


**Monitoring report form
(Version 05.1)**

Complete this form in accordance with the Attachment "Instructions for filling out the monitoring report form" at the end of this form.

MONITORING REPORT

| | | |
|--|---|---|
| Title of the project activity | EOLO Wind Power Project | |
| UNFCCC reference number of the project activity | 6143 | |
| Version number of the monitoring report | 1.0 | |
| Completion date of the monitoring report | 20/06/2016 | |
| Monitoring period number and duration of this monitoring period | 2 01/01/2014 – 31/12/2015 | |
| Project participant(s) | 1. Eolo de Nicaragua S.A. | |
| Host Party | Nicaragua | |
| Sectoral scope(s) | Sectoral scope: 1 – Energy industries (renewable/non-renewable sources). Project type: Renewable Energy | |
| Selected methodology(ies) | "ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" (Version 12.3.0 – 2 March 2012)" | |
| Selected standardized baseline(s) | N/A | |
| Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD | 110,054 tCO ₂ per year (220,108 tCO ₂ for 24 months equivalent to this Monitoring period) | |
| Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period | GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012 | GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards |
| | 0 | 310,061 tCO ₂ |

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

The Eolo Wind Power Project (hereafter, the “Project”) involves using renewable wind power to provide affordable electrical energy to Nicaragua’s grid. The wind farm is located on the southwest coast of Lake Nicaragua, in the Department of Rivas, Republic of Nicaragua.

The main purpose of the Project is to provide electricity to the growing requirement in Nicaragua, using a sustainable and competitive resource: the wind. For this purpose, the Project makes use of 22 GAMESA G90 – 2MW wind turbines for a total capacity of 44 MW. The estimated net power production established in the PDD was 162.32 GWh per year.

Eolo de Nicaragua S.A. (“EOLO”), a special purpose vehicle established in Nicaragua is the original company formed to develop the Project. EOLO is a subsidiary of Globeleq Mesoamerica Energy (Wind) Limited (“GME”) a company dedicated to the development, construction and operation of renewable energy projects in Central America and adjacent region¹.

An EPC Agreement was signed with GAMESA on 31/12/2011. Construction works began in January of 2012.

The following table summarizes the Project’s main milestones:

| Milestones | Date |
|---|----------------------|
| EPC Agreement signing | December 2011 |
| Construction Works start date | January 2012 |
| Commercial operations start date | December 2012 |

The total amount of emission reductions achieved in this monitoring period is summarized in the table below:

| Monitoring period | Net electricity production | Total emission reductions |
|--------------------------------|----------------------------|----------------------------------|
| 01/01/2014 – 31/12/2015 | 457,334 MWh | 310,061 tCO_{2eq} |

A.2. Location of project activity

Nicaragua
City of Rivas
Province of Rivas

The Project is located at approximately kilometer 123 along the Pan-American Highway. The site is located on the south west coast of the Lake of Nicaragua.

The geographical coordinates of the Project area are the following:

Table 1: Project Coordinates (UTM)

| Longitude | Latitude |
|-----------|-----------|
| 0636020 E | 1256863 N |

¹ See www.globeleqmesoamericaenergy.com

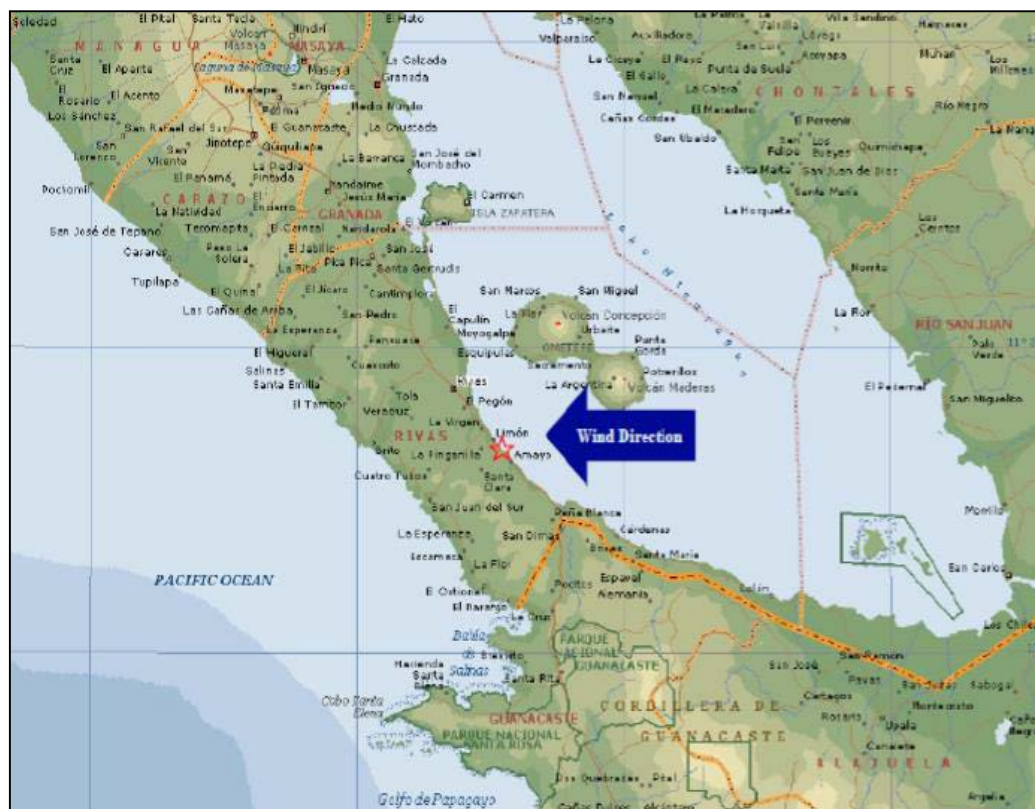


Figure 1. Project Location

A.3. Parties and project participant(s)

| Party involved (host) indicates a host Party) | Private and/or public entity(ies) project participants (as applicable) | Indicate whether the Party involved wishes to be considered as project participant (yes/no) |
|---|--|--|
| Nicaragua (Host Party) | Eolo de Nicaragua S.A. (Private Entity) | No |

A.4. Reference of applied methodology and standardized baseline

1. The baseline and monitoring methodology applied is ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" (Version 12.3.0 – 2 March 2012)
2. Tool for demonstration and assessment of additionality used is: "Tool for the demonstration and assessment of additionality" (Version 06.0)
3. Tool for calculation the emission factor for an electricity system used is: "Tool to calculate the emission factor for an electricity system" (Version 2.2.1)
4. "Guidelines on the assessment of investment analysis" (Version 5)

Reference to the UNFCCC CDM web site:

<http://cdm.unfccc.int/methodologies/DB/UB3431UT9I5KN2MUL2FGZXZ6CV71LT>

A.5. Crediting period of project activity

Type: 7 years renewable crediting period.

