




Validation report form for post-registration changes for CDM project activities

(Version 01.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for post-registration changes for CDM project activities" at the end of this form.

VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

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| Title and reference number of the project activity | Grid connected electricity generation from renewable source: Windfarm Complex Santa Vitória do Palmar and Chuí |
| Process track | <input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period |
| Version number of the validation report on PRCs | 02 |
| Completion date of the validation report on PRCs | 28 September 2017 |
| Type(s) of PRCs | <input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered project activity <input checked="" type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input checked="" type="checkbox"/> Changes to the project design of a registered project activity <input type="checkbox"/> Types of changes specific to afforestation and reforestation project activities |
| Version number of PDD to which this report applies | 04 |
| Project participant(s) | Santa Vitória do Palmar Holding S.A. Chuí Holding S.A. WayCarbon Soluções Ambientais e Projetos de Carbono Ltda. |
| Host Party | Brazil |
| Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s) | Sectoral scope 01- – Energy industry (renewable source) ACM0002 - Consolidated baseline methodology for grid-connected electricity generation from renewable sources (version 12.2.0) |

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| Name of DOE | ERM Certification and Verification Services |
| Name, position and signature of the approver of the validation report on PRCs |  Melanie Eddis, Partner |

SECTION A. Executive summary

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The Project Participant, Santa Vitória do Palmar Holding S.A., has requested ERM CVS to conduct a validation of one or more of the changes referred to in 8.3.4 and 8.3.5 of the Project Standard for Project Activities (version 01.0) and CDM Validation and Verification Standard for Project Activities (version 01.0) that have occurred to the project activity after its registration. ERM CVS has therefore prepared this assessment opinion on the changes in accordance with the CDM Validation and Verification Standard for Project Activities (version 01.0), which included reviewing the changes during the verification site visit and conducting interviews on site, followed by telephonic interviews with relevant personnel, and a review of the revised PDD, revised monitoring plan (part of the revised PDD), revised CER spreadsheet, revised IRR or financial additionality spreadsheet.

In accordance with paragraph 247 and Appendix of the Project Standard for Project Activities, ERM CVS is combining the request for approval of the post-registration changes with the request for issuance of CERs (the issuance track).

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation team member

| No. | Role | Type of resource | Last name | First name | Affiliation (e.g. name of central or other office of DOE or outsourced entity) | Involvement in | | | |
|-----|-------------------------------------|------------------|-----------|------------|---|----------------|--------------------|--------------|---------------------|
| | | | | | | Desk review | On-site inspection | Interview(s) | Validation findings |
| 1. | Lead Validator (PRC) | IR | Seelam | Sushmita | ERM CVS London | Y | N | Y | Y |
| 2. | Lead Verifier and support validator | EI | Correa | Alice | ERM Brasil | Y | Y | Y | Y |

B.2. Technical reviewer and approver of the validation report on PRCs

| No. | Role | Type of resource | Last name | First name | Affiliation (e.g. name of central or other office of DOE or outsourced entity) |
|-----|--------------------|------------------|-----------|------------|---|
| 1. | Technical reviewer | IR | Avis | Jonathan | ERM CVS London |
| 2. | Approver | IR | Eddis | Melanie | ERM CVS London |

SECTION C. Means of validation**C.1. Desk review**

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In carrying out its validation work, ERM CVS has:

- (a) Determined whether the post registration changes proposed to the project activity comply with the requirements of the project standard for project activities, the applicability conditions of the selected methodology and guidance issued by the Board;
- (b) Assessed the claims and assumptions made in the revised project design document (PDD), revised emission reduction calculation (CER) spreadsheet, revised IRR or financial analysis spreadsheet etc. The evidence used in this assessment has not been limited to that provided by the project participants.

The validation was carried out in accordance with the most recent version of the VVS for Project Activities. The validation process employed standard auditing techniques and undertook necessary cross-checks and follow-up actions to ascertain the correctness of the information. The validation team included staff with experience in the relevant technical areas within the sectoral scope, and financial expertise where relevant. The validation report and associated documents have undergone a thorough technical review by ERM CVS before being submitted to the CDM Executive Board for registration. The validation consisted of the following key stages:

- Review of documentation including revised PDD, revised CER spreadsheet, revised IRR or financial analysis spreadsheet, methodology and key supporting documents and references
- Development of a draft validation report, identifying non-compliances including Corrective Action Requests (CARs) and Clarification Requests (CLs) where applicable, taking into account findings of the document review
- Resolution of outstanding issues (CARs and CLs) (where applicable) and development of a final PRC validation report and validation opinion
- Independent technical review and report approval

Document Review:

A detailed document review of the PDD, CER calculation spreadsheet, IRR or financial additionality, methodology and all other associated documentation and references took place in conjunction with the site visit (which was conducted on 27th and 29th June 2017, and additional documents that were not available for the desk review were requested for review during & after the site visit. The document review includes:

- A review of data and information to verify the correctness, credibility and interpretation of presented information;
- Cross checks between information provided in the PDD and information from other sources, not limited to those provided by the PPs, applying ERM CVS's sectoral or local expertise and, if necessary, with independent background investigations;
- Reference to available information relating to PDDs, projects or technologies similar to the registered project;
- Review, based on the approved methodology being applied, of the appropriateness of formulae and accuracy of calculations

Where the review of the PoA-DD at the document review stage raised issues, these were further reviewed and validated through supporting documentation and cross-checking from other sources and interviewing the CME and relevant personnel involved in the PoA during the site visit. During the document review the project team also compared the proposed PoA with available information relating to PoAs, projects or technologies similar to the proposed CDM PoA under validation. Where appropriate, the validation team assessed the appropriateness of formulae and the correctness of calculations presented by the PPs. A list of all documents reviewed or referred to in the course of this validation is included in Appendix 3.

