GOLD STANDARD VERIFICATION/CERTIFICATION REPORT

Final

"Duzova Wind Power Project, Turkey"
in
Turkey

Monitoring period: 01/06/2013 to 30/09/2014

Report N° 2014-TQ-45-MD

Revision N° 1.2 Aa

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Project Title:	Country:	Estimated VERs (tCO2e):
Duzova Wind Power Project, Turkey	Turkey	105,901
GS Registration Reference N°:	**Monitoring period:**	**Certified VERs (tCO2e):**
672	01/06/2013 to 30/09/2014	88,425
Client:	**Client contact:**	
Utopya Elektrik Uretim Sanayi ve Tic. A.S.	Ozlem COLAK	
Report No.:	**Revision:**	**Date of this report:**
2014-TQ-45-MD	1.2 Aa	20/01/2015
Approved by (Final Report – Authorized officer signing for the DOE):		**Date of approval:**
Laura Severino		22/01/2015

Methodology

Number:	Version:	Title:	Scale	SS(s):
ACM0002	11 of 12/02/2010	Consolidated baseline methodology for grid-connected electricity generation from renewable sources	Large	1

RINA Services S.p.A. (RINA), commissioned by Utopya Elektrik Uretim Sanayi ve Tic. A.S., has verified the greenhouse gas emission reductions reported for the project activity "Duzova Wind Power Project, Turkey" in Turkey, GS Registration Reference N° 672, for the period 01/06/2013 to 30/09/2014, with regard to the relevant requirements for CDM and GS activities. The verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable GS VER requirements, which refer to CDM rules, in order to be certified.

The project was validated by TÜV Rheinland (validation report N° 212149, version 02.2 issued on 05/10/2010).

The GHG emission reductions were calculated on the basis of the approved methodology ACM0002, version 11.0, Consolidated baseline methodology for grid-connected electricity from renewable sources of 12/02/2010 and the monitoring plan included in the registered Project Design Document, version 13 of 18/03/2014.

In conclusion, it is RINA's opinion that the project activity "Duzova Wind Power Project, Turkey", in "Turkey, as described in the Monitoring Report version 4.3 of 20/01/2015, meets all relevant requirements for GS and CDM activities and all relevant host Party criteria and correctly applies the baseline and monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 11.0.0 of 12/02/2010. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/06/2013 to 30/09/2014 amount to 88,425 tCO_{2e}.

Baseline Emissions	88,425	tCO_{2e}
Project Emissions	0	tCO_{2e}
Leakage	0	tCO_{2e}
Net GHG emission reductions/removal	88,425	tCO_{2e}

Work carried out by:
Tugce KIRATLI

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Work verified by (Final Report)
Rita Valoroso

Keywords:
Climate Change, Kyoto Protocol, Verification, Gold Standard

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Abbreviations

BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CDM-PCP	Clean Development Mechanism Project Cycle Procedure
CDM-PS	Clean Development Mechanism Project Standard
CDM-VVS	Clean Development Mechanism Validation and Verification Standard
CER(s)	Certified Emission Reduction (s)
CH_4	Methane
CR	Clarification Request
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
ER	Emission Reductions
GHG(s)	Greenhouse gas(es)
GS	Gold Standard
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LSC	Large scale
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
PMUM	Market Financial Conciliation Center (Piyasa Mali Uzlastirma Merkezi)
Ref.	Document Reference
RINA	RINA Services Spa
SDI	Sustainable Development Indicator
SGK	Social Security Institution
SS(s)	Sectoral Scope(s)
SSC	Small Scale
TEIAS	Turkish Electricity Transmission Company (Turkiye Elektrik Iletim A.S.)
UNFCCC	United Nations Framework Convention on Climate Change
VERs	Verified Emission Reduction(s)

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1 INTRODUCTION

Utopya Elektrik Uretim Sanayi ve Tic. A.S. has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered “Duzova Wind Power Project, Turkey” project in Turkey, GS Registration Reference N° 672, for the period 01/06/2013 to 30/09/2014.

This report summarizes the findings of the verification of the project, performed on the basis of GS VER requirements, which refer to CDM rules, as well as criteria given to provide for consistent project operations, monitoring and reporting.

1.1 Objective

The objective of the verification is to have an independent review ex post determination by a Designated Operational Entity (DOE) of the monitored reductions in GHG emissions that have occurred as a result of the registered GS project activity during a defined monitoring period and to monitor the impact of project activity on sustainable development, throughout the monitoring of the non-neutral Sustainable Development Indicators and moreover to monitor all the mitigation and compensation measures put in place. Certification is the written assurance by the DOE that, during a specific time period, a proposed GS project activity achieved the reductions in anthropogenic emissions by sources of GHGs as verified and that all the defined Sustainable Development Indicators to be monitored have been monitored according to the sustainability monitoring plan and that all the mitigation measures forecast have been correctly and effectively implemented.

The objective of this verification/certification was to verify and certify emission reductions and effective implementation of the monitoring of sustainable development indicators and mitigation measures, reported for the “Duzova Wind Power Project, Turkey” project in Turkey for the period 01/06/2013 to 30/09/2014.

1.2 Scope

The verification scope is:

- to verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- to evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- to verify that reported GHG emission data is sufficiently supported by evidence;
- to evaluate whether all the mitigation measures have been effectively put in place according to the monitoring plan and that all the sustainable development indicators have been correctly monitored.

Verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable GS VER requirements which refer to CDM rules, in order to be certified.

UNFCCC criteria for CDM refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, and the subsequent decisions by the CDM Executive Board.

The GS criteria refer to GS requirements, GS Toolkit and supporting annexes.

Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring.

2 METHODOLOGY

Verification was conducted using RINA procedures in line with the requirements specified in the GS Requirements, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant decisions of the COP/MOP and the CDM EB and applying standard auditing techniques.

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The verification consisted of the following three phases:

- Desk review;
- On-site assessment:
- The resolution of outstanding issues and the issuance of the final verification report and certification.

The following sections outline each step in more detail.

2.1 Desk Review

The monitoring report version 4.3 of 20/01/2015 /3/, the emission reduction calculations provided in the form of a spreadsheet "Düzova-Baseline-Calculation_v5.xlsx" version 5 submitted on 17/11/2014 /9/, the approved baseline and monitoring methodology ACM0002 version 11.0.0 /7/ and all the documentation provided to support the monitoring period /1-34/ were assessed as part of the verification. In addition, the Project Design Document (PDD) /1/, in particular as regards the baseline estimations, the monitoring plan, and the validation report revision 02.2 of 05/10/2010 /8/ for the project were reviewed.

The following table lists the documentation that was reviewed during the verification.

/1/	FutureCamp: CDM-PDD for "Duzova Wind Power Project, Turkey" in Turkey, version 13 of 18/03/2014
/2/	FutureCamp: GS-Passport for "Duzova Wind Power Project, Turkey" in Turkey of 18/03/2014
/3/	FutureCamp: Monitoring report for project activity "Duzova Wind Power Project, Turkey" in Turkey, version 4.3 of 20/01/2015 related to the monitoring period 01/06/2013 to 30/09/2014 FutureCamp: Monitoring report for project activity "Duzova Wind Power Project, Turkey" in Turkey, version 4.2 of 17/11/2014 related to the monitoring period 01/06/2013 to 30/09/2014 FutureCamp: Monitoring report for project activity "Duzova Wind Power Project, Turkey" in Turkey, version 4.1 of 04/11/2014 related to the monitoring period 01/06/2013 to 30/09/2014 FutureCamp: Monitoring report for project activity "Duzova Wind Power Project, Turkey" in Turkey, version 4.0 of 01/09/2014 related to the monitoring period 01/06/2013 to 30/09/2014
/4/	Gold Standard Foundation: Gold Standard Requirements, version 2.1 of 01/07/2009
/5/	Gold Standard Foundation: Gold Standard Toolkit, version 2.1 of 01/07/2009
/6/	CDM Executive Board: Validation and Verification Standard, version 07.0 of 01/06/2014
/7/	CDM Executive Board: Baseline and monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 11 of 12/02/2010
/8/	TÜV Rheinland: Validation Report for "Duzova Wind Power Project, Turkey" No. 21212149 revision 02.2 of 05/10/2010
/9/	FutureCamp: Emission Reduction Calculation Spreadsheet "Düzova-Baseline-Calculation_v5.xlsx" version 5, submitted on 17/11/2014 FutureCamp: Emission Reduction Calculation Spreadsheet "Düzova Baseline Calculation_v4.xlsx" version 4, submitted on 17/10/2014 FutureCamp: Emission Reduction Calculation Spreadsheet "Düzova Baseline Calculation_v31.xlsx" version 3.1, submitted on 02/09/2014
/10/	CDM Executive Board: Monitoring Report Form (CDM-MR-FORM), version 04.0 of 25/06/2014
/11/	RINA: 3rd Verification Report for "Duzova Wind Power Project, Turkey" in Turkey, No. 2013-TQ-33-MD revision 1.4 of 06/11/2013
/12/	The Gold Standard Foundation: Duzova Wind Power Project, Turkey (GS 672) 3-week Registration Review Period Document of 03/01/2014
/13/	Market Financial Settlement Center (PMUM): All Monthly Electricity Records from 01/06/2013 to 31/09/2014
/14/	Turkish Electricity Transmission Company (TEIAS): Meter Reading Records from 01/06/2013 to 31/09/2014

