CENTRAL ELECTRICITY BOARD

CEB SCHEME FOR CORPORATE ENTITIES' EVs CHARGING

APPLICATION FORM

Instructions for application

1. The Scheme is open to all Corporate Entities, which include SMEs, holding active electricity contract accounts for the purpose of using electricity solely for charging four-wheel electric vehicles (EVs).
2. Submit all requested documents to prevent delay in processing the application.
3. A processing fee is payable upon submission of this Application Form.
4. **Submit the Application Form together with the relevant Connection Agreement and requested documents in a nearest CEB Customer Service Centre during normal business hours as from 11 April 2022**.
5. Information provided in this Application Form will be used for the technical and administrative evaluation of the application in accordance with the requirements of the Scheme and the relevant Grid Code.
6. Information submitted in this Form may be used to update the Corporate Entity's records in the CEB's database.
7. The person signing this Application Form and the Connection Agreement should be duly authorized.
8. Any modification, except for filling in required information, of this Form will result into its rejection.
9. The applicant should secure all necessary authorizations/permissions from the concerned electricity account holder(s) prior to the submission of the Application Form.
10. Take full cognisance of the terms and conditions of the Scheme prior to submit the application. For any further information concerning the application, please contact our MSDG Unit / SSDG Unit on 601 1100.

1.0	**The Corporate Entity (Applicant) Information**		
1.1	**Name of the Corporate Entity as per Certificate of Incorporation**		
1.2 (a)	**Name of the Authorised Official representing the Corporate Entity**		
1.2 (b)	**Designation of the person** (Director, GM, etc.)		
1.3	**Office address of the Corporate Entity**		
1.4	**Telephone Number of the Corporate Entity**	**Landline Number**	**Mobile Number**
1.5	**Tax Account Number of the Corporate Entity**		
1.6	**VAT Registration Number of the Corporate Entity**		
1.7	**Business Registration No. of the Corporate Entity**		
1.8	**Email Address of the person representing the Corporate Entity**		

Signature of the Authorized Official: _____ **Date:** _____

2.0	The Solar Photovoltaic (PV) Installer Details				
2.1	Name of the Installer				
2.2	Postal Address				
2.3	Contact Person				
2.4	Telephone/Fax Number				
2.5	Email Address				
2.6	Accreditation/Qualification in installation of PV equipment [Note 1]				
2.7	Qualification in the field of Electrical Engineering/ Electrical installation in buildings or similar (Electrical Contractor or Installer) [Note 2]				
2.8	Name of Consultant, if any				
2.9	Electrical Sub-contractor (*if any part of the electrical installation works is to be subcontracted*)	Company name:			Tel:
		LV ☐	MV ☐	PV ☐	Others ☐

Note 1*: In the interest of the Corporate Entity/project owner/promoter/customer and for safety reasons, the CEB shall accept a Certificate on PV installation from a local or foreign institution OR from the supplier of the equipment certifying that the installer is well-versed with the installation of the equipment. Furthermore, the topics covered (PV panel, inverter, protection, earthing, etc.) and the duration of the training shall be mentioned on the Certificate. The CEB may also accept companies having past experience in the installation of grid connected SSDG and/or MSDG systems.*

Note 2: In the interest of the applicant/project owner/promoter/customer and for safety reasons: For three-phase electrical installation, a minimum certification in electrical installation in buildings (or equivalent) – Level 4 of the National Qualification Framework, as specified by the Mauritius Qualification Authority (MQA), is required. For certificates obtained from foreign institutions, equivalence of qualification, certified by MQA, may be accepted. The CEB may also request course content/syllabus details of the certifications or proof of experience.