C.2. On-site inspection

| Duration of on-site inspection: 27 and 29 June 2017 | | | | |
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| No. | Activity performed on-site | Site location | Date | Team member |
| 1. | An assessment of the project implementation and operation as per the registered PDD /03/ (including site walk through to confirm physical existence and operation of project components) or any approved revised PDD; | Chui and St Vitoria do Palmar facilities and head office of PP in the city of Florianopolis | 27 and 29 June 2017 | Alice Correa (site visit) Sushmita Seelam (interviews by phone) |
| 2. | Review of information flows for generating, aggregating and reporting the monitoring parameters; | | | |
| 3. | Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan /04/. A list of all interviewees is included in Section C.3. | | | |
| 4. | A cross-check between information provided in the monitoring report /1/ and data from other sources such as log books, inventories, purchase records or similar data sources to establish the existence of a clear audit trail and records that validate or invalidate the stated data; | | | |
| 5. | A check of monitoring equipment including calibration performance and observations of the monitoring practices against the requirements of the PDD /03/ and the selected methodology(is) and corresponding tool(s), where applicable; | | | |
| 6. | A review of calculations and assumptions made in determining the GHG data and emission reductions; | | | |
| 7. | Identification of quality control procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters | | | |

C.3. Interviews

| No. | Interviewee | | | Date | Subject | Team member |
|-----|-------------|------------|-------------------------|---------------------|--|--|
| | Last name | First name | Affiliation | | | |
| 1. | Rates | Breno | WayCarbon (consultants) | 27 and 29 June 2017 | Project History Calibration Calculations Site tour PRC related information – Design Changes and Permanent changes to the Monitoring Plan | Alice Correa (site visit) Sushmita Seelam (interviews by phone) |

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| 2. | Aroeira | Isabela | WayCarbon (consultants) | 27 and 29 June 2017 | Project History Calibration Calculations Site tour PRC related information – Design Changes and Permanent changes to the Monitoring Plan |
| 3. | Soares | Marcelo | Eólicas do Sul | 27 and 29 June 2017 | Project History Calibration and maintenance Site tour PRC related information – Design Changes and Permanent changes to the Monitoring Plan |
| 4. | Lopez | Mauricio | Eólicas do Sul | 27 and 29 June 2017 | Project History Organization Structure Data extraction and invoice procedures PRC related information – Design Changes and Permanent changes to the Monitoring Plan |
| 5. | Noce | Augusto | Eólicas do Sul | 29 June 2017 | Licensing and environmental programs |
| 6. | Oliveira | Luciano | Eólicas do Sul | 29 June 2017 | Data extraction and invoice procedures – implication of permanent changes to invoicing procedures |

C.4. Clarification requests, corrective action requests and forward action requests raised

| Areas of validation findings | No. of CL | No. of CAR | No. of FAR |
|---|-----------|------------|------------|
| Compliance with PDD form | | | |
| Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline | | | |
| Corrections | | | |
| Changes to the start date of the crediting period | | | |
| Inclusion of a monitoring plan to a registered project | | | |

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| activity | | | |
| Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline | | | |
| Changes to the project design of a registered project activity | | CAR 01 | |
| Types of changes specific to afforestation and reforestation project activities | | | |
| Others (please specify) | | | |
| Total | 0 | 1 | 0 |

SECTION D. Validation findings

D.1. Compliance with PDD form

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| Means of validation | The DOE is required to assess if a revised PDD (in both clean and track-change versions) using the valid version of the applicable PDD form (CDM-PDD-FORM, CDMAR-PDD-FORM or CDM-CCS-PDD-FORM) is submitted, except in case of temporary deviations from the registered monitoring plan, applied methodologies or standardized baselines. |
| Findings | Yes. ERM CVS confirms that a revised PDD (in both clean and track-change versions) has been submitted using the valid version of the applicable PDD form (CDM-PDD-FORM) version 10.1 under the new regulatory framework (Version 01.0 for VVS for Project Activities, Project Standard for Project Activities and Project Cycle Procedure for Project Activities). |
| Conclusion | ERM CVS has confirmed that the PDD has been prepared in accordance with the latest relevant forms and guidance. |

D.2. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

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| Means of validation | N/A |
| Findings | N/A |
| Conclusion | N/A |

D.3. Corrections

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| Means of validation | N/A |
| Findings | N/A |
| Conclusion | N/A |

D.4. Changes to the start date of the crediting period

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|----------------------------|-----|
| Means of validation | N/A |
| Findings | N/A |
| Conclusion | N/A |

D.5. Inclusion of a monitoring plan to a registered project activity

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| Means of validation | N/A |
| Findings | N/A |
| Conclusion | N/A |

D.6. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

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| Means of validation | Where there are permanent changes from the registered monitoring plan, in accordance with the VVS for Project Activities: 296. The DOE shall determine whether there are permanent changes to the registered monitoring plan, or whether the monitoring permanently deviates from the applied methodologies, standardized baselines, or other applied standards or tools, and, if there |
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| | <p>are, determine whether the permanent changes or the deviation comply with the relevant requirements in the “CDM project standard for project activities”.</p> <p>297. The DOE shall determine whether the changes to the registered monitoring plan described in the revised PDD are in compliance with the applied methodologies, standardized baselines and other applied standards or tools, and do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.</p> <p>298. The DOE shall determine whether the permanent changes to the registered monitoring plan or the permanent deviation of the monitoring from the applied methodologies, standardized baselines, or other applied standards or tools are likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals. If the DOE considers that the permanent changes will lead to a reduction in the accuracy of the calculation, the DOE shall request the project participants to apply conservative assumptions or discount factors to the calculations to the extent required to ensure that GHG emission reductions or net anthropogenic GHG removals will not be overestimated as a result of the permanent change or deviation.</p> <p>299. The DOE shall state its opinion on whether the permanent changes or deviation comply with the relevant requirements related to the permanent changes to the registered monitoring plan, or to the permanent deviation from the applied methodologies, standardized baselines or other applied standards or tools in the “CDM project standard for project activities”.</p> |
| Findings | <p><u>1. Change in the meter used to calculate $EG_{PJ,y}$</u></p> <p>During the verification site visit, ERM CVS was made aware of a change in the metering system used to calculate a monitored parameter, $EG_{PJ,y}$. ERM CVS notes that the registered version of the PDD states two pairs of meters (one pair includes a main meter and a backup meter) would monitor the electricity supplied to the grid. These meters are located at the Santa Vitória do Palmar Substation and would be the ones used to monitor the parameter $EG_{PJ,y}$. However, as per figure 1 below, these meters measure the generated electricity prior to its transformation from 138 kV to 525 kV.</p> <p>The PP proposed that a third metering pair (please refer to figure 2) that measures the generated electricity after the transformation to 525 kV, which is the voltage in which the electricity is actually supplied to the grid – is therefore better suited to measure the amount of energy supplied to the grid /C.3/. ERM CVS interviewed staff on the ground, studied the metering plans on site /C.3/ and visited the substations during the site visit to confirm this information. Furthermore, the two metering pairs, and the third metering pair (also referred to as SPA TF3) are confirmed to have the same specifications (including accuracy etc.)/28/. Based on the review of Service and Calibration Reports, ERM CVS also confirms that the meters were designed and implemented in accordance of the Brazilian Association of Technical Standards (Associação Brasileira de Normas Técnicas – ABNT) and meet the requirements of ONS and the criteria established in the registered PDD.</p> <p>In light of this, and considering that the third metering pair is the one used by the Electricity Commercialization Chamber (<i>Câmara de Comercialização de Energia Elétrica</i> - CEEE) to account / invoice electricity sales to the PP, ERM CVS agrees that the third metering pair is more appropriate meter to measure parameter $EG_{PJ,y}$ as it will result in a figure that subtracts transformation losses, and therefore more conservative.</p> <p>The revised monitoring in the revised PDD therefore uses the third meter pair (also referred to as SPA TF3) that monitors the generated electricity after its transformation to 525 kV as the metering point used to monitor the parameter $EG_{PJ,y}$ and to calculate the emission reductions of the project activity.</p> <p>The figure below (Figure 1) represents the meter’s configuration described in the registered version of the PDD, followed by Figure 2, representing the actual system configuration, containing the meter pair that measures the generated electricity after the transformation to 525kV (SPA TF3).</p> |

ERM CVS denotes this as a permanent change from the registered monitoring plan – a post registration change, in line with section 8.3.4 of the Project Standard for Project Activities and VVS for Project Activities.