The crediting period of the project activity is from 01/01/2013 to 31/12/2019

Current monitoring period: 01/01/2014-31/12/2015

A.6. Contact information of responsible persons/entities

Geo Ingeniería Ingenieros Consultores S.A., based in San José, Costa Rica, completed the CDM-MR-FORM.

- Phone number: +(506) 2290 4656 / Fax: + (506) 2290 5297
- E-mail: scaastro@geoingenieria.co.cr
- Web: www.geoingenieria.co.cr

This entity is not considered as a project participant.

SECTION B. Implementation of project activity**B.1. Description of implemented registered project activity**

EOLO signed a PPA with DISNORTE and DISSUR on June 2nd 2011. On December 31st, 2011, an EPC agreement was signed with GAMESA. Later on, construction works began in January of 2012 and the Project started commercial operations in December 1st, 2012. The Project Activity was registered as a CDM Project on 18/06/2012 under reference number 6143.

The total capacity of the project is 44 MW, which consists in twenty-two 2 megawatt (MW) Gamesa G90 wind turbines generators. The net power production delivered to the national grid is estimated to be 162.32 GWh per year. The specific Project data is shown in the following table:

Table 2: Project Data

| | | |
|-------------------------|--|---|
| Project Features | Total Nominal Capacity | 44 MW |
| Turbine Features | Brand | GAMESA |
| | Model | G90 |
| | Rotor Blade | Eolica 44.0 m, Class IIA |
| | Capacity | 2.0 MW |
| Other Data | Machinery Components | Class IIA 50/60 Hz |
| | Tubular Steel Tower | Hub Heights at 78 meters (Class IIA) |
| | Electrical Installations and Lightning Protection | 50/60 Hz |
| | Design Life | 20 years |

During this monitoring period (1/01/2014 - 31/12/2015), the net electricity supply by the Project to the utility was 462,883.99 MWh. The monitoring in the Project is carried out as established in the Monitoring Plan by continuous metering of the received and delivered energy.

Regarding events that may impact the GHG emission reductions during the monitoring period, the following are mentioned:

Table 3: Event Log

| Date | Event |
|-------------|---|
| 2014 | |
| April | Electric arc formed between the insulating rod II 230 KV |
| | Cleaning side insulators 230 KV and 34.5 KV |
| August | CNDC opened T9010 breaker due to an incorrect maneuver causing a full plant trip. |
| September | On the 8 th , A9015 y T9010 switch trip and leaving out the plant generating auto valve damage cause by side 34.5 KV S phase |
| | On the 11 th , line differential relay log Eolo-Amayo a ground fault at 3.5 Km |
| October | Annual Preventive Maintenance in Substation |

| | |
|-------------|--|
| November | On November 12 th , shot circuit # 1, the shooting was a product by overcurrent sudden power increase associated with wind gusts presented at the time. |
| December | On December 2 th , shot line L9080 without tension, opening on Line Costa Rica, could not stand overvoltage. |
| | On December 5 th a national trip was caused due to a fault in a regional interconnection of the grid. National shooting. San Martin-Masaya line 230 KV, at 04:23 hours shot from the transmission line was recorded. This failure leaves out the entire interconnection system from Nicaragua to El Salvador, affecting equally to Mexico. |
| | On December 6 th Shot line L9080, San Martin-Masaya, this led to the opening of circuit breakers and Auxiliary Services |
| | On December 14 th Forced clearance for normalizing transmission line L9080 |
| 2015 | |
| January | Cable damage collector between T04 y T05, Circuit #1 tripped on January 4 th , as result of the trip 4 WTG were unavailable for 7 days, after the failure was repaired T04 was out for 3 days more and the T02 for 5. |
| February | On February 20 th two forced outage shutdown were instructed by CNDC, one to correct failure in line L9160 PBP-ABR and the second to repair failure in line L9170 AMY-EOLO. |
| March | On March 8 th the plant was affected by a shot in the L9080 line, leaving without voltage the substation. |
| July | On July 6, breakers L9170 and T9010 tripped due to a re-closure of breaker L9160 in the Alba Substation. |
| | On July 14, the plant suffered a forced outage trip due to a failure in line L9030. |
| | On July 18, forced shutdown ordered to standardize breakers L9170, T9010 and the operation of the Eolo – Amayo 230 KV line. |
| | On July 25, forced shutdown ordered to standardize the L9080 Masaya- San Martin line. |
| August | On August 6, 2015 an external failure tripped breakers L9170 y T9010. CNDC instructed Eolo personnel to shut down the power plant. The purpose of the clearance was to normalize the 230 KV line setting the breakers back to normal. |
| September | Annual Preventive Maintenance in Substation |
| October | Cable replacement section T4 to T5, Cable damage between T5 and T6 splicing is performed. |
| December | On December 26, 2015 preventive maintenance was performed on the 34.5 KV phase R disconnect switch located at the low voltage end of the power transformer, this because during a thermographic inspection found a hot spot in this switch; preventive maintenance was performed and a follow up thermographic inspection was performed to confirm that the issue was mitigated. |

During this monitoring period there were no major events or situations that affected the applicability of the applied methodology.

