



RINA

GOLD STANDARD VERIFICATION/CERTIFICATION REPORT

Final

“Yuntdag Wind Power Project, Turkey”
in
Turkey

Monitoring period: 01/01/2014 to 06/03/2015

Report N° 2015-TQ-03-MD

Revision N° 1.3 Aa

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Project Title: Yuntdag Wind Power Project, Turkey	Country: Turkey	Estimated VERs (tCO₂e): 170,214
GS Registration Reference N°: GS 352	Monitoring period: 01/01/2014 to 06/03/2015	Certified VERs (tCO₂e): 146,604
Client: Innores Elektrik Uretim A.S.	Client contact: Emre SAMSUN	
Report No.: 2015-TQ-03-MD	Revision: 1.3 Aa	Date of this report: 30/11/2015
Approved by (Final Report – AO Authorized office signing for the DOE):  Laura SEVERINO		Date of approval: 30/11/2015

Methodology

Number: ACM0002	Version: 06.0 of 19/05/2006	Title: Consolidated baseline methodology for grid-connected electricity generation from renewable sources	Scale Large	SS(s): 1
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RINA Services S.p.A. (RINA), commissioned by Innores Elektrik Uretim A.S., has verified the greenhouse gas emission reductions reported for the project activity “Yuntdag Wind Power Project, Turkey” in Turkey, GS Registration Reference N° 352, for the period 01/01/2014 to 06/03/2015, with regard to the relevant requirements for 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 SGS of 18/03/2008 and it was registered under the GS registration reference N° 352.

ACM0002, version 06.0, “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” of 19/05/2006 and the monitoring plan included in the registered Project Design Document, version 05 of 11/05/2015.

In conclusion, it is RINA’s opinion that the project activity “Yuntdag Wind Power Project, Turkey”, in “Turkey, as described in the Monitoring Report version 6.0 of 26/11/2015, 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 06.0 of 19/05/2006. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 01/01/2014 to 06/03/2015 amount to 146,604 tCO₂e.

Baseline Emissions	146,604 tCO ₂ e
Project Emissions	0 tCO ₂ e
Leakage	0 tCO ₂ e
Net GHG emission reductions/removal	146,604 tCO ₂ e

Work carried out by:

Tugce KIRATLI



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Work verified by (Final Report – Scheme Manager)

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 ₂ e	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
PMUM	Market Financial Conciliation Center (Piyasa Mali Uzlastirma Merkezi)
PP(s)	Project Participant(s)
Ref.	Document Reference
RINA	RINA Services Spa
SDI	Sustainable Development Indicator
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

Innores Elektrik Uretim A.S. has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered “Yuntdag Wind Power Project, Turkey” project in Turkey, GS Registration Reference N°352, for the period 01/01/2014 to 06/03/2015.

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 “Yuntdag Wind Power Project, Turkey” project in Turkey for the period 01/01/2014 to 06/03/2015.

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 6.0 of 26/11/2015 [/2/](#), the emission reduction calculations provided in the form of a spreadsheet “ER_Yunttag_MR7_29 09 2015” version 4 of 29/09/2015 [/8/](#), the approved baseline and monitoring methodology ACM0002 version 06.0 of 19/05/2006 [/6/](#) and all the documentation provided to support the monitoring period [/1 – 47/](#) were assessed as part of the verification. In addition, the Project Design Document (PDD) version 05 of 11/05/2015 [/1/](#), in particular as regards the baseline estimations and the monitoring plan for the project were reviewed.

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

/1/	Lifenerji: GS-PDD for “Yunttag Wind Power Project, Turkey” in Turkey, version 05 of 11/05/2015 Lifenerji: GS-PDD for “Yunttag Wind Power Project, Turkey” in Turkey, version 04 of 03/05/2011
/2/	Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 6.0 of 26/11/2015 Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 5.0 of 04/11/2015 Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 4.0 of 29/09/2015 Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 3.0 of 21/09/2015 Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 2.0 of 21/08/2015 Lifenerji: Monitoring Report for “Yunttag Wind Power Project, Turkey” in Turkey, version 1.0 of 21/04/2015
/3/	Gold Standard Foundation: Gold Standard Requirements, version 2.0 of 01/08/2008
/4/	Gold Standard Foundation: Gold Standard Toolkit, version 2.0 of 01/08/2008
/5/	CDM Executive Board: Clean Development Mechanism Validation and Verification Standard, version 09.0 of 20/02/2015
/6/	CDM Executive Board: Baseline and monitoring methodology “ACM0002”, “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, version 06.0 of 19/05/2006
/7/	Germanischer Lloyd Certification GmbH: Previous Verification Report for “Yunttag 57.5 MW Wind Power Project, Turkey” No. GS053, revision 04 of 06/03/2014
/8/	Lifenerji: Emission Reduction Calculation Spreadsheet “ER_Yunttag_MR7_29 09 2015” version 4 of 29/09/2015 Lifenerji: Emission Reduction Calculation Spreadsheet “ER calculation” version 3 of 21/09/2015 Lifenerji: Emission Reduction Calculation Spreadsheet “ER_Yunttag_MR7_21 08 2015” version 2 of 21/08/2015 Lifenerji: Emission Reduction Calculation Spreadsheet “ER_Yunttag_MR7_v1.xls” version 1 of 21/04/2015
/9/	CDM Executive Board: Monitoring Report Form (CDM-MR-FORM), version 05.0 of 01/04/2015
/10/	CDM Executive Board: Methodological Tool “Tool to calculate the emission factor for an electricity system”, version 01.0 of 19/10/2007
/11/	Gold Standard Foundation: Yunttag Wind Power Project, Turkey (GS 352), Review for approval

