



**Verified Carbon
Standard**

VERIFICATION REPORT FOR

GROUPED HYDROPOWER PLANTS IN
CHONGQING, YUNNAN, SICHUAN AND
GUIZHOU PROVINCES, P.R. CHINA



国检集团
National Test

Document Prepared By China Building Material Test and Certification Group
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Summary:

China Building Material Test and Certification Group Co., Ltd (CTC), commissioned by Swiss Carbon Value Ltd., has performed the eighth periodic verification of the Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China (hereafter referred to as “the Project”) covering the monitoring period from 26/06/2018 to 25/02/2020, on the basis of requirements of Verified Carbon Standard (VCS) Version 4.0.

The Project involves the installation and operation of 88 run-of-river hydropower plants in Chongqing, Sichuan, Guizhou and Yunnan Provinces, People’s Republic of China. The Project is expected to export annual electricity of 450,914 MWh and 356,851 MWh to the Central China Power Grid (CCPG) and Southern China Power Grid (SCPG) respectively utilizing renewable hydro resources. The project activity achieves greenhouse gas (GHG) emissions reductions by displacing electricity from existing fossil fuel based power plants and likely capacity additions within the given grid.

The Project has been registered as a VCS project (VCS Registration No. 438) under VCS 2007.1 using approved CDM methodology AMS-I.D- “Grid connected renewable electricity generation” (Version 13.0) with the first renewable crediting period from 28/03/2006 to 27/03/2016. And the project has been updated the second crediting period from 28/03/2016 to 27/03/2026 under Verified Carbon Standard (VCS) Version 3.7 using the approved CDM methodology AMS-I.D. “Grid connected renewable electricity generation” (Version 18.0) on 7th April 2017.

The verification process includes three phases:

- 1) Desk review of documents;
- 2) On-site visit and follow-up interviews;
- 3) Issuance of the final verification report and opinion.

CTC appointed a qualified verification team in accordance with internal procedures to perform the verification.

In the course of the verification, one Corrective Action Request (CAR) and one Clarification Request (CL) were raised.

As a result of this verification, the verification team confirms that:

- All operations of the Project are implemented and installed as planned and described in the validated Project Description;
- The registered monitoring plan is in accordance with the applied approved CDM methodology, i.e., AMS-I.D- "Grid connected renewable electricity generation" (Version 18.0).
- The implementation of monitoring is in compliance with the registered monitoring plan.
- The monitoring system is in place and functional;
- The installed equipment for measuring parameters required for calculating emission reductions are calibrated appropriately.

Based on the information observed and evaluated, the verification team confirms that the emission reductions are correctly calculated in the MR (Version 2.0 dated 26/05/2020).

In conclusion, it is CTC's opinion that the project activity "Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China", as described in the Monitoring Report (Version 2.0), meets all relevant requirements for VCS and all relevant host Party criteria. Hence, CTC is able to certify that the emission reductions from the Project during the monitoring period from 26/06/2018 to 25/02/2020 amount to 555,049 tCO₂e with 357,470 tCO₂e and 197,579 tCO₂e to CCPG and SCPG respectively, and requests issuance of the equivalent VCUs.

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1 INTRODUCTION

1.1 Objective

Swiss Carbon Value Ltd. has commissioned CTC to verify and provide a verification statement of the emission reductions of the Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China (hereafter referred to as “the Project”) which is located in Chongqing City, Sichuan Province, Guizhou Province and Yunnan Province, People’s Republic of China for the seventh monitoring period from 26/06/2018 to 25/02/2020. This monitoring period is the third monitoring period of the second crediting period following the seventh monitoring period from 26/09/2016 to 25/06/2018, on the basis of requirement of VCS Standard (Version 4.0) /5/ as well as criteria to provide for consistent project operations, monitoring and reporting.

CTC as the validation/verification body (VVB) of the Project has been accredited as a DOE by UNFCCC and also meets the competence requirements as set out in ISO 14065:2013 /10/.

Verification of emission reductions from a project activity is the independent review and ex post determination by VVB of the monitored reductions in GHG emissions during the reported monitoring period. The objectives of verification are to:

- a) Ensure that the project activity has been implemented and operated as per the updated VCS project description (updated VCS-PD) /3/ and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- b) Ensure that the monitoring report and other supporting documents provided are complete in accordance with the latest applicable version of Registration and Issuance Process /9/ and in accordance with the additional requirements stated by the VCS Association (VCSA);
- c) Ensure that actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology /6/;
- d) Evaluate the data recorded and stored as per the monitoring methodology /6/.

1.2 Scope and Criteria

The verification scope encompasses an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the CTC. The verification scope covers the relevant documents (e.g. the updated VCS-PD /3/, the monitoring plan, the VCS monitoring report (VCS-MR) /1/, the emission reduction calculation spreadsheet /2/, supporting documents available to the verifier and information collected through performing interviews and

during the on-site assessment, VCAS's requirements publicly available, relevant rules, including the host country legislation, etc.) to be independently reviewed, the Project geographical locations to be visited on-site, the related project local stakeholders to be interviewed with, and processes that are necessary to acquire objective evidence for the evaluation of the Project compliance to the VCS requirements and associated interpretations.

The above verification activities are conducted according to the VCS requirements. In doing so, the principles of accuracy and completeness, relevance, reliability and credibility were followed.

The verification is not meant to provide any consulting service towards the PPs. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project.

1.3 Level of Assurance

CTC has undertaken a reasonable assurance engagement in accordance with VCS Standard (Version 4.0) /5/. It requires a reasonable level of assurance in verification that GHG assertions are free of material errors, omissions and misrepresentations. The verification conclusion is based on the updated VCS-PD /3/, VCS-MR /1/, and supporting evidences made available to the verifier and information collected through performing interviews and during the on-site inspection.

1.4 Summary Description of the Project

The Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China is a grouped project, which consists of 88 run-of-river hydropower stations with a total installed capacity of 210.25 MW, and the maximum installed capacity of an individual power plant is 14 MW, spread widely across the less developed rural areas of southwestern China. There are four sub-groups (i.e. 9 projects are located in Yunnan Province, 60 in Chongqing City, 13 in Sichuan Province and 6 in Guizhou Province), which are determined by the geographical boundary.

The electricity generated from the Project will be supplied to Central China Power Grid (CCPG) and Southern China Power Grid (SCPG), where geographic and system boundaries can be clearly identified and information on the grid and calculation of baseline emissions is published and public available according to China DNA's Guidance on China Grid Baseline Emission Factors dated on 6th June 2016 /15/.

The CCPG and SCPG are both dominated by thermal power plants as per the China Electrical Power Yearbook 2012~2014 /13/. By exporting expected annual electricity of 450,914MWh and 356,851 MWh to the CCPG and SCPG respectively, the project activity achieves greenhouse gas (GHG) emissions reductions by displacing electricity from fossil fuel-based power plants connected to the grid.

According to the VCS website, the Project has been registered as a VCS project (VCS

Registration No. 438) on 08/06/2009 and the current eighth verification has been finalized for the monitoring period from 26/06/2018 to 25/02/2020. This monitoring period is the second monitoring period of second crediting period.

During the monitoring period from 26/06/2018 to 25/02/2020, the total GHG emission reductions generated by the Project are 555,049 tCO₂e, with 357,470 tCO₂e within the CCPG and 197,579 tCO₂e within the SCPG.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using CTC internal procedures.

CTC verified the Project against the requirements set in VCS /5//7//8//9/, and other relevant VCS requirements.

The following sections outline each step in more detail.

2.2 Document Review

A desk review of the updated VCS-PD /3/, the renew crediting period validation report /4/, the previous verification reports /18/, the registered VCS-PD /18/ and the registered validation report /18/, the applied monitoring methodology /6/, the VCS monitoring report (VCS-MR) /1/ and supporting documents was conducted by the verification team. The aim of the desk review of the documentation was to verify the completeness of the data and the information presented, to carry out the compliance check of the VCS-MR /1/ with respect to the monitoring plan and the applied methodology /6/. Particular attention was given to the sampling approach, the quality of the metering equipment including calibration requirements, the monitored data and its evidence, and the emission reduction calculation. The evaluation of data management and the quality

assurance and quality control system in the context of their influence on the generation and reporting of emission reductions was also conducted.

Appendix A of this report contains a complete list of all documents and proofs reviewed by the verification team.

2.3 Interviews

From 11/05/2020 to 14/05/2020, CTC performed an on-site assessment at the physical site of sampled individual projects of the Project.

The verification team verified that the actual implementation of the Project was as described in the updated VCS-PD /3/ and VCS-MR /1/. This included the review of the project operation based on the evidence of on-site observation and presented documents.

During the on-site assessment, the verification team has interviewed with key personnel from the Project owner (the project participant) and the consultancy.

The assessment content and topics/the persons interviewed at the on-site assessment were provided in the below table.