B.2. Post-registration changes**B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline**

Not applicable

B.2.2. Corrections

A Post Registration Change (PRC-6143-001), was made in order to correct the heights of the installed turbines. The PRC clarifies that only 78 m hub heights were installed. This request was approved on 07/10/2014.

Information on this request and related documents are available as of today on the UNFCCC CDM web site < <http://cdm.unfccc.int/PRCContainer/DB/prcp379622289/view>>

B.2.3. Changes to start date of crediting period

Not applicable

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

Not applicable

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

A Post Registration Change (PRC-6143-001) was made in order to correct the power accuracy of the main and back up meters. The PRC clarifies that the meters have an accuracy rating of at least +/- 0.2% (main) and +/- 0.5% (backup). This request was approved on 07/10/2014.

Information on this request and related documents are available as of today on the UNFCCC CDM web site < <http://cdm.unfccc.int/PRCContainer/DB/prcp379622289/view>>

B.2.6. Changes to project design of registered project activity

Not applicable

B.2.7. Types of changes specific to afforestation or reforestation project activity

Not applicable

SECTION C. Description of monitoring system

The Project delivers its output to a dedicated substation where two bi-directional meters required for determining the plant's net generation are installed. Figure 1 shows a metering scheme: electricity is determined at the 230 kV substation meters (both for energy delivered to and consumed from the grid). A main meter and a backup meter are in place.

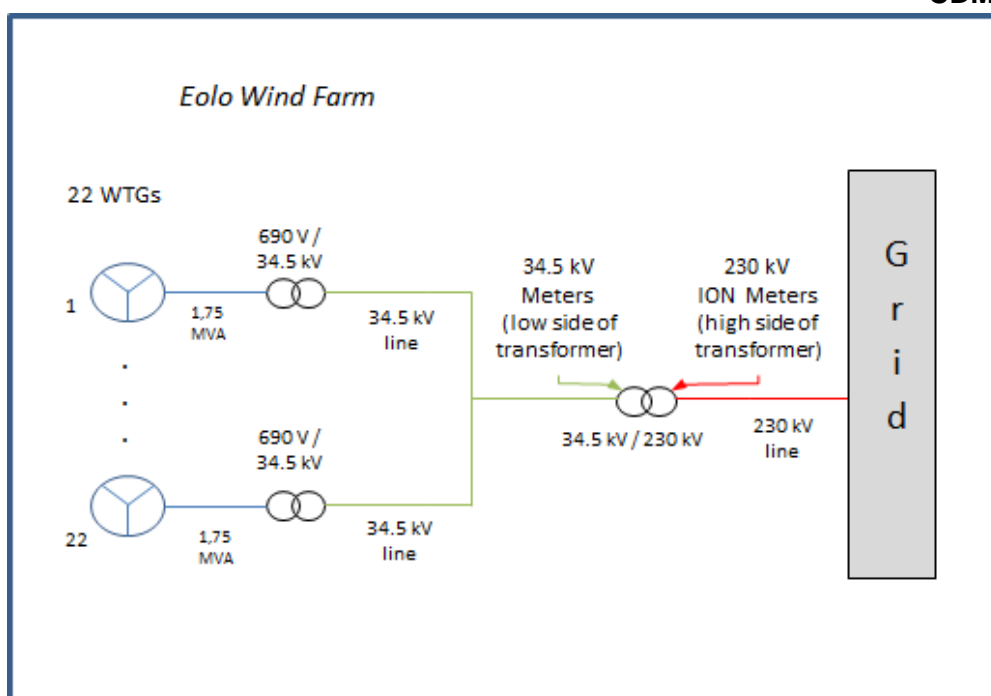


Figure 2. Metering Scheme, dedicated Substation

The main meter used during the period 01/01/2014 to 31/12/2015 was the ZYY01205024300000 (Model ION 8650) and the backup meter used was ZYY01205023900000 (Model ION 8650). The latter explanation is described in the table below:

Table 4: Meters (main and back-up)

| PERIOD | MAIN METER (MMED1) | BACKUP METER (MMED2) |
|--------------------------|---|--|
| 01/01/2014 to 31/12/2015 | ZYY01205024300000 Serial Number: MW 1205A243-01 Model: ION 8650 | ZYY01205023900000 Serial Number: MW 150A239-01 Model: ION 8650 |

The energy produced by the Project is sold to “Distribuidora de Electricidad del Norte” (DISNORTE) and to “Distribuidora de Electricidad del Sur” (DISSUR) (hereinafter the Distributors). Each Distributor receives 50% of the energy delivered by the Project, as per the PPA signed with both of them.

Personnel of EOLO take remotely readings every 15 minutes, via the ION ENTERPRAY SCADA system. The net energy in the first day of the month is subtracted from the net energy of the last day of the month, the difference obtained.

The operator elaborates a record based on the monthly net energy, and it's signed by the Plant's management and the Department of Coordination of Operations.

A record and an invoice are developed by EOLO and sent directly to the Distributors. This record contains the readings of the main and backup meters at the first and last day of the billing month as well as the net energy produced by the Project. The record also includes the meters from which the readings are taken and the price, in USD, of the net energy. This record is signed by the operations coordinator and the plant manager.

Onsite meters are located at the 34.5 kV side of the substation (of at least +/- 0.5 accuracy level) in case both 230 kV meters at the substation are out. In this case, historical records will be used to account for transmission losses between the 34.5 kV and the 230 kV metering points, if any. The average difference between the readings from the 34.5 kV and the 230 kV meters of the last 3 months will be deducted from the readings obtained from the 34.5 kV meters.

The CNDC (Centro Nacional de Despacho de Carga) takes the energy readings remotely. This data is compared with the invoice and record, prepared by personnel of EOLO. Once the values on the invoice issued by the Project Participant are confirmed by the CNDC, the invoice is deemed official and its payment is due.

As the 230 kV meters are the official ones used for billing purposes, any events affecting the latter should be reflected in audit reports prepared by the CNDC. If a different method for determining net electricity is used in these audit reports, the most conservative values will be chosen.

