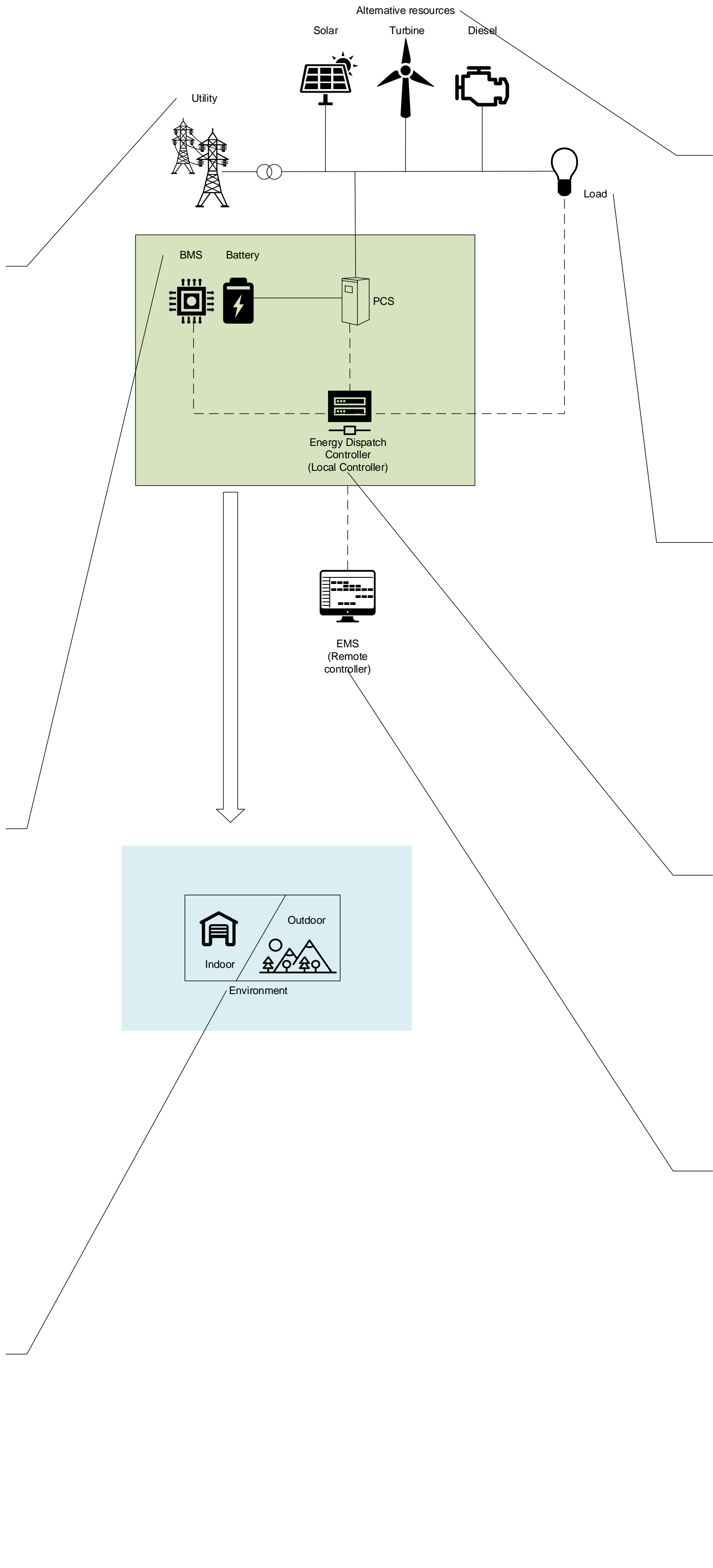


PKnergy early stage basic information checklist



- 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?**
- sqrm
- 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