/15/	Doga Arastirmalari Dernegi: Ornitology Report for Duzova WPP of September-November 2013 Doga Arastirmalari Dernegi: Ornitology Report for Duzova WPP of September 2014
/16/	Energy Market Regulatory Authority: Communiqué for Measurement Devices used in the Electricity Market of 22/03/2003
/17/	The Ministry of Trade and Industry: Regulation of Metering and Testing of Metering Systems of 24/07/1994
/18/	Akustik Cevre Yonetimi Laboratuvar Mühendislik Hizmetleri Ins. Makine Kimya San. Ve Tic. Ltd. Sti. Environmental Noise Assessment Report of 18/03/2014
/19/	Ministry of Environment and Forests: National Waste Transfer Form (Synthetic Oils Processing), No. 0855902 of 26/03/2014
/20/	Ministry of Environment and Forests: National Waste Transfer Form (Waste Filter - Contaminated Waste Rags and Gloves), No. 0855902 of 26/03/2014
/21/	Social Security Institution: Payroll Sheet for 2 Employee, submitted on 30/09/2014
/22/	Photos of the Electricity Meters with serial no 00388184 and 00388185, submitted of 02/09/2014
/23/	Detam: Attendance List for Quality Management System Training (11 Employee) of
/24/	Detam: Certificate of ISO 9001, ISO 14001 and OHSAS 18001 Internal Auditor Trainings (for 2 Employees) of 11/07/2014
/25/	Lutfi SIRRI: Program and Attendance List of Fire Safety Awareness Training of 21/07/2014 (14 Employees)
/26/	Energy Market Regulatory Authority: Generation License EU/1179-22/851 of 03/05/2007 amended on 25/12/2013
/27/	The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 21/03/2014 (for 4 turbines)
/28/	TEIAS: Test Reports of the Electricity Meters with a Serial No. 388184 and 388185 of 22/03/2013
/29/	TEIAS: First Index Protocol of the Electricity Meters with a Serial No. 65007594 and 65007595 of 22/03/2013
/30/	Pictures of the Electricity Meters for Transformer A and Transformer B, taken of 30/09/2014
/31/	Pictures of the Improved Roads, taken of 30/09/2014
/32/	Pictures of the Storage Area of the Hazardous Wastes, taken of 30/09/2014
/33/	Turkiye Cumhuriyeti: The Consents and Acquaintances for 2 People, of 18/11/2013
/34/	Utopya Elektrik Uretim Sanayi ve Tic. A.S.: Official Report About the Test Production of Electricity of 30/03/2014

2.2 On-site assessment

On 30/09/2014, RINA visited wind power plant located in Asagikiriklar Village of Bergama District, Izmir province of Turkey. During the on-site assessment of the project, RINA assessed the implementation and operation of the proposed project activity, reviewed the information flows for generating, aggregating and reporting the monitoring parameters, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant, checked the monitoring equipment including calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions, checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters, checked the correct and effective implementation of the mitigation measures foreseen in the sustainability monitoring plan, to prevent violation or the risk of violating a safeguarding principle of the “Do No Harm” Assessment or to “neutralize” a Sustainable Development Indicator.

The project area was visited on 30/09/2014. The project employee were interviewed about the implementation status of the project, monitoring equipment and operation, generated electricity, dust

emission, noise emissions, implementation of the new turbines, improvement of the roads, payments to the land owners, ornithology report, wastewater treatment, hazardous wastes, trainings, local employment of the project activity.

During the construction of the new turbines, Suleymanli Village paths are used in order to transfer the turbines to the project area. The roads were improved and paved as confirmed through the pictures /31/. In addition, the stakeholders were interviewed about the dust emission, noise emissions, implementation of the new turbines, improvement of the roads, payments to the land owners. As per the interviews, they mentioned that, the project owner has fulfilled all the duties incumbent upon about the watering the roads and the measurements for the noise emissions /15/.

Also, the storage area of the hazardous was seen during the site visit as confirmed through the pictures /32/.

The key personnel interviewed and the main topics of the interviews are summarized in the table below.

	Date	Name and Role	Organization	Topic
/a/	30/09/2014	Aysun KARASOY *Project Specialist*	Fina Enerji	Implementation status of the project Monitoring equipments and operation Generated Electricity Monitoring of Gold Standard Parameters Dust Emission Noise Emission Trainings Implementation of the new turbines Improvement of the roads Payments to the land owners Ornithology report Wastewater treatment Hazardous wastes Local employment
/b/	30/09/2014	Sahin GUNBAY *Project Manager*	Fina Enerji	
/c/	30/09/2014	Burcu ISIK *Assistant Specialist*	Fina Enerji	
/d/	30/09/2014	Mahmut ODABASI *Project Operator*	Fina Enerji	
/e/	30/09/2014	Ramazan ASLAN *Project Consultant*	FutureCamp	
/f/	30/09/2014	Fırat EZIN *Specialist*	FutureCamp	
/g/	30/09/2014	Omer SENER *Technician*	Fina Enerji	Benefit of the project to the village Dust Emission Noise Emission Implementation of the new turbines Improvement of the roads Payments to the land owners Local employment
/h/	30/09/2014	Muharrem OYMAN *Retired*	Asagikiriklar Village	
/i/	30/09/2014	Kazım GOKCE *Retired*	Asagikiriklar Village	
/j/	30/09/2014	Mustafa HOSYILMAZ *Retired*	Asagikiriklar Village	
/k/	30/09/2014	Hasan BEY *Driller*	Asagikiriklar Village	

2.3 Resolution of outstanding issues

The objective of this phase of the verification is to resolve any outstanding issues which need to be clarified for RINA's positive conclusion on the monitoring report and emission reductions.

To guarantee transparency a verification protocol has been customized for the project. The protocol shows in a transparent manner the requirements, means of verification and the results from verifying the identified criteria. The verification protocol consists of three tables; the different columns in these tables are described in the figure below (see Figure 1).The completed verification protocol is enclosed in Appendix A to this report.

A corrective action request (CAR) is raised if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions;
- Issues identified in a FAR during validation to be verified during verification have not been resolved by the project participants.

A clarification request (CR) is raised if information is insufficient or not clear enough to determine whether the applicable GS VER requirements, which refer to CDM rules, have been met.

CARs, CRs identified are included in the verification protocol in Appendix A of this report.

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Figure 1 Gold Standard Verification protocol tables

Verification Protocol, Table 1 - Requirement checklist				
Checklist Question	**Ref.**	**MoV**	**Comments**	**Conclusion**
Checklist questions organized in five different sections.	Makes reference to documents where the answer to the checklist question or item is found.	Explain how conformance with the checklist question is investigated. Examples are document review (DR), interview or any other follow-up actions (I), cross checking (CC) with available information relating to projects, (N/A) means not applicable.	The discussion on how the conclusion is arrived at and the conclusion on the compliance with checklist question so far.	For CAR and CR see the definitions above. OK is used if the information and evidence provided is adequate to demonstrate compliance with GS VER/CDC requirements which refer to CDM rules.

Verification Protocol, Table 2: Resolution of Corrective Action Requests and Clarification			
Corrective action requests and/or clarification requests	**Reference to Table 1**	**Response by project participants**	**Verification Conclusion**
The CAR and/or CRs raised in table 1 are repeated here.	Reference to the checklist question number in Table 1 where the CAR or CR is explained.	The responses given by the project participants to address the CARs and/or CRs.	The verification team's assessment and final conclusion of the CARs and/or CRs.

Verification Protocol, Table 3 - Forward Action Requests		
Forward action request	**Reference to Table 1**	**Response by project participants** **Verification Conclusion**
The FAR raised in table 1 is repeated here.	Reference to the checklist question number in Table 1 where the FAR is explained.	Response by the project participants on how forward action request will be addressed.

2.4 Internal quality control

All the revisions of the verification report, before being submitted to the client, were subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions.

The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for CDM/GS validation and verification.

2.5 Verification team and the technical reviewer(s)

The verification team and the technical reviewers consist of the following personnel:

Role/Qualification	Last Name	First Name	Type of involvement*					
			DR	SV	REP	TE	TR	TER
GS Team Leader, GS Verifier, GS Technical Expert	KIRATLI	Tugce	X	X	X	X		
Technical Reviewer	VALOROSO	Rita					x	

*DR: Document Review; SV: Site Visit/Interview; REP: Reporting; TE: Technical Expert in Technical Area; TR: Technical Review; TER: Technical Expert in Technical Area for Technical Review.

