

Gold Standard for the Global Goals
Transition Annex
*(To be used by all GS CDM/VER stand alone projects
and PoAs, Micro Scale stand alone projects and Micro
PoAs)*



Version 1 – September 2017

KEY PROJECT INFORMATION

Title of Project/PoA/Activity:	Gigawatt Global Programme of Activities
GS ID of the project/PoA/activity:	GS3587 GS3606 CPA-001 ASYV 8.5MW Solar PV Project CDM Registration ID no. PoA 10202 CPA 10202-001 ASYV 8.5MW Solar PV Project
GS Version:	2.2
Brief description of Project:	The ASYV 8.5MW Solar PV project (CPA-001) forms part of the Gigawatt Global Programme of Activities, which seeks to promote grid connected renewable energy projects in Rwanda. The CPA falls under CPA type I "Greenfield small-scale solar PV power plants/units in Rwanda applying automatic additionality", which is one of the five CPA types eligible for inclusion under the PoA. The CPA has installed a new renewable energy power plant at a site where none existed prior to the implementation of the project activity (Greenfield plant). The CPA is located in Rwamagana District, Rubona Sector, Karambi cell at the Agahozo-Shalom Youth Village (ASYV), approximately nine kilometres from the main Kigali-Kagitumba highway. The site is about 50km from Kigali, Rwanda's capital. The CPA uses solar photovoltaic (PV) modules with a single axis tracking system. The CPA has a peak output capacity of 8.5 MWp consisting of 28,360 solar PV modules and covering 16 hectares. The project was commissioned on 18 September 2014 and has been operational since then.
Project type: Energy/Land Use	Energy industries (renewable- / non-renewable sources)
For Renewable Energy Projects – intention to apply RECs Labels (y/n)	No
GS Stream (CDM/VER):	CDM
Scale (large/small/micro):	Small

GS Registration Date:	12/09/2016										
GS Crediting period start date:	23/10/2015										
CDM Registration Date:	23/10/2015										
CDM Crediting period start date:	23/10/2015										
Project Developer:	Gigawatt Global Coöperatief U.A.										
Project Representative:	Gigawatt Global Coöperatief U.A.										
Project Participants and any communities involved:	<table border="1"> <thead> <tr> <th>Project Participant</th><th>Role and responsibility</th></tr> </thead> <tbody> <tr> <td>Gigawatt Global Coöperatief U.A.</td><td>PoA coordinating/Managing Entity (CME)</td></tr> <tr> <td>Scatec Solar Africa (Pty) Ltd</td><td>CPA implementing entity</td></tr> <tr> <td>Carbon Africa Ltd</td><td>Provision of carbon asset development advisory services</td></tr> <tr> <td>Natural Capital Partners</td><td>Authorized Participants under the CDM</td></tr> </tbody> </table>	Project Participant	Role and responsibility	Gigawatt Global Coöperatief U.A.	PoA coordinating/Managing Entity (CME)	Scatec Solar Africa (Pty) Ltd	CPA implementing entity	Carbon Africa Ltd	Provision of carbon asset development advisory services	Natural Capital Partners	Authorized Participants under the CDM
Project Participant	Role and responsibility										
Gigawatt Global Coöperatief U.A.	PoA coordinating/Managing Entity (CME)										
Scatec Solar Africa (Pty) Ltd	CPA implementing entity										
Carbon Africa Ltd	Provision of carbon asset development advisory services										
Natural Capital Partners	Authorized Participants under the CDM										
Host Country/Location:	Rwanda										
Methodologies applied:	AMS I.D Grid connected renewable electricity generation - Version 18										
SDG Impacts:	SDG 7 – Affordable and clean energy SDG 8 – Decent work and Economic Growth SDG 13 – Climate Action										
Estimated amount of SDG Impact (GSVERs and others)	SDG 7 – over 15,000 MWh/Year on average SDG 8 – creation of 2 full time employment posts for operational and maintenance plus various support roles SDG 13 – over 10,000 tCO ₂ e/Year on average										

NOTE: This Annex shall be used for all PoAs if the sustainable development assessment is conducted at PoA level. In case sustainable development assessment is conducted at activity level, then this Annex shall be filled for each of the activities.