Date: 11/05/2020 to 14/05/2020	
Interview topics	Interviewed Organizations and persons
--The status of VCS project implementation. -- Any changes of the VCS project. -- The project on-site inspection —The evidences of construction status and operation of key equipment, parameters monitoring and data processing activities, monitor equipment and calibration. -- Monitoring data. --Quality Management; organizational structure, responsibilities and competencies; Internal QA/QC Management procedures and document control. --Compliance with National Laws and Regulations.	7. Chongqing Wanzhou Dengta Hydroelectric Plant Wang Shan, manager Huang Li, staff Li Lin, staff 12. Chongqing Wanzhou Puziling Hydroelectric Plant Liu Feng, manager Song Jia, staff 30. Baiyangping Hydroelectric Plant Yang Xu, manager Wang Hong, staff 38. Xinqiao Hydroelectric Plant Yang Yang, manager Li Da, electrician 49. Cheqingyan Hydroelectric Plant Hu Lin, manager Yang Quan, staff 53. Shilingyan Hydroelectric Plant Chen Baiqiang, manager Chen Yong, staff 66. Yangyan Hydroelectric Plant Yin Zhengsong, manager Chen Shui, electrician 69. Baiyang Hydroelectric Plant Liu Jianfeng, manager Yu Long, staff Chen Furong, staff 70.Xinmin Tailwater Stage II Hydroelectric Plant Fang Jiang, manager Wang Yifan, electrician 72. Dahegou Hydroelectric Project Chen Jun, manager Chen Qingsong, staff 73. Xinmin Stage II Hydroelectric Project Zheng Guohong, manager Liang Yongxin, staff 77. Mozigou Hydroelectric Plant Yang Hao, manager Huang Kang, electrician Wang Jiang, maintenance man

	85. Daihuanggou Hydroelectric Plant Fang Jiangshui, manager Du Jiang, maintenance man 86. Gaoqiaohe Hydroelectric Plant Wang Jiawu, manager Wang Yong, staff Zheng Jihua, electrician 87. Zhuyeshan Hydroelectric Station Wu Dequan, manager Song Wenzhe, staff 91. Dashi Stage III Hydroelectric Plant Shen Shichang, manager Huang Peiqing, staff Li Fuying, staff 94. Zhenyuan County Xiaojiehe Hydropower Station Zhang Jizhong, manager Fu Kaicong, staff 97. Yunnan Province Jinping County Mengqiao Village Datan Hydropower Station Li Shu, manager Fang Lan, electrician Wang Ren, maintenance man Wulong Small Hydropower Industry Association Hu Shihua, chairman Yigao Tiancheng Technology Co., Ltd. Xie Libin, General manager
-- Preparation of Monitoring Report. -- Compliance of the monitoring plan with the monitoring methodology -- Compliance of monitoring with the monitoring plan -- Assessment of data and calculation of GHG emission reductions	Swiss Carbon Value Ltd. Sui Yang, Project Manager

2.4 Site Inspections

The on-site assessment involved following activities,

- 1) An assessment of the implementation and operation of the project activity as per the updated VCS-PD /3/;
- 2) A review of information flows for generating, aggregating and reporting the monitoring parameters;
- 3) Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the approved monitoring plan;
- 4) A cross-check between information provided in the monitoring report /1/ and data from other sources such as operational records or similar data sources;
- 5) A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the updated VCS-PD /3/ and the selected methodology /6/;
- 6) A review of calculations and assumptions made in determining the GHG data and emission reductions;
- 7) An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

2.5 Resolution of Findings

During the verification of a project activity, to identify issues that need to be further elaborated upon, researched or added to in order to confirm that the project activity meets the VCS requirements and can achieve credible emission reductions, the verification team will issue a Corrective Action Request (CAR), a Clarification Request (CL) or a Forward Action Request (FAR) depending on different situations.

The objective of this phase of the verification is to resolve issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and

reporting of emission reductions prior to CTC's positive conclusion on the GHG emission reduction calculation.

Findings established during the verification can either be seen as a non-fulfilment of criteria ensuring the proper implementation of a project or where a risk to deliver high quality emission reductions is identified.

A Corrective Action Request (CAR) will be raised if one of the following occurs:

- (a) Non-compliance with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
- (b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- (c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- (d) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

A Clarification Request (CL) will be raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

A Forward Action Request (FAR) will be raised, for actions if the monitoring and reporting require attention and/or adjustment for the next verification period.

One CAR and one CL have been raised during the current 8th verification.

2.5.1 Forward Action Requests

No Forward Action Requests were raised during the current 8th verification.

2.6 Eligibility for Validation Activities

The VVB of "China Building Material Test and Certification Group Co., Ltd" commissioned by the project participant is one of eligible VVBs listed on the VCS website (<https://verra.org/project/china-classification-society-certification-company-CTC/>), and it holds the accreditation for validation/verification for the sectoral scope: "1. Energy (renewable/non-

renewable)", to which the project activity belongs. Therefore, CTC is eligible for the validation/verification of the project activity.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The verification team has checked the official website of other GHG Programs like CDM, GS VER, and is able to confirm that none of any individual project activities under the Grouped Project is included in any GHG programs or any other mechanisms that include GHG allowance trading. The net GHG emission reductions generated by the Grouped Project during this monitoring period have not been used for compliance under any emission trading programs or mechanisms. The Project have not sought or received any other form of GHG-related environmental credit during this monitoring period.

The Project has been registered as a VCS project, and it did not apply for any other approved or not approved GHG programs.

Therefore, the Verification Team confirms that the project is eligible to participate under the VCS Program.

3.2 Methodology Deviations

No deviation from the methodology is needed to be submitted.

3.3 Project Description Deviations

Through on-site interviews and document review, the verification team confirms that there are no project description deviations according to the updated PD /3/.

3.4 Grouped Project

There is no inclusion of new project activity instances into the Grouped Project in this monitoring

period.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

4.1.1 Project Implementation in accordance with the VCS PD

The proposed Grouped Project involves the installation and operation of 88 run-of-river hydropower plants in Chongqing City, Sichuan Province, Guizhou Province and Yunnan Province, People's Republic of China.

It was confirmed by site inspection of sampling projects in Chongqing City, Sichuan Province, Guizhou Province and Yunnan Province that all the individual projects were developed as run-of-river hydropower projects, consisting of water intake structure, the water conveyance system and the power house. The power generating technology, installed capacity, technical specifications of the water turbine generators and electricity delivering systems have been verified to be consistent with the updated VCS-PD /3/ by site assessment of the sampling projects.

Besides generating renewable energy electric power, the proposed Grouped Project will contribute positive effects for the local sustainable development through the following aspects:

- 1) To improve the local and regional economy development by providing electricity to meet its increasing demands;
- 2) To displace electricity from coal-fired power plants and thus directly reduces environmental pollution caused by the burning of coal;
- 3) To make greater commercial use of hydroelectric resources, increase tax revenue of the local government and income of local residents, improve local traffic conditions, boost local standard of living, create new job opportunities for local people and thus promote the sustainable development in the local regions.

Through document review, the verification team has verified that the project commissioning start date has been appropriately described in the monitoring report /1/ in accordance with the updated VCS-PD /3/.

Therefore, the verification team confirms that no data and/or variables presented in the monitoring report /1/ and the associated emission reduction calculations /2/ differ significantly from the ones stated in the updated VCS-PD /3/, which may lead to an increase in the emission reductions for this period in relation to the estimates in the updated VCS-PD /3/.

According to the updated VCS-PD /3/, the Project is a grouped project, and it consists of four sub-groups (i.e. 9 projects are located in Yunnan Province, 60 in Chongqing City, 13 in Sichuan Province and 6 in Guizhou Province), which are classified by geographical boundary.

The verification team has independently carried out a sampling approach for the Grouped Project according to the guideline set out in Annex A.2.4.6 of ISO 14064-3, Clause A.2.4.6.4. Since the monitoring data of 9 individual projects (i.e. project No. 1, 25, 29, 45, 74, 75, 76, 82, 93) are not available for verification and the project participant claimed zero emission reduction during this monitoring period, these projects are not included in the samples.

For projects located in Chongqing City, Sichuan Province, Guizhou Province and Yunnan Province, the verification team has visited the project sites by sampling method. By evaluating the potential risks (i.e. project types, installed capacity, estimated emission reductions, financial return rate and environmental impact) underlying the individual project activities, the verification team finally determined 18 sampling projects from the Grouped Project and carried out a complete verification of these 18 sampling projects as listed in the following tables.

Table 4-1 Sampling projects

Grid	Province	Number of Projects	Number of Samples Required	Sampling Project Serial No.
Central China Power Grid (CCPG)	Sichuan	13	4	77, 85, 86, 87
	Chongqing	60	8	7, 12, 30, 38, 49, 53, 66, 69
Southern China Power Grid (SCPG)	Yunnan	9	3	91, 94, 97
	Guizhou	6	3	70, 72, 73
Total Number of Projects		88	18	-

The verification team has confirmed by on-site assessment that the total generation capacity of the sampling projects are consistent with the updated VCS-PD /3/. The relevant evidence on how the GHG data were monitored and collected during the monitoring period (including monthly monitoring records, the electricity transaction receipts/electricity sales receipts, the accuracy and calibration of the electricity meters¹) have been reviewed during onsite assessment. The major technical specifications of the sampling projects have been verified during the site visit and listed in the table below and the team confirmed they are consistent with the updated VCS-PD /3/.

¹ The detailed references of each sampled project have been Listed in the Appendix A of this report.

Table 4-2 Verified Technical Specifications of the Water Turbine Generators (sampling projects)

No	Project Title	Project Owner	Major Generating Facilities	
7	Chongqing Wanzhou Dengta Hydroelectric Plant	Wanzhou Huiyin Hydropower Development Co., Ltd.	Capacity	0.25MW
			Hydro Turbine	HL820-WJ-60
			Generators	SFW250-10/850
12	Chongqing Wanzhou Puziling Hydroelectric Plant	Wanzhou Zhende Hydropower Development Co., Ltd.	Capacity	0.48MW
			Hydro Turbine	HZ240-W-50 HL820-WJ-65
			Generators	TSWN85/61-8 SFWE160-8/65
30	Baiyangping Hydroelectric Plant	Wulong Hongchao Hydropower Development Co., Ltd.	Capacity	0.32MW
			Hydro Turbine	XLA-W1*1.25
			Generators	SFW-320-850
38	Xinqiao Hydroelectric Plant	Wulong Boneng Electric Power Co., Ltd.	Capacity	0.4 MW
			Hydro Turbine	XJA—W50/1×12.5
			Generators	SFW400—6/850
49	Cheqingyan Hydroelectric Plant	Wulong Yuanquan Hydropower Co., Ltd.	Capacity	2×0.4MW
			Hydro Turbine	CJ22-W-70/1×9
			Generators	SFW-W400-8/850
53	Shilingyan Hydroelectric Plant	Wulong Pingqiaoshilingyan Hydroelectric Plant	Capacity	0.82 MW
			Hydro Turbine	HL110-WJ-50 XJA-W-40/1×10
			Generators	SFW-500-6/850 SFW-320-6/41
66	Yangyan Hydroelectric Plant	Wulong Sanyuan Hydroelectric Power Development Co., Ltd.	Capacity	2.5 MW
			Hydro Turbine	ZDT03-LH-225 IG103-6H-225
			Generators	SFW-1000-32/2600 SF250-32/250
69	Baiyang Hydroelectric Plant	Chongqing Wulong Yuxiang Water Resource	Capacity	2×2.5 MW
			Hydro Turbine	CJA237-W-100/1×11