3 VERIFICATION FINDINGS

The findings of the verification related to the monitoring period from 01/06/2013 to 30/09/2014 as documented and described in the monitoring report version 4.3 of 20/01/2015 /3/ are stated in the following sections.

The verification requirements, the means of verification and the results from verifying the identified criteria are documented in more detail in the verification protocol in Appendix A.

3.1 Description of the project activity

The main information of the project is summarized in the table below.

Project Participant(s)	Utopya Elektrik Uretim Sanayi ve Tic. A.S.		
Project Title	Duzova Wind Power Project, Turkey		
Location of the project	Asagikiriklar Village of Bergama District, Izmir Province of Turkey		
Methodology(ies)	ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 11.0.0 of 12/02/2012 /7/		
Sectoral Scope(s)	1	**RINA's Technical Area(s)**	1.2
Registered PDD	Revision 13 of 18/03/2014		
Date of registration	22/11/2010	**GS Registration Reference N°**	672

Starting date of the crediting period	11/08/2009
Project's crediting period	11/08/2009 to 10/08/2016
Monitoring period	01/06/2013 to 30/09/2014
Project documentation link	http://mer.markit.com/br-reg/public/project.jsp?project_id=103000000002255

The project activity is a wind power plant that consists of 20 wind turbines; each of them has 2500 kW capacity, making the total installed capacity of 50 MWe as confirmed through the Generation License /26/. The total installed capacity will be limited with 50 MWe as written in the registered PDD /1/. The generated electricity is fed to the national grid. The estimated net electricity production is 152,900 MWh/year and the annual emission reductions are estimated to be 92,015 tCO_2e.

The project activity aims to reduce the greenhouse gas emissions in Turkey by replacing fossil fuel power generation and contribute to the development of the wind energy sector in Turkey. The project activity aims to support the local economy by creating local employment and providing equipment locally.

3.2 Remaining issues (FARs) from previous validation or verification

Based on the review of the previous verification report performed by RINA /11/, 2 FARs were identified.

FAR#1: The DOE shall please ensure to interview stakeholders that might have been affected by the design change during the third & fourth periodic verification.

During on site visit on 30/09/2014, the stakeholders were interviewed about the effects of the design change on fourth monitoring period of 01/06/2013 to 30/09/2014. The villagers explained that first they were worried about the pasture area but then they agreed that turbines shadows have become useful for the animals. The villagers said that there is no detrimental effect on the cultivated areas by the project activity. Hence, FAR#1 is closed.

FAR#2: Verification DOE shall conduct interviews with the stakeholders in a public place (village coffee place and or other) during verification site visit and obtain feedbacks on design change implementation and SD aspects of the project.
During the construction of the new turbines, Suleymanli Village paths are used in order to transfer the turbines to the project area. The roads were improved and paved as confirmed through the pictures /31/. In addition, the stakeholders were interviewed about implementation of the new turbines. The villagers explained that first they were worried about the pasture area but then they agreed that turbines shadows have become useful for the animals. The villagers said that there is no detrimental effect on the cultivated areas by the project activity. Hence, FAR#2 is closed.

3.3 Monitoring Report

The Monitoring Report for the project activity "Duzova Wind Power Project, Turkey", in "Turkey", version 4.3 of 20/01/2015 submitted by the Utopya Elektrik Uretim Sanayi ve Tic. A.S. has been the basis for the vrification process.

The main changes between the MR version 4.0 of 01/09/2014 at the starting date of the verification activity and the MR version 4.3 of 20/01/2015 submitted for registration are the following:

Section of the MR	Description and reason for changing the information in that section
First Page	The format of the dates are revised as DD/MM/YYYY. The estimated and the actual emission reduction of this monitoring period was revised as per adding the last 2 months.
A.1. Purpose and general description of project activity	The turbine specifications were revised as per the generation license.
C.1 Calibration Procedures	The calibration date of the electricity meters was presented in the monitoring report. The serial no of the four electricity meters were revised as per the current situation.
D.1. Data and parameters fixed ex ante or at renewal of crediting period	The parameter "Combined margin CO_2 emission factor for grid connected power generation in year *y*." is now discussed in the monitoring report. The format of the tables were corrected as per the MR form.
D.2. Data and parameters monitored	The value of data is revised for the parameter of $EG_{facility,y}$ as per the adding 2 months.
E.4. – E.5. – E.6. – E.7.	The necessary corrections were made after adding the last 2 months to the calculation excel sheet.
F.1. Sustainable Development Indicators that have to be monitored	The recalculations were made for the sustainable monitoring parameters since the value of generated electricity is changed. The necessary photos were presented under the parameters.

RINA confirms that the above MR is based on the currently valid MR template /10/ and is completed in accordance with the applicable guidance document /10/.

3.4 Project implementation

Actual implementation of the registered project activity

It was verified during the site visit conducted on 30/09/2014 that the proposed project activity has been implemented and it is in operation in accordance to the project activity described in the registered PDD /1/.

It is confirmed during the site visit that the project has commissioned in four phases. First 6 turbines with 15 MWm/15 MWe capacity was put in operation on 11/08/2009 and additional 6 turbines with 15 MWe capacity was put in operation on 01/09/2010 enabling installed capacity of project to reach to 30 MWm/30 MWe and additional 4 turbines with 10 MWm capacity was put in operation on 12/03/2013 and 16/05/2013 enabling installed capacity of project to reach to 40 MWm/30 MWe, and additional 4 new turbines with 10 MWe capacity was put in operation on 21/03/2014 enabling installed capacity of project to reach to 50 MWe. The project activity has started operation on 11/08/2009 according to the registered PDD /1/.

The project activity consists of 20 wind turbines; each of them has 2500 kW capacity, making the total installed capacity of 50 MWe as confirmed through the Generation License /26/. Technical details of the wind turbines comply with the registered PDD /1/. It is confirmed during the site visit that all installed turbines are GE 2.5xl and 2.75xl model, with 2.5 MWe (electrical limited) power. The total installed capacity will be limited with 50 MWe. The project boundary in the registered PDD /1/ is in line with the actual project boundary. The generated electricity is fed to the national grid.

Based on the onsite inspection and checking the above documents, RINA confirms that the project activity has been implemented and it is in operation as described above in accordance with the project activity in the registered PDD /1/.

Post registration changes

N/A

3.5 Methodology for determining Emission Reductions.

According to the applied methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 11.0.0 of 12/02/2010 /7/, the emission reductions have been calculated based on the following formula:

$ER_y = BE_y – PE_y – L_y$

ER_y : Emission reductions in year y (t CO_2e/yr)
BE_y : Baseline emissions in year y (t CO_2e /yr)
PE_y : Project emissions in year y (t CO_2/yr)
L_y : Leakage emissions in year y (t CO_2/yr)
y : Refers to a given period

Baseline emissions include only CO_2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, calculated as follows:

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

Where:

BE_y	: Baseline emissions in year y (tCO_2/yr)
$EG_{PJ,y}$	: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y(MWh/yr)
$EF_{grid,CM,y}$	: Combined margin CO_2 emission factor for grid connected power generation in year y (tCO_2/MWh)

The electricity meters are measuring two parameters: The electricity supplied to the grid (EGexport) and the electricity consumption from the grid (EGimport). To achieve the net amount of supplied electricity, the difference has to be calculated:

$GEN_y = EG_{export} – EG_{import}$

Where:

GEN_y	=	Net electricity supplied to the Grid in MWh (ID 1)
EG_{export}	=	Electricity supplied to the Grid in MWh
EG_{import}	=	Electricity consumption from the Grid in MWh

The proposed project activity involves the generation of electricity by development of a wind farm. The generation of electricity does not result in greenhouse gas emissions and therefore project emissions are neglected as per the ACM0002 /7/.

The leakage emissions are neglected as per the ACM0002 /7/.

Since the project and leakage emissions are zero, the emission reduction equals to baseline emissions.

3.5.1 Compliance of the monitoring plan with the monitoring methodology and applicable methodological tools

The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 11.0.0 /7/. RINA confirms that the monitoring plan in the registered PDD /1/ complies with the

applied CDM methodology and the sustainability indicators established by the Appendix D of the Gold Standard requirements /4/.

3.5.2 Deviation in GHG emission reduction

Additionality assessment has been performed according to the "Tool for the demonstration and assessment of additionality" approved by UNFCCC in the registered PDD /1/. The baseline scenario selection and the calculation of emission reductions have been carried out in a conservative manner. An approved CDM methodology, ACM0002 version 11.0.0 has been applied in order to determine the baseline scenario and calculate emission reductions.

3.5.3 Compliance of monitoring with monitoring plan

The monitoring plan presented in the monitoring report version 4.3 of 20/01/2015 and the previous versions for the period of 01/06/2013 to 30/09/2014 (both days included) /3/ complies with the monitoring plan in the registered PDD /1/.