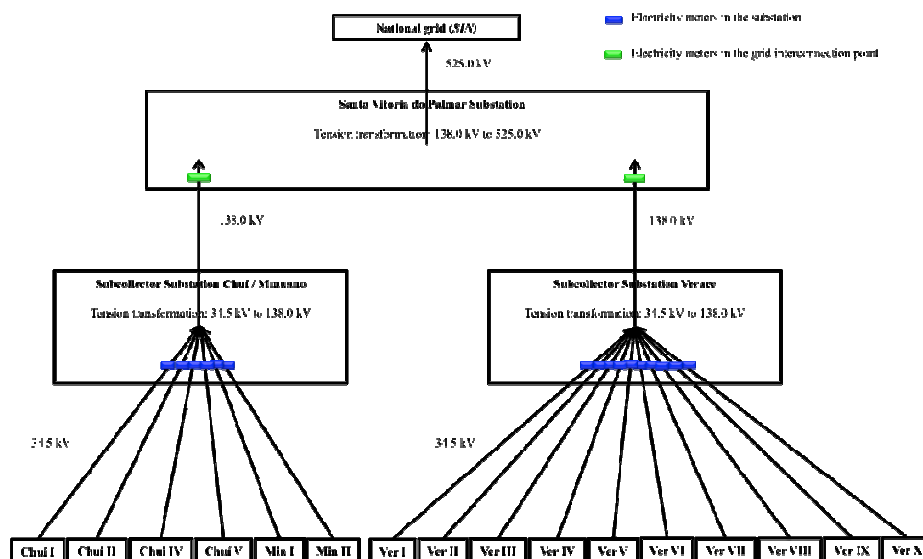


Figure 1: Simplified diagram described in the registered version of the PDD.

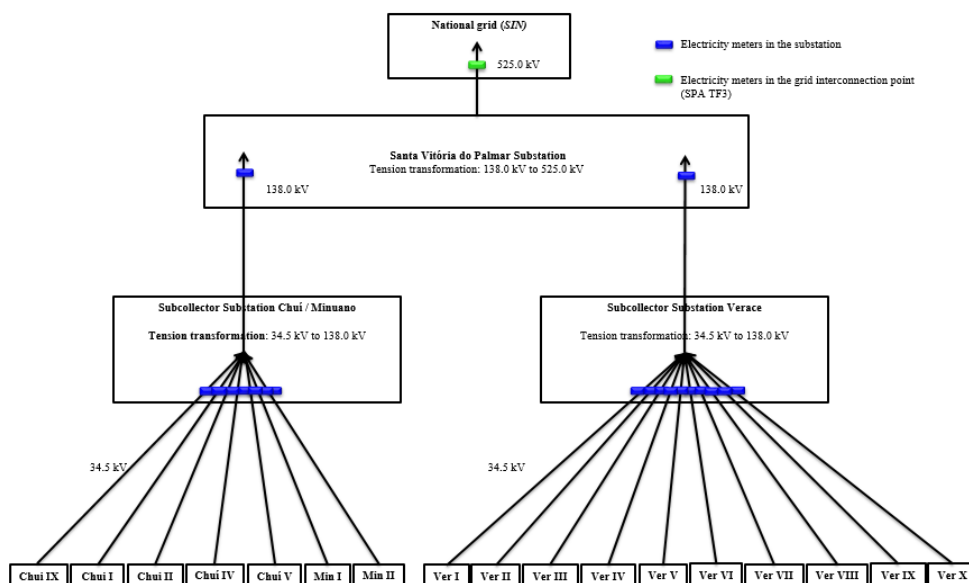


Figure 2: Simplified diagram of actual system configuration, indicating the delivery point (SPA TF3).

2. Pro-rating of $EG_{PJ,Y}$

During the verification site visit, ERM CVS was made aware of a further change in the quantification of the monitored parameter, $EG_{PJ,Y}$.

ERM CVS learnt that another wind power facility, namely CHUI IX (not included in the project activity), was connected to the substation Chui/Minuano, where the project activity's facilities CHUI I, CHUI II, CHUI IV, CHUI V, Minuano I and Minuano II are connected to /C.3/. Please refer to the above figure 2 for a diagrammatic representation

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| | <p>of the Chui IX facility and its input into substation Chui/Minuano. As a result, the energy generated by Chui IX adds up to the energy generated by all other Chui and Minuano facilities entering the grid together at the Santa Vitoria do Palmar Substations via the SPA TF3 meter (which also includes the contribution of the Verace facilities). Thus the readings of SPA TF3 include Chui IX contribution, and this needs to be excluded to conservatively estimate the emission reductions from the project activity. In order to exclude Chui IX from the ER calculations, the PP has established a pro-rated procedure to estimate the electricity generated once the readings at SPA TF3 are noted – where the reading account for transmission losses within the whole system (this is important since transmission losses until the Santa Vitoria do Palmar Substation exclusively associated to Chui IX cannot be measured). ERM CVS confirms that the prorating procedures is technically sound and results in a realistic and conservative result in terms of emission reductions. The pro-rating formula is as follows:</p> $EG_{P,J,y} = \sum_h \{ EG_{SPA\ TF3,h} * \sum_{project_facility} (EG_{project_facility,h}) / [\sum_{project_facility} (EG_{project_facility,h}) + EG_{Chui\ 9,h}] \}$ <p>Where:</p> <p>$EG_{P,J,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the CDM project activity (MWh/yr);</p> <p>$EG_{SPA\ TF3,h}$ = Hourly electricity generation measured by the meter SPA TF3 (MWh/hour);</p> <p>$EG_{project_facility,h}$ = Hourly electricity generation by the project plants (CHUI I, CHUI II, CHUI IV, CHUI V, Minuano I, Minuano II, Verace I, Verace II, Verace III, Verace IV, Verace V, Verace VI, Verace VII, Verace VIII, Verace IX, Verace X) measured by their respective individual meters located at subcollector substations Chui / Minuano or Verace (MWh/hour);</p> <p>$EG_{Chui\ 9,h}$ = Hourly electricity generation by CHUI IX measured by its individual meters located at subcollector substations Chui / Minuano (MWh/hour).</p> <p>As described in the registered PDD, an analogous procedure is adopted by CCEE/34/ in order to account / invoice the electricity sales by each individual facility. For information on how parameter $EG_{P,J,y}$ was monitored for the current verification period, please refer to Appendix 5 of the CDM-VCR-FORM.</p> <p>ERM CVS denotes this as another permanent change from the registered monitoring plan – a post registration change, in line with section 8.3.4 of the Project Standard for Project Activities and VVS for Project Activities.</p> |
| Conclusion | ERM CVS therefore deems the permanent changes from the registered monitoring plan are in compliance with section 8.3.4 of the Project Standard for Project Activities and VVS for Project Activities. |