		Development Co., Ltd.	Generators	SFW2500-8/17300
70	Xinmin Tailwater Stage II Hydroelectric Plant	Daozhenxianghe Hydropower Development Co., Ltd.	Capacity	1.26 MW
			Hydro Turbine	HLA153-WJ-500
			Generators	SFW – W630 – 6/990
72	Dahegou Hydroelectric Plant	Chongqing Fengyuanjinhui Hydropower Development Co., Ltd.	Capacity	5×0.63 MW
			Hydro Turbine	CJ237-9/1×5(2) CJ237-9/1×6(3)
			Generators	SFW630-6/990
73	Xinmin Stage II Hydroelectric Plant	Wulong Yuqian Comprehensive Development Co., Ltd.	Capacity	5.5MW
			Hydro Turbine	HLD54-WJ-78(2)
				HLD54-WJ-75(1)
			Generators	SFW-2000-6/1430(2)
				TYPEWEK1500-6/1431(1)
77	Mozigou Hydroelectric Plant	Yingjing Sanhe Mozigou Hydroelectric Plant	Capacity	2×0.63 MW
			Hydro Turbine	CJ475-W-85/1×8
			Generators	SFW-W630-8/990
85	Daihuanggou Hydroelectric Plant	Yingjing County Sanhe Daihuanggou Hydroelectric Plant	Capacity	2×4 MW
			Hydro Turbine	CJA237-W-110/2×9
			Generators	SFWE-K4000-8/1730
86	Gaoqiaohe Hydroelectric Plant	Sichuan Yingjing Gaoqiaohe Electric Power Co., Ltd.	Capacity	3×3.2 MW
			Hydro Turbine	HL110-WJ-92 HLD9-WJ-G2
			Generators	SFW3200-8/1730
87	Zhuyeshan Hydroelectric Plant	Sichuan E'bian Heizhugou Hydropower Co., Ltd.	Capacity	2×2.5MW
			Hydro Turbine	HLD261-WJ-75
			Generators	SFWE-K2500-6/1430
91	Dashi Stage III Hydroelectric Plant	Lingcang Runda Hydropower Co., Ltd.	Capacity	2×1.6MW
			Hydro Turbine	HL120-WJ-61

			Generators	HPWE-K1600-6/1180 SFWE-K1600-6/1430
94	Zhenyuan County Xiaojiehe Hydropower Station	Zhenyuan Yi, Hani and Lahu Autonomous County Xiaojiehe Hydropower Co., Ltd.	Capacity	2×2.5MW
			Hydro Turbine	HL110-WJ-78
			Generators	SFW2500-6/1430
97	Yunnan Province Jinping County Mengqiao Village Datan Hydropower Station	Jinping Mengqiao Datan Electricity Co. Ltd.	Capacity	2×5MW
			Hydro Turbine	HLC437-WJ-93
			Generators	SFW5000-8/2160

According to the updated VCS-PD /3/ and the emission reductions calculation spreadsheet /2/, the total net electricity export to Southern China Power Grid (SCPG) is the accumulated electricity supply by the individual projects that are located in Yunnan Province (i.e. project No. 90~98) and Guizhou Province (i.e. project No. 70, 71, 73, 74, 75). The total net electricity export to Central China Power Grid (CCPG) is the accumulated electricity supply by the individual projects that are located in Chongqing City (i.e. project No. 1~69 excluding 8, 14, 16, 17, 19, 20, 26, 43, 64) and Sichuan Province (i.e. project No. 76~88) and Guizhou Province (i.e. project No.72²). The total electricity export to SCPG and CCPG has been summarized in the emission reduction calculation spreadsheet /2/ and checked to be correctly accounted. The actual net electricity export to SCPG and CCPG is listed in the table below and compared with the estimated values in the updated VCS-PD /3/.

Table 4-3 Net Electricity Export to SCPG (Unit: MWh)

Year	Actual Net Electricity Export to SCPG (EG _{Export,y})	Estimated values in the Validated PD
2018 26/06/2018-31/12/2018	127,463.201	356,851×189/365=184,780.381
2019 01/01/2019-31/12/2019	244,091.453	356,851
2020 01/01/2020-25/02/2020	25,655.589	356,851×56/365=54,749.743
Total	397,210.243	596,381.123

² According to the power purchase agreement, the No.72 Dahegou Hydroelectric Plant is owned by Chongqing Feng Yuan Jin Hui Hydroelectric Development Limited Liability Company. The power is exported to CCPG by Chongqing Nanchuan power grid.

Note: The monitoring period within year 2018 and 2020 covers 189 days and 56 days respectively.

Table 4-4 Net Electricity Export to CCPG (Unit: MWh)

Year	Actual Net Electricity Export to CCPG($EG_{Export,y}$)	Estimated values in the Validated PD
2018 26/06/2018-31/12/2018	225,447.783	$450,914 \times 189 / 365 = 233,486.975$
2019 01/01/2019-31/12/2019	447,030.391	450,914
2020 01/01/2020-25/02/2020	42,314.384	$450,914 \times 56 / 365 = 69,070.860$
Total	714,822.559	753,471.835

Note: The monitoring period within year 2018 and 2020 covers 189 days and 56 days respectively.

From the tables above, the verification team confirms that the total net electricity exports to SCPG and CCPG are both less than the estimated values in the updated VCS-PD /3/ and therefore the team confirmed there are no changes of the Project from the updated VCS-PD /3/ that cause increase of emission reductions.

According to the information collected during on-site visit and the relevant evidence provided by project owner, CTC can confirm that no project design change occurred during the monitoring period and the Project was implemented in accordance the updated VCS-PD /3/.

4.1.2 Compliance of monitoring with the monitoring plan

The verification team has assessed the implementation of monitoring by the project owner against the registered monitoring plan. A short summary on the verification of every parameter listed in the monitoring plan and used for emission reduction calculation is provided below:

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in the monitoring plan of PD):	$EG_{PJ,y}$ The accumulated net electricity exported to the Southern China Power Grid by all the hydropower plants under the Project located in Yunnan Province and Guizhou Province in the year y
Measuring frequency:	Continuously measurement
Reporting frequency:	Monthly recorded
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
Type of monitoring equipment:	Gateway meters at each individual project

Is accuracy of the monitoring equipment as stated in the PD? If the PD does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise?	Yes. Accuracy level of monitoring meters is as described in the updated VCS- PD /3/. For details see Table 4-5.
Calibration frequency /interval:	Periodically as per relevant sectoral standards in China
Is the calibration interval in line with the monitoring plan of the PD? If the PD does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	Yes.
Company performing the calibration:	See Table 4-5
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	Yes.
Is(are) calibration(s) valid for the whole reporting period?	Yes. For details see Table 4-5.
If applicable, has the reported data been cross-checked with other available data?	Yes, the reported data has been cross-checked with the electricity transaction receipts in line with the updated VCS-PD /3/.
How were the values in the monitoring report verified?	The verification details have been reported in Section 4.2 of this report.
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	Not applicable.

Monitoring Parameter Requirement	Assessment/ Observation by the VVB
Data / Parameter: (as in monitoring plan of PD):	EG_{PJ,y} The accumulated net electricity exported to the Central China Power Grid by all the hydropower plants under the Project located in Chongqing City and Sichuan Province in the year y
Measuring frequency:	Continuously measurement
Reporting frequency:	Monthly recorded
Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes

Type of monitoring equipment:	Gateway meters at each individual project
Is accuracy of the monitoring equipment as stated in the PD? If the PD does not specify the accuracy of the monitoring equipment, does the monitoring equipment represent good monitoring practise?	Yes. Accuracy level of monitoring meters is as described in the updated PD /3/. For details see Table 4-5.
Calibration frequency /interval:	Periodically as per relevant sectoral standards in China
Is the calibration interval in line with the monitoring plan of the PD? If the PD does not specify the frequency of calibration, does the selected frequency represent good monitoring practise?	Yes.
Company performing the calibration:	See Table 4-5
Did calibration confirm proper functioning of monitoring equipment? (Yes / No):	Yes.
Is(are) calibration(s) valid for the whole reporting period?	Yes. For details see Table 4-5.
If applicable, has the reported data been cross-checked with other available data?	Yes, the reported data has been cross-checked with the electricity transaction receipts in line with the updated VCS-PD.
How were the values in the monitoring report verified?	The verification details have been reported in Section 4.2 of this report.
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes.
In case only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, has the most conservative assumption theoretically possible been applied or has a request for deviation been approved?	Not applicable.

Furthermore, the verification team has verified that the accuracy of measure of the monitoring equipment was set according to the requirements and all calibration procedures were carried out according to the monitoring plan and manufacturer specifications. The calibration information of all the sampling projects in this monitoring period has been listed in Table 4-5 below. The monitoring equipment has been installed in the project activity according to registered monitoring plan. In summary, the verification team is able to verify that the accuracy the monitoring equipments were set according to the registered monitoring plan and relevant sectoral standard of China.

