

Stand-alone electricity generators

Stand-alone electricity generators are designed to feed building electrical loads. They are designed and sized according to building electrical load. Electricity generator may be powered by PV systems (fig. 504.01(1)), or may use wind turbine, or hybrid system.

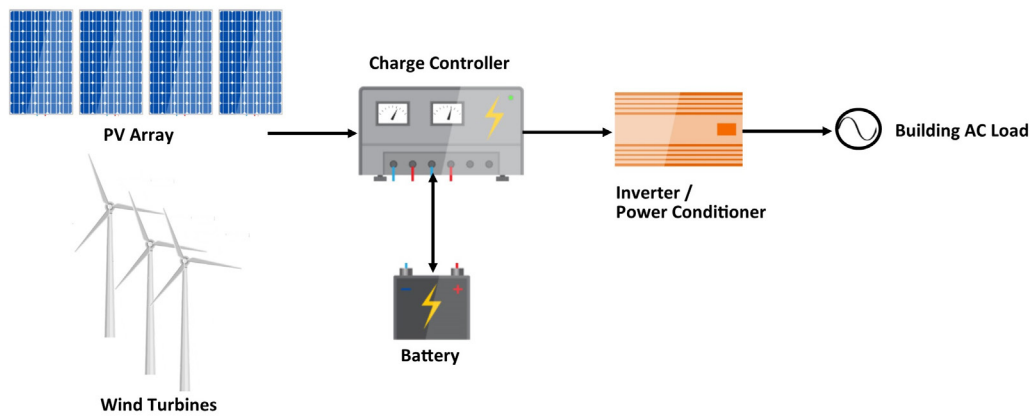


Fig. 504.01(1): Stand-alone PV System

The project team utilising stand-alone type must comply with DEWA guidelines for solar panels and associated equipment.

Grid Connected electricity generators

Grid connected electricity generators (fig. 504.01(2)), approved by DEWA, are designed to operate in parallel and be interconnected with utility grid network. The power produced on-site, either supplies on-site electrical loads or feeds the utility grid, when generated power is greater than on-site demand. When on-site generated power is less than electrical load demand, particularly at night, the balance power is received from the utility network.

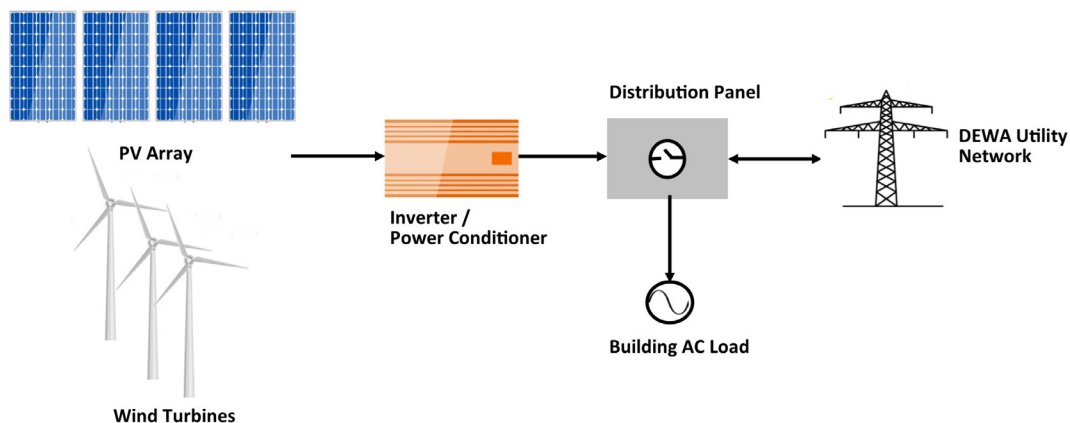


Fig. 504.01(2): Grid-connected PV System

For on-grid systems, the project team should fulfil the technical requirements in accordance with “DEWA standards for Distributed Renewable Resources Generators (DRRG) connected to the distribution network “.