

## Sample of Preliminary Renewable Energy System Information and Single-line Electrical Diagram

Reference number: \_\_\_\_\_

<b><u>Details of PV Panels:</u></b> <b><u>(Please circle where appropriate)</u></b>	
Peak Power (W)	
Total Panel Area (sqm)	
Total No. of PV Panels (pcs)	
Total PV Panel Power (kW)	
Total PV Panel Power (DC) $\leq$ 133% of Inverter's Rated Output Power (AC) #	Yes / No

<b><u>Details of Inverter:</u></b> <b><u>(Please circle where appropriate)</u></b>	
Rated Output Power (kW)	
No. of Phase	1 phase / 3 phase
Over-Voltage & Under-Voltage Protection *	Yes / No
Voltage Ride Through Capability *	Yes / No
Voltage-Reactive Power (Volt-Var) Control **	Yes / No
Voltage-Active Power (Volt-Watt) Control **	Yes / No

<b><u>RE System Configuration:</u></b> <b><u>(Please circle where appropriate)</u></b>	
Rated Output Power (kW)	
Rated Output Voltage (V)	
Rated Output Current (A)	
No. of Phase	1 phase / 3 phase

<b><u>Customer Information:</u></b> <b><u>(Please circle where appropriate)</u></b>	
Main Switch (Incomer) rating (A)	
Incomer No. of Phase	1 phase / 3 phase
CLP Revenue Meter No.	
CLP Account No.	

<b><u>Contractor Information</u></b>	
Contractor's Name	
Contractor's Signature	

<b>Single-line Electrical Diagrams (RE Schematic &amp; Main Electrical Schematic)</b>

Remarks:

1. The Rated Output Current of the RE System must be less than or equal to the customer's Main Switch rating.
2. Three-phase RE System cannot be connected to single-phase main switch.
3. # For PV panels connecting to inverter, "Total PV Panel Power" must be within either 133% of the inverter's "Rated Output Power (AC)" or the inverter's "Maximum Input Power (DC)", whichever is lower.
4. \* Comply with CLP's Technical Design Notes/Grid Connection Requirements. Starting from 1st March 2021, all RES/FiT applications must incorporate over-voltage protection, under-voltage protection and voltage ride through capability.
5. \*\* Starting from 1st June 2022, all RES/FiT applications must incorporate Voltage-Reactive Power (Volt-Var) Control and Voltage-Active Power (Volt-Watt) Control capability.