Table 4-5 Verified calibration information of monitoring meters (sampling projects)

Project No.	Project title	Meter Serial No.	Meter Model Number	Accuracy Class	Calibration Certificate Serial No.	Calibration Entity	Calibration Date	Calibration Valid Until
7	Chongqing Wanzhou Dengta Hydroelectric Plant	253629	DSSD536	0.5S	032700012	Chongqing City Wanzhou Measurement Quality Testing Center	08/04/2015	07/04/2020
12	Chongqing Wanzhou Puziling Hydroelectric Plant	273471	DSSD536	0.5S	032700019	Chongqing City Wanzhou Measurement Quality Testing Center	13/08/2015	12/08/2020
30	Baiyangping Hydroelectric Plant	22130w0251780	DSSD323	0.2	/	Chongqing City Wulong County Power Supply Limited Company	28/04/2017	27/04/2020
38	Xinqiao Hydroelectric Plant	6016055007	DSZ188	0.5	/	Chongqing City Wulong County Power Supply Limited Company	25/02/2018	24/02/2021
49	Cheqingyan Hydroelectric Plant	6012872096	DSSD71	0.2	/	Chongqing City Wulong County Power Supply Limited Company	28/04/2017	27/04/2020
53	Shilingyan Hydroelectric Plant	6012584303	DSSD71	0.5	/	Chongqing City Wulong County Power Supply Limited Company	20/03/2018 20/03/2019	19/03/2019 19/03/2020
66	Yangyan Hydroelectric Plant	6015064504	DSZ331	0.5	2016111603763	No.6 Branch of Chongqing Academy of Metrology and Quality Inspection	16/11/2016	15/11/2022
69	Baiyang Hydroelectric Plant	6012693715	DSSD71	0.5S	/	Chongqing City Wulong County Power Supply Limited Company	01/08/2017 01/08/2019	31/07/2019 31/07/2021
70	Xinmin Tailwater Stage II Hydroelectric Plant	4011588921	DSSD323	0.2	/	Chongqing Fuling Electric Power Industrial Co., Ltd.	01/05/2018	30/04/2021

72	Dahegou Hydroelectric Plant	6011788924	DSSD71	0.5S	/	Chongqing City Wulong County Power Supply Limited Company	01/07/2017 01/07/2019	30/06/2019 30/06/2021
73	Xinmin Stage II Hydroelectric Plant	099512	ZFH405	0.5S	/	Chongqing Fuling Electric Power Industrial Co., Ltd.	01/08/2017 01/08/2019	31/07/2019 31/07/2021
77	Mozigou Hydroelectric Plant	328922	DSSD331	1.0	20180308	Ya'an Yingjing Power Supply Limited Company Metrological Verification Station	26/03/2018	25/03/2021
85	Daihuanggou Hydroelectric Plant	50003	DSSD331	1.0	20180416	Ya'an Yingjing Power Supply Limited Company Metrological Verification Station	26/04/2018	25/04/2020
86	Gaoqiaohe Hydroelectric Plant	500001	DSSD331	0.5	20150106 20200103	Ya'an Yingjing Power Supply Limited Company Metrological Verification Station	10/01/2015 08/01/2020	09/01/2020 07/01/2025
87	Zhuyeshan Hydroelectric Plant	0097635245	DSZY719-G	1	201580042 201820040	Leshan Local Energy Measurement Test Station	24/11/2015 24/11/2018	23/11/2018 23/11/2021
91	Dashi Stage III Hydroelectric Plant	030641	DSSD281	0.2	201705019	Yunnan Power Grid Company Lincang Power Supply Bureau Power Energy Metrological Center	09/05/2017	08/05/2022
94	Zhenyuan County Xiaojiehe Hydropower Station	04265653	DSSD103F4	0.5	Lindianjijian Neng zi [2017] No. 033	Yunnan Power Grid Company Lincang Power Supply Bureau Power Energy Metrological Center	24/03/2017	23/03/2022
97	Yunnan Province Jinping County Mengqiao Village Datan Hydropower Station	782763	DSSD103F4	0.2	Lindianjijian Neng zi [2017] No. 031	Yunnan Power Grid Company Lincang Power Supply Bureau Power Energy Metrological Center	24/03/2017	23/03/2022

4.1.3 Remaining Issues from Previous Validation or Verification

This is the 8th verification and the verification team can confirm that there were no any remaining issues from the renew crediting period validation and verification report /18/.

4.2 Safeguards

4.2.1 No Net Harm

The Grouped Project consists of 88 individual hydropower plants, and all projects are run-of-river hydropower stations, therefore, it is scarcely any net harm.

4.2.2 Local Stakeholder Consultation

This is the eighth verification of the project activity. No further local stakeholders' consultation was applied.

4.3 AFOLU-Specific Safeguards

N/A

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

4.4.1 Parameters and information flow

The parameters required by the monitoring plan and the way CTC has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the monitoring report are described below:

Parameters monitored ex-post:

- 1) **EG_{PJ,y}**: The accumulated net electricity exported to the Southern China Power Grid by all the hydropower plants under the Grouped Project located in Yunnan and Guizhou Provinces in the year y;
- 2) **EG_{PJ,y}**: The accumulated net electricity exported to the Central China Power Grid by all the hydropower plants under the Grouped Project located in Chongqing City and Sichuan Province in the year y.
- 3) **Cap_{PJ}**: Installed capacity of the hydro power plant after the implementation of the project activity, monitored once at the beginning of each crediting period.

- 4) **A_{PJ}**: Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full, monitored once at the beginning of each crediting period.

According to the VCS-MR /1/ of the Project and the updated VCS-PD /3/, only the net electricity export to the grid shall be taken into account. This means that the monitoring measurement method shall exclude electricity imported from the grid by the project activity. The electricity exported (EG_{out}) and imported (EG_{in}) are both continuously monitored through bi-lateral gateway meters installed at a point which are both agreed by the grid company and the project owners. The net electricity is the difference of the electricity export and the electricity import, i.e. $EG_{PJ,y} = EG_{out} - EG_{in}$. The daily and monthly monitoring records of all sampling projects have been verified during onsite assessment.

The verification team has cross-checked the input values in the emission reductions calculation spreadsheet /2/ with the electricity sales invoices/electricity transaction receipts of each individual project. It was confirmed that the electricity sales invoices can only identify the electricity exported to the local grid (EG_{out}) while the electricity transaction receipts can identify the electricity import from the grid and electricity export to the grid (EG_{out} and EG_{in}). The electricity transaction receipts have been the basis for the grid company and project owner to issue the electricity invoices to each other.

It was also confirmed that most of the individual projects have complete electricity transaction receipts during the monitoring period, which means that the electricity exported and imported can be directly determined through cross-check with the electricity transaction receipts available to verification team. However, for some individual projects (i.e. project No. 39, 46, 50, 62, 63, 70, 73, 78-81, 83-86, 88, 94-98), the electricity transaction receipts have not been completely collected while the electricity sales invoices issued by the project owner have been used for cross-check to determine the net electricity supply to the grid. In this case, the project proponents have conducted a conservative approach to determine the imported electricity for projects which only have the electricity invoices issued by the project owner and for projects which don't have imported electricity on electricity transaction receipts. As per the ER spreadsheet /2/, the discount factor of 0.66% is applied and determined according to the highest average ratio of import electricity to export electricity of 58 individual projects which have the complete transaction receipts of electricity imported and exported during the monitoring period. The verification team has conducted the described process and is able to confirm the selected discount factor is conservative since:

- ◆ The discount factor is selected as the yearly highest average electricity import to export ratio, which is calculated according to the average import to export ratios in separate years over the entire monitoring period for 58 individual projects that have complete electricity import/export data. This is consistent with the individual projects which have adopted the discount factor to estimate the electricity import since the discount factor has been applied during the entire monitoring period in the emission reduction calculation spreadsheet /2/.

- ◆ The ratio of 0.66% is deemed as conservative through cross-checking with the Hydroenergy Design Code for Small Hydropower Projects (SL76-94) /17/ issued by Ministry of Water Resources of People's Republic of China, which indicates that the internal consumption for hydropower plants should be within range of 0.5%-1%. The verification team has listed the ratios of imported electricity to exported electricity of other projects in the following table for cross-check.

Table 4-6 Statistic Monitoring Results of EG_{in}/EG_{out} within the Project

EG_{in}/EG_{out}	0%~0.5%	0.5%~1.0%
Total Project Number in 2018	57	1
Total Project Number in 2019	57	1
Total Project Number in 2020	57	1
Percent	98.3%	1.7%

From the statistic monitoring results indicated in the table above, the verification team is able to confirm it is very unlikely the ratio of EG_{in}/EG_{out} crosses the selected discount factor within the Project considering the technical competences, operation and management experiences and hydro resources utilization are similar in the same region.

By applying the discount factor of 0.66%, the electricity imported from the grid has been conservatively determined for project No. 39, 46, 50, 62, 63, 70, 73, 78-81, 83-86, 88, 94-98.

Parameter determined ex-ante:

EF_y: The grid CO₂ emission factor of the power grid where the project connected to, i.e. SCPG and CCPG.

According to the updated PD /3/, the EF_y is ex-ante determined as 0.5003 tCO₂e/MWh for CCPG and 0.4975 tCO₂e/MWh for SCPG over the second crediting period. The emission factors used in the monitoring report have been verified against the updated VCS-PD /3/ and found them to be consistent.

4.4.2 Assessment Data and Calculation

It was verified that all the individual projects are all new run-of-river hydropower plant except project 74_Puti 1 and 75_Puti 2. And the installation capacity of projects 74_Puti 1 and 75_Puti 2 are 6MW and 9.5 MW respectively, which are in line with the hydro-generator nameplates of the two projects. Furthermore, the CTC validation team has confirmed the area of projects 74_Puti 1 and 75_Puti 2 are respective 0.334km² and 0.161km² by monitoring report of the

reservoirs, and the power densities of the two individual components are shown to be 18 W/m² and 59 W/m².³ Therefore, the project emission of the Grouped Project is zero under AMS-I.D. Version 18.0 /6/ (PE_y=0).

The individual projects are newly-built, with no transferred from another activity or to another activity. The main generating equipment including water turbine generators are newly purchased, and the name plates have been verified during site assessment. Therefore, no leakage needs to be considered for the project activity according to the methodology /6/. (L_y=0).

Since the project emission and the leakage emission has been justified as zero under AMS-I.D. Version 18.0 /6/, the calculation of the emission reductions simply involves the calculation of the baseline emissions.

Formula 1: $ER_y = BE_y - 0 = EG_{PJ,y} \times EF_y$

Where:

ER_y: Emission reductions (Unit: tCO₂e)

EG_{PJ,y} : Net electricity supplied to the grid (Unit: MWh)

EF_y: Baseline emission factor of the SCPG (0.4795 tCO₂e/MWh) and CCPG (0.5003 tCO₂e/MWh), calculated ex-ante and will not be updated during the second crediting period.