D.7. Changes to the project design of a registered project activity

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| Means of validation | <p>Where there are design changes of a registered project activity, in accordance with the VVS for Project Activities:</p> <p>300. The DOE shall determine whether there are proposed or actual changes to the project design of a registered CDM project activity, and, if there are, determine whether the changes comply with the relevant requirements in the “CDM project standard for project activities”.</p> <p>301. In case of actual changes, the DOE shall, by means of an on-site inspection and review of the submitted revised PDD by the project participants that describes the nature and extent of the actual changes, determine whether this description accurately reflects the implementation, operation and monitoring of the modified CDM project activity.</p> |
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| | <p>302. By means of an on-site inspection or other means of validation, the DOE shall assess the impacts of the actual changes in the monitoring plan, the level of accuracy of the monitoring activity, the applied methodologies including applicable tools and/or, where applicable, the applied standardized baselines.</p> <p>303. The DOE shall, by means of reviewing the revised PDD against applicable additionality and methodological requirements, determine whether the proposed or actual changes would adversely affect the conclusions of the validation report of the registered PDD with regard to:</p> <ul style="list-style-type: none"> a) Additionality of the registered CDM project activity; b) Scale of the registered CDM project activity; c) Applicability and application of the approved methodologies and, where applicable, the approved standardized baselines under which the CDM project activity has been registered; d) The compliance of the monitoring plan with the applied methodologies and, where applicable, the applied standardized baselines. <p>304. If the proposed or actual changes affect the additionality of the registered CDM project activity, the DOE shall confirm that:</p> <ul style="list-style-type: none"> a) If investment analysis has been used to demonstrate additionality, the project participants have only modified the key parameters in the original spreadsheet calculations affected by the proposed or actual changes to the project activity; b) If only barriers have been claimed to demonstrate additionality, the project participants have demonstrated that the barriers are still valid under the new circumstances. |
| Findings | <p>During the verification site visit under taken by ERM CVS, it was noted that the aero-generator model used for the Chui and Minuano plants were different to those detailed in the registered PDD. At the time of project registration, the PP planned to install IMPSA IWP-100 type aero-generators (also referred to as IMPSA generators in this report) for Chui I, II, IV, V, Minuano I and II facilities /03/, however ERM CVS noted that the aero-generators actually used by the PP were different – the PP installed GAMESA G97 generators in the above 6 facilities instead of the IMPSA generators stated in the registered PDD. Incidentally, GAMESA G97 is the same type of generator used by the other facilities under the project activity, namely Verace I, II, III, IV, V, VI, VII, VIII, IX and X facilities /03/.</p> <p>ERM CVS therefore concludes that during the implementation of the registered project 8012, in using GAMESA G97 generators in the 6 facilities (Chui I, II, IV, V and Minuano I, II) instead of the IMPSA generators stated in the registered PDD, the project underwent design changes – a post registration change.</p> <p>The PP presented an implementation timeline in the revised PDD and provided their justification for the design changes/03/. As per the timeline of implementation for the project, the PP signed contracts with GAMESA & Schahin (insurance company) for their Verace I-X facilities/47/. ERM CVS checked these contracts and confirms that the date of signing of these contracts, 09 August 2012, is date of earliest real action, construction or implementation for the project – therefore it is confirmed to be the start date for the project. ERM CVS also checked that this was followed by PP signing contracts with IMPSA & Schahin for their Chui and Minuano facilities in November 2012/48/. Soon after, IMPSA incurred financial difficulties, and went bankrupt/41/, and when it became clear that IMPSA will not be financially able to deliver its commitment (i.e. deliver the aero-generators to the project), the PP terminated its contract with IMPSA as its supplier for the Chui and Minuano facilities/45/, and signed contracts with GAMESA instead for the Chui and Minuano facilities as they were able to deliver the generators on time for the Verace facilities/46/. The plants were constructed and began operations in February 2015 (Verace I-X), May 2015 (Chui I, II, IV) and April 2015 (Chui V, Minuano I& II) respectively. ERM CVS was able to check the above mentioned documents on site and confirm the status of implementation with personnel on site/C.3/.</p> |

In accordance with Paragraph 243 of the Project Standard, the PP was requested to report on how the design changes impact a) the applicability and application of the applied methodologies, b) on the compliance of the monitoring plan with the applied methodologies, c) on the level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan, d) on the additionality of the project activity and e) on the scale of the project activity.

Furthermore, in accordance with Paragraph 244 of the Project Standard, the PP was requested to demonstrate the impact of the changes on the additionality based on all original input data. More specifically, since investment analysis was used in the registered PDD, the project participants are required to (only) modify the key parameters in the original spreadsheet calculations affected by the proposed or actual changes to the project activity and demonstrate how the additionality is impacted. PP was requested to update the registered PDD, original ER spreadsheet and original Investment Analysis (for Chui & Minuano facilities) with the above mentioned changes and demonstrate compliance with the Project Standard. All updated values or changes to the original registered values need to be referenced and justified for validation purposes.

CAR 01 was raised.

In response to the CAR, the PP provided more information in the revised PDD/03/, and provided ERM CVS with the updated CER spreadsheet/37/ and the updated IRR spreadsheet for the Chui and Minuano facilities/38/. How ERM CVS validated this information in detail is described below.