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	of design change of 07/08/2015 Gold Standard Foundation: Yuntdag 57.5 MW Wind Power Project, Turkey (GS 352), 2-week Issuance Reviewed Period of 21/04/2014
/12/	Energy Market Regulatory Authority: Generation License EU/325-2/457 of 04/06/2004 amended on 13/03/2013
/13/	The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 07/03/2008 (for 6 turbines) The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 04/06/2008 (for 11 turbines) The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 27/09/2011 (for 4 turbines) The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 18/01/2012 (for 2 turbines) The Ministry of Energy and Natural Resources: Temporary Acceptance Protocol of 29/01/2014 (for 1 turbines)
/14/	Innores Elektrik Uretim A.S.: Bird Deaths Observation Form given for Koyuneli Village (Serif Kutsi AYGUN) 06/03/2015 Innores Elektrik Uretim A.S.: Bird Deaths Observation Form given for Balaban Village (Riza AKPINAR) 06/03/2015 Innores Elektrik Uretim A.S.: Bird Deaths Observation Form given for Ismailli Village (Mehmet ALTOK) 06/03/2015
/15/	Market Financial Conciliation Center (PMUM): Monthly Electricity Records within the Monitoring Period (from 01/01/2014 to 06/03/2015)
/16/	Turkish Electricity Transmission Company (TEIAS): Monthly Meter Reading Protocols within the Monitoring Period (from 01/01/2014 to 06/03/2015)
/17/	Triowind: Theoretical and Practical Safety Instructions Training for 4 Employees of 04/02/2014
/18/	Triowind: Theoretical and Practical Safety Instructions for 1 Employee of 27/03/2014
/19/	Triowind: Theoretical and Practical Safety Instructions for 1 Employee of 31/10/2014
/20/	Secim OSGB: Health and Safety Trainings for 5 Employees of 31/03/2014
/21/	Secim OSGB: Health Trainings for 6 Employees of 21/07/2014
/22/	Aktif İlkYardım Merkezi: First Aid Trainings for 1 Employee of 23/06/2014
/23/	Akadami İlkYardım Merkezi: First Aid Trainings for 1 Employee of 04/12/2014
/24/	HYTORC-S Turkiye: Hydraulic Bolting Technologies Trainings for 1 Employee of 14/02/2014
/25/	HYTORC-S Turkiye: Hydraulic Bolting Technologies Trainings for 1 Employee of 13/03/2014
/26/	Zarges Aluminium Systeme GmbH: Tower Service Lift TBA 6000-3 Training for 1 Employee of 12/11/2014
/27/	Tractel Greifzug GmbH: BSO 500, 1000 Training for 1 Employee of 17/11/2014 Tractel Greifzug GmbH: Tirak X400P, X500P Training for 1 Employee of 18/11/2014
/28/	Skylotec GmbH: BGG906 Training for 1 Employee of 23/10/2014
/29/	HOFFMANN GmbH: Hoist Seminar for 1 Employee of 20/11/2014
/30/	Hailo Wind Systems: HWS Modul-2 Service Training for 1 Employee of 15/10/2014
/31/	HACA LEITERN GmbH: Haca Fall arresting Rail Systems Training for 1 Employee of 13/10/2014
/32/	DUAL LIFT GmbH: DualLift Service Trainings for 1 Employee of 14/11/2014
/33/	ABS Safety GmbH: ABS Lock Sys1 Training for 1 Employee of 14/10/2014
/34/	Secim OSGB: Health and Safety Trainings for 8 Employees of 10/07/2014
/35/	Secim OSGB: Health and Safety Trainings for 2 Employees of 18/02/2015