BE_y: The baseline emissions (Unit: tCO₂e)

The net electricity delivered to the grid (EG_{PJ,y}) is the difference between the electricity exported to the grid (EG_{out}) and the electricity imported from the grid (EG_{in}) i.e.:

Formula 2: $EG_{PJ,y} = EG_{out} - EG_{in}$

Following the approach described in section 4.2.1 above, EG_{PJ,y} was verified as below:

Table 4-7 Net Electricity Export of the Project (Unit: MWh)

Year	EG _{PJ,y} to SCPG (MWh)	EG _{PJ,y} to CCPG (MWh)
2018 26/06/2018-31/12/2018	127,463.201	225,477.783
2019 01/01/2019-31/12/2019	244,091.453	447,030.391

³ 74_Puti 1 and 75_Puti 2 plants are newly built hydropower plant, hence A_{BL} and Cap_{BL} of this two plants are zero. The A_{PJ} of these two plants are 0.334km² and 0.161 km² respectively. The Cap_{BL} of these two projects are 6MW and 9.5 MW. Therefore, the PD of 74_Puti 1 plant is 18W/m² = (6-0)*10⁶/(0.334-0)*10⁶, the PD of 75_Puti 2 plant is 59W/m² = (9.5-0)*10⁶/(0.161-0)*10⁶.

2020 01/01/2020-25/02/2020	25,655.589	42,314.384
Total	397,210.243	714,822.559

The verification team has confirmed the emission reductions of each individual project have been conservatively calculated in line with above mentioned Formula 1&2 in the emission reduction calculation spreadsheet /2/. The total emission reductions within SCPG are the accumulated emission reductions achieved by the individual projects that are located in Yunnan Province (i.e. project No. 90~98) and Guizhou Province (i.e. project No. 70, 71, 73, 74, 75). The total emission reductions within CCPG are the accumulated emission reductions achieved by the individual projects that are located in Chongqing City (i.e. project No. 1~69 excluding 8, 14, 16, 17, 19, 20, 26, 43, 64) and Sichuan Province (i.e. project No. 76~88) and Guizhou Province (i.e. Project No. 72). The total emission reductions within SCPG and CCPG have been summarized in the emission reduction calculation spreadsheet /2/ and checked to be correctly accounted.

Table 4-8 Verified Emission Reductions within CCPG and SCPG

Year	ERs within CCPG (tCO ₂ e)	ERs within SCPG (tCO ₂ e)	ERs within CCPG and SCPG (tCO ₂ e)
2018 26/06/2018-31/12/2018	112,755	63,403	176,158
2019 01/01/2019-31/12/2019	223,579	121,422	345,001
2020 01/01/2020-25/02/2020	21,136	12,754	33,890
Total	357,470	197,579	555,049

Notes: The detailed ERs of each individual project are listed in Section 5 of this report.

By cross-check with the electricity sale receipts /19/ and electricity transaction receipts⁴, the verification team confirms that the monitoring results as listed in the Monitoring Report /1/ and emission reductions calculation spread sheet /2/ are conservative. The verification team confirms that the applied spreadsheet formulas and connections are correct and in line with the indicated emission reduction calculation in the monitoring plan contained in the updated VCS-PD /3/ and the applied methodology /6/.

Comparison of ERs

Based on the above assessment, CTC can conclude that the emission reduction during the monitoring period from 26/06/2018 to 25/02/2020 have been quantified correctly in accordance

⁴ All the electricity receipts and electricity transaction receipts of each individual project have been used for cross-check to determine the actual electricity imported and exported to the grid. The reference list of the electricity sales receipts and electricity transaction receipts for sampling projects has been listed in Appendix A of this report.

with the project description and applied methodology /6/, and the emission reduction during the monitoring period is verified as 555,049 tCO₂e. Compared with the estimated emission reductions under the same days of 610 from 26/06/2018 to 25/02/2020 in the updated VCS-PD /3/, 617,853(=369,699*610/365) tCO₂e, the verified emission reduction is (10.16%) less than the estimated value.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

The evidences used to determine the GHG emission reductions are assessed as follows:

Assessment of the Evidence Quality	
Parameters monitored	(i) EG_{out} ; (ii) EG_{in}
Monitoring method	The quantity of electricity supplied to the grid (EG_{out}) and electricity imported from the grid (EG_{in}) by individual projects are measured by bi-direction gateway meters.
Measuring/Reading/Recording frequency	The parameters are continuously measured and monthly recorded.
Calibration frequency/ interval	See Table 4-5 Verified calibration information of monitoring meters (sampling projects). Through on-site observation and checking the calibration records of meters, the team confirmed that all the monitoring meters meet the rated accuracy level and the calibration frequency fulfils the requirement as described in the monitoring plan.
Calibration cover the monitoring period	The verification team confirms that the validity period of all conducted calibrations covers this monitoring period from 26/06/2018 to 25/02/2020.
Data reported	Through cross checking with the electricity sale receipts and electricity transaction receipts, the monitored data can be confirmed as acceptable to calculate emission reductions. Furthermore, a conservative approach of discount factor has been applied as described in section 4.2.1 above.

In summary, all necessary documentation is collected, referenced and is easily accessible in hard-copy or electronic format. The data pertaining to the monitored parameters are maintained in the identified internal records and consistent with the values stated in the Monitoring Report /1/ and ER calculation spreadsheet /2/. Key data have been cross-checked via external sources, such as electricity sale receipts and electricity transaction receipts.

4.6 Non-Permanence Risk Analysis

A central information system has been established for the Project in line with the monitoring report. The monitoring organization structure, quality assurance process and monitoring roles and responsibility have been implemented in accordance with the monitoring report /1/. The central GHG information system has integrated four functional units: projects owners,

Intermediary companies, South Pole's China team and Global Quality Control and Technical Support Team, where the coordination effectiveness has been verified during site assessment. South Pole is responsible for gathering and managing individual projects' information and their monitoring relevant documents by using their central information control tool (i.e. PMT software).

The monitoring data and records will be archived in electronic documents and paper documents. The project owners will keep the copies of electricity generation records and sales receipts. Calibration of Meters & Metering has been implemented periodically according to DL/T448-2016 /16/. After calibrated by qualified entity, the electricity metering equipment is sealed and stamped, which has been verified during onsite assessment. It was also confirmed during the site assessment that all the staff involved in the individual projects has received periodic training on operation and maintenance of the hydropower plant.

In summary, the verification team has ensured that the quality management system for the Project is in place. The documented instructions including the responsibilities have been properly implemented and in line with the monitoring report /1/ and updated VCS-PD /3/. The internal review at a regular interval ensures the quality assurance of the monitoring procedures.

5 VERIFICATION CONCLUSION

CTC has carried out the eighth periodic verification of the project "Grouped Hydropower Plants in Chongqing, Yunnan, Sichuan and Guizhou Provinces, P.R. China". The verification was performed based on the requirements set by Voluntary Carbon Standard (VCS) Version 4.0 /5/, as well as criteria given to provide for consistent project operations, monitoring and reporting. This verification covers the period from 26/06/2018 to 25/02/2020 inclusive.

In the course of the verification one Corrective Action Request (CAR) and two Clarification Requests (CL) were raised. The verification is based on the VCS-MR /1/, the updated VCS-PD /3/, ER calculation spread sheet /2/ and supporting documents available to CTC.

As the result of the verification, CTC confirms that:

- The project activity has been implemented and operated as per the updated VCS-PD /3/ and that all physical features (technology, project equipment, and monitoring and metering equipment) of the Project are in place;
- The VCS-MR /1/ and other supporting documents provided are complete in accordance with the latest applicable version of the VCS Registration & Issuance Process /9/ and in accordance with the additional requirements stated by the VCS Association (VCSA);
- The actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan and the approved methodology i.e. AMS-I.D. Version 18.0 /6/;

- The GHG emission reductions are calculated without material misstatements and in a conservative and appropriate manner.

Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, CTC confirms the following statement:

Verification period: From 26/06/2018 to 25/02/2020.

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2018 26/06/2018-31/12/2018	176,158	0	0	176,158
2019 01/01/2019-31/12/2019	345,001	0	0	345,001
2020 01/01/2020-25/02/2020	33,890	0	0	33,890
Total	555,049	0	0	555,049

The verified emission reductions of each individual project are listed in the following table:

Project Title	Verified Emission Reductions		
1. Zengfuyoujiang Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
2. Jianshitan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,702	tCO ₂ e
	Emission reductions:	1,702	tCO ₂ e
	Emission reductions within 2018:	581	tCO ₂ e
	Emission reductions within 2019:	1,035	tCO ₂ e
	Emission reductions within 2020:	86	tCO ₂ e
3. Jinxing Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	2,317	tCO ₂ e
	Emission reductions:	2,317	tCO ₂ e
	Emission reductions within 2018:	612	tCO ₂ e
	Emission reductions within 2019:	1,529	tCO ₂ e

	Emission reductions within 2020:	176	tCO ₂ e
4. Huzhong Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	8,528	tCO ₂ e
	Emission reductions:	8,528	tCO ₂ e
	Emission reductions within 2018:	2,468	tCO ₂ e
	Emission reductions within 2019:	5,343	tCO ₂ e
	Emission reductions within 2020:	717	tCO ₂ e
5. Chongqing Wanzhou Fengmu Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	352	tCO ₂ e
	Emission reductions:	352	tCO ₂ e
	Emission reductions within 2018:	118	tCO ₂ e
	Emission reductions within 2019:	225	tCO ₂ e
	Emission reductions within 2020:	9	tCO ₂ e
6. Chongqing Wanzhou Longdong Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	447	tCO ₂ e
	Emission reductions:	447	tCO ₂ e
	Emission reductions within 2018:	136	tCO ₂ e
	Emission reductions within 2019:	301	tCO ₂ e
	Emission reductions within 2020:	10	tCO ₂ e
7. Chongqing Wanzhou Dengta Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	772	tCO ₂ e
	Emission reductions:	772	tCO ₂ e
	Emission reductions within 2018:	292	tCO ₂ e
	Emission reductions within 2019:	441	tCO ₂ e
	Emission reductions within 2020:	39	tCO ₂ e
9. Chongqing Wanzhou Xiaolong Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	896	tCO ₂ e
	Emission reductions:	896	tCO ₂ e
	Emission reductions within 2018:	309	tCO ₂ e
	Emission reductions within 2019:	570	tCO ₂ e
	Emission reductions within 2020:	17	tCO ₂ e
10. Chongqing Wanzhou Yihe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	597	tCO ₂ e
	Emission reductions:	597	tCO ₂ e
	Emission reductions within 2018:	203	tCO ₂ e
	Emission reductions within 2019:	383	tCO ₂ e
	Emission reductions within 2020:	11	tCO ₂ e