The flowchart of the billing process for the Project is found below:

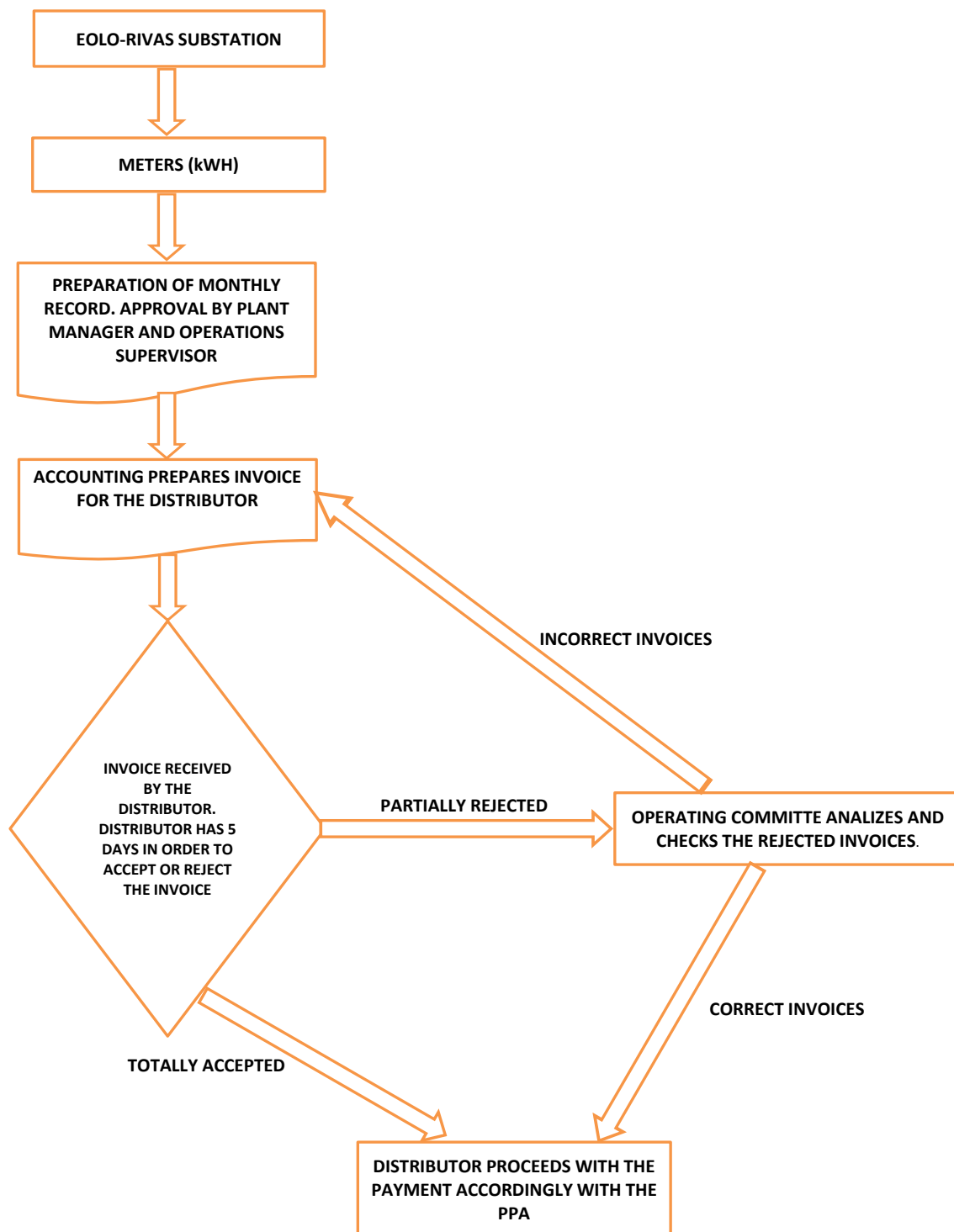


Figure 3. Information Flow

The Operations Department is responsible for ERs monitoring, record keeping and the implementation of proper QA procedures. All the information from this department is consistent and easily verifiable with all the relevant data from other departments in case an external audit should require it.

All Operation and Maintenance procedures will be adapted to include the carbon monitoring component and the adequate accounting of the emission reductions.

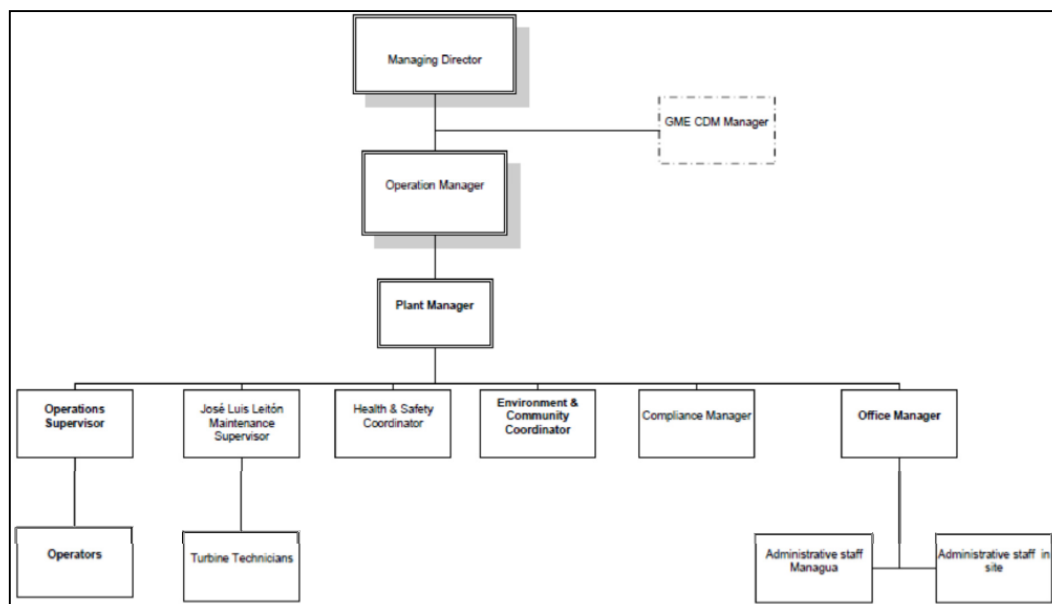


Figure 4. Organizational structure of the Project

The department of Coordination of Operations is represented in the figure 3 as “Operations Supervisor”.