The only monitoring parameter is "Net electricity generation delivered to the grid (EGfacility,y) as per the registered monitoring plan presented in the registered PDD /1/. The parameter is monitored continuously by four electricity meters that are located at the project activity. Four electricity meters are installed at the project site. In Transformer A; one is the main meter (Elster, A1500 with serial number 388184) and the other one is the backup meter (Elster, A1500 with serial number 38185). In Transformer B; one is the main meter (Elster, A1500 with serial number 65007594) and the other one is the backup meter (Elster, A1500 with serial number 65007595) as confirmed through the photos /22/ and test report /28/. The accuracy of the Transformer A meters are 0.2s as confirmed through the test report /28/ and the Transformer B meters are 0.5s as confirmed through the first index protocol /29/. The accuracy class of the meters complies with the "Communiqué for Measurement Devices used in the Electricity Market" /16/. The electricity meters are sealed by TEIAS as confirmed during the site visit. TEIAS is responsible for calibration and maintenance of the devices as per the registered PDD. The project owner has no control on the meters since the meters are sealed by the TEIAS. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. The Transformer A meters have been calibrated by TEIAS on 06/07/2019 as confirmed through the previous verification report /11/. The Transformer B meters have been calibrated by TEIAS on 22/03/2013 as confirmed through the First Index Protocol /29/. As per the "'Regulation of Metering and Testing of Metering Systems", the meters shall be calibrated every 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /17/. Also the meters are controlled by TEAIS on 22/03/2013 according to the control forms /28/. By the end of each month, the electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters through Automatic Meter Reading System (OSOS) by the TEIAS personnel since January 2012. Also the PMUM records are available for the project participant. All protocols /13/ /14/ within this monitoring period was checked during the site visit. The PMUM records /13/ were crosschecked with the Monthly Meter Reading Protocols /14/. The Monthly Meter Reading Protocols, PMUM records and emission reduction calculation spreads sheet /9/ are in line. During the monitoring period of 01/06/2013 to 30/09/2014 (both days included) the net electricity supplied to the grid amount to 146,935 MWh and the emission reductions to 88,425 tCO2e.

According to the monitoring plan in the registered PDD /1/ and in the monitoring report version 4.3 of 20/01/2015 /3/, the following sustainability parameters are monitored: "Air Quality", "Water Quality and Quantity", "Soil Condition", "Other Pollutants", "Biodiversity", "Quality of Employment", "Quantitative Employment and Income Generation", "Balance of payment and investments", "Technology Transfer and Technological self-reliance".

The following parameters have been monitored in accordance with the monitoring plan in the registered PDD /1/ and the monitoring report /3/.

3.5.3.1 Data and parameters fixed ex-ante or at renewal crediting period

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
EF Baseline emission factor	TEIAS statistics	0.6018 tCO_2/MWh	As per the approved methodology ACM0002 version 11.0.0, the combined emission factor has been determined using the ex-ante option and so it is not requested to monitor and recalculate the emission factors during the crediting period. The combined emission factor is determined to be 0.6018 tCO_2/MWh in the registered PDD /1/ and validation report /8/.

3.5.3.2 Sampling plan

Not available.

3.5.3.3 Data and parameters monitored ex-post

DATA/PARAMETER	$EG_{facility,y}$
Data Unit	MWh/yr
Description	Net electricity delivered to the grid
Source of data to be used	PMUM (Market Financial Settlement Center) records and Monthly Meter Reading Records of main meters are cross-checked
Value data for the monitoring period	146,935.67
Measuring and reporting frequency; recording procedure.	Monitored and recorded hourly in the PMUM system and monthly aggregation is made.
Type of monitoring equipment and its accuracy	Four electricity meters are installed at the project site. In Transformer A; one is the main meter (Elster, A1500 with serial number 388184) and the other one is the backup meter (Elster, A1500 with serial number 38185). In Transformer B; one is the main meter (Elster, A1500 with serial number 65007594) and the other one is the backup meter (Elster, A1500 with serial number 65007595) as confirmed through the photos /22/ and test report /28/ performed by TEIAS.
Calibration frequency/interval	TEAIS is responsible for calibration and maintenance of the devices as per the registered PDD. The project owner has no control on the meters since the meters are sealed by the TEIAS. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. The Transformer A meters have been calibrated by TEIAS on 06/07/2019 as confirmed through the previous verification report /11/. The Transformer B meters have been calibrated by TEIAS on 22/03/2013 as confirmed through the First Index Protocol /29/. As per the "'Regulation of Metering and Testing of Metering Systems", the meters shall be calibrated every 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /17/. During on-site assessment, it was confirmed that the meters are in place and functions well. During the monitoring period, no brake down has been recorded.
How were the values in the monitoring report verified and cross-checked?	The net electricity supplied to the grid has been crosschecked with the Monthly Meter Reading Protocols /14/.
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions?	By the end of each month, the electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters by Automatic Meter Reading System (OSOS) by the TEIAS personnel since January of 2012. Also the PMUM records are available for the project participant. All protocols /13/ /14/ within this monitoring period was checked during the site visit. The PMUM records /13/ were crosschecked with the monthly meter reading protocols /14/. The plant personnel records the electricity generation

	from the meters and the responsible engineer checks the figures regularly. In the case of difference between the data, TEIAS will be informed. The electricity generation supplied to the grid and electricity consumption from the grid is stored by PMUM on the web site. The Project owner has an ID and password to access this data on the web site. The project owner can easily access the data by using this portal.
If 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?	All the data were available for the whole monitoring period.

3.5.3.4 Gold Standard sustainability monitored parameters

Data variable	Source of Data	Reported value for the project period
Air Quality (SDI. 1)	Electricity Generation	NO_x (161,97 tons/MR), CO (21,42 tons/MR) and NMVOC (5,42 tons/MR) Emissions Calculation
Assessment		
The air quality parameter is monitored with calculation of the NOx, CO and MNVOC emissions due to the electricity generation in 2007. During this monitoring period, the value of NOx is calculated as 161,97 tons; the value of CO is calculated as 21.42 tons; the value of NMVOC is calculated as 5.42 tons as confirmed through the calculation excel sheet /9/.		

Data variable	Source of Data	Reported value for the project period
Water Quality and Quantity (SDI. 2)	Statement of Village Mayor	Disposal of wastewater
Assessment		
Discharged wastewater is monitored with the statement from Mukhtar of the Asagikiriklar Village given in the Figure 1 of the monitoring report /3/. According to the document, the wastewater is collected and disposal with a vacuum truck by the Municipality.		

Data variable	Source of Data	Reported value for the project period
Soil Condition (SDI. 3)	Photos, Delivered Record, Collection Form	Amount of Waste Oil Land utilization
Assessment		
Amount of Waste Oil is monitored with the photos of storage area of the hazardous wastes /32/ and receipt for transfer to recycling facility /20/. In addition, it is confirmed that the land is rehabilitated during on site-visit.		

Data variable	Source of Data	Reported value for the project period
Other Pollutants (SDI. 4)	Statement of Village Mayor Environmental Noise Assessment Report	Dust Emission Noise Pollution
Assessment		
The parameter is monitored with the official letter from the Mukhtar of Asagikiriklar Village, the photos of the project area during construction and the noise measurement report /18/. According to the interviews with the stakeholders, the project owner has fulfilled all the duties incumbent upon about the watering the roads and the measurements for the noise emissions /15/. In addition, the noise measurements were performed from different points and the results shows that they are below the limits.		

Data variable	Source of Data	Reported value for the project period
Biodiversity (SDI. 5)	Ornithology Report	Number of bird strikes
Assessment		
Number of bird strikes is monitored with the Ornithology Report /15/ annually. According to the report, no strike of birds is observed. In addition, it is mentioned in the ornithology report that there is no risk to the life cycle of birds in the project area.		

Data variable	Source of Data	Reported value for the project period
Quality of Employment (SDI. 6)	Training Certificates	– Health and Safety Training – Operation and Maintenance Training
Assessment		
The parameter is monitored with the Health & Safety and Operation & Maintenance Trainings. The monitoring period from 01/06/2013 to 30/09/2014 two trainings /24/ /25/ were held for the employees.		

Data variable	Source of Data	Reported value for the project period
Quantitative Employment and Income Generation (SDI. 7)	Residence Certificate	2 new employees
Assessment		
Number of employment is monitored with the employment contracts. According to the Residence Certificate /21/, 2 new people have been hired during the operation of the power plant.		

Data variable	Source of Data	Reported value for the project period
Balance of Payment and Investment (SDI. 8)	TEIAS Statistics Duzova Baseline Calculation excel sheet	Amount of avoided Natural Gas
Assessment		
The parameter is monitored with TEIAS statistics for natural gas share in the electricity. According to the excel sheet /9/ of the project activity, the value for this monitoring period is calculated as 15,438 million m^3 in the monitoring report.		

Data variable	Source of Data	Reported value for the project period
Technology Transfer and Technological Self-Reliance (SDI. 9)	Training Certificates	Total number of trained employee
Assessment		
Total number of employee having operation and maintenance certificates is monitored. During on site visit it is confirmed that two employees (Mahmut Odabasi and Aysun Karasoy) get trained as confirmed through the training certificates /24/ /25/ in this monitoring period.		