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/36/	Secim OSGB: Emergency, Evacuation and Rescue Trainings for 2 Employees of 31/03/2014
/37/	Identity Photocopies of the Employees, submitted on 06/05/2015
/38/	TEIAS: Amending Protocol of the Electricity Meters of 05/12/013
/39/	TEIAS: Counter and Control Circuitry Sheet for the Electricity Meter with a Serial No. 4364955 of 03/12/2013 (for Electricity Supplied)
/40/	TEIAS: Counter and Control Circuitry Sheet for the Electricity Meter with a Serial No. 4364955 of 03/12/2013 (for Electricity Consumption)
/41/	TEIAS: Counter and Control Circuitry Sheet for the Electricity Meter with a Serial No. 4364956 of 03/12/2013 (for Electricity Supplied)
/42/	TEIAS: Counter and Control Circuitry Sheet for the Electricity Meter with a Serial No. 4364956 of 03/12/2013 (for Electricity Consumption)
/43/	Yuntdag RES and TEIAS: Electricity Meter Exchange Record of 05/12/2013
/44/	E-mail About Changing the Title of the Project Activity sent by GS, submitted on 29/09/2015
/45/	Social Insurance Institution: Registration Document for 9 Employees of 02/2014
/46/	Energy Market Regulatory Authority: Communiqué for Measurement Devices used in the Electricity Market of 22/03/2003
/47/	The Ministry of Trade and Industry: Regulation of Metering and Testing of Metering Systems of 24/07/1994

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2.2 On-site assessment

On 06/05/2015, RINA visited the project which is located in the Bergama District, Izmir Province, Turkey. During the on-site assessment of the project, all the equipment and the systems were accessible. 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 operation manager was interviewed with the purpose to see how the monitoring procedures were implemented; the whole process was explained to the verification team during the site visit on 06/05/2015. During the site visit, the Mukhtar and the stakeholders of Koyuneli and İsmaili District were interviewed about the benefits of the project to the village and local employment. No negative feedbacks were received. Besides that, stakeholders have expressed that they can graze their animals easier after the new roads are opened owing to the project activity.

In addition, the carbon specialist has been interviewed about the monitoring report and related parameters on, which the whole process related emission reduction calculation and sustainability monitoring plan was explained.

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

	Date	Name and Role	Organization	Topic
/a/	06/05/2015	İklim DİRLİK The Consultant	Lifenerji	Monitoring plan, methodology, data and period
/b/	06/05/2015	İsa ALKAN Operation Manager	Innores Elk. Ur. A.S.	Implementation status of the project Monitoring equipments and operation
/c/	06/05/2015	Oktay ERİSİK Operation Manager	Innores Elk. Ur. A.S.	Calibration certificates Emission Reductions calculation Monitoring of Gold Standard Parameters
/d/	06/05/2015	Ali TILKI Water-bearer	Koyuneli District	Benefit of the project to the village New Roads
/e/	06/05/2015	Mehmet Ali SAVAS Livestock	İsmaili District	Local Employment
/f/	06/05/2015	Mehmet ALTOK The Mukhtar	İsmaili District	
/g/	06/05/2015	İrfan DİNLER Mukhtar Assistant	İsmaili District	
/h/	06/05/2015	Aydin DİNLER Livestock	İsmaili District	

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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.

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2.4 Internal quality control

The draft final 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
Team Leader, GS Verifier, Technical Expert TA 1.2	Kiratli	Tugce	X	X	X	X		
Technical Reviewer TA 1.2	Valoroso	Rita					X	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 01/01/2014 to 06/03/2015 as documented and described in the monitoring report version 6.0 of 26/11/2015 [/2/](#) 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)	Innores Elektrik Uretim A.S.		
Project Title	Yunttag Wind Power Project, Turkey		
Location of the project	Bergama District, Izmir Province of Turkey		
Methodology(ies)	"ACM0002", "Grid-connected electricity generation from renewable sources", version 06.0 of 19/05/2006 /6/		
Sectoral Scope(s)	1	RINA's Technical Area(s)	1.2
Registered PDD	version 05 of 11/05/2015		
Date of registration	31/07/2008	GS Registration Reference N°	352
Starting date of the crediting period	07/03/2008		

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Project's crediting period	07/03/2008 to 06/03/2015
Monitoring period	01/01/2014 to 06/03/2015
Project documentation link	https://mer.markit.com/br-reg/public/project.jsp?project_id=103000000002559

The project activity is a wind power plant consists of 24 wind turbines each capacities are 2.5 MWm with a total capacity 60 MWe/60MWm as confirmed through the Generation License /12/. The generated electricity is fed to the Turkish national grid. The estimated net electricity production is 203,900 MWh and the annual emission reductions are estimated to be 144,484 tCO₂e per year.

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, as well as 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 /7/ and Gold Standard Foundation /11/, no FAR was raised during the monitoring period.

3.3 Monitoring Report

The Monitoring Report for the project activity "Yuntdag Wind Power Project, Turkey", in Turkey, version 6.0 of 26/11/2015 submitted by the Innores Elektrik Uretim A.S. has been the basis for the verification process.