SECTION A Sustainable Development Goals (SDG) outcomes

A.1 Relevant target for each of the three SDGs

>> (Specify the relevant SDG target for at least each of three SDGs addressed by the project. Refer most recent version of targets [here](#). Contribution to SDG 13 is mandatory to be demonstrated for all projects and activities. Contribution to SDG 7 is recommended to be demonstrated for all community service projects and activities)

SDG Goal	Relevant SDG Target	Corresponding Indicator
SDG 7 – Affordable and clean energy: Ensure access to affordable, reliable, sustainable and modern	By 2030, increase substantially the share of renewable energy in the global energy mix	Access to affordable and clean energy services 1. Amount of electricity generated from solar power

energy for all		<i>NB – Additionally calculated and monitored under the CDM</i>
SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all	By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value By 2020, substantially reduce the proportion of youth not in employment, education or training	Quality employment 1. Training records for employees during construction and operation period 2. Feedback loop between the employee and the employer e.g. suggestion box Quantitative employment and income generation 1. Number of jobs created for Rwandans during construction period 2. Number of jobs created for Rwandans during operation period 3. Number of men and women employed by the project activity Human and institutional capacity & Technology transfer and technological self-reliance 1. Number of trainings carried out by the project implementer for employees of the power plant 2. Number of excursions to the power plant by various institutions will be recorded as part of training programmes. 3. Number of students receiving solar technology / engineering training
SDG 13 – Climate Action: Take urgent action to combat climate change and its impacts	Integrate climate change measures and into national policies, strategies and planning	1. <i>Emission reductions in tCO₂e</i> - <i>Calculated and monitored under the CDM</i>

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A.2 Explanation of methodological choices/approaches for estimating the SDG outcome

>> (Explain how the methodological steps in the selected methodology(ies) or proposed approach for calculating baseline and project outcomes are applied. Clearly state which equations will be used in calculating net benefit.)

SDG 7 – Affordable and clean energy: Ensure access to affordable, reliable, sustainable and modern energy for all

Indicator	Applied methodology / approach (equation/calculation where applicable)
Access to affordable and clean energy services 1. Amount of electricity generated from solar power	Quantity of electricity generated will be measured hourly and recorded at least monthly. Evidence will be provided through invoices to the utility company and energy reports. <i>During this monitoring period, the CPA has generated over 20,000MW/h.</i> <i>NB – Additionally calculated and monitored under the CDM</i>

SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all

Indicator	Applied methodology / approach (equation/calculation where applicable)
Quality employment 1. Training records for employees during construction and operation period	Training records and professional training certificates are monitored annually. <i>2 trainings were carried out during this monitoring period.</i>
2. Feedback loop between the employee and the employer e.g. suggestion box	During recruitment of before the start of any work on site, all employees are informed of a grievance mechanism to raise any workplace concerns. Complaints filed in the grievance book are compiled annually. <i>Zero complaints were raised during this monitoring period.</i>
Quantitative employment and income generation 1. Number of jobs created for Rwandans during construction period	Employment records will be summarised on an annual basis in the Environmental and Social Monitoring Reports. <i>147 Rwandans were employed during the construction period.</i>
2. Number of jobs created for Rwandans during operation period	Employment records will be summarised on an annual basis in the Environmental and Social Monitoring Reports <i>2 fulltime jobs were maintained during this monitoring period for operation and management, as well as 4 semi-permanent</i>