| | Plant Manager | Environmental Coordinator | Operations Manager |
|--|---------------|---------------------------|--------------------|
| Collect data | | | |
| Power delivered to grid | R | E | |
| Ensure calibrations and data quality | R | I | E |
| Process data | | | |
| Input of raw data in spreadsheet | | R | E |
| Cross check data and correct | | R | E |
| Calculate emission reductions | | R | E |
| Quality check calculated emission reductions | R/E | I | R/E |
| Reporting and archiving | | | |
| Report data gaps and errors | I | R | E |
| Report emission reductions to date | R/E | I | R/E |
| Archiving of procedures and certificates | | R | E |
| Archiving of data | R | E | E |

E = Execute
 R = Responsible
 I = To be informed

Figure 5. Responsibilities of personnel

Procedures for handling internal auditing and non-conformities

The following table sets out the data collection procedures in case of extraordinary faults and events:

Table 5: Data collection procedures in case of extraordinary faults and events

| Periodicity | Activity | Responsible |
|--|---|---|
| Failure in any of the meters (main and backup) | Communicate immediately to the operations management, the dispatch center and the distributors. ² Register the event in the log. Any replacement or reparation must have its work record. The personnel must ensure the meter's replacement and the installation of the new meter, as well as the correct calibration of the device by a qualified company, as soon as possible. ³ . | Coordination of Operations & EOLO's Shift Operator. |
| In case the turbines need to be stopped, or, the project goes through an interruption of its operations. | Record the hours of the turbine(s)/Project's inactivity as well as the reason(s) of the shutdown and the moment of reactivation. | Coordination of Operations & EOLO's Shift Operator. |
| Unforeseeable cases | Any event preventing wind project operation should be promptly reported to Plant Management. | Coordination of Operations & EOLO's Shift Operator. |

Calibration of Meters and Metering

Meters must be calibrated at least once every two years as per the Commercial ANNEXES of the Operations Normative of Nicaragua. The cost of the calibration/verification must be assumed by EOLO.

The CNDC could ask for a meter checking. If any anomaly is detected, the cost of the auditing will be assumed by the Project.

SECTION D. Data and parameters**D.1. Data and parameters fixed ex ante or at renewal of crediting period**

| | |
|--|--|
| Data/parameter: | EFgrid, CM, 2007, 2008, 2009 |
| Unit | tCO ₂ /MWh |
| Description | Combined Margin Emission Factor of the Grid Calculated with the latest published official statistical data, using the default weights for wind projects $w_{OM} = 0.75$ and $w_{BM} = 0.25$ |
| Source of data | Determined in the registered PDD |
| Value(s) applied) | 0.6780 |
| Choice of data or measurement methods and procedures | |
| Purpose of data | Calculation of baseline emissions |
| Additional comments | This parameter is fixed for the whole crediting period |

² The Operations Coordination Office is in charge of this process and it's resolution

³ All notification of installation and certificates calibration will be kept on file.

D.2. Data and parameters monitored

| | |
|--|---|
| Data/parameter: | $EG_{\text{facility},y}$ |
| Unit | MWh/yr |
| Description | Quantity of net electricity generation supplied by the Project plant/unit to the grid in year y |
| Measured/calculated/default | Measured |
| Source of data | Electricity meter reading |
| Value(s) of monitored parameter | 457,333.99 MWh/yr |
| Monitoring equipment | <p>The energy is continuously metered at the Delivery Point by two electronic line meters. The ZYY01205024300000 (ION 8650) meter served as the main meter and the ZYY01205023900000 (ION 8650) as the backup meter</p> <p>Period from 01/01/2014 to 31/12/2015</p> <ul style="list-style-type: none"> - Main (MMED1) ZYY01205024300000 - Series: MW 1205A243-01 - Brand: ION, Model: 8650 - Calibration date: 23/05/2012, valid until 22/05/2014. - Verification date: 19/05/2014, valid until 18/05/2016. - Power Accuracy: 0.2% - Date of meter installation to the plant: 12/11/2012 - Back Up (MMED2) ZYY01205023900000 - Series: MW 1250A239-01 - Brand: ION, Model: 8650 - Calibration date: 23/05/2012, valid until 22/05/2014. - Verification date: 19/05/2014, valid until 18/05/2016. - Power Accuracy: 0.2% - Date of meter installation to the plant: 12/11/2012 <p>Calibration frequency of the meters: at least once every 2 years as per the Commercial ANNEXES of the Operations Normative of Nicaragua.</p> |
| Measuring/reading/recording frequency: | <p>Two bidirectional meters are installed at the Metering Point in the EOLO's dedicated substation, a main meter and a back-up meter. The bidirectional meters measures both electricity generated that is being delivered to the grid and discount electricity that is consumed by the Project. The data (net electricity supplied to the grid) will be calculated from the readings from the main meter at the Project site (recording both imports and exports that will be deducted to obtain the net electricity).</p> <p>Energy readings are taken every 15 minutes.</p> |
| Calculation method (if applicable): | N/A |
| QA/QC procedures: | <p>The CNDC (Centro Nacional de Despacho de Carga) takes the energy readings remotely through a SCADA system.</p> <p>These energy readings taken by the CNDC, are compared with the invoice and record prepared by EOLO's personnel. Once the values on the invoice issued by the project participant are confirmed by the CNDC, the invoice is deemed official and the payment may proceed.</p> <p>Meters will be calibrated according to the Operation's Normative.</p> |
| Purpose of data: | Calculation of baseline emissions. |

| | |
|----------------------|--|
| Additional comments: | Data will be archived by means of electronic and paper backup for the full crediting period, plus two year years after the end of the crediting period or the last issuance of CERs, whichever occurs later. |
|----------------------|--|

D.3. Implementation of sampling plan

Not applicable.