The main changes between the MR version 1.0 of 21/04/2015 at the starting date of the verification activity and the MR version 6.0 of 26/11/2015 submitted for registration are the following:

Section of the MR	Description and reason for changing the information in that section
First Page	The title, sectoral scope, estimated and actual emission reduction is revised.
A.1. Purpose and general description of project activity	The capacity of the project activity is revised as 60 MW as per the Generation License.
A.2. Location of project activity	The coordinates of the last turbine is added.
A.3. Parties and project participant(s)	The clear explanation is now added about the project participant is private or public entity.
A.5. Crediting period of project activity	The crediting period
B.1. Description of implemented registered project activity	The milestone is revised.
B.2. Post Registration Changes	The two post registration changes about the title of the consultant and the capacity addition of the project activity are explained.
SECTION C. Description of monitoring system	The explanation is added "The collected data during the monitoring period will be kept by the project owner at least two years after the last issuance of VERs". A clear definition is added about remote reading.
D.1. Data and parameters fixed ex ante or at renewal of crediting period	The web-links for all the parameters is revised for 2013.

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D.2. Data and parameters monitored	The source of data and the value is corrected as per the registered PDD.
E.6. Remarks on difference from estimated value in registered PDD	A clear explanation is given for the difference between estimated and actual emission reduction.
F.1. Sustainable Development Indicators that have to be monitored	The training list is revised. Number of the employee (Operative and Maintenance Technician) is revised. The employee list is revised.
Appendix 1. Contact information of project participants and responsible persons/entities	The contact information of the carbon consultants is corrected.

RINA confirms that the above MR is based on the currently valid MR template [/9/](#) and is completed in accordance with the applicable guidance document [/9/](#).

3.4 Project implementation

Actual implementation of the registered project activity

It was verified during the site visit that the proposed project activity has been implemented and it is in operation in accordance with the project activity described in the registered PDD [/1/](#). The starting date of operation and the crediting period is 07/03/2008.

The turbines have been commissioned in 5 phases. The first phase acceptance Protocol covered 6 turbines were commissioned on 07/03/2008 [/13/](#), the second phase acceptance Protocol covered 11 turbines were commissioned on 04/06/2008 [/13/](#), the third phase acceptance Protocol covered 4 turbines were commissioned on 27/09/2011 [/13/](#), the fourth phase acceptance Protocol covered 2 turbines were commissioned on 18/01/2012 [/13/](#), the fifth phase acceptance Protocol covered 1 turbine was commissioned on 29/01/2014 [/13/](#),

The project activity consists of 24 wind turbines each with a 2.5 MW capacity making the total installed capacity of 60 MWe/60MWm. The project activity has a capacity addition. The capacity is increased from 57.5 MWe to 60 MWe as confirmed through the Amended Generation License [/12/](#). The project activity consists of 24 each with a 2.5 MWe capacity making the total installed capacity of 60 MW after adding 1 new turbine.

The technical details of the wind turbines given in the monitoring report is comply with the registered PDD [/1/](#). It is confirmed during the site visit that all installed turbines are Nordex N90 turbine, each with an output of 2.5 MW. The project boundary in the registered PDD [/1/](#) is in line with the actual project boundary. The generated electricity is supplied to the National Electricity Transmission Grid of Turkey via Alosbi Transmission Line as confirmed through the Generation License [/12/](#).

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

The previous carbon consultant "FutureCamp İklim ve Enerji Ltd. Şti. (FutureCamp Türkiye)" went into liquidation. A protocol for the transfer of the contracts has been signed between FutureCamp and Lifenerji Ltd. Sti.

During on site visit, it was noticed that a new turbine had been commissioned. The capacity is increased from 57.5 MW to 60 MW as confirmed through the new Generation License [/12/](#). Resulting in this situation, the project activity applied the capacity addition. The verification period continued after the capacity addition approval by Gold Standard.

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3.5 Methodology for determining Emission Reductions.

According to the applied methodology “ACM0002”, “Grid-connected electricity generation from renewable sources” /6/, the emission reductions have been calculated based on the following formula:

$$ER_y = BE_y - PE_y - Ly$$

Where:

BE_y = Baseline emissions in year y (tCO₂e/yr)

PE_y = Project emissions in year y (tCO₂e/yr)

Ly = Leakage emissions in year y (tCO₂e/yr)

The baseline emissions include the CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, multiplying the electricity supplied to the grid (MWh) with the combined margin CO₂ emission factor for grid connected power generation in year.

$$BE_y = GEN_y \times EF$$

Where:

GEN_y = Net electricity supplied to the grid (MWh)

EF = Combined margin grid emission factor (tCO₂/MWh)

The project emissions are assumed to be zero as per the ACM0002 /6/ since the project is a renewable energy project as defined in the registered PDD /1/ and previous verification report /7/. The leakage emissions are assumed to be zero as per the ACM0002 /6/ as defined in the registered PDD /1/. 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 06.0 /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 /3/.

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 06.0 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 6.0 of 26/11/2015 and the previous versions for the period of 01/01/2014 to 06/03/2015 (both days included) /2/ complies with the monitoring plan in the registered PDD /1/.