	<i>employees to support the O&M staff. Additionally - 23 persons were engaged in vegetation management activities, 10 for modules cleaning, 5 for grass cutting and 9 security guards.</i>
3. Number of men and women employed by the project activity	Employment records will be summarised on an annual basis in the Environmental and Social Monitoring Reports
Human and institutional capacity & Technology transfer and technological self-reliance 1. Number of trainings carried out by the project implementer for employees of the power plant	This is determined through the review of training record certificates with monitoring and recording done at least annually. <i>2 trainings were carried out during the current monitoring period.</i>
2. Number of excursions to the power plant by various institutions will be recorded as part of training programmes.	This is determined through the review of excursion record certificates with monitoring and recording done at least annually. <i>150 individuals participated in excursions during this monitoring period.</i>
3. Number of students receiving solar technology / engineering training	This is determined through the review of the ASYV education records with monitoring and recording done at least annually. <i>500 students at the ASYV orphanage now have access to solar PV technology and engineering education.</i>

SDG 13 – Climate Action: Take urgent action to combat climate change and its impacts

Indicator	Applied methodology / approach (equation/calculation where applicable)
1. Emission reductions in tCO ₂ e - Calculated and monitored under the CDM	CDM Registration ID no. PoA 10202 CPA 10202-001 ASYV 8.5MW Solar PV Project The UNFCCC can be accessed here .

A.3 Data and parameters fixed ex ante for monitoring contribution to each of the three SDGs

(Include a compilation of information on the data and parameters that are not monitored during the crediting period but are determined before the design certification and remain fixed

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throughout the crediting period like IPCC defaults and other methodology defaults. Copy this table for each piece of data and parameter.)

Only the following data and parameters under the CDM PoA Registration ID no. 10202, CPA 10202-001 ASYV 8.5MW Solar PV Project have been fixed ex ante for monitoring:

- $NCV_{i,y}$ - Net calorific value (energy content) of fossil fuel type i in year y (GJ/kg)
- $EFCO_{2,i,y} / EFCO_{2,m,i,y}$ - CO₂ emission factor of fossil fuel type i in year y (tCO₂/GJ)
- $EG_{m,y}$ - Net electricity generated by power plant/unit m in year y (MWh)
- $\eta_{m,y}$ - Average net energy conversion efficiency of power unit m in year y (Percentage)

More information can be accessed [here](#).

SECTION B Safeguarding Principles Assessment

B.1 Analysis of social, economic and environmental impacts

>> (Refer the GS4GG Safeguarding Principles and Requirements document for detailed guidance on carrying out this assessment. The assessment of following Safeguarding Principles Assessment is required to be carried out by GS Version 2.0, 2.1 and 2.2 projects. GS v1.0 projects will carry out assessment of all the safeguarding principles discussed in the GS4GG Safeguarding Principles and Requirements document.)

Safeguarding principles	Assessment questions	Assessment of relevance to the project (Yes/potentially/no)	Justification	Mitigation measure (if required)
3.2 Gender Equality and Women's Rights	Is there a possibility that the Project might reduce or put at risk women's access to or control of resources, entitlements and benefits?	No	The generated electricity is neutrally delivered to the Rwandese Electricity grid for clients of the country's utility company to access. The jobs created are new with the project being compliant with the IFC Performance Standards on	Not applicable

			Labour and Working Conditions.	
	Is there a possibility that the Project can adversely affect men and women in marginalised or vulnerable communities (e.g., potential increased burden on women or social isolation of men)?	No	The generated electricity is neutrally delivered to the Rwandese Electricity grid for clients of the country's utility company to access. The jobs created are new with the project being compliant with the IFC Performance Standards on Labour and Working Conditions. The project has been constructed and is maintained in compliance with Rwandese law.	Not applicable
	Is there a possibility that the Project might not take into account gender roles and the abilities of women or men to participate in the decisions/designs of the project's activities (such as lack of time, child care duties, low literacy or educational levels, or societal discrimination)?	No	The Project is already constructed and women participated in the design process, for example through invitations to the local stakeholder consultation.	Not applicable
	Does the Project take into	Yes	The generated	Not

