

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM  
(CDM-SSC-CPA-DD) - Version 01**

NAME /TITLE OF THE PoA: Enlightened Solar PoA



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**CLEAN DEVELOPMENT MECHANISM  
SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-DD)  
Version 01**

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- Annex 2: Information regarding public funding
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**NOTE:**

- (i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.
- (ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)<sup>1,2</sup> that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

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<sup>1</sup> The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

<sup>2</sup> At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

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**SECTION A. General description of small scale CDM programme activity (CPA)**

**A.1. Title of the small-scale CPA:**

Enlightened Solar PoA- CPA- **XXX**

Version Number : **X**

Date: **[dd/mm/yyyy]**

**A.2. Description of the small-scale CPA:**

The proposed small-scale CDM Programme Activity (hereafter referred as CPA) consists of **X** Solar PV installations throughout Israel with at total installed capacity of **X<sup>3</sup>** MW, to be included under the Enlightened Solar PoA (hereafter referred as PoA). The installation of the various constituents of the CPA at various sites would include mounting of solar PV panels, installation of grid connections and monitoring equipments either on the ground or on rooftops.

The solar power plants will all be developed, owned and managed by **[insert Plant Owner's name]**. Tricorona Carbon Asset Management Pte Ltd is the Coordinating and Managing Entity (CME) of the PoA. Enlightened Capital is the CPA Operator and has a contract with the power plant owner and also with the CME. The proposed CPA is a voluntary initiative.

The SSC-CPA is expected to displace the fossil fuel generated electricity in the grid thus reducing the Greenhouse Gas (GHG) emissions by **XXX** tCO<sub>2</sub> per year.

The CPA fulfils the national sustainable development criteria determined by the Ministry of Environmental Protection.

**A.3. Entity/individual responsible for the small-scale CPA:**

The CPA Operator for the proposed CPA-**XXX** is Enlightened Capital

**A.4. Technical description of the small-scale CPA:**

The CPA is the construction of **X** new photovoltaic (PV) solar power plants throughout the state of Israel, with a total installed capacity of **XX** MW and technical lifetime of **X** years. The annual net electricity supplied to the grid is **XXXX** MWh.

The primary components of the solar power plants are the silicon photovoltaic cells, installed in a modular fashion, as well as inverters which convert the direct current (DC) produced by the PV cells into alternating current (AC) used by the grid.

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<sup>3</sup> The final installed capacity installed at each plant might be slightly different from the value applied since the technology provider might not have confirmed the capacity at the time of CPA-DD preparation. The Suspended License allows for up to 10% variation in the installed capacity.

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PV cells convert solar radiation into electricity using semiconductors that exhibit the photovoltaic effect, such as mono-crystalline silicon, polycrystalline silicon, amorphous silicon, cadmium telluride, and copper indium selenide/sulphide.

Table 1: Technical Specification for CPA-001

S.No	Name of the installation	Capacity (MW)	Average net annual generation (MWh)	Plant Load Factor (%)
1				
2				
3				
4				
5				
6				
7				

The PV power plants would supply electricity to the grid. Electricity meters and gauges will measure the quantity of net electricity generated by the power plants and supplied to the grid.

**A.4.1. Identification of the small-scale CPA:**

**A.4.1.1. Host Party:**

Israel

**A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the small-scale CPA (maximum one page):**

Entity responsible for this CPA:

[Insert CPA operator's name]

Address: [Insert CPA operator's address]

Table 2: *Identification of small-scale CPA*

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Parameters	Details
<b>Installation No. X – Serial Number 1</b>	
Name of the installation	
Location	
Geographic coordinates (latitude/longitude)	

**A.4.2 Duration of the small-scale CPA:**

**A.4.2.1. Starting date of the small-scale CPA:**

The starting date of the CPA is the date when the contract to buy the solar panels or EPC contract for the first plant is signed. This is expected to be on dd/mm/yy.

**A.4.2.2. Expected operational lifetime of the small-scale CPA:**

25 years

**A.4.3. Choice of the crediting period and related information:**

Renewable crediting period

**A.4.3.1. Starting date of the crediting period:**

The starting date of the crediting period of the CPA is the date of first supply of electricity by the power plants to the grid, expected to be dd/mm/yyyy.