3.5.4 Assessment of data and calculation of emission reductions

Availability of the data

All the monthly meter protocols /14/ are available for the project participant. All PMUM records /13/ within this monitoring period was checked during the site visit. The PMUM records /13/ were crosschecked with the monthly meter reading protocols /14/.

Cross-check reported data

The data of generated electricity are transferred correctly to the excel sheet /9/ and emission reduction is calculated correctly. The excel sheet is crosschecked with the PMUM records /13/ and the monthly meter reading protocols /14/ and it seems appropriate.

3.5.5 Accuracy of emission reduction calculations

The emission reduction calculations provided in the spreadsheet /9/ have been verified to be correct and in line with the registered PDD /1/.

The emission reductions from the project for the monitoring period as reported in the monitoring report version 4.3 of 20/01/2015 /3/ is equivalent to 88,425 tCO_2e. The reported emission reductions are

16.5% lower than the estimated emission reduction of 105,901 tCO_2e for the period as per the registered PDD /1/.

The data presented in the monitoring report /3/ were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidence was presented and verified by RINA for the reported emission reductions as listed in the above Section 3.4.3.2.

3.5.6 Accuracy of the GS indicators of sustainable development

All the documented evidences related to the sustainable monitored parameters such as the ornithology report /15/, photos of leak-prof oil tanks /32/, receipt for transfer to recycling facility /19/ /20/, environmental noise assessment report /18/, training records /23/ /24/ /25/ and payroll sheets /21/ are provided as objective evidences.

3.5.7 Management system and quality control

The electricity generation supplied to the grid and electricity consumption from the grid are read remotely from the electricity meters through Automatic Meter Reading System (OSOS) by the TEIAS personnel. The monthly meter reading protocols are prepared as per these readings. The plant personnel records the electricity generation from the meters and the responsible engineer checks the figures regularly. In case of difference between the data, TEIAS will be informed. The generated electricity is measured by two meters that were sealed by TEIAS. The project owner has no control on the meters.

The electricity generation supplied to the grid and electricity consumption from the grid is stored by PMUM on the web site. The Project owner has an ID and password to access this data on the web site. The project owner can easily access the data by using this portal. The project owner also archives a hardcopy of these protocols, scanned and stored electronically.
The collected data during the monitoring period will be kept by the project owner at least two years after the last issuance of VERs as stated in the registered PDD /1/ and monitoring report /3/ in line with the ACM0002 version 11.0.0 /7/.

4 VERIFICATION AND CERTIFICATION OPINION

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity "Duzova Wind Power Project, Turkey" in Turkey, GS Registration Reference N° 672, for the period 01/06/2013 to 30/09/2014, with regard to the relevant requirements for GS activities.

The project participants of the "Duzova Wind Power Project, Turkey" project are responsible for:

- the preparation of greenhouse gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered Project Design Document version 13 of 18/03/2014
- the development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project

It is the responsibility of RINA to express an independent verification opinion about the project's conformity with the requirements of paragraph 62 of the CDM modalities and procedures, GS requirements and on the reported greenhouse gas emission reductions from the project.

Based on documented evidence and corroborated by an on-site assessment RINA can confirm that:

- the project has been implemented and operated as per the registered PDD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable CDM and GS VER requirements;
- monitoring is in place as per the applied baseline and monitoring methodology;
- monitoring complies with the monitoring plan in the registered PDD;
- the monitoring plan in the registered PDD is as per the applied baseline and monitoring methodology.

It is RINA's opinion that the GHG emission reductions stated in the monitoring report version 4.3 of 20/01/2015 for the "Duzova Wind Power Project, Turkey" project in Turkey for the period 01/06/2013 to 30/09/2014 are fairly stated. The GHG emission reductions were calculated correctly, the sustainability development indicators were correctly monitored, on the basis of the approved monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected electricity from renewable sources", version 11.0.0 of 12/02/2010 and the monitoring plan contained in the registered PDD.

Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/06/2013 to 30/09/2014 amount to 88,425 tCO_2e.

Year 2013 01/06/2013 to 31/12/2013 43,434 tCO2e

Year 2013 01/01/2014 to 30/09/2014 44,991 tCO2e

GHG Emission Reductions or Removals	**tCO_2e**
Baseline Emissions	88,425
Project Emissions	0
Leakage	0
Net GHG emission reductions or removals	**88,425**

Istanbul, 21/01/2015

Tugce KIRATLI
GS Team Leader
RINA Denizcilik ve Belgelendirme Ltd. Sti.

Genova, 22/01/2015

Laura Severino
Authorized officer signing for the DOE
RINA Services S.p.A.

APPENDIX A

GOLD STANDARD VERIFICATION PROTOCOL

TABLE 1 REQUIREMENTS CHECKLIST

Checklist Question		Reference	MoV[1]	Comments	Conclusion
A	**Description of Project Activity**				
A.1	Title of the project activity, revision number and date of Monitoring Report	/1/ /3/	DR	The title of the project activity is given as "Duzova Wind Power Project, Turkey" in the Monitoring Report, version 4.0 of 01/09/2014 /3/ and it is in line with the registered PDD /1/ and GS Registry. However, the format of the dates should be revised as DD/MM/YYYY and the format of tables are not in line with the Monitoring Report Form, version 04.0 of 25/06/2014. Please revise.	~~**CR 1**~~ **OK**
A.2	Is the actual implementation and operation of the proposed project activity in accordance with the project activity in the registered PDD?	/1/ /26/	DR, CC, I	It is confirmed during the site visit performed on 30/09/2014 that project activity is implemented and operated as per the registered PDD /1/. The project activity consists of 20 wind turbines with a 50 MWe total installed capacity. It is confirmed during the site visit that all installed turbines capacities are 2.5 MWe. However, in section A.1 of the monitoring report, it is defined that 4 of them are 2.75 MW which is indicated the mechanical power and is not in line with the Generation License /26/. Please clarify and make sure all the given values are MWe in the monitoring report.	~~**CR 2**~~ **OK**
A.3	Methodology applied for the registered project activity	/1/ /7/	DR	The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 11.0.0 of 12/02/2010 /7/.	**OK**
B	**Monitoring**				
B.1	**Monitoring plan**				
B.1.1	Does the monitoring plan included in the registered GS project activity comply with the applied methodology?	/1/ /3/ /7/ /10/	DR, CC	The monitoring plan complies with the applied methodology ACM0002 version 11.0.0 /7/ by the registered GS project activity. Also, the latest version of the monitoring report template /10/ is applied.	**OK**

[1] MoV: DR document review, I interview, CC cross checking

Checklist Question		Reference	MoV[1]	Comments	Conclusion
B.1.2	Does the monitoring comply with the monitoring plan in the registered PDD?	/1/ /2/ /3/ /7/	DR, CC	The monitoring complies with the monitoring plan presented in the registered Passport /2/. The only parameter that needs to be monitored is "The net electricity delivered to the grid ($EG_{facility,y}$) as per the ACM0002 version 11.0.0 /7/ and registered PDD /1/. In addition, since the project is developed under Gold standard, the following GS sustainable development parameters are included in the monitoring plan: "Air Quality", "Water Quality and Quantity", "Soil Condition", "Other Pollutants", "Biodiversity", "Quality of Employment", "Quantitative Employment and Income Generation", "Balance of Payment and Investment", "Technology Transfer and Technological self-reliance".	**OK**
B.1.3	Do the sustainability indicators included in the monitoring report comply with the minimum contents specified in paragraph 4.1 of the GS toolkit?	/1/ /2/ /4/ /5/	DR, CC	The project activity is developed and registered under Gold standard Version 2.1; therefore, GS Toolkit 2.1 is applicable to the project activity. The sustainability indicators in the monitoring report complies with the sustainability indicators established by the Gold Standard.	**OK**
B.1.4	Have any changes been made to the key sustainable development indicators?	/1/ /2/ /7/	DR, CC	No change has been occurred during the monitoring period of 01/06/2013 to 30/09/2014.	**OK**
B.2	**Data and parameters that are available at validation and that are not monitored**				
B.2.1	Which parameters were available at validation and how were they verified?	/1/ /6/ /8/ /9/	DR, CC	As per the approved methodology ACM0002 version 11.0.0, the combined emission factor has been determined using the ex-ante option and so it is not requested to monitor and recalculate the emission factors during the crediting period. The combined emission factor is determined to be 0.6018 tCO_2/MWh in the registered PDD /1/, validation report /8/ and the emission reduction calculation excel-sheet /9/. However, it is not discussed in the "not monitoring parameters" of the monitoring report. Please add.	~~**CR 3**~~ **OK**
B.3 Data and parameters monitored					
B.3.1	Data/Parameter monitored / Data unit / Description /	/1/ /3/ /13/	DR, CC, I	***Electricity supplied by the project activity to the grid***	~~**CAR 1**~~