	account gender roles and the abilities of women or men to benefit from the Project's activities (e.g., Does the project criteria ensure that it includes minority groups or landless peoples)?		electricity is neutrally delivered to the Rwandese national grid for clients of the country's utility company to access.	applicable
	Does the Project design contribute to an increase in women's workload that adds to their care responsibilities or that prevents them from engaging in other activities?	No	The generated electricity is neutrally delivered to the Rwandese national grid for clients of the country's utility company to access.	Not applicable
	Would the Project potentially reproduce or further deepen discrimination against women based on gender, for instance, regarding their full participation in design and implementation or access to opportunities and benefits?	No	The generated electricity is neutrally delivered to the Rwandese national grid for clients of the country's utility company to access.	Not applicable
	Would the Project potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and priorities of women and men in accessing and managing environmental goods and services?	No	The generated electricity derived from a solar power is neutrally delivered to the Rwandese national grid for clients of the country's utility company to access.	Not applicable
	Is there a likelihood that the proposed Project	No	The generated electricity is	Not applicable

	would expose women and girls to further risks or hazards?		neutrally delivered to the Rwandese Electricity grid for clients of the country's utility company to access. The project is in compliance with the IFC Performance Standards on Labour and Working Conditions. The project has been constructed and is maintained in compliance with Rwandese law.	
3.4.3 Land Tenure and Other Rights	Does the Project require any change to land tenure arrangements and/or other rights?	No	The project has been constructed and is maintained in compliance with Rwandese law. It is located on a privately owned land (Agahozo-Shalom Youth Village), leased to Gigawatt Global Rwanda Ltd. for the purpose of the project.	Not applicable
	For Projects involving land-use tenure, are there any uncertainties with regards land tenure, access rights, usage rights	No	The project has been constructed and is maintained in compliance with Rwandese law.	Not applicable

	or land ownership?		It is located on a privately owned land (Agahozo-Shalom Youth Village), leased to Gigawatt Global Rwanda Ltd. for the purpose of the project.	
3.6.2 Negative Economic Consequences	Is the Project financially sustainable during implementation and beyond the Project Certification period?	Yes	The project has a signed Power Purchase Agreement (PPA) for 25 years.	Not applicable
	Does the Project pose any potential risks to the local economy and have they been taken into consideration during design, implementation, operation and after the Project?	No	The solar PV plant is constructed with the PPA signed by the relevant authorities in Rwanda on behalf of the Government.	Not applicable
4.1.1 Emissions	Will the Project increase greenhouse gas emissions over the Baseline Scenario?	No	The solar PV plant is constructed and supplies electricity from a renewable energy source to the national grid, therefore it does not contribute to a rise in GHG emissions over the baseline scenario.	Not applicable
4.1.2 Energy Supply	Will the Project use energy from a local grid or power supply (i.e., not connected to a national or regional grid) or fuel resource (such	No	The solar PV plant is constructed and is connected to the national grid. Solely supplying and	Not applicable

	as wood, biomass) that provides for other local users?		consuming electricity from the same source.	
4.2.1 Impact on natural water patterns and flow	Will the Project affect the natural or pre-existing pattern of watercourses, ground-water and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	Potentially	The land change at the project site through clearing of vegetation and mounting of the solar PV panels with heavy rains could lead to increased soil erosion.	Not applicable - Implementation of a drainage system and revegetation of cleared areas. Both measures have already been implemented and are monitored.
4.2.2 Erosion and/or water body stability	1. Could the Project directly or indirectly cause additional erosion and/or water body instability or disrupt the natural pattern of erosion? If 'Yes' or 'Potentially' proceed to question 2.	Potentially	The land change at the project site through clearing of vegetation and mounting of the solar PV panels with heavy rains could lead to increased soil erosion.	Not applicable - Implementation of a drainage system and revegetation of cleared areas. Both measures have already been implemented and are monitored.
	2. Is the Project's area of influence susceptible to excessive erosion and/or water body instability?	No	The increased risk of soil erosion has been offset by the implementation and	Not applicable

