

Monitoring Report Sheet (Input Sheet) [For Verification]

Table 1: Parameters monitored *ex post*

(a) Monitoring period	(b) Monitoring point No.	(c) Parameters	(d) Description of data	(e) Monitored Values	(f) Units	(g) Monitoring option	(h) Source of data	(i) Measurement methods and procedures	(j) Monitoring frequency	(k) Other comments
1/8/2016 - 31/12/2016	(1)	$\Sigma EG_{i,p}$	The total quantity of the electricity generated in the project during the period <i>p</i>	111	MWh/p	Option C	Measured data	The measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. The electricity generation is measured and recorded electrically by the type approval electricity meter installed. Accuracy of the meter is based on IEC62053-22 class 0.5s. Monitored data will be kept and archived for two years after final issuance of credits.	Monthly recording	This parameter is used for Case1
-	(2)	ϕ_d	Category of the day <i>d</i> . [1 for business days, 0 for holidays]	-	-	Option B	Evidence of business days	Business calendar or school calendar	Daily recording	This parameter is used for Case2
-	(3)	$EG_{i,d}$	The quantity of the electricity generated by the project solar PV system <i>i</i> on monitoring date <i>d</i> during the period <i>p</i>	-	MWh/p	Option B/C	Invoice or receipts/ Measured data	Invoice or receipts for selling electricity, or the measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. In case the measured AC output of the inverters is used, the reading is taken from an electricity meter or the inverters. The reading is taken manually or electronically using a data logger. The electricity meter is replaced or calibrated at an interval following the regulations in the country in which the electricity meter is commonly used or according to the manufacturer's recommendation, unless a type approval, manufacture's specification, or certification issued by an entity accredited under international/national standards for the electricity meter has been prepared by the time of installation.	Daily recording	This parameter is used for Case2

Table 2: Project-specific parameters fixed *ex ante*

(a) Parameters	(b) Description of data	(c) Estimated Values	(d) Units	(e) Source of data	(f) Other comments
$EF_{RE,i}$	Reference CO ₂ emission factor for the project solar PV system <i>i</i>		- tCO ₂ /MWh	In case the PV system in a proposed project activity is connected to the national grid, $EF_{RE,i,grid}$, 0.353 tCO ₂ /MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is not connected to the national grid, $EF_{RE,i,cap}$, 0.533 tCO ₂ /MWh is applied.	n/a

Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
1/8/2016 - 31/12/2016	39	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and specifications)
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

	Parameters monitored <i>ex post</i>	Project-specific parameters fixed <i>ex ante</i>
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system <i>i</i> during the period <i>p</i> MWh/p	Reference CO ₂ emission factor for the project solar PV system <i>i</i> tCO ₂ /MWh
1	111.46	0.353
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period p	N/A	39.3	tCO ₂ /p	ER _p
2. Selected default values, etc.				
The reference CO ₂ emission factor based on the national grid	Electricity	0.353	tCO ₂ /MWh	EF _{RE,i,grid}
The reference CO ₂ emission factor based on captive diesel power generator	Electricity	0.533	tCO ₂ /MWh	EF _{RE,i,cap}
3. Calculations for reference emissions				
Reference emissions during the period p	N/A	39.3	tCO ₂ /p	RE _p
4. Calculations of the project emissions				
Project emissions during the period p	N/A	0.0	tCO ₂ /p	PE _p

[List of Default Values]

The reference CO ₂ emission factor based on the national grid	0.353	tCO ₂ /MWh
The reference CO ₂ emission factor based on captive diesel power generator	0.533	tCO ₂ /MWh

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Table 1: Parameters monitored *ex post*

(a) Monitoring period	(b) Monitoring point No.	(c) Parameters	(d) Description of data	(e) Monitored Values	(f) Units	(g) Monitoring option	(h) Source of data	(i) Measurement methods and procedures	(j) Monitoring frequency	(k) Other comments
1/1/2017 - 31/12/2017	(1)	$\Sigma EG_{i,p}$	The total quantity of the electricity generated in the project during the period p	282	MWh/p	Option C	Measured data	The measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. The electricity generation is measured and recorded electrically by the type approval electricity meter installed. Accuracy of the meter is based on IEC62053-22 class 0.5s. Monitored data will be kept and archived for two years after final issuance of credits.	Monthly recording	This parameter is used for Case1
-	(2)	ϕ_d	Category of the day d . [1 for business days, 0 for holidays]	-	-	Option B	Evidence of business days	Business calendar or school calendar	Daily recording	This parameter is used for Case2
-	(3)	$EG_{i,d}$	The quantity of the electricity generated by the project solar PV system i on monitoring date d during the period p	-	MWh/p	Option B/C	Invoice or receipts/ Measured data	Invoice or receipts for selling electricity, or the measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. In case the measured AC output of the inverters is used, the reading is taken from an electricity meter or the inverters. The reading is taken manually or electronically using a data logger. The electricity meter is replaced or calibrated at an interval following the regulations in the country in which the electricity meter is commonly used or according to the manufacturer's recommendation, unless a type approval, manufacture's specification, or certification issued by an entity accredited under international/national standards for the electricity meter has been prepared by the time of installation.	Daily recording	This parameter is used for Case2

Table 2: Project-specific parameters fixed *ex ante*

(a) Parameters	(b) Description of data	(c) Estimated Values	(d) Units	(e) Source of data	(f) Other comments
$EF_{RE,i}$	Reference CO ₂ emission factor for the project solar PV system i		tCO ₂ /MWh	In case the PV system in a proposed project activity is connected to the national grid, $EF_{RE,i,grid}$, 0.353 tCO ₂ /MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is not connected to the national grid, $EF_{RE,i,cap}$, 0.533 tCO ₂ /MWh is applied.	n/a

Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
1/1/2017 - 31/12/2017	99	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and specifications)
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

	Parameters monitored <i>ex post</i>	Project-specific parameters fixed <i>ex ante</i>
i	EG _{i,p}	EF _{RE,i}
Solar PV system number	Quantity of the electricity generated by the project solar PV system <i>i</i> during the period <i>p</i> MWh/p	Reference CO ₂ emission factor for the project solar PV system <i>i</i> tCO ₂ /MWh
1	281.71	0.353
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period p	N/A	99.4	tCO ₂ /p	ER _p
2. Selected default values, etc.				
The reference CO ₂ emission factor based on the national grid	Electricity	0.353	tCO ₂ /MWh	EF _{RE,i,grid}
The reference CO ₂ emission factor based on captive diesel power generator	Electricity	0.533	tCO ₂ /MWh	EF _{RE,i,cap}
3. Calculations for reference emissions				
Reference emissions during the period p	N/A	99.4	tCO ₂ /p	RE _p
4. Calculations of the project emissions				
Project emissions during the period p	N/A	0.0	tCO ₂ /p	PE _p

[List of Default Values]

The reference CO ₂ emission factor based on the national grid	0.353	tCO ₂ /MWh
The reference CO ₂ emission factor based on captive diesel power generator	0.533	tCO ₂ /MWh

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Table 1: Parameters monitored *ex post*

(a) Monitoring period	(b) Monitoring point No.	(c) Parameters	(d) Description of data	(e) Monitored Values	(f) Units	(g) Monitoring option	(h) Source of data	(i) Measurement methods and procedures	(j) Monitoring frequency	(k) Other comments
1/1/2018 - 31/7/2018	(1)	$\Sigma EG_{i,p}$	The total quantity of the electricity generated in the project during the period p	124	MWh/p	Option C	Measured data	The measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. The electricity generation is measured and recorded electrically by the type approval electricity meter installed. Accuracy of the meter is based on IEC62053-22 class 0.5s. Monitored data will be kept and archived for two years after final issuance of credits.	Monthly recording	This parameter is used for Case1
-	(2)	ϕ_d	Category of the day d . [1 for business days, 0 for holidays]	-	-	Option B	Evidence of business days	Business calendar or school calendar	Daily recording	This parameter is used for Case2
-	(3)	$EG_{i,d}$	The quantity of the electricity generated by the project solar PV system i on monitoring date d during the period p	-	MWh/p	Option B/C	Invoice or receipts/ Measured data	Invoice or receipts for selling electricity, or the measured AC output of the inverters is used to determine the amount of net electricity generation by the solar PV system. In case the measured AC output of the inverters is used, the reading is taken from an electricity meter or the inverters. The reading is taken manually or electronically using a data logger. The electricity meter is replaced or calibrated at an interval following the regulations in the country in which the electricity meter is commonly used or according to the manufacturer's recommendation, unless a type approval, manufacture's specification, or certification issued by an entity accredited under international/national standards for the electricity meter has been prepared by the time of installation.	Daily recording	This parameter is used for Case2

Table 2: Project-specific parameters fixed *ex ante*

(a) Parameters	(b) Description of data	(c) Estimated Values	(d) Units	(e) Source of data	(f) Other comments
$EF_{RE,i}$	Reference CO ₂ emission factor for the project solar PV system i		- tCO ₂ /MWh	In case the PV system in a proposed project activity is connected to the national grid, $EF_{RE,i,grid}$, 0.353 tCO ₂ /MWh is applied. In case the PV system in a proposed project activity is connected to an internal grid which is not connected to the national grid, $EF_{RE,i,cap}$, 0.533 tCO ₂ /MWh is applied.	n/a

Table3: *Ex-post* calculation of CO₂ emission reductions

Monitoring Period	CO ₂ emission reductions	Units
1/1/2018 - 31/7/2018	43	tCO ₂ /p

[Monitoring option]

Option A	Based on public data which is measured by entities other than the project participants (Data used: publicly recognized data such as statistical data and specifications)
Option B	Based on the amount of transaction which is measured directly using measuring equipments (Data used: commercial evidence such as invoices)
Option C	Based on the actual measurement using measuring equipments (Data used: measured values)

	Parameters monitored <i>ex post</i>	Project-specific parameters fixed <i>ex ante</i>
i	$EG_{i,p}$	$EF_{RE,i}$
Solar PV system number	Quantity of the electricity generated by the project solar PV system <i>i</i> during the period <i>p</i> MWh/p	Reference CO ₂ emission factor for the project solar PV system <i>i</i> tCO ₂ /MWh
1	124.28	0.353
2		0.000
3		0.000
4		0.000
5		0.000
6		0.000
7		0.000
8		0.000
9		0.000
10		0.000
11		0.000
12		0.000
13		0.000

Monitoring Report Sheet (Calculation Process Sheet) [For Verification]

1. Calculations for emission reductions	Fuel type	Value	Units	Parameter
Emission reductions during the period p	N/A	43.9	tCO ₂ /p	ER _p
2. Selected default values, etc.				
The reference CO ₂ emission factor based on the national grid	Electricity	0.353	tCO ₂ /MWh	EF _{RE,i,grid}
The reference CO ₂ emission factor based on captive diesel power generator	Electricity	0.533	tCO ₂ /MWh	EF _{RE,i,cap}
3. Calculations for reference emissions				
Reference emissions during the period p	N/A	43.9	tCO ₂ /p	RE _p
4. Calculations of the project emissions				
Project emissions during the period p	N/A	0.0	tCO ₂ /p	PE _p

[List of Default Values]

The reference CO ₂ emission factor based on the national grid	0.353	tCO ₂ /MWh
The reference CO ₂ emission factor based on captive diesel power generator	0.533	tCO ₂ /MWh