Checklist Question		Reference	MoV[1]	Comments	Conclusion
	Source of data to be used / Value data for the monitoring period	/14/		***($EG_{facility,y}$):*** The parameter is measured in MWh/yr and it is monitored by four electricity meters (2 for Transformers A and 2 for Transformers B) that are located at the project area. The net electricity generation and electricity consumption of the project activity is based on the PMUM official records /13/, which is the basis of invoices. The PMUM records are crosschecked with the monthly meter reading protocols /14/. Value of the monitored parameter for net electricity delivered to the grid ($EG_{facility,y}$) related to the monitoring period from 01/06/2013 to 30/09/2014 is not given in the monitoring report /3/. Estimated amount of GHG emission reductions given in the first page of the monitoring report is not in line with the registered PDD /1/. Please give the calculation of the estimated amount in the excel sheet with adding the last two months August and September 2014.	**OK**
B.3.2	Is the measurement equipment described? Is the accuracy of the measurement equipment addressed and deemed appropriate?	/2/ /16/ /22/ /28/ /29/	DR, CC,I	Four electricity meters are installed at the project site. In Transformer A; one is the main meter (Elster, A1500 with serial number 388184) and the other one is the backup meter (Elster, A1500 with serial number 38185). In Transformer B; one is the main meter (Elster, A1500 with serial number 65007594) and the other one is the backup meter (Elster, A1500 with serial number 65007595) as confirmed through the photos /22/ and test report /28/. However, the serial no of the electricity meters in Transformer A is not in line with the real situation. In addition, in Transformer B, the serial no of the backup meter is not in line with the first index protocol /29/. Please correct. The accuracy of the Transformer A meters are 0.2s as confirmed through the test report /28/ and the Transformer B meters are 0.5s as confirmed through the first index protocol /29/. The accuracy class of the	~~**CR 4**~~ **OK**

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				meters complies with the "Communiqué for Measurement Devices used in the Electricity Market" /16/. The electricity meters are sealed by TEIAS as confirmed during the site visit. In the monitoring report, it is defined that "*The TEIAŞ personnel came to the plant in the first days of the month for reading the recorded values obtained at 24:00 of the last day of the month before. The data of meter reading protocols which form the basis of net electricity figures were filled on the first day of every month to record the generation of previous month. A reading protocol was then signed by both parties*". However, the monthly meter readings are not signed by both parties and also now TEIAS personnel does not came to the plant anymore since the electricity generation is read remotely by Automatic Meter Reading System (OSOS).	
B.3.3	Are the requirements for maintenance and calibration of measurement equipment described and deemed appropriate?	/1/ /3/ /11/ /17/ /28/ /29/	DR, CC,I	TEIAS is responsible for calibration and maintenance of the devices as per the registered PDD /1/. The project owner has no control on the meters since the meters are sealed by the TEIAS. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. The Transformer A meters have been calibrated by TEIAS on 06/07/2019 as confirmed through the previous verification report /11/. The Transformer B meters have been calibrated by TEIAS on 22/03/2013 as confirmed through the First Index Protocol /29/. As per the "'Regulation of Metering and Testing of Metering Systems", the meters shall be calibrated every 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /17/. Also the meters are controlled by TEAIS on 22/03/2013 according to the control forms /28/. However, the calibration dates of the electricity meters should be given as dd/mm/yyyy and it should be discussed if the re-calibration is necessary or not for this	~~**CR 5**~~ **OK**

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				monitoring period. In addition, in the monitoring report, it is defined that the electricity meters in Transformer A is calibrated on 22/03/2013. However, according to the test report /28/, there is no re-calibration for the electricity meters. They are just tested to confirm the accurate measure of the meters and found acceptable. Therefore, no re-calibration is necessary during this monitoring period. Please correct.	
B.3.4	Is the monitoring frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/1/ /2/ /7/	DR, CC, I	The electricity generations supplied to the grid and electricity consumptions from the grid are monitored continuously by four meters as verified during the site visit. Monitoring frequency is in line with the applied methodology /7/ and registered PDD /1/.	**OK**
B.3.5	Is the recording frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/1/ /2/ /7/ /13/ /14/	DR, CC, I	During on site visit, it has been observed that the electricity generation supplied to the grid, electricity consumption from the grid is monitored and recorded hourly in the PMUM system, and monthly aggregation is made.	**OK**
B.3.6	Does data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions?	/1/ /2/ /7/ /11/ /13/ /14/	DR, CC, I	By the end of each month, the electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters by Automatic Meter Reading System (OSOS) by the TEIAS personnel since January of 2012 as confirmed during on site visit and the previous verification report /11/. The plant personnel records the electricity generation from the meters and the responsible engineer checks the figures regularly. In the case of difference between the data, TEIAS will be informed. Also the PMUM records are available for the project participant. The protocols /13/ /14/ within this monitoring period was checked during the site visit. The PMUM records /13/ were crosschecked with the monthly meter reading protocols /14/. However, during on site visit, PP decided to add two more months to the monitoring period. Therefore, please	~~**CAR 2**~~ **OK**

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				do the necessary changes (such as calculations, values of the estimated and actual emission reduction, etc.) in the monitoring report. Also, please provide the PMUM and monthly meter readings for the last two months added to the monitoring period. Please also add the Monthly meter readings to the calculation excel sheet to crosscheck with the PMUM as defined in the monitoring report. In addition, The emission reduction table given in the Section E.4 of the monitoring report is not in line with the real situation. According to the table it was seen that the project activity has both the project and leakage emissions although it is wind power project. Please clarify.	
B.4 Monitoring of GS indicators of sustainable development /environmental impacts					
B.4.1	Data/Parameter monitored / Data unit / Description / Source of data to be used / Value data for the monitoring period	/2/ /3/ /15/ /18/ /20/ /21/ /24/ /25/ /31/ /32/	DR, CC, I	The following GS sustainable development parameters are monitored as per the monitoring plan presented in the registered PDD: “Air Quality”, “Water Quality and Quantity”, “Soil Condition”, “Other Pollutants”, “Biodiversity”, “Quality of Employment”, ”Quantitative Employment and Income Generation”, “Balance of Payment and Investment”, “Technology Transfer and Technological self-reliance”. ***Air Quality (Amount of NO_x, CO and NMVOC emissions):*** The air quality parameter is monitored with calculation of the NOx, CO and MNVOC emissions due to the electricity generation in 2007. During this monitoring period, the value of NOx is calculated as 141.30 tons; the value of CO is calculated as 18.69 tons; the value of NMVOC is calculated as 4.73 tons. However, with the addition of the last two months to the results of the calculations, the values should be revised. ***Water Quality and Quantity (Amount of wastewater discharge to the environment to the project area):***	~~**CAR 3**~~ **OK**

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				Discharged wastewater is monitored with the statement from Mukhtar of the Asagikiriklar Village given in the Figure 1 of the monitoring report. According to the document, the wastewater is collected and disposal with a vacuum truck by the Municipality. ***Soil Condition (Amount of waste oil spilled to the environment):*** Amount of Waste Oil is monitored with the photos of storage area of the hazardous wastes /32/ and receipt for transfer to recycling facility /20/. In the monitoring report, it is defined that photos of the waste oil are shown in Figure 4. However, there is no photo. Please add. Rehabilitation of the roads is monitored with the statement from the Mukhtar and the photos taken during on site visit. According to the statement and the photos /31/ it could be confirmed that the road used for the transfer of the turbines are improved. In the monitoring report, it is defined that photos are given in Figure 2. However, there is no photo and also please correct the future tense given as “Rehabilitation of the land which was used for construction of turbines will be implemented after construction” in Section D.1.3.b.1 of the monitoring report. ***Other Pollutants (Building rubbish during construction and operation of the project):*** The parameter is monitored with the official letter from the Mukhtar of Asagikiriklar Village, the photos of the project area during construction and the noise measurement report /18/. According to the interviews with the stakeholders, the project owner has fulfilled all the duties incumbent upon about the watering the roads and the measurements for the noise emissions /15/. In addition, the noise measurements were performed from different points and the results shows that they are below the limits. Also, the project owner defined that the roads are	

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				watered during on construction. However, the invoices are not provided to the verification team. Please provide. ***Biodiversity:*** Number of bird strikes is monitored with the Ornithology Report /15/ annually. According to the report, no strike of birds is observed. In addition, it is mentioned in the ornithology report that there is no risk to the life cycle of birds in the project area. ***Quality of Employment:*** The parameter is monitored with the Health & Safety and Operation & Maintenance Trainings. The monitoring period from 01/06/2013 to 30/09/2014 two trainings /24/ /25/ were held for the employees. ***Quantitative employment and income generation (Number of employment):*** Number of employment is monitored with the employment contracts. According to the Residence Certificate /21/, 2 new people have been hired during the operation of the power plant. However, 1 employee is mentioned in the monitoring report. Please clarify. In addition, during on site visit, it was confirmed that to build the new turbines, two private land had to be taken. However, no invoices or the agreements were provided to the verification team. Please provide. ***Balance of payment and investments (Amount of avoided natural gas to be imported):*** The parameter is monitored with TEIAS statistics for natural gas share in the electricity. The value for this monitoring period is calculated as 13,468 million m^3 in the monitoring report. However, the values given in the monitoring report should be revised by adding the last two months. Please re-calculate. ***Technology transfer and technological self-reliance:***	