11. Chongqing Wanzhou Tiande Hydroelectric Plant	Reporting period:		26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		1,051	tCO ₂ e
	Emission reductions:		1,051	tCO ₂ e
	Emission reductions within 2018:		340	tCO ₂ e
	Emission reductions within 2019:		649	tCO ₂ e
	Emission reductions within 2020:		62	tCO ₂ e
12. Chongqing Wanzhou Puziling Hydroelectric Plant	Reporting period:		2013-06-26 to 2015-05-25	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		891	tCO ₂ e
	Emission reductions:		891	tCO ₂ e
	Emission reductions within 2018:		316	tCO ₂ e
	Emission reductions within 2019:		540	tCO ₂ e
	Emission reductions within 2020:		35	tCO ₂ e
13. Chongqing Wanzhou Yanshan Hydroelectric Plant	Reporting period:		26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		1,501	tCO ₂ e
	Emission reductions:		1,501	tCO ₂ e
	Emission reductions within 2018:		580	tCO ₂ e
	Emission reductions within 2019:		861	tCO ₂ e
	Emission reductions within 2020:		60	tCO ₂ e
15. Chongqing Wanzhou Wanlin Hydroelectric Plant	Reporting period:		26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		1,244	tCO ₂ e
	Emission reductions:		1,244	tCO ₂ e
	Emission reductions within 2018:		424	tCO ₂ e
	Emission reductions within 2019:		788	tCO ₂ e
	Emission reductions within 2020:		32	tCO ₂ e
18. Chongqing Wanzhou Yanjingxi Hydroelectric Plant	Reporting period:		26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		1,055	tCO ₂ e
	Emission reductions:		1,055	tCO ₂ e
	Emission reductions within 2018:		331	tCO ₂ e
	Emission reductions within 2019:		697	tCO ₂ e
	Emission reductions within 2020:		27	tCO ₂ e
21. Chongqing Wanzhou Xianfeng Hydroelectric Plant	Reporting period:		26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:			
	Project emissions:		0	tCO ₂ e
	Baseline emissions:		6,986	tCO ₂ e
	Emission reductions:		6,986	tCO ₂ e
	Emission reductions within 2018:		2,281	tCO ₂ e

	Emission reductions within 2019:	4,573	tCO ₂ e
	Emission reductions within 2020:	132	tCO ₂ e
22. Heba Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	783	tCO ₂ e
	Emission reductions:	783	tCO ₂ e
	Emission reductions within 2018:	203	tCO ₂ e
	Emission reductions within 2019:	533	tCO ₂ e
	Emission reductions within 2020:	47	tCO ₂ e
23. Sandaoguai Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	261	tCO ₂ e
	Emission reductions:	261	tCO ₂ e
	Emission reductions within 2018:	74	tCO ₂ e
	Emission reductions within 2019:	173	tCO ₂ e
	Emission reductions within 2020:	14	tCO ₂ e
24. Beiya Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	342	tCO ₂ e
	Emission reductions:	342	tCO ₂ e
	Emission reductions within 2018:	123	tCO ₂ e
	Emission reductions within 2019:	214	tCO ₂ e
	Emission reductions within 2020:	5	tCO ₂ e
25. Wulong Guanqiao Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
27. Qingtongxi Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	560	tCO ₂ e
	Emission reductions:	560	tCO ₂ e
	Emission reductions within 2018:	188	tCO ₂ e
	Emission reductions within 2019:	351	tCO ₂ e
	Emission reductions within 2020:	21	tCO ₂ e
28. Heping Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	788	tCO ₂ e
	Emission reductions:	788	tCO ₂ e

	Emission reductions within 2018:	224	tCO ₂ e
	Emission reductions within 2019:	483	tCO ₂ e
	Emission reductions within 2020:	81	tCO ₂ e
29. Guanziya Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
	30. Baiyangping Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		629	tCO ₂ e
Emission reductions:		629	tCO ₂ e
Emission reductions within 2018:		215	tCO ₂ e
Emission reductions within 2019:		387	tCO ₂ e
Emission reductions within 2020:		27	tCO ₂ e
31. Chengmendong Hydroelectric Plants		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,623	tCO ₂ e
	Emission reductions:	1,623	tCO ₂ e
	Emission reductions within 2018:	493	tCO ₂ e
	Emission reductions within 2019:	1,016	tCO ₂ e
	Emission reductions within 2020:	114	tCO ₂ e
	32. Shuanglong Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		963	tCO ₂ e
Emission reductions:		963	tCO ₂ e
Emission reductions within 2018:		318	tCO ₂ e
Emission reductions within 2019:		611	tCO ₂ e
Emission reductions within 2020:		34	tCO ₂ e
33. Chushuitang Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,617	tCO ₂ e
	Emission reductions:	1,617	tCO ₂ e
	Emission reductions within 2018:	532	tCO ₂ e
	Emission reductions within 2019:	1,040	tCO ₂ e
	Emission reductions within 2020:	45	tCO ₂ e
34. Shuangqiao Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e

	Baseline emissions:	587	tCO ₂ e
	Emission reductions:	587	tCO ₂ e
	Emission reductions within 2018:	169	tCO ₂ e
	Emission reductions within 2019:	381	tCO ₂ e
	Emission reductions within 2020:	37	tCO ₂ e
35. Shiqiao Hydroelectric Plant	Reporting period:	2013-06-26 to 2015-05-25	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	891	tCO ₂ e
	Emission reductions:	891	tCO ₂ e
	Emission reductions within 2018:	258	tCO ₂ e
	Emission reductions within 2019:	585	tCO ₂ e
	Emission reductions within 2020:	48	tCO ₂ e
36. Shuanglian Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,066	tCO ₂ e
	Emission reductions:	1,066	tCO ₂ e
	Emission reductions within 2018:	288	tCO ₂ e
	Emission reductions within 2019:	689	tCO ₂ e
	Emission reductions within 2020:	89	tCO ₂ e
37. Baijia Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,364	tCO ₂ e
	Emission reductions:	1,364	tCO ₂ e
	Emission reductions within 2018:	420	tCO ₂ e
	Emission reductions within 2019:	791	tCO ₂ e
	Emission reductions within 2020:	153	tCO ₂ e
38. Xinqiao Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,787	tCO ₂ e
	Emission reductions:	1,787	tCO ₂ e
	Emission reductions within 2018:	456	tCO ₂ e
	Emission reductions within 2019:	1,135	tCO ₂ e
	Emission reductions within 2020:	196	tCO ₂ e
39. Luchi Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	776	tCO ₂ e
	Emission reductions:	776	tCO ₂ e
	Emission reductions within 2018:	287	tCO ₂ e
	Emission reductions within 2019:	476	tCO ₂ e
	Emission reductions within 2020:	13	tCO ₂ e
40&48. Xiangyang Stage	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		

III & I Hydroelectric Plants	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,048	tCO ₂ e
	Emission reductions:	3,048	tCO ₂ e
	Emission reductions within 2018:	979	tCO ₂ e
	Emission reductions within 2019:	1,944	tCO ₂ e
	Emission reductions within 2020:	125	tCO ₂ e
	41. Xiangyun Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		1,368	tCO ₂ e
Emission reductions:		1,368	tCO ₂ e
Emission reductions within 2018:		414	tCO ₂ e
Emission reductions within 2019:		894	tCO ₂ e
Emission reductions within 2020:		60	tCO ₂ e
42. Hongshan Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	722	tCO ₂ e
	Emission reductions:	722	tCO ₂ e
	Emission reductions within 2018:	234	tCO ₂ e
	Emission reductions within 2019:	471	tCO ₂ e
	Emission reductions within 2020:	17	tCO ₂ e
	44. Yong'an Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		1,495	tCO ₂ e
Emission reductions:		1,495	tCO ₂ e
Emission reductions within 2018:		508	tCO ₂ e
Emission reductions within 2019:		937	tCO ₂ e
Emission reductions within 2020:		50	tCO ₂ e
45. Suokousi Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
	46. Xinli Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		1,062	tCO ₂ e
Emission reductions:		1,062	tCO ₂ e
Emission reductions within 2018:		298	tCO ₂ e
Emission reductions within 2019:		694	tCO ₂ e
Emission reductions within 2020:		70	tCO ₂ e
	Reporting period:	26/06/2018 to 25/02/2020	

47. Caijiagou Stage III Hydroelectric Plant	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,804	tCO ₂ e
	Emission reductions:	1,804	tCO ₂ e
	Emission reductions within 2018:	479	tCO ₂ e
	Emission reductions within 2019:	1,217	tCO ₂ e
	Emission reductions within 2020:	108	tCO ₂ e
49. Cheqingyan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	2,727	tCO ₂ e
	Emission reductions:	2,727	tCO ₂ e
	Emission reductions within 2018:	774	tCO ₂ e
	Emission reductions within 2019:	1,695	tCO ₂ e
	Emission reductions within 2020:	258	tCO ₂ e
50. Lianghekou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,156	tCO ₂ e
	Emission reductions:	3,156	tCO ₂ e
	Emission reductions within 2018:	915	tCO ₂ e
	Emission reductions within 2019:	2,031	tCO ₂ e
	Emission reductions within 2020:	210	tCO ₂ e
51. Wuhe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,226	tCO ₂ e
	Emission reductions:	1,226	tCO ₂ e
	Emission reductions within 2018:	368	tCO ₂ e
	Emission reductions within 2019:	818	tCO ₂ e
	Emission reductions within 2020:	40	tCO ₂ e
52. Sihe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	4,362	tCO ₂ e
	Emission reductions:	4,362	tCO ₂ e
	Emission reductions within 2018:	1,316	tCO ₂ e
	Emission reductions within 2019:	2,707	tCO ₂ e
	Emission reductions within 2020:	339	tCO ₂ e
53. Shilingyan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	902	tCO ₂ e
	Emission reductions:	902	tCO ₂ e
	Emission reductions within 2018:	256	tCO ₂ e
	Emission reductions within 2019:	604	tCO ₂ e
Emission reductions within 2020:	42	tCO ₂ e	