			monitoring of a drainage system and revegetation of cleared areas.	
4.3.1 Landscape modification and soil	Does the Project involve the use of land and soil for production of crops or other products?	No	The land is currently in use to generate electricity from installed solar PV modules.	Not applicable
4.3.2 Vulnerability to Natural Disaster	Will the Project be susceptible to or lead to increased vulnerability to wind, earthquakes, subsidence, landslides, erosion, flooding, drought or other extreme climatic conditions?	Potentially	The land change at the project site through clearing of vegetation and mounting of the solar PV panels with heavy rains could lead to increased soil erosion.	Not applicable - Implementation of a drainage system and revegetation of cleared areas. Both measures have already been implemented and are monitored.
4.3.3 Genetic Resources	Could the Project be negatively impacted by the use of genetically modified organisms or GMOs (e.g., contamination, collection and/or harvesting, commercial development)?	No	The project site is being utilised for generating electricity from solar PV modules with no requirement for GMOs.	Not applicable
4.3.4 Release of pollutants	Could the Project potentially result in the release of pollutants to the environment?	Potentially	The limited volumes of solid waste generated at the site are collected for safe processing	Not applicable – Third party waste collection

			by a contracted third party.	company is contracted and implements the contracted service at the site. This is already being monitored.
4.3.5 Hazardous and Non-hazardous Waste	Will the Project involve the manufacture, trade, release, and/ or use of hazardous and non-hazardous chemicals and/or materials?	No	This does not apply as the elements are not covered in the project scope.	Not applicable
4.3.6 Pesticides and fertilizers	Will the Project involve the application of pesticides and/or fertilisers?	No	The project is energy-based with a small vegetation component that does not require pesticides and/or fertilizers.	Not applicable
4.3.7 Harvesting of forests	Will the Project involve the harvesting of forests?	No	This does not apply as harvesting of forests is not covered in the project scope.	Not applicable
4.3.8 Food	Does the Project modify the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?	No	This does not apply as food is not covered in the project scope.	Not applicable
4.3.9 Animal Husbandry	Will the Project involve animal husbandry?	No	This does not apply as animal husbandry is not covered in the project scope.	Not applicable

SECTION C Monitoring plan

C.1 Data and parameters to be monitored

(Include specific information on how the data and parameters that need to be monitored in the selected methodology(ies) or proposed approaches or as per mitigation measures from safeguarding principles assessment or as per feedback from stakeholder consultations would actually be collected during monitoring. Copy this table for each piece of data and parameter.)

Relevant SDG Indicator/Safeguarding Principle	SDG 7 – Affordable and clean energy: Ensure access to affordable, reliable, sustainable and modern energy for all 7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix 7.2.1 - Renewable energy share in the total final energy consumption
Data / Parameter	<i>Chosen Parameter:</i> Amount of electricity generated from solar PV source
Unit	MWh
Description	Amount of electricity generated from solar PV source as a result of implementing the project.
Source of data	Energy reports with power generation data over a given number of months. Invoices to the utility company indication the amount of power sold to the utility company. These are provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	An equivalent amount of electricity would have been generated from thermal power plants running fossil fuels.
Measurement methods and procedures	Energy generation from the power plant, which is from solar, will be monitored continuously.
Monitoring frequency	The quantity of electricity supplied to the grid will be monitored continuously, measured hourly and recorded at least monthly.
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 7 (Affordable and Clean Energy)
Additional comment	Justification of SDG goal/target/indicator: The electricity generated from this renewable energy project is supplied to the Rwandese population.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.5 - By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value 8.5.2 – Unemployment rate, by sex, age and persons with disabilities
Data / Parameter	Quality Employment <i>Chosen parameter:</i> Records of trained workers during the construction and operational phase.
Unit	-
Description	The number of employment opportunities created due to the operation of the solar project with training.
Source of data	Training records and professional training certificates provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	Number of training records and professional certifications for workers
Measurement methods and procedures	Verifying the number of training records of workers during the construction and operation phase.
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: The project creates 2 full time employment posts for operational and maintenance plus various support roles contributing to the overall SDG target.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.8 - Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment 8.8.2 - Increase in national compliance of labour rights (freedom of association and collective bargaining) based on International Labour Organization (ILO) textual sources and national legislation, by sex and migrant status
Data / Parameter	Quality Employment

