

Standardized Crediting Framework Senegal Pilot: Verification Report Template for Rural Electrification

Version history

Version	Date	Contents revised
1.0	02/02/2018	Initial adoption

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1. General Program Information

1	Program title:	ASER Rural Electrification Program
2	National Program Lead Institution:	Agence Sénégalaise d'Electrification Rurale (ASER)
3	Program ID#	001
4	SCF Pilot Methodology and version	Rural Electrification for Senegal, version 3.0
5	Listing Date (DD/MM/YYYY)	01/10/2016
6	Program Contact: Name	Ousmane Fall Sarr
7	Program Contact: Email	ofsarr@aser.sn
8	Program Contact: Phone	+221 (33) 8494714
9	Program Start Date (DD/MM/YYYY)	01/10/2016
10	Crediting Period Start Date (DD/MM/YYYY)	01/10/2016
11	Crediting Period End Date (DD/MM/YYYY)	31/12/2025
12	Date of submission of Verification Report Template	11/10/2019
13	Version of submitted Verification Report Template	1.0
14	Current monitoring period start date (DD/MM/YYYY)	01/10/2016
15	Current monitoring period end date (DD/MM/YYYY)	31/03/2018
	Date(s) of site visit (DD/MM/YYYY)	30/01/2019 – 01/02/2019
	Location of site visit	St. Louis

2. Verifier information

	Verifier Name	TÜV NORD CERT GmbH
	Oversight Body Accrediting Verifier	CDM Executive Board (EB)
	Expiration date of accreditation (if relevant)	31/08/2023
	Verifier Contact: Name	Rainer Winter
	Verifier Contact: Email	cdm@tuev-nord.de, rwinter@tuev-nord.de
	Verifier Contact: Phone	+ 49 201 825 3329/+ 49 160 888 0000

3. Conclusion of verification and level of assurance


Overall verification opinion	<input checked="" type="checkbox"/> Positive <input type="checkbox"/> Negative
Verified emission reductions for current monitoring period	[5,198] tCO ₂
Unqualified opinion	<input checked="" type="checkbox"/> Based on the process and procedure conducted, [TÜV NORD CERT GmbH] provides reasonable assurance that the emissions reductions for [ASER Rural Electrification Program] are: <ul style="list-style-type: none"> - Free from material errors and are a fair representation of the GHG data and information, and - Prepared in line with the related SCF Program Protocol, methodology and other guidance documents.
(If overall verification is negative, please check below and state reasons) <input type="checkbox"/> Qualified opinion <input type="checkbox"/> Adverse opinion <input type="checkbox"/> Disclaimer	[State reasons] Not applicable, as overall opinion is positive

4. Overview of verification results

Item	Verification requirements	No CAR or CL remaining
Compliance with listing template and methodology	The verifier determines the compliance of the program and its operation with the eligibility and other requirements of the listing template and applied methodology	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Implementation as per the Listing Template	The verifier assesses the status of the actual program and its operation in relation to the approved listing template	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Calibration frequency	Where relevant, the verifier determines whether the measuring equipment has been properly calibrated in line with the monitoring requirements and whether measured values are properly corrected, where necessary.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Data and calculation of emission reductions	The verifier assesses the data and calculations of GHG emission reductions achieved by the program by the application of the methodology, as well as the sampling approach, where relevant.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Avoiding double counting	The verifier confirms that the program is not registered in another crediting program, except in the case of the pilot program, which may be registered under the CDM.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

	Post-listing changes	The verifier confirms that any post-listing changes to the program do not comprise the program's compliance with the requirements of the listing template or applied methodology.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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5. Authorized signature

Authorised signatory	Title (Mr/Mrs/Ms/Dr): Mr.	
Last name: Winter	First name: Rainer	
Position/designation: Lead Verifier		
Specimen signature 	Date (11/10/2019):	

6. Verification team and other experts

	Name	Company	Function	Technical competence	On-site visit
<input checked="" type="checkbox"/> Mr <input type="checkbox"/> Ms	Rainer Winter	TN CERT GmbH	Lead Verifier	1/1.2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Mr <input type="checkbox"/> Ms	David Lubanga	TN CERT GmbH	Team Member	1/1.2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Mr <input type="checkbox"/> Ms	Kunal Rami	TN CERT GmbH	Technical Reviewer	1/1.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Mr <input type="checkbox"/> Ms					<input type="checkbox"/> Yes <input type="checkbox"/> No

Note: function = role of personnel in the verification such as team leader, team member, technical expert, or internal reviewer; technical competence = confirm that personnel have sufficient technical competence related to the program under verification. On-site visit = whether the expert participate in an on-site visit

7. Objectives and scope of verification

	<p><i>(Please explain the objectives and scope, including the dates of monitoring period covered, and dates/versions of monitoring templates covered.)</i></p> <p><u>Objectives and Scope:</u></p> <p>To verify that the programme has been implemented as described in the listing documents, monitored as per the approved monitoring plan, and that emission reductions are calculated without errors, or material misstatements.</p> <p>This verification report is prepared in accordance with the SCF Program protocol and the verification guidance version 1.0</p> <p>The DOE therefore confirms that: -</p> <ul style="list-style-type: none"> • the programme meets all the eligibility requirements • the programme has been implemented and operated as described in the listing design documents • the monitoring plan has been implemented in accordance with the applied approved SCF pilot methodology, i.e., Rural Electrification for Senegal, version 3.0 for the related grid emission factor. • the installed equipment essential for measuring parameters required for calculating emission reductions are calibrated appropriately • the monitoring system is in place and functional and allows an accurate estimation of generated GHG emission reductions • roles and responsibilities and QA/QC measures are in place to guarantee data quality <p><u>Monitoring period:</u></p> <p>Monitoring Period: 1 01/10/2016 – 31/03/2018</p> <p><u>Monitoring Report Template:</u></p> <p>Version 1.0</p>
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8. Means of verification, findings and conclusions based on reporting requirements