54. Nanmu Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	2,789	tCO ₂ e
	Emission reductions:	2,789	tCO ₂ e
	Emission reductions within 2018:	761	tCO ₂ e
	Emission reductions within 2019:	1,833	tCO ₂ e
	Emission reductions within 2020:	195	tCO ₂ e
55. Canglong Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,274	tCO ₂ e
	Emission reductions:	3,274	tCO ₂ e
	Emission reductions within 2018:	967	tCO ₂ e
	Emission reductions within 2019:	1,965	tCO ₂ e
	Emission reductions within 2020:	342	tCO ₂ e
56. Daheba Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	5,446	tCO ₂ e
	Emission reductions:	5,446	tCO ₂ e
	Emission reductions within 2018:	1,710	tCO ₂ e
	Emission reductions within 2019:	3,184	tCO ₂ e
	Emission reductions within 2020:	552	tCO ₂ e
57. Heixigou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,522	tCO ₂ e
	Emission reductions:	3,522	tCO ₂ e
	Emission reductions within 2018:	1,168	tCO ₂ e
	Emission reductions within 2019:	1,956	tCO ₂ e
	Emission reductions within 2020:	398	tCO ₂ e
58. Yanchanghe Stage III Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,080	tCO ₂ e
	Emission reductions:	3,080	tCO ₂ e
	Emission reductions within 2018:	987	tCO ₂ e
	Emission reductions within 2019:	1,906	tCO ₂ e
	Emission reductions within 2020:	187	tCO ₂ e
59. Muzonghe Stage IV Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	5,102	tCO ₂ e
	Emission reductions:	5,102	tCO ₂ e
	Emission reductions within 2018:	1,558	tCO ₂ e
	Emission reductions within 2019:	3,019	tCO ₂ e
	Emission reductions within 2020:	525	tCO ₂ e

60. Dengta Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	1,750	tCO ₂ e
	Emission reductions:	1,750	tCO ₂ e
	Emission reductions within 2018:	415	tCO ₂ e
	Emission reductions within 2019:	1,177	tCO ₂ e
	Emission reductions within 2020:	158	tCO ₂ e
61. Banqiao Stage II Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	4,617	tCO ₂ e
	Emission reductions:	4,617	tCO ₂ e
	Emission reductions within 2018:	1,244	tCO ₂ e
	Emission reductions within 2019:	2,970	tCO ₂ e
	Emission reductions within 2020:	403	tCO ₂ e
62. Shuangchahe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,745	tCO ₂ e
	Emission reductions:	3,745	tCO ₂ e
	Emission reductions within 2018:	1,157	tCO ₂ e
	Emission reductions within 2019:	2,410	tCO ₂ e
	Emission reductions within 2020:	178	tCO ₂ e
63. Songshigou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	3,029	tCO ₂ e
	Emission reductions:	3,029	tCO ₂ e
	Emission reductions within 2018:	915	tCO ₂ e
	Emission reductions within 2019:	2,041	tCO ₂ e
	Emission reductions within 2020:	73	tCO ₂ e
65. Shujiahe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	4,430	tCO ₂ e
	Emission reductions:	4,430	tCO ₂ e
	Emission reductions within 2018:	1,488	tCO ₂ e
	Emission reductions within 2019:	2,778	tCO ₂ e
	Emission reductions within 2020:	164	tCO ₂ e
66. Yangyan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	5,831	tCO ₂ e
	Emission reductions:	5,831	tCO ₂ e
	Emission reductions within 2018:	1,702	tCO ₂ e
Emission reductions within 2019:	3,813	tCO ₂ e	

	Emission reductions within 2020:	316	tCO ₂ e
67. Baiguo Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	9,062	tCO ₂ e
	Emission reductions:	9,062	tCO ₂ e
	Emission reductions within 2018:	2,697	tCO ₂ e
	Emission reductions within 2019:	5,913	tCO ₂ e
	Emission reductions within 2020:	452	tCO ₂ e
	68. Longqiao Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		14,839	tCO ₂ e
Emission reductions:		14,839	tCO ₂ e
Emission reductions within 2018:		4,825	tCO ₂ e
Emission reductions within 2019:		9,336	tCO ₂ e
Emission reductions within 2020:		678	tCO ₂ e
69. Baiyang Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	12,144	tCO ₂ e
	Emission reductions:	12,144	tCO ₂ e
	Emission reductions within 2018:	3,651	tCO ₂ e
	Emission reductions within 2019:	7,961	tCO ₂ e
	Emission reductions within 2020:	532	tCO ₂ e
	70. Xinmin Tailwater Stage II Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		3,541	tCO ₂ e
Emission reductions:		3,541	tCO ₂ e
Emission reductions within 2018:		1,028	tCO ₂ e
Emission reductions within 2019:		2,313	tCO ₂ e
Emission reductions within 2020:		200	tCO ₂ e
71. Dongliuhe Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	4,226	tCO ₂ e
	Emission reductions:	4,226	tCO ₂ e
	Emission reductions within 2018:	1,437	tCO ₂ e
	Emission reductions within 2019:	2,647	tCO ₂ e
	Emission reductions within 2020:	142	tCO ₂ e
	72. Dahegou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		6,408	tCO ₂ e
Emission reductions:		6,408	tCO ₂ e
Emission reductions within 2018:		1,871	tCO ₂ e
Emission reductions within 2019:		4,215	tCO ₂ e

	Emission reductions within 2020:	322	tCO ₂ e
73. Xinmin Stage II Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	17,018	tCO ₂ e
	Emission reductions:	17,018	tCO ₂ e
	Emission reductions within 2018:	5,290	tCO ₂ e
	Emission reductions within 2019:	10,881	tCO ₂ e
	Emission reductions within 2020:	847	tCO ₂ e
74. Guizhou Province Xingyi City Puti Hydropower Plant Technical Reform Project	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
75. Guizhou Province Xingyi City Puti 2nd Stage (Xiniutang) Hydropower Plant Technical Reform Project	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
76. Wumaxi Stage I Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
77. Mozigou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	2,924	tCO ₂ e
	Emission reductions:	2,924	tCO ₂ e
	Emission reductions within 2018:	780	tCO ₂ e
	Emission reductions within 2019:	1,963	tCO ₂ e
	Emission reductions within 2020:	181	tCO ₂ e
78. Mayihe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	4,764	tCO ₂ e
	Emission reductions:	4,764	tCO ₂ e
	Emission reductions within 2018:	1,309	tCO ₂ e

	Emission reductions within 2019:	3,115	tCO ₂ e
	Emission reductions within 2020:	340	tCO ₂ e
79. Jinyatan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	7,631	tCO ₂ e
	Emission reductions:	7,631	tCO ₂ e
	Emission reductions within 2018:	2,649	tCO ₂ e
	Emission reductions within 2019:	4,702	tCO ₂ e
	Emission reductions within 2020:	280	tCO ₂ e
80. Toudaoshui Hydroelectric Station	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	7,928	tCO ₂ e
	Emission reductions:	7,928	tCO ₂ e
	Emission reductions within 2018:	2,502	tCO ₂ e
	Emission reductions within 2019:	4,944	tCO ₂ e
	Emission reductions within 2020:	482	tCO ₂ e
81. Sanhui Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	15,038	tCO ₂ e
	Emission reductions:	15,038	tCO ₂ e
	Emission reductions within 2018:	4,765	tCO ₂ e
	Emission reductions within 2019:	9,686	tCO ₂ e
	Emission reductions within 2020:	587	tCO ₂ e
82. Yunwushan Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
83. Gongjiagou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	28,626	tCO ₂ e
	Emission reductions:	28,626	tCO ₂ e
	Emission reductions within 2018:	9,154	tCO ₂ e
	Emission reductions within 2019:	17,426	tCO ₂ e
	Emission reductions within 2020:	2,046	tCO ₂ e
84. Chahe Stage III Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	18,373	tCO ₂ e
	Emission reductions:	18,373	tCO ₂ e

	Emission reductions within 2018:	5,534	tCO ₂ e
	Emission reductions within 2019:	11,861	tCO ₂ e
	Emission reductions within 2020:	978	tCO ₂ e
85. Daihuanggou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	23,457	tCO ₂ e
	Emission reductions:	23,457	tCO ₂ e
	Emission reductions within 2018:	7,474	tCO ₂ e
	Emission reductions within 2019:	14,859	tCO ₂ e
	Emission reductions within 2020:	1,124	tCO ₂ e
	86. Gaoqiaohe Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		38,976	tCO ₂ e
Emission reductions:		38,976	tCO ₂ e
Emission reductions within 2018:		12,384	tCO ₂ e
Emission reductions within 2019:		23,900	tCO ₂ e
Emission reductions within 2020:		2,692	tCO ₂ e
87. Zhuyeshan Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	17,397	tCO ₂ e
	Emission reductions:	17,397	tCO ₂ e
	Emission reductions within 2018:	6,282	tCO ₂ e
	Emission reductions within 2019:	10,527	tCO ₂ e
	Emission reductions within 2020:	588	tCO ₂ e
	88. Lianghekou Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		39,040	tCO ₂ e
Emission reductions:		39,040	tCO ₂ e
Emission reductions within 2018:		13,026	tCO ₂ e
Emission reductions within 2019:		23,307	tCO ₂ e
Emission reductions within 2020:		2,707	tCO ₂ e
90. Dabaishu Hydroelectric Plant		Reporting period:	26/06/2018 to 25/02/2020
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	12,735	tCO ₂ e
	Emission reductions:	12,735	tCO ₂ e
	Emission reductions within 2018:	4,036	tCO ₂ e
	Emission reductions within 2019:	7,576	tCO ₂ e
	Emission reductions within 2020:	1,123	tCO ₂ e
	91&92. Dashi Stage III& II Hydroelectric Plant	Reporting period:	26/06/2018 to 25/02/2020
Verified emission in the above reporting period:			
Project emissions:		0	tCO ₂ e
Baseline emissions:		32,015	tCO ₂ e

