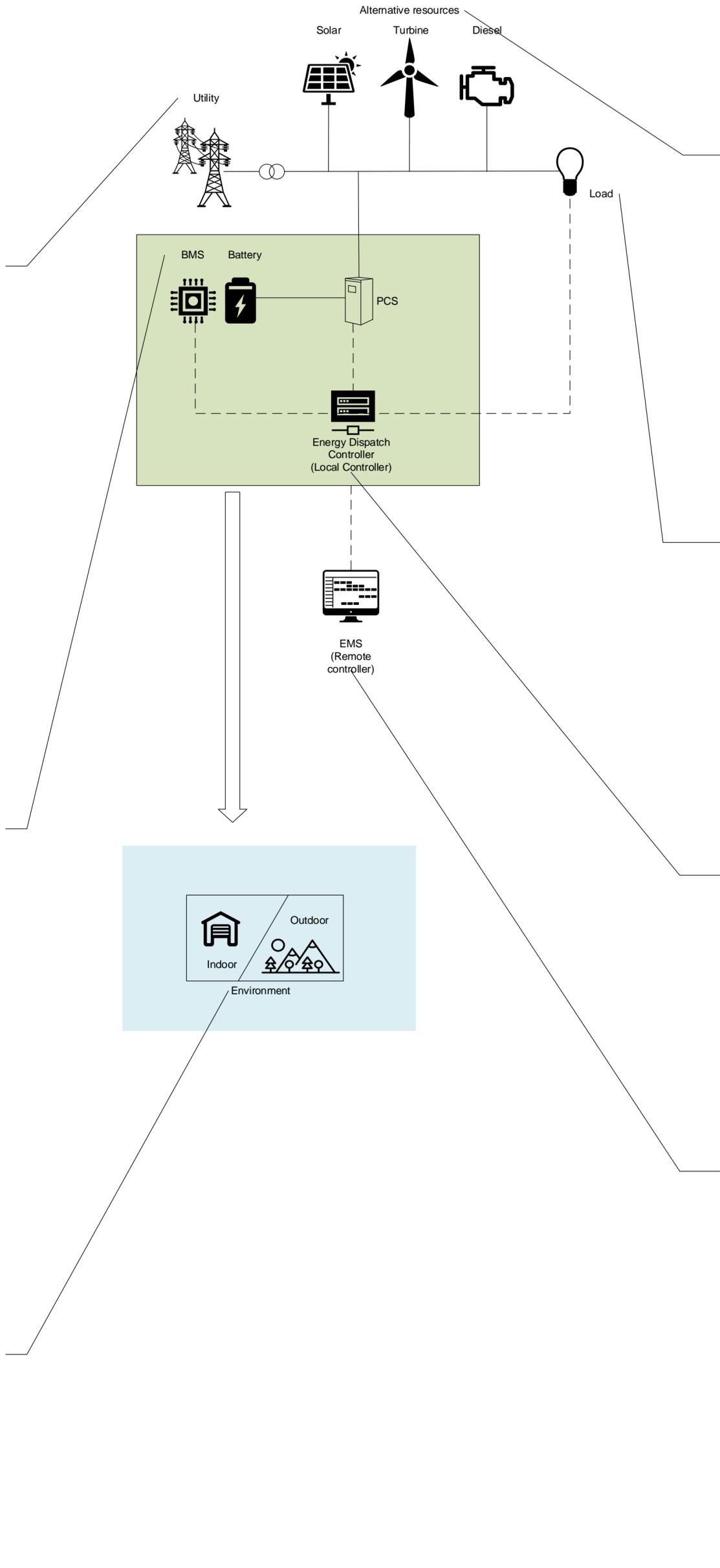


PKnergy early stage basic information checklist



1.1 What's the purpose of ESS? *

- Frequency response
- Demand RespOnse
- Micro-grid
- Power distribution extension
- Renewable energy maximization
- Other

1.2 Grid-tied or off-grid?

- Grid-tied only
- Off-grid only
- Both

1.3 Is seamless switching required?

- Yes
- No

1.4 The frequency, voltage and wiring system of local utility grid.

- Hz
- V
- Phase
- Wires(PE not included)

2.1 Who will provide the battery?

Provider

2.2 What kind of battery is required?*

2.3 What's the voltage range?*

V to V

2.4 What's the capacity of the battery?*

hour(s)
or kWh

2.5 Who will provide the BMS?

Provider

2.6 Is BMS required to directly communicate with PCS?

- Yes
- No

2.7 If yes, what protocol should be deployed?

3.1 Environmental temperature and humidity?

- Temperature °C
- Humidity %

3.2 Is it an island?

- Yes
- No

3.3 The elevation?

m

3.4 Indoor or outdoor?*

- Indoor
- Outdoor

3.4.1 If indoor, how much space available?

sqm

3.4.2 If outdoor, who'll provide the container?

Provider

3.5 Who will provide the fire-fighting, lighting and other auxiliary system?

Provider

4.1 Does PV/wind/diesel generator already exist?

- Yes
- No

4.2 What's the scale of the alternative resource?

- kW
- kW
- kW

4.3 Is there a plan to add PV or other alternative resources?

- Yes
- No

4.4 If alternative resources needed, provide the local information such as weather, sunlight, and spaces.

5.1 Load specific(for behind-meter application only)

- Peak load kW
- Peak load time to
- Average load kW
- Off-peak load kW
- Off-peak load time to
- Inductive load kW
- capacitive load kW
- PF

5.2 Is there any single phase loads(off-grid only)

- Yes
- No

6.1 The basic dispatching logic?

- Routine charge and discharge everyday
- Smart dispatch depending on the load variation

7.1 Is EMS required? And who will provide the EMS?

- Yes
- No
- Provider

7.2 The communication between EMS and dispatch controller.

- Modbus TCP/IP
- Modbus RTU
- Other