Signature of the Authorized Official: _____ **Date:** _____

3.0	**Installation Site - Project Details**		
3.1	**Installation site address**		
3.2	**Telephone Number (installation site)**		
3.3	**Electricity Contract Account Number(s) of installation site**		
3.4	**Electricity Tariff of the electricity contract account number(s) of installation site (please refer to the Corporate Entity electricity bill for the installation site)**		
3.5	**Total electrical load as declared in the CEB electricity contract account(s) (kW/kVA) of the EV charging facility (please consult your CEB Customer Service Centre)**		
3.6	**Is the site located within the internal electricity network of a medium-voltage CEB customer? (Yes / No)**		
3.7 (a)	**Is the Corporate Entity the owner of the installation site?**	**If Yes, to provide copy of Registered Title Deed.**	
3.7 (b)		**If No, to provide copy of Registered Title Deed of owner, copy of Registered Lease Agreement, copy of National Identity card of owner (if applicable) and Letter of Authorization from owner.**	
4.0	**Details of Interconnection with CEB**		
4.1	**Existing CEB Metering (specify if LV or MV metering)**		
4.2	**For Low Voltage (LV) Metering**	**Is the building being supplied by a dedicated CEB transformer? (Yes / No)**	
4.3	**For Medium Voltage (MV) Metering:**	**Manufacturer & Model of MV Switchgear**	
		Is existing client-side MV cubicle equipped with Circuit Breaker or Fuse?	
4.4	**For MSDG capacity greater of equal to 1 MW:**	**Proposed communication medium (refer to Grid Code)** [Note 3]	
		Details of wireless technology (3G, 4G, LTE, other) – Submit communication layout. [Note 3]	
		Will a SCADA be installed for monitoring & control of all inverters parameters (e.g. ramp rate, frequency response, reactive power, etc.) [Note 4]	

Note 3: *See Section 3.11 of MSDG Grid Code 200 kW – 2 MW*

Note 4: *See Section 3.10 of MSDG Grid Code 200 kW – 2 MW*

Signature of the Authorized Official: _____ **Date:** _____

5.0	**Solar PV System (SSDG/MSDG) Details**					
5.1	**Total proposed capacity of the Solar PV System** [Note 5]					**kW_{dc}**
5.2	**Expected annual generation**					**MWh**
5.3	**Will the PV installation be Ground or Roof mounted?**					
5.4	**Any other known SSDG/MSDG on the installation site? (Yes/No) If yes, specify capacity & RE technology if known.**					
5.5	**Manufacturer, Model & Type of PV Panel**					
5.6	**Country of Origin of PV Panel**					
5.7	**Manufacturer, Model & Type of Inverter**					
5.8	**Country of Origin of Inverter**					

SSDG Guaranteed Particulars (1 kW up to 50 kW)

(All information given hereunder should be substantiated by documents from the Manufacturer)

6.0	**SSDG Guaranteed Particulars**				
6.1	**Rating of each PV Panel**	**To specify Wattage**			
6.2	**Number of PV Panels to be installed**	**To specify Nos.**			
6.3	**Central Inverter or Micro inverter**	**To specify**			
6.4	**Manufacturer's Inverter Reference**	**To specify**			
6.5	**No. of Inverter & Capacity (No. & kW)**	**To specify**		**No.**	**kW**
6.6	**Inverter Output (3 phase/ single phase)**	**To specify**			

7.0	**Parameters** [Note 6]	**Requirements**		**To specify System settings**		
	Protection Parameters Settings	**Trip Setting**	**Clearance Time**	**Trip Setting**	**Clearance Time**	**Trip Indication Provided**
7.1	**Over Voltage (230 V + 10 %)**	**253 V**	**0,2 s**			

Note 5:

- *The total proposed PV capacity of SSDG/MSDG installation should correspond to the DC output capacity and can be determined by the formula given hereunder. Annual energy exported should not exceed 10% of the total energy imported for the EV consumption. Surplus energy exported above the 10% will not be remunerated.*

  Proposed PV capacity (kW) = kWh/km of EVs * EVs average daily km travelled * 365 days / 1600 hours
- *In case the total inverter output capacity exceeds the applied capacity, the inverter AC active power has to be limited.*