	Emission reductions:	32,015	tCO ₂ e
	Emission reductions within 2018:	10,534	tCO ₂ e
	Emission reductions within 2019:	18,709	tCO ₂ e
	Emission reductions within 2020:	2,772	tCO ₂ e
93. Yunnan Midu County Taishanhe Hydropower Station	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	0	tCO ₂ e
	Emission reductions:	0	tCO ₂ e
	Emission reductions within 2018:	0	tCO ₂ e
	Emission reductions within 2019:	0	tCO ₂ e
	Emission reductions within 2020:	0	tCO ₂ e
94. Zhenyuan County Xiaojiehe Hydropower Station	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	13,230	tCO ₂ e
	Emission reductions:	13,230	tCO ₂ e
	Emission reductions within 2018:	4,141	tCO ₂ e
	Emission reductions within 2019:	8,413	tCO ₂ e
	Emission reductions within 2020:	676	tCO ₂ e
95. Jinghong City Chuangye Hydropower Station	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	26,179	tCO ₂ e
	Emission reductions:	26,179	tCO ₂ e
	Emission reductions within 2018:	8,424	tCO ₂ e
	Emission reductions within 2019:	16,072	tCO ₂ e
	Emission reductions within 2020:	1,683	tCO ₂ e
96. Yingjiang Husa River 5th Stage Hydropower Plant	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	18,840	tCO ₂ e
	Emission reductions:	18,840	tCO ₂ e
	Emission reductions within 2018:	5,972	tCO ₂ e
	Emission reductions within 2019:	11,554	tCO ₂ e
	Emission reductions within 2020:	1,314	tCO ₂ e
97. Yunnan Province Jinping County Mengqiao Village Datan Hydropower Station	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		
	Project emissions:	0	tCO ₂ e
	Baseline emissions:	27,492	tCO ₂ e
	Emission reductions:	27,492	tCO ₂ e
	Emission reductions within 2018:	9,438	tCO ₂ e
	Emission reductions within 2019:	16,563	tCO ₂ e
	Emission reductions within 2020:	1,491	tCO ₂ e
98. Fugong County Lishadi	Reporting period:	26/06/2018 to 25/02/2020	
	Verified emission in the above reporting period:		

Hydropower Plant Project	Project emissions:	0	tCO ₂ e
	Baseline emissions:	42,303	tCO ₂ e
	Emission reductions:	42,303	tCO ₂ e
	Emission reductions within 2018:	13,103	tCO ₂ e
	Emission reductions within 2019:	26,694	tCO ₂ e
	Emission reductions within 2020:	2,506	tCO ₂ e

APPENDIX A: REFERENCES

Documents provided by the Project Participant and relevant background documents have been reviewed or referenced for the periodic verification conclusions.

Ref no.	Reference Document
/1/	Swiss Carbon Value Ltd, VCS Monitoring report Version 1.0 dated 29/04/2020 Swiss Carbon Value Ltd, VCS Monitoring report Version 2.0 dated 26/05/2020
/2/	Swiss Carbon Value Ltd, ER calculation spreadsheet
/3/	Swiss Carbon Value Ltd, updated VCS-PD dated 27/02/2017
/4/	China Building Material Test and Certification Group Co., Ltd Renew crediting period Validation Report Version 1.0 dated 07/04/2017
/5/	VCS Association, Voluntary Carbon Standard Version 4.0
/6/	CDM Executive Board, AMS-I.D. Grid connected renewable electricity generation Version 18.0
/7/	VCS Association, Monitoring Report Template Form Version 4.0
/8/	Verra Board, VCS Program Guide Version 4.0
/9/	VCS Association, Registration & Issuance Process Version 4.0
/10/	International Organization for Standardization, ISO 14064-2:2006, ISO 14064-3:2006 and ISO 14065:2013 (ISO, www.iso.org).
/11/	CDM Executive Board, Tool to calculate the emission factor for an electricity system, Version 05.0
/12/	IPCC: Revised 2006 IPCC Guidelines for National Greenhouse Gas Inventories Reference Manual
/13/	China Electric Power Yearbook 2012~2014
/14/	China Energy Statistical Yearbook 2012~2014
/15/	Chinese DNA, 2015 Baseline Emission Factors for Regional Power Grids in China
/16/	China National Economic Trading Commission, Technical Administrative Code of Electric Energy Metering, DL/T 448-2016

/17/	Ministry of Water Resources of People's Republic of China, Hydroenergy Design Code for Small Hydropower Projects (SL76-94).
/18/	the previous verification reports, the registered VCS-PD and the registered validation report
/19/	the electricity sale receipts
/20/	Metrological Authorization Certificate of the calibration entity

The specific project documents of the sampling projects have been reviewed during verification process as indicated below:

Document Review List for Sampling Project No. 7: Chongqing Wanzhou Dengta Hydroelectric Plant

- <7-01> Electricity sale receipts covering this monitoring period
- <7-02> Power Purchasing Agreement
- <7-03> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <7-04> Business License
- <7-05> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No. 12: Chongqing Wanzhou Puziling Hydroelectric Plant

- <12-01> Electricity sale receipts covering this monitoring period
- <12-02> Power Purchasing Agreement
- <12-03> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <12-04> Business License
- <12-05> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No. 30: Baiyangping Hydroelectric Plant

- <30-01> Electricity sale receipts covering this monitoring period
- <30-02> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <30-03> Power Purchasing Agreement
- <30-04> Business License

Document Review List for Sampling Project No. 38: Xinqiao Hydroelectric Plant

- <38-1> Electricity sale receipts covering this monitoring period

- <38-2> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <38-3> Contract of power combined to the grid
- <38-4> Power Purchasing Agreement
- <38-5> Electrical Connection Scheme of the Plant
- <38-6> Business License

Document Review List for Sampling Project No. 49: Cheqingyan Hydroelectric Plant

- <49-01> Electricity sale receipts covering this monitoring period
- <49-02> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <49-03> Power Purchasing Agreement
- <49-04> Electrical Connection Scheme of the Plant
- <49-05> Business License

Document Review List for Sampling Project No. 53: Shilingyan Hydroelectric Plant

- <53-01> Electricity sale receipts covering this monitoring period
- <53-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <53-03> Power Purchasing Agreement
- <53-04> Business License

Document Review List for Sampling Project No. 66: Yangyan Hydroelectric Plant

- <66-01> Electricity sale receipts covering this monitoring period
- <66-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <66-03> Contract of power combined to the grid
- <66-04> Business License
- <66-05> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No. 69: Baiyang Hydroelectric Plant

- <69-01> Electricity sale receipts covering this monitoring period
- <69-02> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <69-03> Power Purchasing Agreement
- <69-04> Electrical Connection Scheme of the Plant
- <69-05> Monitoring Manual
- <69-06> Business License

Document Review List for Sampling Project No. 70: Xinmin Tailwater Stage II Hydroelectric Plant

- <70-01> Electricity sale receipts covering this monitoring period
- <70-02> Electrical Connection Scheme of the Plant
- <70-03> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <70-04> Business License
- <70-05> Power Purchasing Agreement

Document Review List for Sampling Project No. 72: Dahegou Hydroelectric Plant

- <72-01> Electricity sale receipts covering this monitoring period
- <72-02> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <72-03> Business License
- <72-04> Power Purchasing Agreement
- <72-05> Monitoring Manual
- <72-06> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No. 73: Xinmin Stage II Hydroelectric Plant

- <73-01> Electricity sale receipts covering this monitoring period
- <73-02> Calibration Illustration Letters for Meter Measurement with the validity covering this monitoring period
- <73-03> Electrical Connection Scheme of the Plant
- <73-04> Power Purchasing Agreement
- <73-05> Business License

Document Review List for Sampling Project No. 77: Mozigou Hydroelectric Plant

- <77-01> Electricity sale receipts covering this monitoring period
- <77-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <77-03> Business License
- <77-04> Contract of power combined to the grid

Document Review List for Sampling Project No. 85: Daihuanggou Hydroelectric Plant

- <85-01> Electricity sale receipts covering this monitoring period
- <85-02> Electrical Connection Scheme of the Plant
- <85-03> Calibration Certificates for Meter Measurement with the validity covering this monitoring period

<85-04> Contract of power combined to the grid

<85-05> Business License

Document Review List for Sampling Project No. 86: Gaoqiaohe Hydroelectric Plant

<86-01> Electricity sale receipts covering this monitoring period

<86-02> Electrical Connection Scheme of the Plant

<86-03> Calibration Certificates for Meter Measurement with the validity covering this monitoring period

<86-04> Contract of power combined to the grid

<86-05> Business License

Document Review List for Sampling Project No. 87: Zhuyeshan Hydroelectric Plant

<87-01> Electricity sale receipts covering this monitoring period

<87-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period

<87-03> Business License

<87-04> Power Purchasing Agreement

<87-05> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No. 91: Dashi Stage III Hydroelectric Plant

<91-01> Electricity sale receipts covering this monitoring period

<91-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period

<91-03> Business License

<91-04> Electrical Connection Scheme of the Plant

Document Review List for Sampling Project No.94: Zhenyuan County Xiaojiehe Hydropower Station

<94-01> Electricity sale receipts covering this monitoring period

<94-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period

<94-03> Business License

<94-04> Electrical Connection Scheme of the Plant

<94-05> Power Purchasing Agreement

Document Review List for Sampling Project No. 97: Yunnan Province Jinping County Menggiao Village Datan Hydropower Station

<97-01> Electricity sale receipts covering this monitoring period

- <97-02> Calibration Certificates for Meter Measurement with the validity covering this monitoring period
- <97-03> Electrical Connection Scheme of the Plant
- <97-04> Business License
- <97-05> Power Purchasing Agreement

APPENDIX B: RESOLUTION OF CORRECTIVE ACTION REQUESTS AND CLARIFICATION REQUESTS

1 CAR, 1 CL and 0 FAR were raised in this 8th verification.

Findings	PP's response	Verification teams conclusion
CAR-1: The electricity imported from the grid of some projects is not correctly calculated.	All errors have been corrected and updated.	The verification team has checked the revised ER's sheet, MR and relevant evidences and confirmed all the errors have been corrected. Hence, this CAR is closed.
CL-1: Some evidences of the calibration are not fully provided.	The evidences of the calibration have been provided.	The verification team has checked the provided evidences and confirmed all the necessary evidences of the calibration have been provided. Hence, this CL is closed.