**A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable CP:**

Seven years twice renewable

*Note: The duration of crediting period of any SSC-CPA shall be limited to the end date of the PoA regardless of when the SSC-CPA was added.*

**A.4.4. Estimated amount of emission reductions over the chosen crediting period:**

Renewable crediting period of seven years is adopted by the CPA-XXX. It is expected that the CPA-XXX will generate greenhouse gas emission reductions of XXX tCO<sub>2</sub>/yr on average over this crediting period. The table below shows the estimated annual emission reductions.

*Table 3: Estimated amount of emission reductions*

Year	Estimation of annual emission reductions in tonnes of CO <sub>2</sub> e

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XXXX	
XXXX	
XXXX	
XXXX	
XXXX	
XXXX	
XXXX	
XXXX	
<b>Total estimated reductions</b> (tonnes of CO <sub>2</sub> e)	
<b>Total number of crediting years</b>	
<b>Annual average of the estimated reductions over the crediting period</b> (tCO <sub>2</sub> e)	

**A.4.5. Public funding of the CPA:**

XXX

**A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component**

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According to EB 54, Annex 13, and “*Guidelines On Assessment Of Debundling for SSC Project Activities.*” :

1. “For the purposes of registration of a Programme of Activities (PoA)<sup>4</sup> a proposed small-scale CPA of a PoA shall be deemed to be a de-bundled component of a large scale activity if there is already an activity<sup>5</sup>, which:”

(a) “Has the same activity implementer as the proposed small scale CPA or has a coordinating or managing entity, which also manages a large scale PoA of the same sectoral scope, and;”

- [Substantiate]

(b) “The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point.”

- [Substantiate]

<sup>4</sup> Only those POAs need to be considered in determining de-bundling that are: (i) in the same geographical area; and (ii) use the same methodology; as the POA to which proposed CPA is being added

<sup>5</sup> Which may be a (i) registered small-scale CPA of a PoA, (ii) an application to register another small-scale CPA of a PoA or (iii) another registered CDM project activity

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Outcome:

[To be specified in the CPA-DD specific]

**A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:**

*Table 4: Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA*

S.No	Undertakings	Status (Yes/No)
1	The SSC-CPA has not been and will not be registered as a single CDM project activity or as part of a SSC-CPA of another PoA or as a part of another SSC-CPA of the proposed PoA.	[Yes/No]
2	The SSC-CPA is identified by a Serial Number	[Yes/No]
3	The site(s) of the power plants included in the SSC-CPA are identified by their unique geographic coordinates.	[Yes/No]

Furthermore, by cross-checking the precise geographic coordinates of the power plants included in the SSC-CPA against the Enlightened Solar Database of solar projects, registered CDM project activities and registered PoAs to be maintained by the CPA Operator, it can be demonstrated that the power plants included in the SSC-CPA are neither registered as individual CDM project activities nor are part of another registered PoA.

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**SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions**

**B.1. Title and reference of the Registered PoA to which small-scale CPA is added:**

Title and reference of the PoA:

Enlightened Solar PoA

Version: 3.0

Date: 25<sup>th</sup> July 2012

**B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA :**

The SSC-CPA meets the eligibility criteria for inclusion of a SSC-CPA in the PoA as listed in section A.4.2.2 of the PoA-DD.

*Table 5: Eligibility criteria for the inclusion of CPAs*

<b><u>S.No</u></b>	<b><u>Eligibility Criteria for the inclusion of CPAs</u></b>	<b><u>Status (Yes/No)</u></b>	<b><u>Suggested evidence to be provided</u></b>
a	The SSC-CPA shall have its project sites located in Israel and the electricity generated shall be supplied to the Israeli National Grid.	[Yes/No]	GPS coordinates and Suspended License(s)
b	The SSC-CPA shall be uniquely identified and defined by way of the unique identifying numbers (serial numbers) and GPS coordinates attached to each Solar PV installation, to ensure that all CPAs under this PoA are neither registered as an individual CDM project activity nor included in another registered PoA.	[Yes/No]	GPS coordinates, Suspended License(s), CPA Operator - Plant Owner contract.
c	The SSC-CPA shall generate electricity using solar photo-voltaic (PV) technology (including but not limited to thin film and crystalline technology).	[Yes/No]	Suspended License
d	The Panel purchase/EPC contract date, will be taken as the CPA start date. The CPA start date shall be after the PoA validation start date.	[Yes/No]	Panel supply/EPC contract.
e	The SSC-CPA shall comply with the applicability criteria of the methodology <i>AMS.I.D- Grid connected renewable electricity generation, version - 17.0</i> . The SSC-CPA shall: <ul style="list-style-type: none"> <li>• Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant), OR</li> <li>• Involve a capacity addition.</li> </ul>	[Yes/No]	Suspended License(s), CPA Operator – Plant Owner contract

