

Quality Control (QC) report

Sector	Power
Name of DNA	DNA of Republic of Benin (General Direction of Climate Change) Ministry of Environment Living and Sustainable Development
Primary Person Responsible for QC Procedures	Mr. Ibila DJIBRIL
Contact info of the Primary Person Responsible	Directeur Général des Changements Climatiques, Point Focal National Changements Climatiques Email : idjibril@yahoo.fr Tel : +229 97 98 94 38 / +229 21 31 50 81 Cotonou, Benin
Implementation Dates of QC Procedures	From the date of submission of the SBL "fraction of Non Renewable Biomass" in July 2016 and for the duration of the SBL after approval. The same will be applicable for the renewal process of the SBL.
Please describe how your QC procedures were implemented	
<p>All needed information has been sourced from the documents below:</p> <ol style="list-style-type: none"> 1. UNFCCC - CDM - Executive Board, «EB 67 Report - Annex 22» 2010. 2. FAO, «Forest Resource Assessment (FRA) 2010» 2010. 3. IPCC, «Guidelines for National Greenhouse Gas Inventories, Volume 4, Chapter 4, Table 4.9,» 2006. 4. Direction générale des forêts et ressources naturelles; Centre national de télédétection; Office national du bois; Centre d'études, de recherches et de formation forestières, «Rapport de collecte de données pour l'élaboration des inventaires de gaz à effet de serre» 2015. 5. Gouvernement du Bénin, «FRA2015 - Country report, Benin» 2015. 6. IPCC, «Good Practice Guidance for Land Use, Land-Use Change and Forestry» 2003. <p>All above data source are publicly available or archived electronically for at least 5 years by the Directorate General of Forest and Natural Resources (DGFRN) of the Ministry of Environment and Sustainable Development. DGFRN is the ultimate authority in Benin that keep track of forest development and distribution in the country and keeps accurate relevant data.</p> <p>A multidisciplinary team has been set up in Benin for data collection and reporting for GHG inventory in the LULUCF, including forest sector. The team is composed by representatives of national authorities active in the forest sector: DGFRN; Center for forestry study, research and training (CERF); National Center for remote sensing and environmental monitoring (CERF); Forest National Office (ONAB).</p> <p>The team is responsible – inter alia - for:</p> <ul style="list-style-type: none"> – collect activity data, emission factors and other parameters; – select the appropriate methods by considering best practices in the collection, uncertainty and time series consistency, etc. ; – carry out calculations of emissions / removals and drafting the text (spreadsheet calculation and inventory sections of text); – ensure that the requirements for emission factors and activity data appropriate to the methodological level are met; – perform uncertainty analysis; – apply quality control procedures to spreadsheets and text sections; – introduce revisions from the internal review; – document and archive all information used to produce the estimates of emissions and removals; – list the areas for improvement in the inventory; – participate in capacity building activities and exchange workshops on LULUCF. <p>As reported in the «Rapport de collecte de données pour l'élaboration des inventaires de gaz à effet de serre» 2015, the activity data on the areas of land and land use have been produced under the project "Land Use Land Cover" (LULC) engaged by USAID. This project was executed by the CENATEL in collaboration with the AGRHYMET Regional Centre and the United States Geological Survey (USGS). USGS expert controls whether the classification of</p>	

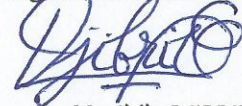
land use categories is consistent with the characteristics of images obtain with remote sensing. This helped ensure that the plant units were correctly identified in accordance with the reality on the ground. The final report was approved during a meeting that brought together the Directorate of Forests, Ministry of Forests, the Ministry for Agriculture, the faculties of Agronomy, Letters, Arts and Sciences, AGRHYMET Regional Centre and CILSS. Activity data on burned forest areas, commercial timber harvest, fuelwood and charcoal from FAOSTAT and are estimated from national sources. They were collected in the producing structures of data by national consultants. The reports on the wood energy of the Directorate General of The Energy were validated by national experts.
Please specify how the credibility of the data sources was checked.
The DNA has collected the information from national and regional regulations and databases, and relevant authorities in the country
Please specify how the accuracy of the data was checked.
The inventory work and selection of data used for the fNRB calculation was conducted in close collaboration with DGFRN experts in charge of forestry statistics, particularly during two face-to-face workshops on 14 March 2016 and 13 April 2016. All the assumptions and choices set for the default data use were discussed with the teams DGFRN after confirmation that more accurate data were not available.
Please specify how the consistency was achieved in particular where multiple secondary data sources were used
The consistency of the data has been checked against generation statistics from for previous years. The data proved to be completely consistent.
Please specify how the "Standard for data coverage and validity of standardized baselines" was complied with.
<p>The calculation of the fNRB for Benin used the most recent data available. Data on area covered by forest in Benin and protected forest areas have been sourced from:</p> <ul style="list-style-type: none"> – Report on data collection for the development of GHG inventory 2015, by DGFRN, Centre national de télédétection; Office national du bois; Centre d'études, de recherches et de formation forestières; and – FRA2015 - Country report, Benin,» 2015 <p>Coverage period and currentness of data follow the requirements specified in the methodological tool and the standard.</p>
Please specify how the completeness was achieved.
<p>The DNA has considered all existing relevant regulations, studies and databases in the country. The calculation methodology for the calculation of fNRB contained in the Information Note "Default values of fraction of non-renewable biomass for least developed countries and small island developing states". The methodology asks for specific parameters, data and information for the calculation of the fNRB. These data and information were all available through the above mentioned official sources in Benin. The data sources used include all relevant data and information in aggregate to produce "true and fair" fNRB value.</p>
Please specify how the transparency was achieved.
<p>A validation workshop was conducted on May 4, 2016 in Cotonou to consult all national parties concerned by the work on the fNRB. The entities represented at this workshop include:</p> <ul style="list-style-type: none"> – the Directorate General of Climate Change, – Directorate General for the Environment, – the General Directorate of Forestry and Natural Resources, – the Directorate General of Energy, the Designated National Authority for CDM in Benin – the National Committee on Climate Change, – The Designated National Authority of the Mechanism for Clean Development – the National Commission for Sustainable Development, – the Regional Centre for Collaboration of the UNFCCC, – Holders of energy access projects in Benin – the consultant appointed for carrying out the study (ENEA) <p>The workshop aimed to expose participants to the work carried out and the content of the methodology for calculating the fNRB to consult the parties concerned so that they can enrich the study by their remarks and amendments and finally validating the result of the study on the basis of the discussions during the workshop. A first version of the study report was provided to participants one week before the workshop.</p>

Please specify major issues and uncertainties identified during the QC procedures.
No major uncertainties have been identified.
Please specify major corrective actions taken during the QC procedures.
None, besides minor issues related to the definition of forests that was solved rapidly through the consultant and with the help from the UNFCCC Regional Collaboration Centre in Lomé.
Please justify the conservativeness of the approaches taken during the QC procedures
The approach follows the methodology for the calculation of fNRB contained in the Information Note "Default values of fraction of non-renewable biomass for least developed countries and small island developing states"; thus all conservative measures are already taken into account within the applied tool/methodology.
Please summarize key findings and present a plan to improve the data quality in future
The current data management system is sufficient to renew the fNRB calculation for Benin.

Date to of QC report finalization

Cotonou, 12th September 2016

Signature of the DNA



Mr. Ibila DJIBRIL,

Directeur Général des Changements
Climatiques,
Point Focal National Changements
Climatiques.