	<i>Chosen parameter:</i> Feedback loop between employee and the employer
Unit	-
Description	Provision of a grievance mechanism for workers to raise workplace concern. All employees are informed of this mechanism at the time of recruitment or no later than before start of any work on site.
Source of data	Grievance Book provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	There are no grievances raised by the operation of the project.
Measurement methods and procedures	Annual compilation of complaints filed in the grievance book The Grievance mechanism procedural steps are set out below: • Security personnel will keep the grievance book and will be instructed to provide the book (in request) to all persons to write or log their grievances. • The complainant to write or log grievances on the new page – all the grievances to be confidential. • Security personnel to notify Plant Supervisor of any complaints or grievances • The complainant should not be victimized by any manner. • The Plant Supervisor or his/her appointee to check the grievance book on regular intervals but not exceeding 48 hours. • The Plant Supervisor or his/her appointee to follow up and act on the grievance as soon as possible • The Plant Supervisor or his/her appointee to give feedback to the complainant and all affected parties. • The Plant Supervisor or his/her appointee to advise the complainant about the right to refer the matter to the project superior or other authorities if he/she is not satisfied with the outcome. • The Plant Supervisor to upload any grievances recorded on the grievance book into internal organisation mechanism.
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: The provision of the grievance mechanism for workers to raise workplace concern facilitates the creation of a working environment where labour rights are protected.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.5 - By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value 8.5.2 – Unemployment rate, by sex, age and persons with disabilities
Data / Parameter	Quantitative Employment and Income Generation <i>Chosen parameter:</i> Number of jobs created for Rwandese in general and for the local people during the operation phase.
Unit	-
Description	The number of jobs created for Rwandese and local people due to the operation of the solar project
Source of data	Summarized employment records in the Environmental and Social Monitoring Report provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	No employment opportunities were created in the absence of the power plant
Measurement methods and procedures	Verifying the employment records
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: The project creates 2 full time employment posts for operational and maintenance plus various support roles contributing to the overall SDG target.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.5 - By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value 8.5.2 – Unemployment rate, by sex, age and persons with disabilities
Data / Parameter	Quantitative Employment and Income Generation <i>Chosen parameter:</i> 3. Number of men and women employed by the project activity
Unit	-

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Description	The number of jobs created for men and women due to the operation of the solar project
Source of data	Summarized employment records in the Environmental and Social Monitoring Report provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	No employment opportunities were created in the absence of the power plant
Measurement methods and procedures	Verifying the employment records
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: The project creates 2 full time employment posts for operational and maintenance plus various support roles contributing to the overall SDG target.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.5 - By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value 8.5.2 – Unemployment rate, by sex, age and persons with disabilities
Data / Parameter	Human and Institutional Capacity & Technology Transfer and Technological Self-Reliance <i>Chosen parameter:</i> Number of trainings carried out by the project
Unit	-
Description	Number of trainings carried out as a result of the operation of the power plant
Source of data	Training record certificates provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	Absence of power plant hence no human capacity development benefits from the project
Measurement methods and procedures	Review of the trainings record certificates
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)

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Additional comment	Justification of SDG goal/target/indicator: The project creates 2 full time employment posts for operational and maintenance plus various support roles. Through which the various engaged persons undertake training contributing to the overall SDG target.
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Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.6 - By 2020, substantially reduce the proportion of youth not in employment, education or training. 8.6.1 - Proportion of youth (aged 15-24 years) not in education, employment or training
Data / Parameter	Human and Institutional Capacity & Technology Transfer and Technological Self-Reliance <i>Chosen parameter:</i> Number of academic visits made by various academic institutions
Unit	-
Description	Number of excursions to the power plant by various institutions as a result of the operation of the solar project
Source of data	Excursion records provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	Absence of a power plant hence no human capacity development benefits from the project
Measurement methods and procedures	Review of excursion record certificates
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: The operation of the project provides an opportunity for the youth (and broader society) to access training and education on solar technology.