The only monitoring parameter is “Net Electricity Production (GEN_y)” as per the registered monitoring plan presented in the registered PDD /1/. The parameter is monitored continuously by two electricity meters that are located at Alosbi substation. One is the main meter EMH-LZQ-XC with serial number 4364955 and the backup meter is EMH-LZQ-XC with serial number 4364956. The meters have the accuracy of 0.5s as confirmed through on site visit and the Amending Protocol of the Electricity Meters

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[/38/](#). The accuracy class of the meters complies with the “Communiqué for Measurement Devices used in the Electricity Market” [/46/](#). The electricity meters are sealed by TEIAS as confirmed during the site visit. TEIAS is responsible for calibration and maintenance of the devices. 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 Main Meter (with a serial no 4364955) and the backup meter (with a serial no 4364956) are calibrated on 03/12/2013 as confirmed through the Amending Protocol of the Electricity Meters [/38/](#). No re-calibration is required during this monitoring period. The recalibration of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Turkey this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation [/47/](#). At the last day 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. Also the PMUM records are available for the project participant. All protocols [/15/ /16/](#) within this monitoring period was checked during the site visit. The PMUM records [/15/](#) are crosschecked with the monthly official electricity metering reports (OSF Forms) [/16/](#) during this monitoring period. The Monthly Meter Reading Protocols, PMUM records and emission reduction calculation spreads sheet [/8/](#) are in line. During the monitoring period of 01/01/2014 to 06/03/2015 (both days included) the net electricity supplied to the grid amount to 206,893 MWh and the emission reductions to 146,604 tCO₂e.

According to the monitoring plan in the registered PDD [/1/](#) and in the monitoring report version 6.0 of 26/11/2015 [/2/](#), the following sustainability parameters are monitored: “Local job creation” and “Bird collisions”.

The following parameters have been monitored in accordance with the monitoring plan in the registered PDD [/1/](#) and the monitoring report [/2/](#).

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
Combined Margin Emission Factor	TEIAS statistics	0.7086 tCO ₂ /MWh	As per the approved methodology ACM0002 version 06.0, 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 0.708 tCO ₂ /MWh in the registered PDD /1/ and previous verification report /7/ .
Leakage	-	0 tCO ₂	As per the approved methodology ACM0002 version 06.0, the leakage emissions were neglected.
Project Emissions	-	0 tCO ₂	As per the approved methodology ACM0002 version 06.0, the project emissions were neglected.

3.5.3.2 Sampling plan

Not applicable.

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3.5.3.3 Data and parameters monitored ex-post

DATA/PARAMETER	GENy
Data Unit	MWh
Description	Net Electricity Production
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	206,893.687
Measuring and reporting frequency; recording procedure.	Continuously monitoring and monthly recording
Type of monitoring equipment and its accuracy	Two electricity meters are installed at the project site, one is the main meter EMH-LZQ-XC with serial number 4364955 and the backup meter is EMH-LZQ-XC with serial number 4364956. The meters have the accuracy of 0.5s as confirmed through on site visit and the Amending Protocol of the Electricity Meters /38/ .
Calibration frequency/interval	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. During this monitoring period no discrepancy was occurred. The Main Meter (with a serial no 4364955) and the backup meter (with a serial no 4364956) are calibrated on 03/12/2013 as confirmed through the Amending Protocol of the Electricity Meters /38/. The recalibration of these meters will be done in line with the equipment requirements and through the period defined by national metrology institutes country by country and for Turkey this period is defined as 10 years. The calibration of meters is deemed appropriate and in compliance with the national regulation /47/. 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 PMUM Screenshots /15/ .
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions?	At the last day of each month, the quantity of electricity supplied by the project plant/unit to the grid; and the quantity of electricity delivered to the project plant/unit from the grid are read remotely from the electricity meters by Automatic Meter Reading System by the TEIAS personnel. Also the PMUM records are available for the project participant. All protocols /15/ /16/ within this monitoring period was checked during the site visit. The PMUM records /15/ are crosschecked with the monthly official electricity metering reports (OSF Forms) /16/ during this monitoring period.

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	The plant personnel records the electricity generation from the meters every day 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.

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3.5.3.4 Gold Standard sustainability monitored parameters

Data variable	Source of Data	Reported value for the project period
Bird collisions Number of observed bird strikes	Statement of Mayor	No bird deaths was observed
Assessment		
The effect of turbines on biodiversity is monitored by the Bird Deaths Observation Forms /14/ filled by the Mukhtar's of the Koyuneli, Balaban and Ismaili Villages. As per the documents no bird strikes is reported.		

Data variable	Source of Data	Reported value for the project period
Local job creation Number and type of jobs and completed trainings	SGK Records Certificates and attendance lists of the trainings	13 Employees Employees participated to the trainings.
Assessment		
New jobs and the local employment are the positive social impacts of the project activity. During this monitoring period, 13 employees were hired for the project activity. The list of the employees is confirmed as per the provided SGK records /45/ . During this monitoring period, all the employees attend to the trainings as confirmed through the certificates /17-36/ .		

