

## *Checklists for Basic Design Evaluation*

### Description

This Form contains the checklist for the verification of the Basic Design.

### Information to be Submitted with the Single Line Diagram

Below is a checklist that summarises the information submitted:

*Table 1 – Required information from Single Line Diagrams*

DESCRIPTION	NOTES
<b>Title Block</b>	
Date (Year, Month, Day)	With any updates
Author (affiliation if any)	With any updates
Signature	With any updates
Name of the project	
Subject ("Electric SLD" or similar)	
Reference (e.g. sequence number)	
<b>Content</b>	
Lines and symbols according to international standards (ISO and IEC). They should be visible, clear and fully understandable	
The size of the drawing proportionate to the extent of the design	
The writings are clear and understandable	
Components identified with its abbreviation	

## Checklists for Basic Design Evaluation

### Information required from Site Plans

Below is a checklist that summarises the information required from site plans:

Table 2 – Required information from Site Plans

DESCRIPTION	NOTES
<b>Title Block</b>	
Date (Year, Month, Day)	With any updates
Author (affiliation if any)	With any updates
Signature	With any updates
Name of the project	
Subject (“Site Plan”)	
Scale of the drawing	
Reference (e.g., sequence number)	
<b>Content</b>	
Lines and symbols according to international standards (ISO and IEC). They should be visible, clear and fully understandable	
The size of the drawing proportionate to the extent of the design	
The writings are clear and understandable	
Any meaningful part identified with a name or description	

### Information required in the Basic Design Report

Below is a checklist that summarises the information required in the Basic Design Report:

Table 3 – Required information in the Basic Design Report

DESCRIPTION	NOTES
<b>Frontpage</b>	
Name of the project	
Subject (“Basic Design Report”)	
Author (affiliation if any)	With any updates
Signature	With any updates
Date (Year, Month, Day)	With any updates
<b>Content</b>	
Main input data (site information, voltage and frequency at POC, other specific characteristics))	
Main characteristics of the PV modules and Inverters	
Short description of the PV System electrical design	
Short description of the civil and mechanical design	Fixed or tracker system
Estimation of the yearly energy production	

## Checklists for Basic Design Evaluation

### Checklist for Kahramaa Basic Design Evaluation

The following Table contains the Checklist for Kahramaa's verification of the information delivered for Basic Design.

Table 4 – Checklist for Kahramaa's verification of the information delivered for Basic Design

Data name	Data type	Notes
<b>a) Information on the location</b>		
Type of site	Selection	<input type="checkbox"/> Open field <input type="checkbox"/> Apartment building <input type="checkbox"/> Villa <input type="checkbox"/> Commercial building <input type="checkbox"/> Factory <input type="checkbox"/> Office building <input type="checkbox"/> Carpark <input type="checkbox"/> Other _____
Number of Premises	Integer	
Voltage	Selection	<input type="checkbox"/> 127/220 V <input type="checkbox"/> 220/380 V <input type="checkbox"/> 230/400 V <input type="checkbox"/> 13.8 kV <input type="checkbox"/> 33 kV
Meter size in Amperes	Numeric	
Number of meters in the premises	Numeric	
Category of Consumption	Selection	<input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Government <input type="checkbox"/> Hotels <input type="checkbox"/> Productive Farms <input type="checkbox"/> Industrial
Account number in Kahramaa system	Alphabetic	
Number and brand of Meter	Alphabetic	
Kahramaa Substation Code or Number	Alphabetic	
Feeder Code or Number	Alphabetic	
Circuit Code or Number	Alphabetic	
Pillar Circuit Code or Number	Alphabetic	
Transformer size (kVA)	Numeric	
Latitude, Longitude	Numeric	____.____ °N    ____.____ °E
Street address <sup>1</sup>	Alphabetic	
Account number	Alphabetic	
Meter number	Alphabetic	
Pole number	Alphabetic	
Meter size	Selection	Choose in a list from 20 A to 800 A
<b>b) Documents to be uploaded</b>		
Personal ID copy or resident visa and passport copy for expats (non-Qataris)	File	
Mandate or delegation (for the Consultant/Contractor)	File	
A basic design of the REG (Electric SLD)	File	
The basic design of the REG (Site plan)	File	
The basic design of the REG (Report)	File	
Environmental Impact Assessment (EIA)	File	If needed

<sup>1</sup> It is recommended a google map link, to give Kahramaa the exact coordinates of the location.

## *Checklists for Basic Design Evaluation*

Data name	Data type	Notes	
<b>c) Basic design of the PV system</b>			
PV Power Capacity (kW)	Numeric	Nominal capacity of PV	
AC output Power Capacity (kW)	Numeric	Nominal capacity of the generator(s)	
Approximated area available for PV installation (m2)	Numeric		
PV module installation	Selection	<input type="checkbox"/> Ground <input type="checkbox"/> Building <input type="checkbox"/> Canopy <input type="checkbox"/> Other _____	
Building Installation (in case of PV module installation is on a building)	Selection	<input type="checkbox"/> Flat rooftop <input type="checkbox"/> Roof flap <input type="checkbox"/> Facade <input type="checkbox"/> Other _____	
PV Technology	Selection	<input type="checkbox"/> Crystalline Silicon <input type="checkbox"/> Thin Film <input type="checkbox"/> CPV	
Mounting structure	Selection	<input type="checkbox"/> Fixed <input type="checkbox"/> 1-axis Tracker <input type="checkbox"/> 2-Axes Tracker	
<b>d) Project implementation schedule</b>			
Project implementation schedule	Selection	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>e) Environmental Impact Assessment</b>			
Environmental Impact Assessment (EIA) – if needed	Selection	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>f) Information on Consultant / Contractor</b>			
Name of the company	Automatically retrieved		
Certification ID	Automatically retrieved		
Name of the responsible person	Automatically retrieved	Designation	Automatically retrieved
P.O.BOX	Automatically retrieved	Mobile number	Automatically retrieved
E-mail	Automatically retrieved	Office phone number	Automatically retrieved
City	Automatically retrieved	Select from a drop list	
<b>Result</b>	<input type="checkbox"/> <b>Passed</b> <input type="checkbox"/> <b>No Passed</b>		