Firstly, in order to check the effect of the design change on the project, ERM CVS confirmed via a document review that both the original IMPSA generators and the replacement GAMESA generators have the same installed capacity – i.e. 2 MW each /46/48/. ERM CVS also checked the name plate capacity when examining the generators on site and confirmed that all of the replacement generators in Chui and Minuano facilities i.e. 72 turbines in total, are all 2 MW each. Therefore it could be confirmed that there was no increase or decrease of installation capacity in relation to the Chui and Minuano facilities from the capacity stated in the registered PDD and that the scale of the project activity remains unchanged/03/. ERM CVS further checked the EREDA report commissioned by the PP to determine generation capacity by the new GAMESA generators, and noted that due to a lower plant load factor (or PLF - efficiency factor) of the GAMESA generators, the total PLF of the Chui and Minuano facilities was reduced to 44.4% from the figure that was set out in the registered PDD, i.e. 46.2% /42/. The resulting net (operating) capacity of the Chui and Minuano facilities decreased from 185.6 MW to 178.5 MW/42/. ERM CVS checked that the PP has updated the expected emission reduction calculation spreadsheet for the project activity/37/ and the CER number for the project activity due to the post registration change is reduced to 616,133 tCO₂e in comparison with the CERs under the registered PDD i.e. 640,706 tCO₂e.

Secondly, in order to check the effect of the design change on the additionality of the project, ERM CVS checked the updated IRR spreadsheet for the Chui and Minuano facilities /38/. It was confirmed that the investment analysis was modified with the input values that were available to the PP at the time of investment decision. i.e. the costs related to GAMESA generators that the PP had available at the time of the investment decision (i.e. since GAMESA generators were used for Verace I-X facilities/39/) were included. ERM CVS checked the revised costs for the new generators /43/ inputted into the revised investment analysis i.e. R\$ 4455704.16 per generator (multiplied by 72 in total), and confirmed that it is accurate and appropriately included. It was also noted that the costs of civil works, substations, transmission lines, trenching (for Chui and Minuano facilities) etc. is not impacted by the change in generators /44/ and therefore remained the same. Furthermore, the previous IMPSA generators also benefited from 5 years extended warranty, which was not applicable to GAMESA generators and therefore the associated costs were removed from the updated investment analysis spreadsheet/38/. ERM CVS was also able to cross check the above costs related

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| | <p>information via. Interviews on site and over telephone calls/C.3/. In addition to the change in costs related to the WTGs, ERM CVS also checked that the energy delivered to the grid from Chui and Minuano facilities was also modified appropriately in the IRR spreadsheet in line with the EREDA report /42/.</p> <p>With the above modifications to the IRR spreadsheet, ERM CVS was able to check that the IRR for Chui and Minuano facilities comes out to be 4.94% - lower than that of the original IRR for these facilities (6.97%) /38/ and lower than that of the benchmark for the project activity i.e. 14.75% /40/. In addition, sensitivity analyses with a variation from -10% to +10% performed with the following items: gross revenue, capital expenditures and operational expenditures were also performed and confirmed that they continue to present a lower IRR than the benchmark rate/38/. Therefore ERM CVS was able to confirm that the additionality of the project is not adversely affected.</p> <p>ERM CVS also checked to confirm if the above mentioned design changes had any implications on the eligibility of the methodology applied/06/. In accordance with the applicability conditions of ACM0002 version 12.2.0, the project activity consists of the installation of a grid-connected renewable power generation facility at a site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield project) – this still applies to the project activity. Since the project does not consist of capacity additions, retrofits or replacements (it is a green field project), or any fuel switch (it is a renewable energy project), or a biomass fired/ hydro power project (it is a wind power project) – it continues to meet all the eligibility criteria of the applicable methodology.</p> <p>ERM CVS also confirmed that there were no changes to the monitoring of the project due to the design change of the project /C.3/03/. Therefore the compliance of the monitoring plan with the applied methodologies has not been impacted and the monitoring plan of the project is in compliance with ACM0002 version 12.2.0. Moreover, the level of accuracy and completeness in the monitoring of the project activity is the same as the requirements contained in the registered monitoring plan.</p> <p>ERM CVS therefore deems the design change is in compliance with section 8.3.5 of the Project Standard for Project Activities and VVS for Project Activities. CAR 01 is closed.</p> |
| Conclusion | ERM CVS therefore deems the design change is in compliance with section 8.3.5 of the Project Standard for Project Activities and VVS for Project Activities. |

D.8. Types of changes specific to afforestation and reforestation project activities

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|----------------------------|-----|
| Means of validation | N/A |
| Findings | N/A |
| Conclusion | N/A |

SECTION E. Internal quality control

>>

The process of validation and decision of the validation team has been subject to an independent Technical Review. The scope of the Technical Review process is to independently assess that all procedures have been followed, necessary requirements have been met, and all conclusions are justified. The final validation decision is based on the findings and conclusions of the validation team, assessing the compliance of the Project Activity with the relevant CDM requirements, and the technical evaluation of the independent technical reviewer. The final report is then reviewed and approved by the qualified signatory / final decision maker within ERM CVS.

SECTION F. Validation opinion

>>

ERM CVS based its validation work on:

- CDM Validation and Verification Standard (VVS) for project activities, version 1.0
- CDM Project Standard (PS) and Project Cycle Procedure (PCP) for project activities, versions 1.0
- ERM CVS's internal CDM validation methodologies and templates
- UNFCCC criteria referred to in the Kyoto Protocol criteria and the CDM modalities and procedures as agreed in the Bonn Agreement and the Marrakech Accords
- Relevant decisions, guidance and clarifications of the CMP and CDM Executive Board and any other information and references relevant to the project activity's reported emission reductions

ERM CVS conducted its activities in accordance with the CDM Validation and Verification Standard for Project Activities. The validation consisted of a review of project documentation, a site visit, interviews with relevant personnel, cross checking information through other reliable sources and reporting. Where necessary, Clarification Requests and Corrective Action Requests were raised and closed out with the Project participants. The validation work was subject to detailed Technical Review and assessment prior to submission. No component of the post registration changes was excluded from the validation.

As per the VVS for Project Activities, the DOE shall state its opinion on whether the permanent changes comply with the relevant requirements related to 8.3.4 'Permanent changes from the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools' and 8.3.5 'Changes to project design' in the Project Standard for Project Activities. ERM CVS has confirmed that the requirements of the project standard have been complied with, as follows:

- The permanent changes to the registered monitoring plan comply with the relevant requirements in the "CDM project standard for project activities".
- The changes to the registered monitoring plan described in the revised PDD are in compliance with the applied methodologies, standardized baselines and other applied standards or tools, and do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.
- The permanent changes to the registered monitoring plan are not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals. ERM CVS confirms that the project participants have applied conservative assumptions or discount factors to the calculations to the extent required to ensure that GHG emission reductions or net anthropogenic GHG removals will not be overestimated as a result of the permanent change or deviation.
- ERM CVS confirms that the permanent changes comply with the relevant requirements related to the permanent changes to the registered monitoring plan, or to the permanent deviation from the applied methodologies, standardized baselines or other applied standards or tools in the "CDM project standard for project activities".
- The actual changes to the project design of a registered CDM project activity comply with the relevant requirements in the "CDM project standard for project activities".
- ERM CVS has, by means of an on-site inspection and review of the submitted revised PDD by the project participants that describes the nature and extent of the actual changes, confirmed that the description accurately reflects the implementation, operation and monitoring of the modified CDM project activity.
- ERM CVS has, by means of an on-site inspection or other means of validation, assessed the impacts of the actual changes in the monitoring plan, the level of accuracy of the monitoring activity, the applied methodologies including applicable tools and/or, where applicable, the applied standardized baselines.
- ERM CVS has, by means of reviewing the revised PDD against applicable additionality and methodological requirements, determined that the actual changes would not adversely

affect the conclusions of the validation report of the registered PDD with regard to: a) Additionality of the registered CDM project activity; b) Scale of the registered CDM project activity; c) Applicability and application of the approved methodologies and, where applicable, the approved standardized baselines under which the CDM project activity has been registered; d) The compliance of the monitoring plan with the applied methodologies and, where applicable, the applied standardized baselines.