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<b><u>S.No</u></b>	<b><u>Eligibility Criteria for the inclusion of CPAs</u></b>	<b><u>Status (Yes/No)</u></b>	<b><u>Suggested evidence to be provided</u></b>
	<ul style="list-style-type: none"> <li>Have installed capacity limits of:                             <ol style="list-style-type: none"> <li>for Greenfield projects: not more than 15 MW</li> <li>for capacity addition projects: the added capacity of the units should be not more than 15 MW and should be physically distinct<sup>6</sup> from the existing units</li> </ol> </li> </ul> <p>The CPA shall not include:</p> <ul style="list-style-type: none"> <li>Project activities that are a combined heat and power (co-generation) system</li> <li>Projects that involve the retrofit of an existing plant(s)</li> <li>Projects that involve the replacement of an existing plant(s)</li> <li>Projects that involve the use of equipment that has been transferred from a different existing operational project (i.e. to avoid leakage)</li> <li></li> </ul>		
f	<p>The SSC-CPA should comply with the requirements stated in the generic CPA-DD for the following:</p> <ul style="list-style-type: none"> <li>Stakeholder consultation</li> <li>Environmental impact assessment</li> </ul>	[Yes/No]	Suspended License; Record of local stakeholder consultation (i.e. meeting or interview records/ minutes)
g	<p>The SSC-CPA shall undergo a de-bundling check as follows: A proposed small-scale CPA of a PoA shall be deemed to be a de-bundled component of a large scale activity if there is already an activity which satisfies both conditions (a) and (b) below:</p> <ol style="list-style-type: none"> <li>Has the same activity implementer as the proposed small scale CPA or has a coordinating</li> </ol>	[Yes/No]	CPA Operator – Plant Owner contract, Enlightened Solar Database check

<sup>6</sup> Physically distinct units are those that are capable of generating electricity without the operation of existing units, and that do not directly affect the mechanical, thermal, or electrical characteristics of the existing facility. For example, the addition of a steam turbine to an existing combustion turbine to create a combined cycle unit would not be considered “physically distinct”.



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<b><u>S.No</u></b>	<b><u>Eligibility Criteria for the inclusion of CPAs</u></b>	<b><u>Status (Yes/No)</u></b>	<b><u>Suggested evidence to be provided</u></b>
	managing entity, which also manages a large scale PoA of the same technology/measure, and; 2. The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point. However, if the total size of such a CPA combined with a registered small-scale CPA of a PoA does not exceed an installed capacity of 15MW, then the proposed SSC CPA is not considered to be a debundled component of a large-scale activity.		
h	Conditions to provide an affirmation that funding from Annex I parties, if any, do not result in a diversion of official development assistance.	[Yes/No]	CPA Operator – Plant Owner contract.
i	All the solar Plant Owners shall formally/legally own the land/ rooftops, on which the equipment is going to be installed, or rent the land/ rooftops from the legal owners.	[Yes/No]	Suspended License
j	The solar Plant Owner shall own a Solar Suspended License.	[Yes/No]	Suspended License
k	Contractual provisions to ensure that those who own the power plants and operate the CPA are aware of, and have agreed, that their activity is being subscribed to the PoA.	[Yes/No]	CPA Operator – Plant Owner contract.
l	Each PO in the CPA should have a CPA Operator – Plant Owner contract with the CO, i.e. with Enlightened Capital (EC).	[Yes/No]	CPA Operator – Plant owner contract.

**B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:**

This SSC-CPA is automatically additional since it meets the eligibility criteria for the inclusion of the CPA in the PoA, as per section A.4.2.2 of this PoA-DD.

**B.4. Description of the sources and gases included in the project boundary and proof that the small-scale CPA is located within the geographical boundary of the registered PoA.**

The spatial extent of the project boundary includes the project power plants included in the CPA and all power plants connected physically to the electricity system that the CDM project power plant is connected to, which in this case is the Israeli national electricity grid.