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

According to ACM0002, the baseline emissions of the project are equal to:

$$BE_y = EG_{PJ,y} \cdot EF_{grid,CM,y}$$

Where:

BE_y Baseline emissions in year y (tCO₂/yr)

$EG_{PJ,y}$ Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM Project Activity in year y (MWh/yr) ($EG_{facility}$)

$EF_{grid,CM,y}$ Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO₂/MWh).

| y | $EG_{PJ,y}$ (MWh) | $EF_{grid,CM,y}$ (tCO ₂ / MWh) | BE_y (tCO ₂ e) |
|-------|----------------------|--|--------------------------------|
| 2014 | 225,374 | 0.6780 | 152,798 |
| 2015 | 231,960 | 0.6780 | 157,263 |
| Total | 457,334 | 0.6780 | 310,061 |

E.2. Calculation of project emissions or actual net GHG removals by sinks

There are no project emissions attributable to wind projects. Consequently $PE_y = 0$

E.3. Calculation of leakage

There is no leakage attributable to wind projects. Consequently $L_y = 0$.

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

| Item | Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e) | Project emissions or actual net GHG removals by sinks (t CO ₂ e) | Leakage (t CO ₂ e) | GHG emission reductions or net GHG removals by sinks (t CO ₂ e) achieved in the monitoring period | | |
|-------|--|---|-------------------------------|--|-----------------|--------------|
| | | | | Up to 31/12/2012 | From 01/01/2013 | Total amount |
| Total | 310,061 | 0 | 0 | 0 | 310,061 | 310,061 |

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

| Item | Values estimated in ex ante calculation of registered PDD | Actual values achieved during this monitoring period |
|--|---|--|
| Emission reductions or GHG removals by sinks (t CO ₂ e) | 220,108 | 310,061 |

E.6. Remarks on difference from estimated value in registered PDD

The actual values reached during the whole monitoring period are 40.87% higher than the ex-ante value reported in the registered PDD (Section A.4.4), for an equivalent amount of time (24 months). This is a direct consequence of an equally higher electricity generation, as compared to the estimate used in the PDD (i.e. 324,644 MWh versus 457,334 MWh), that occurred because of the following reasons:

- The “Fenómeno del Niño”: the “*Fenómeno del Niño*” provoked a strong drought in the Rivas Isthmus, which generated lack of rains, and an increase in the amount and speed of wind in the rainy months of low wind. For example, months of May, June, July and August presented high variability compared to the forecasted speed of 6.5 m/s, to a real wind speed of 8.5 m/s in year 2014 and 9.5 m/s in year 2015. The generation forecasted for those months was 41.35 GWh against the real generation of 74.19 GWh in 2014 (79.4% higher) and 83.24 GWh in 2015 exceeding 101% of the forecast.
- Wind quality: an equally important factor was the wind quality, which is reflected in the distribution of the wind resource throughout the year. For the months of low wind, essentially the months of May, June, July and August, some days showed a registered low wind resource of 2 m/s, however those days of low wind correspond to a 15% of the month, but in the following days of the month very stable winds of 11 m/s were recorded, which allowed to have an excellent generation.
- Availability Factor: the former explanation, coupled with the excellent annual availability factor of the Plant of 97.68% in 2014 and 97.2% in 2015, helped ensure that the generation exceeded what was forecasted.

In general, production at wind farms varies greatly from year to year due to changes in weather patterns, frequency distribution of wind speeds and equipment availability. It is important to stress that during validation, the production estimate considered in the PDD was the P75, which is common practice in wind power projects⁴ and a reasonable assumption in light of other experiences in Nicaragua⁵ and Central America⁶. Therefore, in light of the volatility inherent to this type of technology (i.e. wind power projects in general and Central American wind power projects in particular), a three-year increase in output does not suffice to cast doubt on the reasonability of the

⁴ See e.g. http://www.greenrhinoenergy.com/finance/modelling/revenue_uncertainties.php and https://energypedia.info/index.php/Economic_analyses_of_wind_energy_projects

⁵ Amayo Phase I wind farm, for instance, has generated yearly amounts ranging from 109.22 to 157.59 GWh (in 2009 and 2012, respectively – INE statistics available to the DOE), significantly below their P50 estimate (169 GWh/yr, as per said project’s PDD).

⁶ See for example the large variations in various Costa Rican wind power projects’ performances, as reported for CDM project Ref #6652. The spreadsheet compiling various statistics used for the estimation of the emission factor (“Appendix 2 – EF Calculation”, Wind power performance tab), shows examples of wind farms which register inter-annual shifts in their electricity production as large as -28% up to +57.8%.

long-term estimate provided in the registered PDD, whereas our current results can be interpreted as an outlier, mainly because of what is explained above.

Figures with the wind behaviour and monthly generation of the EOLO Project, are available to the DOE.

Appendix 1. Contact information of project participants and responsible persons/entities

| | |
|--|--|
| Project participant and/or responsible person/ entity | <input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM |
| Organization name | Eolo de Nicaragua S.A. |
| Street/P.O. Box | Villa Fontana |
| Building | Edificio Discover, primer piso, módulo 1 D |
| City | Managua |
| State/region | Managua |
| Postcode | NA |
| Country | Nicaragua |
| Telephone | (505) 2270-3186 |
| Fax | (505) 2267-8358 |
| E-mail | cdm@mesoamericaenergy.com |
| Website | www.globelegmesoamericaenergy.com |
| Contact person | |
| Title | Development and CDM Manager |
| Salutation | Mr. |
| Last name | Umana |
| Middle name | NA |
| First name | Leonel |
| Department | Development |
| Mobile | +506 8666-2323 |
| Direct fax | +506 2228-9930 |
| Direct tel. | +506 2228-9300 |
| Personal e-mail | lumana@mesoamericaenergy.com |