- Since the actual changes affect the additionality of the registered CDM project activity, ERM CVS has confirmed that with reference to investment analysis, the project participants have only modified the key parameters in the original spreadsheet calculations affected by the proposed or actual changes to the project activity
- The PP has identified and documented all actual or proposed changes to the operation, implementation and/or monitoring of the registered CDM project activity.
- The PP has prepared a revised PDD (in both track-change and clean versions) using the valid version of the applicable PDD forms. The PP has provided a summary of the changes, including the reasons for the changes and any additional information relating to the changes in the PDD.

Appendix 1. Abbreviations

| Abbreviations | Full texts |
|---------------------------------------|--|
| CAR | Corrective Action Request |
| CDM | Clean Development Mechanism |
| EB | Executive Board |
| CER | Certified Emission Reduction(s) |
| CL | Clarification Request |
| CO ₂ | Carbon Dioxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| DNA | Designated National Authority |
| DOE | Designated Operational Entity |
| ER | Emission Reduction |
| FAR | Forward Action Request |
| GHG | Greenhouse Gas |
| GWP | Global Warming Potential |
| IPCC | Intergovernmental Panel on Climate Change |
| PCP | Project Cycle Procedure |
| PDD | Project Design Document |
| PP | Project Participant |
| PS | Project Standard |
| QA/QC | Quality Assurance / Quality Control |
| UNFCCC | United Nations Framework Convention for Climate Change |
| VVS | CDM Validation and Verification Standard |
| Project specific abbreviations | |
| CCEE | Brazilian Electric Energy Commercialization Chamber (<i>Câmara de Comercialização de Energia Elétrica</i>) |
| ONS | National Operator of the Electric System (<i>Operador Nacional do Sistema Elétrico</i>). |

Appendix 2. Competence of team members and technical reviewers

Sushmita Seelam is a Lead Assessor and a Client Account Manager (CAM) based in London and has been with ERM CVS since July 2012. She is involved in conducting validations and verifications for CDM & Gold Standard Projects and Programmes of Activities (PoAs) under Scope 1: Energy industries (renewable/non-renewable sources), Scope 3: Energy demand, as well as in GHG Assurance projects and EU-ETS engagements in various sectors. Prior to ERM CVS, Sushmita had been working in the sustainability consulting service industry for three years. As a consultant, she has been involved in the development of over 25 CDM and VCS projects in various sectors. Her work also involves research and experience in supply chain evaluation, resource footprinting and life cycle assessment of commodities, with a focus on water and GHG footprinting for sectors such as global energy, agricultural commodities etc. Sushmita holds a B.E. in Environmental Engineering and an MSc in Environment and Sustainable Development. She has also completed the ERM CVS CDM validation and verification training and the CDM Gold Standard training.

Alice Correa has been working in the Climate Change field since 2010 and has more than 20 years of professional experience in the environmental area. She has been involved in

environmental audits and is experienced in developing documents and management system compatible with ISO 14001, OSHAS 18001, Ecuador Principles among others. She has conducted more than 100 projects associated to environmental audits/assessments for companies in diverse business sectors including chemical industries and has developed of GHG inventory for tobacco industry, which included the agricultural and processing activities. She has training as Lead Assessor for Mergers & Acquisitions, Auditing, Foundation Course in Environmental Auditing (EARA registered) and Advanced Environmental Management System Auditor. She is a civil engineer and has a Ph.D. in Engineering from the University of São Paulo and M.Sc. Environmental Sanitation (Chemical Engineering) from the University of Gent, Belgium.

Jonathan Avis is CDM Business Manager for ERM CVS, and a GHG Assessor and Technical Reviewer with over 10 years of experience in the CDM, Gold Standard and VCS. Since joining ERM CVS Jonathan has worked as a Technical Reviewer or GHG Assessor on more than 50 CDM validations in Renewable Energy (scope 1), more than 10 CDM validations in Manufacturing Industries (scope 04), 10 CDM validations in Mining (scope 8), and 10 CDM validations in Waste Handling and Disposal (scope 13). Jonathan's previous work experience involved screening and due diligence of carbon projects, Project Design Document (POA-DD & CPA-DD) development, quality assurance and technical review of CDM and GS project documentation, the development of carbon monitoring plans, and management of carbon projects through the validation, registration and verification stages. Jonathan has completed the ERM CVS CDM training as well as the GHGMI Renewable Energy training and Gold Standard training. Jonathan holds a BA in Geography and an MSc in Environmental Change and Management from the University of Oxford.

Appendix 3. Documents reviewed or referenced

| No. | Author | Title | References to the document | Provider |
|-----|--------|--|---|----------|
| 1 | PP | Monitoring Report for 'Grid connected electricity generation from renewable source: Windfarm Complex Santa Vitória do Palmar and Chuí. Version 01 (made publicly available), dated 26 May, 2017 Version 02 (final), dated 12 July 2017 | | PP |
| 2 | PP | ER calculation spreadsheet Version 01 dated 26 May, 2017 Version 02 (final), dated 15 April 2017 | | PP |
| 3 | PP | Project Design Document: Grid connected electricity generation from renewable source: Windfarm Complex Santa Vitória do Palmar and Chuí, version 03 dated 22 June, 2012 Revised Project Design Document: Grid connected electricity generation from renewable source: Windfarm Complex Santa Vitória do Palmar and Chuí, version 04 dated 24 September 2017 | http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view | Others |

| | | | | |
|----|---|--|---|--------|
| 4 | PP | Monitoring Plan included in the registered PDD, version 03 dated 22 June, 2012 Revised Monitoring Plan included in the revised PDD, version 04 dated 24 September 2017 | http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view | Others |
| 5 | TUV Nord Certification | Validation Report: Validation report prepared by Tuv Nord for Grid connected electricity generation from renewable source: Windfarm Complex Santa Vitória do Palmar and Chui, version 0.1, dated 26 October, 2012 | http://cdm.unfccc.int/filestorage/x/w/Z6YD7INP2XKHQUWF8ERS3VJ0ABCG54.pdf/8012%20FVaIR.pdf?t=aU98b3dtcHU0fDD8l69wnnetC101VX-o60Dy | Others |
| 6 | UNFCCC | Approved Methodology and methodological tools applied for the project: ACM0002: “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, Version 12.2.0. “Tool to calculate the emission factor for an electricity system”. Latest approved version at the time of conclusion of this monitoring report: 05.5; | http://cdm.unfccc.int/methodologies/DB/8W400U6E7LFHHYH2C4JR1RJWWO4PVN | Others |
| 7 | UNFCCC | Project view page on the UNFCCC website http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view | | Others |
| 8 | UNFCCC | CDM validation and verification standard for project activities (VVS), Version 01.0 | https://cdm.unfccc.int/filestorage/e/x/t/extfile-20170502114945594-reg_stan06.pdf/reg_stan06.pdf?t=anZ8b3dtcHg1fDDk61acNEONhz oG-ysZ5VOB | Others |
| 9 | Eletrobras/Eletrosul and Cam/GyM | Chui I Service and calibration reports | | PP |
| 10 | Eletrobras/Eletrosul and Cam/GyM | Chui II Service and calibration reports | | PP |
| 11 | Eletrobras/Eletrosul and Power Logistic | Chui IV Service and calibration reports | | PP |
| 12 | Eletrobras/Eletrosul and Cam/GyM | Chui V Service and calibration reports | | PP |
| 13 | Eletrobras/Eletrosul and Cam/GyM | Chui III (also named as IX) Service and calibration reports | | PP |
| 14 | Eletrobras/Eletrosul and | Minuano I Service and calibration reports | | PP |

| | | | | |
|----|--|---|---|----|
| | Cam/GyM | | | |
| 15 | Eletrobras/ Eletrosul and Cam/GyM | Minuano II Service and calibration reports | | PP |
| 16 | Eletrobras/ Eletrosul and Cam/GyM | Verace I Service and calibration reports | | PP |
| 17 | Eletrobras/ Eletrosul and Cam/GyM | Verace II Service and calibration reports | | PP |
| 18 | Eletrobras/ Eletrosul and Cam/GyM | Verace III Service and calibration reports | | PP |
| 19 | Eletrobras/ Eletrosul and Cam/GyM | Verace IV Service and calibration reports | | PP |
| 20 | Eletrobras/ Eletrosul and Cam/GyM | Verace V Service and calibration reports | | PP |
| 21 | Eletrobras/ Eletrosul and Cam/GyM | Verace VI Service and calibration reports | | PP |
| 22 | Eletrobras/ Eletrosul and Cam/GyM | Verace VII Service and calibration reports | | PP |
| 23 | Eletrobras/ Eletrosul and Cam/GyM | Verace VIII Service and calibration reports | | PP |
| 24 | Eletrobras/ Eletrosul and Cam/GyM | Verace IX Service and calibration reports | | PP |
| 25 | Eletrobras/ Eletrosul and Cam/GyM | Verace X Service and calibration reports | | PP |
| 26 | Eletrobras/ Eletrosul and Cam/GyM | Meter SPA TF# 525 KV (main and back-up) Service and calibration reports | | PP |
| 27 | INMetro | Eletrobras/Eletrosul Accreditation Certificate issued by National metrology authority | | PP |
| 28 | Schneider Electric | Manual of Meter model ION 8650 | | PP |
| 29 | ONS | National Operator of the Electric System - Grid Procedures | http://apps05.ons.org.br/procedimentorede/procedimento_rede/procedimento_rede.aspx | - |
| 30 | FEPAM | Environmental Operating License for Chui I, II, IV and V | | PP |
| 31 | IBAMA | Environmental Operating License for Minuano 1 and 2 | | PP |

| | | | | |
|----|-----------------|--|--|----|
| 32 | FEPAM | Environmental Operating License Verace I to X | | PP |
| 33 | ONS | National Operator of the Electric System – Grip Procedures /Calibration Procedures (sub-módulo 12.3 – Anexo 1) | http://apps05.ons.org.br/procedimento/rede/procedimento_rede.aspx (Módulo 12 – Medição para Faturamento/ Submódulo 12.3) | - |
| 34 | CCEE | System of Energy Data Collection (<i>Sistema de Coleta de Dados de Energia – SCDE</i>) of CCEE - Official data on the delivered energy to the grid. | https://www.ccee.org.br/portal/faces/pages_publico/inicio?_afLoop=178227081494811 (based on password access) | - |
| 35 | MCTi | <i>Files with emission factors of the Brazilian Grid for the Operation Margin – 2015 and 2016</i> | http://www.mct.gov.br/upd_blob/0242/242332.htm http://www.mct.gov.br/upd_blob/0239/239592.htm | - |
| 36 | MCTi | <i>Files with emission factors of the Brazilian Grid for the Build Margin -2015 and 2016</i> | http://www.mct.gov.br/index.php/content/view/303069.html | - |
| 37 | PP | Original Emission Reduction calculation (CER) spreadsheet – for the registered project Updated Emission Reduction calculation (CER) spreadsheet | Appendix 5 on project view page: http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view 24 September 2017 | PP |
| 38 | PP | Original Financial Additionality Spreadsheet for Chui and Minuano Facilities – for the registered project Updated Financial Additionality Spreadsheet for Chui and Minuano Facilities (with GAMESA generator) | Appendix 1 on project view page: http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view 24 September 2017 | PP |
| 39 | PP | Original Financial Additionality Spreadsheet for Verace Facilities – for the registered project | Appendix 2 on project view page: http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view | PP |
| 40 | PP | Benchmark Analysis – for the registered project | Appendix 3 on project view page: http://cdm.unfccc.int/Projects/DB/RWTUV1351861126.92/view | PP |
| 41 | Others | Information on IMPSA Bankruptcy Caso Impsa_ Energia Inteligente.PDF FalenciaIMPSA.PDF | 27 July 2015 22 January 2016 | PP |
| 42 | EREDA and Aenor | Study on energy production by GAMESA generators (Certification of Anemometric Data and Annual Production): IT-1402-MBF-CertificacionProduccionChui-05.PDF | February 2014 | PP |
| 43 | Others | Costs of GAMESA generator: | 17 August 2011 | PP |