3.5.4 Assessment of data and calculation of emission reductions

All the monthly meter protocols [/15/](#) are available for the project participant. All PMUM records [/15/](#) within this monitoring period was checked during the site visit. The PMUM records [/15/](#) were crosschecked with the monthly meter reading protocols [/16/](#).

The data of generated electricity are transferred correctly to the excel sheet [/8/](#) and emission reduction is calculated correctly. The excel sheet is crosschecked with the PMUM records [/15/](#) and the monthly meter reading protocols [/16/](#) and it seems appropriate.

3.5.5 Accuracy of emission reduction calculations

The emission reduction calculations provided in the spreadsheet [/8/](#) 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 6.0 of 26/11/2015 [/2/](#) is equivalent to 146,604 tCO₂e. The reported emission reductions are 13.9% lower than the estimated emission reduction of 170,214 tCO₂e for the period as per the registered PDD [/1/](#). According to the statement made by the project owner, the difference may occur due to the less wind than expected.

The data presented in the monitoring report [/2/](#) 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 3.5.3.3.

3.5.6 Accuracy of the GS indicators of sustainable development

All the documented evidences related to the sustainable monitored parameters such as Bird Deaths Observation Forms [/14/](#), SGK records [/45/](#), training certificates [/17-36/](#) are provided as objective evidences.

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3.5.7 Management system and quality control

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 by the TEIAS personnel. The plant personnel records the electricity generation from the meters every last day of the month 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 [/2/](#) in line with the ACM0002 version 06.0 [/6/](#).

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4 VERIFICATION AND CERTIFICATION OPINION

RINA Services Spa (RINA) has performed verification of the emission reductions reported for the project activity "Yuntdag Wind Power Project, Turkey" in Turkey, GS Registration Reference N° 352, for the period 01/01/2014 to 06/03/2015, with regard to the relevant requirements for GS activities.

The project participants of the "Yuntdag 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 05 of 11/05/2015
- 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 6.0 of 26/11/2015 for the "Yuntdag Wind Power Project, Turkey" project in Turkey for the period 01/01/2014 to 06/03/2015 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 06.0 of 19/05/2006 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 01/01/2014 to 06/03/2015 amount to 146,604 tCO₂e.

Year 2014 01/01/2014 to 31/12/2014 116,022 tCO₂e

Year 2015 01/01/2015 to 06/03/2015 30,582 tCO₂e

GHG Emission Reductions or Removals	tCO ₂ e
Baseline Emissions	146,604
Project Emissions	0
Leakage	0
Net GHG emission reductions or removals	146,604

Istanbul, 01/10/2015



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

Genova, 30/11/2015



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/ /2/ /12/	DR	The title of the project activity is given as “Yuntdag 57.5 MW Wind Power Project, Turkey” in the Monitoring Report version 01 /2/ and it is in line with the registered PDD /1/ and GS Registry. However, with the new Generation License, the total capacity is reach to 60MWm/60MWe as confirmed through the Amended Generation License /12/. Please correct. The revision number and date of the Monitoring Report seems appropriate.	~~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/ /2/ /12/ /13/	DR, CC, I	It is confirmed during the site visit performed on 06/05/2015 that project activity is not implemented and operated as per the registered PDD /1/. The turbines have been commissioned in 5 phases. The first phase acceptance Protocol covered 6 turbines were commissioned on 07/03/2008 /13/, the second phase acceptance Protocol covered 11 turbines were commissioned on 04/06/2008 /13/, the third phase acceptance Protocol covered 4 turbines were commissioned on 27/09/2011 /13/, the fourth phase acceptance Protocol covered 2 turbines were commissioned on 18/01/2012 /13/, the fifth phase acceptance Protocol covered 1 turbine was commissioned on 29/01/2014 /13/, The project activity consists of 24 wind turbines each with a 2.5 MW capacity making the total installed capacity of 60 MWe/60MWm. The project activity has a capacity addition. The capacity is increased from 57.5 MWe to 60 MWe as confirmed through the Amended Generation License /12/. The project activity consists of 24 each with a 2.5 MWe	~~CR-1~~ OK

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

Checklist Question	Reference	MoV ¹	Comments	Conclusion
			capacity making the total installed capacity of 60 MW after adding 1 new turbine. However, the capacity extension has not been approved by Gold Standard. The coordinates of the turbines given in the monitoring report are confirmed through the Registered PDD /1/. However, the last commissioned turbine locations should be added. The sectoral scope given in the first page of the monitoring report should be defined completely and clearly. In section A.3 of the monitoring report, it is not discussed that the project proponent is private or public. Please clarify. In section A.5 of the monitoring report, monitoring period is presented instead of crediting period. Please clarify. In section A.6 of the monitoring report, the position of the contact person is not given. Please clarify. The date of the listed issues is not correct in the milestone table. Please clarify. - “28/09/2011” Commissioning of 4 turbines - “19/01/2012” Date of commissioning of remaining Turbines The Gold Standard Registration date of 31/07/2008 and the registration of capacity extension under Gold Standard date of 13/07/2011 could not be confirmed since the supporting documents are not provided to the verification team. In addition, the last turbine’s commissioning date and the approval of Gold Standard for the second capacity addition should be added to the milestone and the supporting documents should be provided to the verification team. The given explanations given in Section B.2.4 and B.2.6 should be defined more clearly with the listed commissioning dates for all the turbines.	