Attachment. Instructions for filling out the monitoring report form

1. General instructions

1. When monitoring the project activity and completing the CDM-MR-FORM, in addition to following the the "[CDM Project standard](#)" (Project standard), the applied approved baseline and monitoring [methodology\(ies\)](#) (hereinafter referred to as the applied methodology(ies)) and, where applicable, the applied approved [standardized baseline\(s\)](#) (hereinafter referred to as the applied standardized baseline(s)), consult the "[Rules and Reference](#)" section of the UNFCCC CDM website. This section contains all regulatory documents for the CDM, such as [standards](#) (including [methodologies](#), [tools](#) and [standardized baselines](#)), [procedures](#), [guidelines](#), [clarifications](#), [forms](#) and the "[Glossary: CDM terms](#)". Make any data, values and formulae included in electronic spreadsheets provided accessible and verifiable.
2. Complete the CDM-MR-FORM and all attached documents in English, or include a full translation of relevant sections in English.
3. Complete the CDM-MR-FORM using the same format without modifying its font, headings or logo, and without any other alteration to the form.
4. Do not modify or delete tables and their columns in the CDM-MR-FORM. Add rows to the tables as needed. Add additional appendices as needed.
5. If a section of the CDM-MR-FORM is not applicable, explicitly state that the section is left blank intentionally.
6. Use an internationally recognized format for presentation of values in the CDM-MR-FORM, for example use digit grouping in thousands and mark a decimal point with a dot (.), not with a comma (,).
7. Complete the CDM-MR-FORM deleting this "Attachment: Instructions for filling out the monitoring report form".

2. Specific instructions

1. Indicate on the cover page the following information:
 - (a) Title of the project activity;
 - (b) Reference number of the project activity;
 - (c) Version number of the monitoring report;
 - (d) Completion date of the monitoring report (DD/MM/YYYY);
 - (e) Monitoring period number and duration of this monitoring period. The monitoring period number is an ordinal number referring to the chronological order of monitoring periods (e.g. "first monitoring period"). For the monitoring period dates, first and last days are included (DD/MM/YYYY – DD/MM/YYYY);
 - (f) Project participant(s);
 - (g) Host Party;
 - (h) Sectoral scope(s). List all sectoral scopes applicable to the project activity;
 - (i) Selected methodology(ies). List all the selected methodologies and combination of methodologies applicable to the project activity;
 - (j) Selected standardized baseline(s). List all the selected standardized baseline applicable to the project activity;
 - (k) Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD;
 - (l) Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period - GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012 (if applicable); GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards (if applicable).

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

1. Provide a brief summary of the detailed description given in section B.1 in terms of:
 - (a) Purpose of the project activity and the measures taken for GHG emission reductions or net GHG removals by sinks;
 - (b) Brief description of the installed technology and equipment;
 - (c) Relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.);
 - (d) Total GHG emission reductions or net GHG removals by sinks achieved in this monitoring period.

A.2. Location of project activity

1. Provide the following information on the location of the project activity:
 - (a) Host Party;
 - (b) Region/state/province, etc.;
 - (c) City/town/community, etc.;
 - (d) Physical/geographical location.

A.3. Parties and project participant(s)

1. List in the table Party(ies) and project participant(s) involved in the project activity.

A.4. Reference of applied methodology and standardized baseline

1. Indicate the exact reference (number, title, version) of:
 - (a) The applied methodology(ies) (e.g. ACM0001: "Large-scale consolidated methodology: Flaring or use of landfill gas" (version 15.0));
 - (b) Any tools and other methodologies to which the applied methodology(ies) refers (e.g. "Methodological tool: Tool for the demonstration and assessment of additionality" (version 07.0.0));
 - (c) The applied standardized baseline(s), where applicable (e.g. ASB0001 "Standardized baseline: Grid emission factor for the Southern African power pool" (version 01.0)).

2. Refer to the UNFCCC CDM website for the exact reference of the applied methodologies, tools and standardized baselines.

A.5. Crediting period of project activity

1. Provide the type, start date and length of the crediting period corresponding to this monitoring period.

A.6. Contact information of responsible persons/entities

1. Provide contact information of the person(s)/entity(ies) responsible for completing the CDM-MR-FORM and indicate whether the person(s)/entity(ies) is(are) also a project participant(s) in Appendix 1

SECTION B. Implementation of project activity

B.1. Description of implemented registered project activity

1. Provide information on the implementation status of the project activity during this monitoring period in accordance with the applicable provision for description of implemented registered CDM project activity in the Project standard.
2. For the description of the installed technology(ies), technical process and equipment, include diagrams, where appropriate.
3. If applicable, present information on any request for prior approval by the Board of changes to the registered CDM project activity in section B.2.1, B.2.2, B.2.3, B.2.4, B.2.5 and/or B.2.6.

B.2. Post-registration changes

B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline

1. Indicate whether any temporary deviations have been applied during this monitoring period. If applied, provide a description of the deviation(s) in accordance with applicable provisions for temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baseline in the Project standard.
2. Include the reasons for the deviation(s), how it deviates from the monitoring plan, applied methodology(ies) and/or applied standardized baseline, the duration for which the deviation(s) is(are) applicable and justification on the conservativeness of the approach.
3. For deviation(s) that require prior approval by the Board, include the date of approval and reference number. Otherwise, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report.

B.2.2. Corrections

1. Indicate whether any corrections to project information or parameters fixed at validation have been approved during this monitoring period or submitted with this monitoring report.
2. In cases where the correction(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number. Otherwise, provide the version number and the completion date of the revised PDD and the DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report.

B.2.3. Changes to start date of crediting period

1. Indicate whether any changes to the start date of the crediting period have been approved during this monitoring period or submitted with this monitoring report.
2. In cases where the changes and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number.

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

1. Indicate whether the inclusion of a monitoring plan into the PDD for which the delayed submission of the monitoring plan was chosen by the project participants at the time of the registration of the project activity, has been approved by the Board prior to the submission of this monitoring report or is being submitted together with this monitoring report.
2. If the inclusion of a monitoring plan into the registered PDD has been approved by the Board prior to the submission of this monitoring report, provide the date of approval and reference number.

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

1. Indicate whether any permanent changes from the registered monitoring plan, applied methodologies or applied standardized baseline have been approved during this monitoring period or submitted with this monitoring report.
2. In cases where the change(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number. Otherwise, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report.

B.2.6. Changes to project design of registered project activity

1. Indicate whether any changes to the project design of the project activity have been approved during this monitoring period or submitted with this monitoring report.
2. In cases where the change(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number. Otherwise, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report.

B.2.7. Types of changes specific to an afforestation or reforestation project activity

1. Indicate whether any changes specific to afforestation or reforestation project activities have been applied during this monitoring period based on applicable provisions in the Project standard that do not require prior approval by the Board. If changes were applied, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report.

SECTION C. Description of monitoring system

1. Provide a description of the monitoring system based on the applicable provision for description of monitoring system in the Project standard. Include diagrams of the monitoring system and the information flow where appropriate.

SECTION D. Data and parameters

1. Provide information on all data and parameters in accordance with applicable provisions for data and parameters in the Project standard, using the tables provided in sections D.1 and D.2.
2. For "Purpose of data" in the tables in D.1 and D.2, choose one of the following options:
 - (a) Calculation of baseline emissions or baseline net GHG removals by sinks;
 - (b) Calculation of project emissions or actual net GHG removals by sinks;
 - (c) Calculation of leakage.
3. Where the applied standardized baseline(s) standardizes baseline emissions, apply the standardized value(s) of the parameter(s) in section D.1 and/or D.2 in accordance with applicable provisions related to data and parameters in the Project standard.

D.1. Data and parameters fixed ex ante or at renewal of crediting period

1. Include data that are fixed before registration and/or at the renewal of crediting period and are used during this monitoring period under section D.1.
2. For "Value(s) applied", use one table to report multiple values referring to the same data and parameter, if applicable. Use reference(s) to electronic spreadsheets, if necessary.

D.2. Data and parameters monitored

1. For "Monitoring equipment" in the table, provide information on type, accuracy class, serial number, calibration frequency, date of last calibration and validity.
2. For "Value(s) of monitored parameter", use one table to report multiple values referring to the same data and parameter, if applicable. Use reference(s) to electronic spreadsheets, if necessary.

D.3. Implementation of sampling plan

1. If data and parameters monitored described in section D.2 above are determined by a sampling approach, provide a description on how project participants implemented the sampling efforts and surveys for those data and parameters according to the sampling plan. Include:
 - (a) Description of implemented sampling design;
 - (b) Collected data (attach and provide reference to electronic spreadsheets, if necessary);
 - (c) Analysis of the collected data;
 - (d) Demonstration on whether the required confidence/precision has been met.

SECTION E. Calculation of emission reductions or GHG removals by sinks

1. For the parameter global warming potentials (GWPs), from 1 January 2013, include the values adopted by decision 4/CMP.7 to calculate the emission reductions achieved in the second commitment period of the Kyoto Protocol in accordance with the applicable provisions in the Project standard.

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

1. Provide sample calculations for all formulae used and calculation of baseline emissions or baseline net GHG removals by sinks, applying actual values. Attach electronic spreadsheets to present full calculations in the monitoring report.

E.2. Calculation of project emissions or actual net GHG removals by sinks

1. Provide sample calculations for all formulae used and calculation of project emissions or actual net GHG removals by sinks, applying actual values. Attach electronic spreadsheets to present full calculations in the monitoring report.

E.3. Calculation of leakage

1. Provide sample calculations for all formulae used and calculation of leakage, applying actual values. Attach electronic spreadsheets to present full calculations in the monitoring report.

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

1. Summarize the results of sections E.1, E.2, E.3 above and provide GHG emission reductions or net GHG removals by sinks for this monitoring period, using the table.
2. If the monitoring period starts before 31 December 2012 and ends anytime thereafter, provide actual GHG emission reductions or net GHG removals by sinks achieved for the following two periods respectively:
 - a) Up to 31 December 2012 (first commitment period); and
 - b) From 1 January 2013 onwards.
3. Calculate the achieved GHG emission reductions or net GHG removals by sinks proportionally for each period. In cases where annual caps were applied in the calculations, prorate the annual caps to each period.

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

1. Provide a comparison of actual GHG emission reductions or net GHG removal of the project activity achieved during this monitoring period with the estimates in the registered PDD.

E.6. Remarks on difference from estimated value in registered PDD

1. Explain the cause of any increase in the actual GHG emission reductions achieved during this monitoring period based on the applicable provision for calculation of GHG emission reductions in the Project standard.

Appendix 1. Contact information of project participants and responsible persons/entities

- | |
|--|
| 1. In accordance with section A.6 above, complete the table, with the following mandatory fields: Project participant and/or responsible person/entity, Organization, Street/P.O. Box, City, Postcode, Country, Telephone, Fax, E-mail and Name of contact person. Copy and paste the table as needed. |
|--|

- - - - -

Document information

| <i>Version</i> | <i>Date</i> | <i>Description</i> |
|-----------------------------|-----------------|--|
| 05.1 | 4 May 2015 | Editorial revision to correct version numbering. |
| 05.0 | 1 April 2015 | Revisions to: <ul style="list-style-type: none"> • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement. |
| 04.0 | 25 June 2014 | Revisions to: <ul style="list-style-type: none"> • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement. |
| 03.2 | 5 November 2013 | Editorial revision to correct table in page 1. |
| 03.1 | 2 January 2013 | Editorial revision to correct table in section E.5. |
| 03.0 | 3 December 2012 | Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11). |
| 02.0 | 13 March 2012 | Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20). |
| 01 | 28 May 2010 | EB 54, Annex 34. Initial adoption. |
| Decision Class: Regulatory | | |
| Document Type: Form | | |
| Business Function: Issuance | | |
| Keywords: monitoring report | | |