*Table 6: Emission sources within the project boundary*

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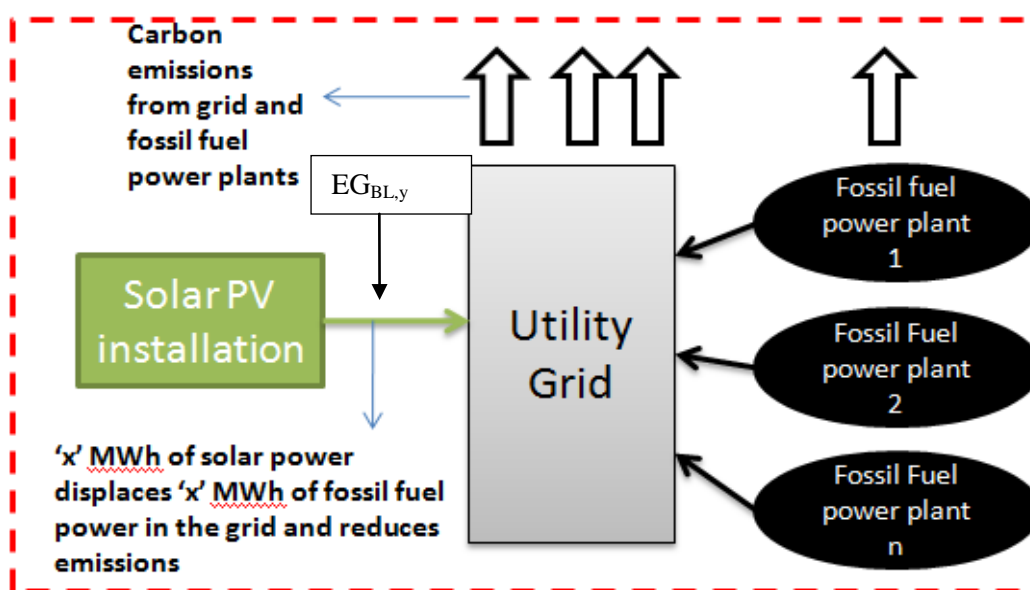


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Source		Gas	Included ?	Justification / Explanation
<b>Baseline</b>	CO <sub>2</sub> emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity	CO <sub>2</sub>	Yes	Main emission source
		CH <sub>4</sub>	No	Minor emission source
		N <sub>2</sub> O	No	Minor emission source
<b>Project activity</b>	For geothermal power plants, fugitive emissions of CH <sub>4</sub> and CO <sub>2</sub> from non-condensable gases contained in geothermal steam	CO <sub>2</sub>	No	N.A.
		CH <sub>4</sub>	No	N.A.
		N <sub>2</sub> O	No	N.A.
	CO <sub>2</sub> emissions from combustion of fossil fuels for electricity generation in solar thermal power plants and geothermal power plants	CO <sub>2</sub>	No	N.A.
		CH <sub>4</sub>	No	N.A.
		N <sub>2</sub> O	No	N.A.
	For hydro power plants, emissions of CH <sub>4</sub> from the reservoir	CO <sub>2</sub>	No	N.A.
		CH <sub>4</sub>	No	N.A.
		N <sub>2</sub> O	No	N.A.

The GPS coordinates presented in Table 2 of **[Insert CPA-DD number]** demonstrate that the installations which constitute the CPA, are inside the State of Israel, which is the geographical boundary of the PoA. Refer to **[Insert SD number]** for a map showing all power plants in the CPA.



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*Figure 1: Project boundary for the SSC-CPA*

**B.5. Emission reductions:**

**B.5.1. Data and parameters that are available at validation:**

<b>Data / Parameter:</b>	<b>EF<sub>CO<sub>2</sub>,grid,y</sub></b>
Data unit:	tCO <sub>2</sub> /MWh
Description:	Combined Margin Grid Emission factor
Source of data used:	The raw data presenting the annual electricity generation and the annual fuel consumption of each generation unit was provided by the Planning, Development and Technology Division of the IEC. The Combined Margin (CM) was calculated based on the above data as per the latest version "Tool to calculate the emission factor for an electricity system".
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	According to the location of the project at Israel and grid connected where the project will supply power, the emission factor is calculated based on the " Tool to calculate the emission factor for an electricity system". The combined baseline emission factor is determined ex-ante and will remain fixed during the first crediting period.
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	<b>NCV<sub>i,y</sub></b>
Data unit:	GJ/tonne
Description:	The net calorific value (energy content) for fossil fuel type <i>i</i> in year <i>y</i>
Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	Israel Electric Corporation (IEC) is the official national agency responsible for calculating the emission factor of the Israeli national grid. The data provided by IEC is considered the most accurate and is specific for fuels used for power generation in Israel and is collected from the power plant operators.
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	<b>EF<sub>CO<sub>2</sub>,i,y</sub></b>
Data unit:	tCO <sub>2</sub> /GJ
Description:	CO <sub>2</sub> emission factor for fuel <i>i</i> in year <i>y</i>