Note 6*: Refer to the SSDG Grid Codes for parameters settings.*

Signature of the Authorized Official: _____ **Date:** _____

Parameters [Note 6]		Requirements		To specify System settings		
Protection Parameters Settings		Trip Setting	Clearance Time	Trip Setting	Clearance Time	Trip Indication Provided
7.2	Over Voltage (230 V + 6 %)	243.8 V	1,5 s			
7.3	Under Voltage (230 V – 6 %)	216.2 V	1,5 s			
7.4	Over Frequency (50 Hz + 2 %)	51 Hz	0,5 s			
7.5	Under Frequency (50 Hz - 6 %)	47 Hz	0,5 s			
7.6	Loss of Mains (df/dt - Vector shift)	2.5 Hz/s 10 degrees	0,5 s			
7.7	Islanding Detection	Yes / No				
7.8	Isolated Generation possible	Yes / No				
7.9	Reconnection Time	3 mins.				
7.10	Max. DC Current injection to grid	To specify				
7.11	Rated AC output Current per phase (A)	To specify				
7.12	Total Harmonics Distortion (Voltage)	To specify				
7.13	Total Harmonics Distortion (Current)	To specify				
7.14	Surge Withstand Capability (kV)	To specify				
7.15	Power Factor (leading & lagging)	0.95				
7.16	Will the isolators in the Joint-Use-Facility (if applicable) have visible contacts with lockable facilities in open position?	Yes				
7.17	Will Earthing System be TT ?	Yes				
7.18	Will Batteries be Installed? (Yes/No and capacity)	Yes / No				
7.19	Is a standby generator installed on site?	Yes / No				

Note 6*: Refer to the SSDG Grid Codes for parameters settings.*

Signature of the Authorized Official: _____ **Date:** _____

MSDG Guaranteed Particulars (Greater than 50 kW up to 2 MW)						
(All information given hereunder should be substantiated by documents from the Manufacturer)						
8.0	**MSDG Guaranteed Particulars**					
8.1	**Rating of each PV Panel**		**To specify Wattage**			
8.2	**Number of PV Panels to be installed**		**To specify Nos.**			
8.3	**Central Inverter or Micro inverter**		**To specify**			
8.4	**Manufacturer's Inverter Reference**		**To specify**			
8.5	**No. of Inverter & Capacity (No. & kW)**		**To specify**		**No.**	**kW**
8.6	**Inverter Output (3 phase/ single phase)**		**To specify**			
9.0	**Parameters** [Note 7]		**Requirements**		**To specify System settings**	
	Protection Parameters Settings		**Trip Setting**	**Clearance Time**	**Trip Setting**	**Clearance Time**	**Trip Indication Provided**
9.1	**Over Voltage (400 V + 9 %)**		**436 V**	**0,2 s**			
9.2	**Over Voltage (400 V + 6 %)**		**424 V**	**1,5 s**			
9.3	**Under Voltage (230 V – 6 %)**		**360 V**	**1,5 s**			
9.4	**Over Frequency (50 Hz + 2 %)**		**52 Hz**	**0,5 s**			
9.5	**50 < MSDG <= 200 kW**	**Under Frequency (50 Hz - 6 %)**	**47 Hz**	**0,5 s**			
	200 < MSDG <= 2 MW	**Under Frequency (50 Hz - 6 %)**	**47 Hz**	**3 s**			
9.6	**Loss of Mains (df/dt - Vector shift)**		**2.5 Hz/s 10 degrees**	**0,5 s**			
9.7	**Islanding Detection**		**Yes / No**			
9.8	**Isolated Generation possible**		**Yes / No**			
9.9	**Reconnection Time**		**3 mins.**			
9.10	**Max. DC Current injection to grid**		**To specify**			

***Note 7**: Refer to the MSDG Grid Codes for parameters settings.*

Signature of the Authorized Official: _____ **Date:** _____

10.0	Parameters [Note 7]	Requirements		To specify System settings		
	Protection Parameters Settings	Trip Setting	Clearance Time	Trip Setting	Clearance Time	Trip Indication Provided
10.11	Rated AC output Current per phase (A)	To specify				
10.12	Total Harmonics Distortion (Voltage)	To specify				
10.13	Total Harmonics Distortion (Current)	To specify				
10.14	Surge Withstand Capability (kV)	To specify				
10.15	Power Factor (leading & lagging)	0.95				
10.16	Will the isolators in the Joint-Use-Facility (if applicable) have visible contacts with lockable facilities in open position?	Yes				
10.17	Will Earthing System be TT ?	Yes				
10.18	Will Batteries be Installed? (Yes/No and capacity)	Yes / No				
10.19	Is a standby generator installed on site?	Yes / No				