Checklist Question		Reference	MoV ¹	Comments	Conclusion
				In Appendix 1, the contact details for the “person/entity responsible for completing the CDM-MR-FORM” are not correct. In addition, the carbon consultant is defined as “FutureCamp” in the registered PDD. However, “Lifenerji” is now presented in the monitoring report. Please clarify.	
A.3	Methodology applied for the registered project activity	/1/ /6/	DR	The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 06.0 of 19/05/2006 /6/. However, the given version of the methodology is not in line with the registered PDD.	CR-2 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/ /6/	DR, CC	The monitoring plan of the registered GS project activity complies with the applied methodology ACM0002 version 06.0 /6/.	OK
B.1.2	Does the monitoring comply with the monitoring plan in the registered PDD?	/1/ /6/	DR, CC	The net electricity delivered to the grid (GEN _y) needs to be monitored as per the ACM0002 version 06.0 /6/ and registered PDD /1/. In addition, since the project is developed under Gold standard, the following GS sustainable development parameters needs to be monitored for the first monitoring period as per the registered GS Passport /1/: “Local job creation” and “Bird collisions.”	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?	/3/ /4/	DR, CC	The project activity is developed and registered under Gold standard Version 2.0; therefore, GS Toolkit 2.0 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/ /6/	DR, CC, I	No change has been occurred to the sustainable development indicators during the monitoring period of 01/01/2014 to 06/03/2015 as confirmed through the site inspection and interviews.	OK
B.2 Data and parameters that are available at validation and that are not monitored					