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				Total number of employee having operation and maintenance certificates is monitored. During on site visit it is confirmed that two employees (Mahmut Odabasi and Aysun Karasoy) get trained in this monitoring period.	
B.4.2	Is the montiroing in line with the registered monitoring plan?	/1/ /2/ /3/	DR, CC	The monitoring complies with the monitoring plan presented in the registered PDD. The following GS sustainable development parameters are monitored as per the registered monitoring plan: “Air Quality”, “Water Quality and Quantity”, “Soil Condition”, “Other Pollutants”, “Biodiversity”, “Quality of Employment”, ”Quantitative Employment and Income Generation”, “Balance of Payment and Investment”, “Technology Transfer and Technological self-reliance”.	**OK**
B.5 Management, quality assurance and quality control					
B.5.1	How has it been assessed that the monitoring arrangements described in the monitoring plan are feasible within the project design?	/3/ /7/	DR, I	An onsite inspection has been performed on 30/09/2014 and it is confirmed that the monitoring arrangements in the monitoring plan are feasible within the project design.	**OK**
B.5.2	Are procedures identified for day-to-day record handling (including what records to keep, storage area of records and how to process performance documentation)?	/1/ /3/	DR, I	The electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters by Automatic Meter Reading System (OSOS) by the TEIAS personnel. The PMUM records are available for the project proponent. The plant personnel records the electricity generation from the meters and the responsible engineer checks the figures regularly. In case of difference between the data, TEIAS will be informed.	**OK**
B.5.3	Are the data management and quality assurance and quality control procedures sufficient to ensure that the emission reductions achieved by/resulting from the project can be reported ex post and verified?	/3/	DR, I	The generated electricity is measured by two meters that were sealed by TEIAS. The project owner has no control on the meters. The electricity generation supplied to the grid and electricity consumption from the grid is stored by PMUM on the web site. The Project owner has an ID and password to access this data on the web site. The	**OK**

Checklist Question		Reference	MoV[1]	Comments	Conclusion
				project owner can easily access the data by using this portal.	
B.5.4	Will all monitored data required for verification and issuance be kept for two years after the end of the crediting period or the last issuance of VERs, for this project activity, whichever occurs later?	/1/ /3/ /7/	DR, I	The information "The collected data during the monitoring period will be kept by the project owner at least two years after the last issuance of VERs" is stated in the monitoring report /3/.	**OK**

TABLE 2 RESOLUTION OF CORRECTIVE ACTION REQUESTS AND CLARIFICATION REQUESTS

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
CAR 1 Value of the monitored parameter for net electricity delivered to the grid ($EG_{facility,y}$) related to the monitoring period from 01/06/2013 to 30/09/2014 is not given in the monitoring report /3/. Estimated amount of GHG emission reductions given in the first page of the monitoring report is not in line with the registered PDD /1/. Please give the calculation of the estimated amount in the excel sheet with adding the last two months August and September 2014.	B.3.1	Net electricity amount is now provided at Monitoring Table of $EG_{facility,y}$ in MR. Calculation of estimated GHG amount is now provided in revised ER Calculation excel file and correspondent value in MR is revised accordingly. **Response to Reviw-1:** Calculation method of $EG_{facility,y}$ is added to the table and values for the month of June 2013 are now corrected in excel sheet.	**Review 1 (17/11/2014):** Since the parameter $EG_{facility,y}$ is calculated from gross electricity to net electricity, please explain the calculation method in the table of this parameter. In addition, please revise the value against the adding value of June 2013. It was defined as (tCO2) in the excel sheet. The estimated amount of GHG emission reductions are now clearly identified in the excel sheet. **Hence, CAR 1 is not closed.** **Review 2 (18/11/2014):** The calculation method of this parameter is now clearly defined in the monitoring report. In addition, the value is now corrected as 146,935.67 MWh in the monitoring report. **Hence, CAR 1 is closed.**
CAR 2 During on site visit, PP decided to add two more months to the monitoring period. Therefore,	B.3.6	Electricity generation for August and September 2014 are added to the monitoring period. All related values in	**Review 1 (17/11/2014):** The July and August 2014 is added to all the calculations. However, in the new

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
please do the necessary changes (such as calculations, values of the estimated and actual emission reduction, etc.) in the monitoring report. Also, please provide the PMUM and monthly meter readings for the last two months added to the monitoring period. Please also add the Monthly meter readings to the calculation excel sheet to crosscheck with the PMUM as defined in the monitoring report. In addition, The emission reduction table given in the Section E.4 of the monitoring report is not in line with the real situation. According to the table it was seen that the project activity has both the project and leakage emissions although it is wind power project. Please clarify.		excel sheet and MR are updated accordingly. Emission reduction table in E.4 is now corrected. **Response to Reviw-1:** Calculation method of $EG_{facility,y}$ is added to the table and values for the month of June 2013 are now corrected in excel sheet. No need to revise MR as it already consists correct values. Monthly meter reading values are also added to excel sheet for cross-check with PMUM figures.	calculation excel sheet, the value of the June 2013 seems as (t CO2). Please correct the excel sheet and the monitoring report as per the new emission reduction. Please also add the value of Monthly meter readings to the calculation excel sheet to crosscheck with the PMUM as defined in the monitoring report. The emission reduction table given in the Section E.4 of the monitoring report is now corrected that the project activity has not project or leakage emission since it is a new wind project. **Hence, CAR 2 is not closed.** **Review 2 (18/11/2014):** The value of the June 2013 is now revised in the calculation excel sheet. In addition, the value of Monthly meter readings are now added to the calculation excel sheet to crosscheck with the PMUM. **Hence, CAR 2 is closed.**
CAR 3 ***Air Quality (Amount of NO_x, CO and NMVOC emissions):*** The air quality parameter is monitored with calculation of the NOx, CO and MNVOC emissions due to the electricity generation in 2007. During this monitoring period, the value of NOx is calculated as 141.30 tons; the value of CO is calculated as 18.69 tons; the value of NMVOC is calculated as 4.73 tons. However, with the addition of the last two months to the results of the calculations, the values should be revised.	B.4.1	**Air Quality:** The values for NOx, CO and NMVOC are revised to be in line with new electricity generation value. **Soil Condition:** Photos of rehabilitated roads and waste oil tanks are added to Figure-2 and Figure-4 of MR, respectively. Tense of statement is now corrected. **Other Pollutants:** No invoice is found for	**Review 1 (17/11/2014):** ***Air Quality (Amount of NO_x, CO and NMVOC emissions):*** The values are now revised as per the addition of the last two months to the results of the calculations. ***Soil Condition (Amount of waste oil spilled to the environment):*** The photos of the waste oil are now shown in Figure 4. In the monitoring report, the photos are now presented related to “Rehabilitation of the land which was used for

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
Soil Condition (Amount of waste oil spilled to the environment): Amount of Waste Oil is monitored with the photos of storage area of the hazardous wastes /32/ and receipt for transfer to recycling facility /20/. In the monitoring report, it is defined that photos of the waste oil are shown in Figure 4. However, there is no photo. Please add. Rehabilitation of the roads is monitored with the statement from the Mukhtar and the photos taken during on site visit. According to the statement and the photos /31/ it could be confirmed that the road used for the transfer of the turbines are improved. In the monitoring report, it is defined that photos are given in Figure 2. However, there is no photo and also please correct the future tense given as "Rehabilitation of the land which was used for construction of turbines will be implemented after construction" in Section D.1.3.b.1 of the monitoring report. ***Other Pollutants (Building rubbish during construction and operation of the project):*** The parameter is monitored with the official letter from the Mukhtar of Asagikiriklar Village, the photos of the project area during construction and the noise measurement report /18/. According to the interviews with the stakeholders, the project owner has fulfilled all the duties incumbent upon about the watering the roads and the measurements for the noise emissions /15/. In addition, the noise measurements were performed from different points and the results shows that they are below the limits. Also, the project owner defined that the roads are watered during on construction. However, the invoices are not provided to the verification team. Please provide.		watering the roads during construction. However, statement of Muhtar and photos given in Figure-3 of MR which are showing landscaping activities during construction demonstrates that project owner took necessary measures for minimum dust emission occurrence. **Quantitative employment and income generation:** Number of new employment is revised to two. Agreements with two landowners are now attached to this protocol. **Balance of payment and investment:** Value is re-calculated and revised to be in line with new electricity generation amount. Response to Review-1: **Other Pollutants:** The invoices for watering service are not the part of Monitoring Plan. Rather photos of the project area during construction and statement of Muhtar are the means of monitoring and they are already provided in the Monitoring Report.	construction of turbines will be implemented after construction". ***Other Pollutants (Building rubbish during construction and operation of the project):*** The project owner defined that the roads are watered during on construction. However, the invoices are not provided to the verification team. Please provide. ***Quantitative employment and income generation (Number of employment):*** It is clearly defined that 2 new people have been hired during the operation of the power plant. During on site visit, it was confirmed that to build the new turbines, two private lands had to be taken. The Consents and Acquaintances /33/ for 2 people were now provided to the Verification team. ***Balance of payment and investments (Amount of avoided natural gas to be imported):*** The value given in the monitoring report is now revised by adding the last two months. **Hence, CAR 3 is not closed.** **Review 2 (18/11/2014):** ***Other Pollutants (Building rubbish during construction and operation of the project):*** The explanation is found acceptable. According to the interviews with the stakeholders, they mentioned that, the project owner has fulfilled all the duties incumbent upon about the watering