***Note 7**: Refer to the MSDG Grid Codes for parameters settings.*

Signature of the Authorized Official: _____ **Date:** _____

11.0	Checklist for Documents to be submitted with the Application Form	
	Documents Submitted	**(Y/N)**
1	Copy of National Identity Card or Passport of the Authorized Official (whichever is applicable) representing the Corporate Entity	
2	Official letter authorizing the Authorized Official to sign the Application Form stating the name and position of the person signing the document	
	Copy of National Identity Card or Passport of a high-ranked official of the Corporate Entity signing the letter of authorization (whichever is applicable)	
3	Copy of recent CEB electricity bill of the Corporate Entity	
4	Copy of Business Registration Card of the Corporate Entity	
5	Copy of VAT Registration Certificate of the Corporate Entity	
6	Copy of Certificate of Incorporation of the Corporate Entity	
7	If the Corporate Entity is the owner of the installation site: Copy of Registered Title Deed	
8	If the Corporate Entity is not the owner: Copy of Registered Title Deed of owner, copy of Registered Lease Agreement, copy of National Identity card of owner (if applicable) and Letter of Authorization from owner.	
9	Installer Training Certificate in the field of installation of solar photovoltaic systems	
10	Certification in electrical installation in buildings (or equivalent) – Level 4 of the National Qualification Framework, as specified by the Mauritius Qualification Authority (MQA) (for the electrical contractor or installer).	
11	Electrical schematic diagram as per the CEB Grid Code requirements	
12	Location/Site Plan of installation site	
14	Manufacturer datasheet of solar PV panels	
15	Type Test Certificate of solar PV panels from Independent Lab	
16	Manufacturer datasheet of inverter	
17	Type Test Certificate of inverter from Independent Lab	
18	Manufacturer's Declaration for Inverter's Conformance to the CEB SSDG Grid or MSDG Grid Codes (whichever is applicable)	
19	Certificate of Compliance with the Electrical Equipment Safety Regulations and/or the Electromagnetic Compatibility Regulations (CE marked)	
20	Horse Power or quotation letter for each EV with full details of the EV	
21	Details of the electric vehicle(s) charger(s)	

Declaration - To be completed by Corporate Entity Authorized Official (as applicable) Note 8(a)			
(a) "I declare that the Solar PV installations proposed in this Application have been designed to comply with the requirements of the CEB as detailed in the prevailing applicable Grid Code and I have taken cognizance of the terms and conditions associated with the CEB Scheme for Corporate Entities' Charging of Electric Vehicles, as detailed on the CEB website, and I also confirm that the information contained in this form is true and correct."			
(b) "I declare that the Corporate Entity is not in litigation with the CEB."			
Name of the Authorized Official			
Designation (e.g. GM / PS / Director, etc.)			
National Identity Card (NIC) or Passport No.			
Signature		**Date:**	
To be completed by the person submitting this Application Form Note 8(b)			
Name of Person submitting this Application Form			
Position within the Corporate Entity or Relationship (whichever is applicable)			
National Identity Card (NIC) No. or Passport of the Person			
Signature		**Date:**	
To be completed by CEB Representative *(office use)*			
Serial No. Note 9		**Application Date**	
Corporate Entity SSDG/MSDG Contract Account Number:			
Name			
Title of the Officer (CSA or CSO)			
CEB Customer Service Centre			
Signature		**Date:**	

Note 8(a): *The CEB shall not be liable for delays in processing the application if wrong, incomplete or incorrect information has been provided in the Application Form. The CEB shall reject the application if the missing, incomplete or incorrect information, requested, are not submitted by the deadline given to applicant/installer.*

Note 8(b): *The person submitting this Application Form, whether a private individual or an employee of the Corporate Entity, should produce a duly authorized letter signed by an official or the Authorized Official of the Corporate Entity, whichever is applicable, when submitting the Application.*

Note 9: *Serial No. to be filled by MSDG Unit or SSDG Unit.*