| | | | | |
|----|--|---|---|----|
| | | GamesaBudget_20110817.PDF | | |
| 44 | Others | <p>Documents detailing Insurance costs incurred by the PP at the time of Decision Making:</p> <p>ABB_CommercialProposal_20110816.PDF</p> <p>Schahin_20110817.PDF</p> <p>Schahin_NegotiatedCosts_20110819.PDF</p> | <p>16 August 2011</p> <p>17 August 2011</p> <p>19 August 2011</p> | PP |
| 45 | PP & IMPSA | Termination of contract with IMPSA Termo de Acordo – IMPSA | Entered into force 24 September 2013 | PP |
| 46 | PP & GAMESA, Schahin for Chui and Minuano facilities | <p>Contract between PP and GAMESA</p> <p>EOL CH CH VII 253 2013-253A1 EPC CHUI</p> <p>EOL CH CH VI 252 2013-252A1 EPC CHUI</p> <p>EOL CH CH V 251 2013-251A1 EPC CHUI</p> <p>EOL CH CH IV 250 2013-250A1 EPC CHUI</p> <p>EOL CH CH I 316 2014 EPC CHUI</p> <p>EOL CH CH II 317 2014 EPC CHUI</p> | <p>21 October 2013</p> <p>12 February 2014</p> | PP |
| 47 | PP & GAMESA, Schahin for Verace I-X facilities | <p>Contrato EPC - Geribatu X - EOL ST GB X 085 2012</p> <p>Contrato EPC - Geribatu VIII - EOL ST GB VIII 083 2012</p> <p>Contrato EPC - Geribatu VII - EOL ST GB VII 082 2012</p> <p>Contrato EPC - Geribatu VI - EOL ST GB VI 081 2012</p> <p>Contrato EPC - Geribatu V - EOL ST GB V 080 2012</p> <p>Contrato EPC - Geribatu IX - EOL ST GB IX 084 2012</p> <p>Contrato EPC - Geribatu IV - EOL ST GB IV 079 2012</p> <p>Contrato EPC - Geribatu III - EOL ST GB III 078 2012</p> <p>Contrato EPC - Geribatu II - EOL ST GB II 077 2012</p> <p>Contrato EPC - Geribatu I - EOL ST GB I 076 2012</p> | 09 August 2012 | PP |
| 48 | PP & IMPSA, Schahin for Chui & Minuano facilities | <p>EOL CH CHVII 108 2012 CONSÓRCIO EPC</p> <p>EOL CH CHV 144 2012 - CONSÓRCIO EPC</p> <p>EOL CH CH VI 145 2012 - CONSÓRCIO EPC</p> <p>EOL CH CH IV 143 2012 - CONSÓRCIO EPC</p> | 23 November 2012 | PP |

| | | | | |
|--|--|--|--|--|
| | | EOL CH CH II 142 2012 - CONSÓRCIO EPC | | |
| | | EOL CH CH I 141 2012 - CONSÓRCIO EPC | | |

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation

| CL ID | xx | Section no. | | Date: DD/MM/YYYY |
|--|----|-------------|--|-------------------------|
| Description of CL | | | | |
| <i>No CLs were raised</i> | | | | |
| Project participant response | | | | Date: DD/MM/YYYY |
| | | | | |
| Documentation provided by project participant | | | | |
| | | | | |
| DOE assessment | | | | Date: DD/MM/YYYY |
| | | | | |

Table 2. CAR from this validation

| CAR ID | 01 | Section no. | D.7. | Date: 06 July 2017 |
|---|----|-------------|------|-----------------------------|
| Description of CAR | | | | |
| <p>During the implementation of the registered project 8012, the project underwent design changes in relation to the aero-generators used for 6 facilities (Chui I, II, IV, V and Minuano I, II). The PP implemented GAMESA G97 generators in these 6 facilities instead of the IMPSA IWP-100 generators stated in the registered PDD.</p> <p>In accordance with Paragraph 243 of the Project Standard, the PP is required to report on how the design changes impact a) the applicability and application of the applied methodologies, b) on the compliance of the monitoring plan with the applied methodologies, c) on the level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan, d) on the additionality of the project activity and e) on the scale of the project activity.</p> <p>Furthermore, in accordance with Paragraph 244 of the Project Standard, the PP is required to demonstrate the impact of the changes on the additionality based on all original input data. More specifically, since investment analysis was used in the registered PDD, the project participants are required to (only) modify the key parameters in the original spreadsheet calculations affected by the proposed or actual changes to the project activity and demonstrate how the additionality is impacted.</p> <p>PP is requested to update the registered PDD, original ER spreadsheet and original Investment Analysis (for Chui & Minuano facilities) with the above mentioned changes and demonstrate compliance with the Project Standard. All updated values or changes to the original registered values need to be referenced and justified for validation purposes.</p> | | | | |
| Project participant response | | | | Date: 25 August 2017 |
| <p><i>In accordance with paragraph 243 of the Project Standard, in Appendix 7 of the revised PDD version all impacts related to the design changes were reported and discussed.</i></p> <p><i>Also, the impact of the change on the additionality was demonstrated by modifying only the key parameters in the original spreadsheet calculations, in order to prove that the changes in the project configuration did not adversely impact the additionality of the project activity.</i></p> <p><i>The original ER spreadsheet was also revised with EG ex ante parameters for GAMESA turbines.</i></p> <p><i>The PDD was updated with the above mentioned changes.</i></p> | | | | |

Documentation provided by project participant

-Revised PDD
 - Revised additionality spreadsheet: "8012 Financial Analysis_Chui-Minuano GAMESA"
 - Revised ER spreadsheet: "8012 CER CalculationGAMESA"
 - Document to evidence the financial analysis updated numbers: "GamesaBudget_20110817"
 - Document to evidence the Gamesa WTG energy production: "IT-1402-MBF-CertificacionProduccionChui-05"
 - Documents to evidence that the company IMPSA went bankrupt: "Caso Impsa_ Energia Inteligente" and "FalenciaIMPESA"
 ABB_CommercialProposal_20110816
 Schahin_20110817
 Schahin_NegotiatedCosts_20110819

DOE assessment**Date:** 25 September 2017

CAR 01 was closed.

Please refer to section D.7 for further information on how the issue was addressed, reviewed and closed by ERM CVS.

Table 3. FAR from this validation

| FAR ID | xx | Section no. | Date: DD/MM/YYYY |
|--|-----------|--------------------|-------------------------|
| Description of FAR | | | |
| | | | |
| Project participant response | | | Date: DD/MM/YYYY |
| | | | |
| Documentation provided by project participant | | | |
| | | | |
| DOE assessment | | | Date: DD/MM/YYYY |
| | | | |

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Document information

| <i>Version</i> | <i>Date</i> | <i>Description</i> |
|---|---------------|----------------------|
| 01.0 | 23 March 2015 | Initial publication. |
| Decision Class: Regulatory | | |
| Document Type: Form | | |
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