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Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	The data provided by IEC is the most accurate available data that is specific for fuels used in Israel.
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	$FC_{i,m,y}$
Data unit:	tonnes
Description:	Amount of fossil fuel type $i$ consumed by power plant unit $m$ in year $y$
Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	The data provided by IEC is the most accurate available data that is specific for Israel
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	$EG_{m,y}$
Data unit:	MWh
Description:	Net electricity fed by power plant/unit $m, k$ or $n$ (or in the project electricity system in case of $EG_n$ ) in year $y$ or hour $h$ to the grid
Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	The data provided by IEC is the most accurate available data that is specific for Israel
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	$EF_{grid,OM,average,y}$
Data unit:	tCO <sub>2</sub> /MWh
Description:	Average operating margin
Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]

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Justification of the choice of data or description of measurement methods and procedures actually applied :	The data provided by IEC is the most accurate available data that is specific for Israel
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

<b>Data / Parameter:</b>	$EF_{grid,BM,y}$
Data unit:	tCO <sub>2</sub> /MWh
Description:	Build Margin grid emission factor
Source of data used:	Israel Electric Corporation (IEC)
Value applied:	[Specified in CPA-DD specific]
Justification of the choice of data or description of measurement methods and procedures actually applied :	The data provided by IEC is the most accurate available data that is specific for Israel
Any comment:	All data will be stored electronically for the duration of the project activity plus two additional years.

**B.5.2. Ex-ante calculation of emission reductions:**

>>

**Baseline Emissions:**

The baseline emissions are the product of electrical energy baseline  $EG_{BL,y}$  expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor.

$$BE_y = EG_{BL,y} * EF_{CO_2,grid,y}$$

Where:

$BE_y$  Baseline Emissions in year y (t CO<sub>2</sub>)

$EG_{BL,y}$  Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{CO_2,grid,y}$  CO<sub>2</sub> emission factor of the grid in year y (tCO<sub>2</sub>/MWh)

[In case of capacity additions, since the added capacity will not affect the electricity generation of the existing plant, the net electricity transferred to the grid by the added capacity will be monitored separately through a separate electricity meter, which will be used to determine the parameter  $EG_{BL,y}$ .]

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**CO<sub>2</sub> Emission Factor:**

**For calculation of grid emission factor please refer to PoA-DD, section E.6.2**

Baseline Emissions are thus:

[Calculation to be specified in the CPA-DD (specific)]

**Project Emissions:**

According to the methodology AMS 1.D version 16, the project emissions for a solar PV installation is zero,  $PE_y = 0$ .

**Leakage:**

The energy equipments of a solar PV installation are not transferred from another project activity, so the leakage is considered to be zero.  $LE_y = 0$

**Emission Reductions:**

$$ER_y = BE_y - PE_y - LE_y$$

Where:

$ER_y$  Emission reductions in year y (tCO<sub>2</sub>/y)

$BE_y$  Baseline Emissions in year y (tCO<sub>2</sub>/y)

$PE_y$  Project emissions in year y (tCO<sub>2</sub>/y)

$LE_y$  Leakage emissions in year y (tCO<sub>2</sub>/y)

[Calculation]

**B.5.3. Summary of the ex-ante estimation of emission reductions:**

*Table 7: Summary of emissions for SSC-CPA-001*

Year	Estimation of project activity emissions (tonnes of CO <sub>2</sub> e)	Estimation of baseline emissions (tonnes of CO <sub>2</sub> e)	Estimation of leakage (tonnes of CO <sub>2</sub> e)	Estimation of overall emission reductions (tonnes of CO <sub>2</sub> e)

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<b>Total</b> (tonnes of CO <sub>2</sub> e)				