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
Quantitative employment and income generation (Number of employment): Number of employment is monitored with the employment contracts. According to the Residence Certificate /21/, 2 new people have been hired during the operation of the power plant. However, 1 employee is mentioned in the monitoring report. Please clarify. In addition, during on site visit, it was confirmed that to build the new turbines, two private lands had to be taken. However, no invoices or the agreements were provided to the verification team. Please provide. ***Balance of payment and investments (Amount of avoided natural gas to be imported):*** The parameter is monitored with TEIAS statistics for natural gas share in the electricity. The value for this monitoring period is calculated as 13,468 million m^3 in the monitoring report. However, the values given in the monitoring report should be revised by adding the last two months. Please re-calculate.			the roads. **Hence, CAR 3 is closed.**
CR 1 The format of the dates should be revised as DD/MM/YYYY and the format of tables are not in line with the Monitoring Report Form, version 04.0 of 25/06/2014. Please revise.	A.1	Dates in MR are revised to be as DD/MM/YYYY format. Also tables are revised to be in line with the Monitoring Report Form, Version 04.0.	**Review 1 (17/11/2014):** The format of the dates is now revised as DD/MM/YYYY and the format of tables are now in line with the Monitoring Report Form, version 04.0 of 25/06/2014. **Hence, CR 1 is closed.**
CR 2 The project activity consists of 20 wind turbines with a 50 MWe total installed capacity. It is confirmed during the site visit that all installed turbines capacities are 2.5 MWe. However, in section A.1 of the monitoring report, it is defined	A.2	The capacities of all turbines are 2.5 MWe. Thus turbine capacity figures in MR are revised accordingly.	**Review 1 (17/11/2014):** The project capacity is now defined as 50 MW with 20 turbines each having 2.5 MW capacities in the monitoring report, version 4.1 of 04/11/2014. **Hence, CR 2 is closed.**

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
that 4 of them are 2.75 MW which is indicated the mechanical power and is not in line with the Generation License /26/. Please clarify and make sure all the given values are MWe in the monitoring report.			
CR 3 As per the approved methodology ACM0002 version 11.0.0, the combined emission factor has been determined using the ex-ante option and so it is not requested to monitor and recalculate the emission factors during the crediting period. The combined emission factor is determined to be 0.6018 tCO_2/MWh in the registered PDD /1/, validation report /8/ and the emission reduction calculation excel-sheet /9/. However, it is not discussed in the "not monitoring parameters" of the monitoring report. Please add.	B.2.1	$EF_{grid,CM,y}$ is now added to the section D.1 of MR.	**Review 1 (17/11/2014):** The combined emission factor is now discussed in the "not monitoring parameters" of the monitoring report. **Hence, CR 3 is closed.**
CR 4 The serial no of the electricity meters in Transformer A is not in line with the real situation. In addition, in Transformer B, the serial no of the backup meter is not in line with the first index protocol /29/. Please correct. In the monitoring report, it is defined that "The TEIAŞ personnel came to the plant in the first days of the month for reading the recorded values obtained at 24:00 of the last day of the month before. The data of meter reading protocols which form the basis of net electricity figures were filled on the first day of every month to record the generation of previous month. A reading protocol was then signed by both parties". However, the monthly meter readings are not signed by both parties and also now TEIAS personnel does not came to the plant anymore since the electricity generation is read remotely by Automatic Meter	B.3.2	Serial numbers of the meters in Transformer A are now corrected. Response to Review-1: The phrase mentioned by DOE is followed by an explanation saying that this procedure was used before, but since July 2012 the system has changed and now the meters are being read by OSOS and thus there is no need TEIAS signed protocol anymore.	**Review 1 (17/11/2014):** The serial no of the electricity meters in Transformer A and Transformers B is now in line with the real situation. In the monitoring report, it is defined that "The TEIAŞ personnel came to the plant in the first days of the month for reading the recorded values obtained at 24:00 of the last day of the month before. The data of meter reading protocols which form the basis of net electricity figures were filled on the first day of every month to record the generation of previous month. A reading protocol was then signed by both parties". However, the monthly meter readings are not signed by both parties and also now TEIAS personnel does not came to the plant anymore since the electricity generation is read remotely by

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
Reading System (OSOS).			Automatic Meter Reading System (OSOS). Please correct the explanation as per the real situation. **Hence, CR 4 is not closed.** **Review 2 (18/11/2014):** It is now clearly defined that the electricity generation is read remotely by Automatic Meter Reading System (OSOS). **Hence, CR 4 is closed.**
CR 5 The calibration dates of the electricity meters should be given as dd/mm/yyyy and it should be discussed if the re-calibration is necessary or not for this monitoring period. In addition, in the monitoring report, it is defined that the electricity meters in Transformer A is calibrated on 22/03/2013. However, according to the test report /28/, there is no re-calibration for the electricity meters. They are just tested to confirm the accurate measure of the meters and found acceptable. Therefore, no re-calibration is necessary during this monitoring period. Please correct.	B.3.3	Dates are revised in DD/MM/YYYY format. The date of next calibration is also added to MR.	**Review 1 (17/11/2014):** The calibration dates of the electricity meters are now given as dd/mm/yyyy and it is now discussed if the re-calibration is necessary or not for this monitoring period. **Hence, CR 5 is closed.**

TABLE 3 FORWARD ACTION REQUEST

Forward action request	Reference to Table 1	Response by project participants Verification conclusion
FAR 1		

RINA

CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra: *We declare that Mr/Mrs/Ms:*	**Tugce Kiratli**
è qualificato come[1]: *is qualified as:*	**CDM-TEC, JI-TEC, VCS-TEC, GS-TEC, VCS-VAL, VCS-VER, GS-VAL, GS-VER, GS-TL, VCS-TL**
per le seguenti aree tecniche: for the following technical areas:	**1.2, 13.1**

AREE TECNICHE **TECHNICAL AREAS**	**DESCRIZIONE DELL'AREA TECNICA** ***TECHNICAL AREA DESCRIPTION***	**SCOPO SETTORIALE** ***SECTORAL SCOPE***
1.2*	Energy generation from renewable energy sources	1
13.1	Waste handling and disposal	13

*Just for GS and VCS, not for CDM

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE ***REVISION***	**DATA** ***DATE***	**MOTIVAZIONI PER LA REVISIONE** ***REASON FOR THE REVISION***
0	26/11/2012	-
5	07/11/2014	Update qualification according to IS-QPT-GHG-00 REV13

Il Resp. QPT
Head of QPT

[1] Legend:

VAL:	Validator	CDM: Clean Development Mechanism
VER:	Verifier	VCS : Verified Carbon Standard:
TEC:	Technical Expert	GS: Gold Standard
TL:	Team Leader	SCS: SocialCarbon Standard
FIN-EXP:	Financial Expert	JI: Joint Implementation
DET:	Determiner	

RINA

CERTIFICATO DI QUALIFICA
QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra: *We declare that Mr/Mrs/Ms:*	**Rita Valoroso**
è qualificato come1: *is qualified as:*	**CDM/VCS/GS/SCS/JI – TEC** **CDM/VCS/GS/SCS – VAL, VER, TL** **TECHNICAL REVIEWER**
per le seguenti aree tecniche: for the following technical areas:	**1.2, 13.1**

AREE TECNICHE **TECHNICAL AREAS**	**DESCRIZIONE DELL'AREA TECNICA** ***TECHNICAL AREA DESCRIPTION***	**SCOPO SETTORIALE** ***SECTORAL SCOPE***
1.2	Energy generation from renewable Energy sources	1
13.1	Waste Handling and Disposal	13

in accordo alle istruzioni della Divisione Certificazione.
in accordance with the instructions of the Certification Division.

REVISIONE ***REVISION***	**DATA** ***DATE***	**MOTIVAZIONI PER LA REVISIONE** ***REASON FOR THE REVISION***
0	18-01-10	-
8	31-07-14	Update qualification according to IS-QPT-GHG-00 REV13

Il Resp. QPT
Head of QPT

[1] Legend:

VAL:	Validator	CDM: Clean Development Mechanism
VER:	Verifier	VCS : Verified Carbon Standard:
TEC:	Technical Expert	GS: Gold Standard
TL:	Team Leader	SCS: SocialCarbon Standard
FIN-EXP:	Financial Expert	JI: Joint Implementation
DET:	Determiner	

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports