

3.1 Technical Requirements

The technical requirements that are necessary to be submitted to DEWA for planning any 400/132kV and 132/11kV substations, designing the 11kV Distribution Network and allocating necessary 11kV cables from the 132/11kV substations are listed below:

3.1.1 Location and Layout of the Development Project

Location (with DLTM coordinates) shall be shown on Dubai Map. Further, a detailed project layout reflecting roads, buildings, parks, parking areas, open spaces, water ponds / canals, bridges etc. also to be submitted.

3.1.2 Nature of the Project

Description of the project along with type of land use (Residential, Industrial, Commercial, Labour Accommodation, etc.) to be mentioned.

3.1.3 Total Connected Load (TCL) and Expected Maximum Demand (MD)

- Total connected load (along with split up of General and Cooling load) of the project, type of cooling system, and expected peak demand.
- Realistic power requirement date / phasing.
- Split up details of the load like, Residential, Commercial, Industrial, Cooling, etc.
- Plot-wise load details in the standard format (refer to [Annexure-7.2](#)).
- In case ultimate load details are not available, the load requirement up to next 5 years should be submitted.
- Details of the District Cooling Plant loads (size, location and the expected phasing of its commissioning).

3.1.4 Distribution Renewable Resources Generation (DRRG)

For the projects with DRRG, the submittal shall include DRRG plan (PV Rooftop Solar) which consists of;

- Planned DRRG capacity (kW) per plot and for entire project.
- Expected commissioning dates of PV solar in the project.