**B.6. Application of the monitoring methodology and description of the monitoring plan:**

**B.6.1. Description of the monitoring plan:**

<b>Data / Parameter:</b>	<b><math>EG_{BL,y}</math></b>
Data unit:	MWh/year
Description:	Quantity of net electricity supplied to the grid in year y
Source of data to be used:	Measured by electricity meters at each power plant
Value of data applied for the purpose of calculating expected emission reductions in section B.5	To be specified in CPA-DD (specific)
Description of measurement methods and procedures to be applied:	<p>Continuous monitoring, hourly measurement and at least monthly recording. The net electricity supplied to the grid by each power plant in the CPA will be added to derive the total for the CPA.</p> <p>[In cases where the power plants consume electricity internally, electricity imported from and exported to the grid by the power plant may be measured by two separate meters or measured directly by one bi-directional meter. ]</p> <p>[In the case where two meters are used, the net electricity supplied to a grid is the difference between the measured quantities of the grid electricity export (<math>EG_{exp,y}</math>) and the import (<math>EG_{imp,y}</math>):  <math>EG_{BL,y} = EG_{exp,y} - EG_{imp,y}</math>]</p>

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	The electricity meters will measure the net amount of electricity supplied to the grid in accordance with the strict Israeli regulations published by the Public Utility Authority in its Standards Book <sup>7</sup> .
QA/QC procedures to be applied:	Meters will be calibrated at appropriate intervals according to the national standards, but atleast once in three years. Measurement results shall be cross checked with records for sold/purchased electricity. The accuracy class for the meters will be 3.0 or better, or as required by the Public Utility Authority.
Any comment:	The power plants in the CPA do not internally consume electricity so all electricity generated is supplied to the grid. This data will be archived up to 2 years after the completion of crediting period or last issuance whichever is later.

### **Monitoring Plan Objective**

Each PO will monitor the electricity supplied to the national grid by the individual plants. The data will be archived electronically or manually and stored for 2 years after the end of crediting period of each CPA. The data will also be sent regularly to the CME.

### **Monitoring Parameter**

The electricity supplied to the grid ( $EG_{BL,y}$ ) is to be monitored continuously and recorded at least monthly. Meters will be calibrated as per national standards.

[For those plants, where there is material amount of electricity consumption, the internal consumption will be monitored by an additional separate meter or a bi-directional meter may be used. Electricity imported from and exported to the grid by the power plant may be measured by two separate meters or measured directly by one bi-directional meter. In the case where two meters are used, the net electricity supplied to a grid is the difference between the measured quantities of the grid electricity export ( $EG_{exp,y}$ ) and the import ( $EG_{imp,y}$ ):  
 $EG_{BL,y} = EG_{exp,y} - EG_{imp,y}$

#### **In case of capacity addition:**

The net electricity transferred to the grid by the added capacity will be monitored separately through a separate electricity meter, which will be used to determine the parameter  $EG_{BL,y}$ .]

### **QA & QC**

Monthly the electricity will either be manually recorded from the IEC's meter or digitally recorded from a digital meter. The monthly recordings will be cross checked with IEC's electricity receipts, which may be one a quarterly or bi-annual basis.

### **Monitoring Responsibility**

<sup>7</sup> [http://www.pua.gov.il/Sip\\_storage/FILES/1/751.pdf](http://www.pua.gov.il/Sip_storage/FILES/1/751.pdf)



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The SSC-CPA implementing entity will appoint personnel responsible for supervising, verifying and recording data for clear and accurate monitoring and calculation of project emission reductions during the whole crediting period. A Plant supervisor will be appointed by the CPA operator to record and archive the monitoring data.

**Data Storage and Archiving**

Readings from the energy meter will be collected under the supervision of the *Plant Supervisor*. The data would be recorded and stored in logs and/or in electronic form. All the data monitored under the monitoring plan will be kept for two years after the end of the crediting period or till the last issuance of CERs, whichever occurs later.

**Training**

All employees responsible for operation, maintenance and monitoring related to the estimation of CER will be trained by experts in accordance with the monitoring plan. The training programs include on-site operation rules, monitoring requirements, safety codes and inspection specifications, etc. Training will also be provided by the CME and the CPA Operator (as detailed in the POA Management system).

**C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures are undertaken. Justify the choice of level at which the environmental analysis is undertaken:**

☐ Please tick if this information is provided at the PoA level. In this case, sections C.2. and C.3. need not be completed in this form.