8.1 Compliance of the program implementation with requirements in the listing template and applied methodology

	Means of Verification
	The verification team checked the listing template and the applied SCF methodology against the programme implementation
	Findings
	<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i> No finding has been raised regarding program implementation
	Conclusions based on reporting requirements
	<i>(Please state conclusion based on reporting requirements)</i> The verification team can confirm that the SCF pilot program has been implemented in accordance with the listing template and the applicable SCF methodology

8.2 Implementation as per the Listing Template

	Means of Verification
	The verification team conducted an on-site assessment of the two concessions where grid extension has been implemented. The team conducted interviews, checked random meters, and gathered customer data covering the monitoring period. No customer sampling effort was conducted onsite. The information has been cross-checked with details in the listing template
	Findings
	<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i> No finding has been raised
	Conclusions based on reporting requirements
	<i>(Please state conclusion based on reporting requirements)</i> The program has been implemented as per listing template

8.3 Compliance of calibration frequency and correction of measured values with related requirements

	Means of Verification
	Not applicable These are mostly single-phase digital meters that are factory calibrated and sealed, hence, require no calibration. Malfunctioning meters will be detected and replaced
	Findings
	<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i>
	Conclusions based on reporting requirements
	<i>(Please state conclusion based on reporting requirements)</i>

8.4 Assessment of data and calculation of emission reductions

Means of Verification		
Parameters	Monitored values and dates of monitoring	Method to check values in the Monitoring Template and/or Monitoring Calculation Tool with sources
Number of new grid connections since the start of the program ($N_{G,y}$)	3,081 (01/10/2016 – 31/03/2018)	Checking the concessionaire billing system and directly downloading the connection data within the period. The same is compared with the data applied by ASER and the subsequent calculations
Average household electricity consumption in new grid connections since the start of the program ($EC_{G,i,y}$)	1.205 MWh/yr (01/10/2016 – 31/03/2018)	Checked from the applied data. The data obtained directly onsite is used by the verifier for recalculation and then comparison
Share of operational grid connections ($OS_{G,y}$)	100 (01/10/2016 – 31/03/2018)	Checking connections data as downloaded from the implementer's systems (Comasel). Cross-checking with raw data source delivered by the concessions
Findings		
<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i>		
CAR 01, CAR 03, & CAR 04		
Conclusions based on reporting requirements		
<i>(Please state conclusion based on reporting requirements, including non-material errors identified)</i>		
<p>The verifier can confirm that the set of data for the pilot monitoring period has been checked as extracted from the billing systems and is found to be complete and correctly applied in the monitoring calculation tool – version 1.2,</p> <p>Findings have been raised with regards to data application and calculation approaches. After corrections were done to the verifier's satisfaction, the verifier can conclude that the achieved emission reductions have been calculated without any material errors or misstatements.</p> <p>The following are the reference documents</p> <ol style="list-style-type: none"> 1. ASER Monitoring Calculation Tool Ver 3.0 190816" excel workbook 2. Comasel connections database Louga & Saint Louis-revised 190627 3. ASER Monitoring Calculation Tool Ver 3.0 190918 4. Tableau des Ventes CSL et CLG 2017 5. ASER Monitoring Report for Rural Electrification Ver 4.0 6. Verification Guidance Ver 1.0 		

8.5 Assessment of avoidance of double registration

[Note that during the SCF Pilot, registration of the pilot program under the CDM is allowed, as explained in the Verification Guidance and Program Protocol]

	Means of Verification
	The programme is the first listed under the SCF pilot. However, possibility of double-counting of grid connections in the two concessions shall be checked against the registered CDM PoA Senegal Rural Electrification Program (10411) – CPA-0002
	Findings
	<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i> No finding has been raised
	Conclusions based on reporting requirements
	<i>(Please state conclusion based on reporting requirements)</i> The programme is the first under the SCF pilot. Therefore, there's no possibility of double registration

8.6 Assessment of post-listing changes

[Note: as per the Verification Guidance, this is only relevant if there are changes to the program, but it still meets all of the requirements of the listing template and applied methodology. In that case, the revisions to the listing template may be noted here. If the program no longer meets the requirements, then it cannot be positively verified]

	Means of Verification
	No revisions to the listing template have occurred
	Findings
	<i>(Please state if CARs, CLs, or FARs are raised and how they are resolved)</i> No findings have been raised
	Conclusions based on reporting requirements
	<i>(Please state conclusion based on reporting requirements)</i> Not applicable

9. Assessment of response to remaining issues

An assessment of response to the remaining issues including FARs from the previous verification period, if appropriate

	This is the first periodic verification of the pilot project. There are no FARs raised in the course of this verification. Therefore, not applicable
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10. Future improvements and other issues

Where relevant, recommendations for improvement in accuracy and transparency of reporting; and robustness of data accounting and control processes. In addition, any other relevant information that the verifier may want to bring to attention to the Administrator.

	Verification Report template version 1.0
	1. The document itself is a template, differentiated only with revisions (versions).

	<p>Therefore, no need to refer to the same as a 'template'.</p> <ol style="list-style-type: none">2. The template needs to have a Findings section (Annex or Appendix)3. The template to have an executive summary /introduction section of the verification process, as required by the verification guidance4. The template to have a section of the verification process. In line with the verification guidance document5. A references section (documents checked or referred to). E.g excel data sheets/sets and guidelines and program notes,6. Section 4: Calibration frequency: A checkbox for Not applicable (N/A) is required as meters are factory calibrated7. Section 4: Include QA/QC procedures
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