Relevant SDG Indicator/Safeguarding Principle	SDG 8 – Decent work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all 8.6 - By 2020, substantially reduce the proportion of youth not in employment, education or training. 8.6.1 - Proportion of youth (aged 15-24 years) not in education, employment or training
Data / Parameter	Human and Institutional Capacity & Technology Transfer and Technological Self-Reliance <i>Chosen parameter:</i> Number of students receiving solar technology / engineering training
Unit	-
Description	Number of students receiving solar technology/engineering training due to the presence of the power plant
Source of data	ASV education records provided by Scatec Solar Africa (Pty) Ltd
Value(s) applied	Absence of a power plant hence no human capacity development benefits from the project.
Measurement methods and procedures	Review of ASYV education records
Monitoring frequency	Annually
QA/QC procedures	Quality control procedures have been applied in accordance with the monitoring plan
Purpose of data	To monitor the contribution to SDG 8 (Decent work and Economic Growth)
Additional comment	Justification of SDG goal/target/indicator: Based on the number of students receiving training in solar technology/engineering, the project has contributed to improving the proportion of youth in education and training.

The following data and parameters are additional monitored under the CDM PoA Registration ID no. 10202, CPA 10202-001 ASYV 8.5MW Solar PV Project:

- $EG_{PJ, facility, y}$ - Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/year)

More information can be [here](#).

C.1.1 Other elements of monitoring plan (if applicable)

>>

The following monitoring plan can be considered to include the CDM comments as per the CDM PoA Registration ID no. 10202, CPA 10202-001 ASYV 8.5MW Solar PV Project, more information can be [here](#).

Scatec Solar Africa (Pty) Ltd is the entity which runs the CPA and is responsible for collating the operational data which is fed into the CME Gigawatt Global Coöperatief U.A.

SECTION D Duration and crediting period

D.1 Duration of project

D.1.1 Start date of project

>> (Specify start date of the project, in the format of DD/MM/YYYY)

Start date of the CPA (GS3606 CPA-001 ASYV 8.5MW Solar PV Project) is 14/02/2014

D.1.2 Expected operational lifetime of project

>> (Specify in years)

Lifetime of the CPA (GS3606 CPA-001 ASYV 8.5MW Solar PV Project) is 25 years

D.1 GS Crediting period of the project/activity

Initial 7 years, with option to renew twice more up to a total of 21 years.

D.2.1 Start date of the ongoing GS crediting period

>> (Specify in dd/mm/yyyy)

23/10/2015

D.2.3 End date of the ongoing GS crediting period

>> (Specify in dd/mm/yyyy)

22/10/2022

D.2.3 Total length of the GS crediting periods

>> (Specify the total length of crediting period in years in line with GS4GG Principles & Requirements or relevant activity requirements)

21 years

SECTION E Stacking of new assets

>> *(If project is looking to stack new assets over GSVERs the required information to demonstrate compliance to the relevant methodology, product specification and additionality shall be presented in the new PDD template launched with GS4GG)*

N/A

Appendix 1. Contact information of project participants

Organization name	Gigawatt Global Coöperatief U.A.
Registration number with relevant authority	-
Street/P.O. Box	Kingsfordweg 151
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Fax	-
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Salutation	Mr
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Middle name	-
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Department	-
Mobile	-
Direct fax	-
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Organization name	Carbon Africa
Registration number with relevant authority	-
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Contact person	Timothy Cowman
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Salutation	Mr
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Middle name	-
First name	Timothy
Department	-
Mobile	-
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