As defined in the PoA DD, the environmental analysis is undertaken at the CPA level since the impact of each CPA varies according to the location, size and applied technology type of each CPA. Therefore, assessment of environmental impacts at CPA level is deemed the most appropriate choice.

**C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:**

In accordance with national regulations, the proposed CPA **[does/does not]** require an Environmental Impact Assessment (EIA) as the potential impacts are few, relatively minor and are mainly positive.

The suspended license will be granted only if the project complies with the environmental regulations of Israel. The suspended license states the environmental compliance of the project<sup>8</sup>.

According to the suspended license, the solar facility will be installed and run in compliance with the Electricity Market Law of 1996, Electricity Law of 1954 and all the standards established by the Environmental laws of the State.

<sup>8</sup> Page-8, Para-15.3; SD-3,4,5,6,7,8

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**C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:**

According to Israeli regulations, electricity generation activities from renewable energy sources are not required to conduct an Environmental Impact Assessment (EIA)<sup>9</sup>.

The Suspended License is granted to the CPA in Israeli by the government, if and only the CPAs, comply with the environmental criteria stipulated in the Master construction plan. The main environmental criteria in the Master construction plan are:

1. The Institution for Design will not approve any photovoltaic development within regions or areas of an important ecological and natural quality and/or in areas where there is fear of damage in a sequence of open areas.
2. The project should comply with criteria associated with the preservation of Flora and Fauna in the neighbourhood region of the project, according to the National Protection Company's surveys and Environmental Protection Minister website<sup>10</sup>.

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<sup>9</sup>

[http://www.sviva.gov.il/bin/en.jsp?enPage=e\\_BlankPage&enDisplay=view&enDispWhat=Object&enDispWho=Articals^13969&enZone=eia](http://www.sviva.gov.il/bin/en.jsp?enPage=e_BlankPage&enDisplay=view&enDispWhat=Object&enDispWho=Articals^13969&enZone=eia)

<sup>10</sup> SD\_14-Master Construction Plan for Solar Facilities, Page 19, paragraph 11.19; Page 23, Annex 3.2.2

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**SECTION D. Stakeholders' comments**

**D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:**

☐ Please tick if this information is provided at the PoA level. In this case, sections D.2. to D.4. need not be completed in this form.

As the PoA is implemented across several geographical locations within Israel, the CPA Operator finds it appropriate to conduct the local stakeholder consultation at the SSC-CPA level. By conducting the local stakeholder consultation at the SSC-CPA level, it will be possible to address the views and comments of the stakeholders in a better way than at the PoA level.

**D.2. Brief description how comments by local stakeholders have been invited and compiled:**

The solar power plants are implemented mostly on existing rooftops rented from the rooftop owners and also on ground plots. Given the benign nature of solar panel plants, there are very few impacts associated with the construction and operation of the power plants. The only stakeholders likely to be effected are thus the owners of the rooftops or the land.

As such, all the owners of [ the rooftops and/or the land] on which the plants will be installed have been consulted in [ face-to-face interviews or via telephone interviews]. They also have a rental contract with the power Plant Owners. The solar power Plant Owners have also been consulted and have a contract with the CPA Operator to this effect.

The stakeholder consultation process has been conducted to give opportunity to the stakeholders to understand the CPA and its role in GHGs emission reductions. The stakeholders have also been given an opportunity to comment on the CDM initiative taken by the CPA Operator and to raise any concerns.

[Any other CPA specific relevant info].

The comments/doubts raised during the stakeholder consultation are summarised below in Section D.3.

**D.3. Summary of the comments received:**

*Table 8: Summary of comments received*

Q.No	Name of the Person	Designation	Question raised?

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**D.4. Report on how due account was taken of any comments received:**

*Table 9: Account on comments taken*

Q.No	Answers (due account taken)

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**Annex 1**

**CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-SCALE CPA**

Organization:	
Street/P.O.Box:	
Building:	
City:	
State/Region:	
Postfix/ZIP:	
Country:	
Telephone:	
FAX:	
E-Mail:	
URL:	
Represented by:	
Title:	
Salutation:	
Last Name:	
Middle Name:	
First Name:	
Department:	
Mobile:	
Direct FAX:	
Direct tel:	
Personal E-Mail:	

**Annex 2**

**INFORMATION REGARDING PUBLIC FUNDING**

**Annex 3**

**BASELINE INFORMATION**

**Annex 4**

**MONITORING INFORMATION**

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