Checklist Question		Reference	MoV ¹	Comments	Conclusion
B.2.1	Which parameters were available at validation and how were they verified?	/1/ /2/ /6/ /7/	DR, CC	As per the approved methodology ACM0002 version 06.0, the combined emission factor has been determined using the ex-ante option, so it is not requested to monitor and recalculate the emission factors during this crediting period. The combined emission factor is determined to be 0.7086 tCO₂/MWh in the registered PDD /1/ and previous verification report /7/. Gross Electricity Generation: The unit of the parameter is MWh and based on TEIAS web site. Net electricity generation: Net electricity fed into the grid used for the calculation of the net/gross relation is based on TEIAS web site. CO₂ emissions generated due to electricity production (2003-2005) (CO₂ emissions): It is based on the TEIAS statistics. List of BM power plants with capacity: It is based on TEIAS web site. Full load hours per energy source: It is based on the TEIAS statistics. Technology specific emission factor of the 20%-plants: It is based on the TEIAS statistics. Emission Factor (EF): The parameter is calculated as 0.7086 tCO₂/MWh based on TEIAS statistics.	OK
B.3 Data and parameters monitored					
B.3.1	Data/Parameter monitored / Data unit / Description / Source of data to be used / Value data for the monitoring period	/1/ /6/ /15/	DR, CC, I	Net Electricity Production (GEN_y): The electricity generation and electricity consumption is measured in MWh and it is monitored by two electricity meters that are located at the project activity. However, the source of data is not in line with the registered PDD. In addition, as per the registered PDD, the electricity generation and electricity consumption of the project activity is based on the PMUM records /15/. In the monitoring period of 01/01/2014 to 06/03/2015, the value of the parameter should be updated after recalculating as per the PMUM records.	CAR-2 OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
				In QA/QC procedures it is mentioned that "TEIAS, whose employees will monthly visit the plant for the meter reading". However, it is not in line with the current situation. Remote reading is available. Please clarify and correct in whole report.	
B.3.2	Is the measurement equipment described? Is the accuracy of the measurement equipment addressed and deemed appropriate?	/1/ /2/ /38/	DR, CC, I	Two electricity meters are installed at the project area of Yuntdag WPP. The main meter is EMH-LZQ-XC with serial number 4364955 and the backup meter is EMH-LZQ-XC with serial number 4364956. The meters have the accuracy of 0.5s as confirmed through on site visit and the Amending Protocol of the Electricity Meters /38/ . The description of the meters presented in the monitoring report.	OK
B.3.3	Are the requirements for maintenance and calibration of measurement equipment described and deemed appropriate?	/1/ /2/ /38/	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 as confirmed during the site visit. If any major discrepancy occurs between the two meters, TEIAS performs necessary calibration. During this monitoring period no disorder is observed. The Main Meter (with a serial no 4364955) and the backup meter (with a serial no 4364956) are calibrated on 03/12/2013 as confirmed through the Amending Protocol of the Electricity Meters /38/ . No re-calibration is required during this monitoring period.	OK
B.3.4	Is the monitoring frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/1/ /2/ /6/	DR, CC, I	The electricity generation supplied to the grid and electricity consumption from the grid is monitored continuously by two meters as verified during the site visit. Monitoring frequency is in line with the applied methodology and registered PDD.	OK
B.3.5	Is the recording frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/1/ /2/ /6/	DR, CC, I	The electricity generation supplied to the grid, electricity consumption from the grid used in the emission reduction calculations are read and recorded monthly. However, this is not discussed in the monitoring report.	CR-3 OK
B.3.6	Does data management (from monitoring equipment to emission reduction calculation) ensure correct	/2/ /16/	DR, CC, I	At the last day of each month, the electricity generation supplied to the grid and electricity consumption from the	CR-3 OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
	transfer of data and reporting of emission reductions?			grid is read remotely and stored at PMUM's website by TEIAS. In addition, the operation technician monitored the generated electricity every day. The operation manager explained the monitoring procedures during the site visit. As confirmed through the observation, the plant personnel records the electricity generation from the meters and fills the monthly reading forms /16/. However, in section E.1 of the monitoring report, the calculation formulas are duplicated. Please correct. The monthly meter readings are used instead of PMUM data. According to the registered PDD, the emission reduction calculation is based on PMUM records /15/. The calculation table in section E.4 is not correct since the monthly meter readings are used. In addition, please correct the dot and comma harmony. The estimated and the actual emission reduction values given in the first page and section E.5 should be revised as per the PMUM records and adding the last turbine generation. The explanation is not found acceptable for the "Remarks on difference from estimated value in registered PDD" given in section E.6 of the monitoring report. Please give a clear explanation. In addition, the value of January 2014 for monthly meter readings and PMUM data are not in line in the excel sheet. 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	/1/ /2/ /14/ /17/ /18/ /19/ /20/ /21/ /22/ /23/ /24/ /25/ /26/ /27/ /28/ /29/ /30/ /31/ /32/	DR, CC, I	The following GS sustainable development parameters are monitored as per the registered GS Passport /1/: "Local job creation" and "Bird collisions". Local Job Creation: New jobs and the local employment are the positive social impacts of the project activity. During this monitoring period, 13 employees were hired for the project activity. However, SGK records for the employees should be provided to confirm the employment.	CAR-4 OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
		/33/ /34/ /35/ 36/		During this monitoring period, all the employees except Bahattin DILBER attend to the trainings as confirmed through the certificates /17-36/. Please also provide a certificate or an attendance list for the missing employee. In addition, the given certificates for the security are not added to the training list given in the monitoring report. Please add the missing trainings. Bird Collisions: The effect of turbines on biodiversity is monitored by the Bird Deaths Observation Forms /14/ filled by the Mukhtar's of the Koyuneli, Balaban and Ismaili Villages. As per the documents no bird strikes is reported.	
B.4.2	Is the monitoring in line with the registered monitoring plan?	/1/ /2/	DR, CC, I	The monitoring complies with the monitoring plan presented in the registered Passport /1/.	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?	/1/ /2/	DR, I	An on-site inspection has been performed on 06/05/2015 and it could be 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/ /2/	DR, I	The electricity generation supplied to the grid and electricity consumption from the grid is monitored by two meters as verified during the site visit. The meters are sealed by TEIAS. The electricity generation supplied to the grid and electricity consumption from the grid is read remotely from the electricity meters by TEIAS. The reading results are stored by PMUM on the web site. The operation technician explained the monitoring procedures during the site visit. As confirmed through the observation, the plant staff monitors and records the data daily from both meters, fills the forms and compares the values for consistency. The responsible operation technician performs regular checks of this procedure each month. If any difference occurs between the two meters, TEIAS has to be informed.	OK
B.5.3	Are the data management and quality assurance and quality control procedures sufficient to ensure that the	/1/ /2/	DR, I	The generated electricity is measured by two meters that were sealed by TEIAS. The project owner has no control	OK

Checklist Question		Reference	MoV ¹	Comments	Conclusion
	emission reductions achieved by/resulting from the project can be reported ex post and verified?			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 also archives a monthly meter reading excel sheets in a soft copy.	
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/ /2/ /6/	DR, I	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/ in line with the ACM0002 /7/. However, this issue is not discussed in the monitoring report.	CR-4 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 It is confirmed during the site visit performed on 06/05/2015 that project activity is not implemented and operated as per the registered PDD /1/. The turbines have been commissioned in 5 phases. The first phase acceptance Protocol covered 6 turbines were commissioned on 07/03/2008 /13/, the second phase acceptance Protocol covered 11 turbines were commissioned on 04/06/2008 /13/, the third phase acceptance Protocol covered 4 turbines were commissioned on 27/09/2011 /13/, the fourth phase acceptance Protocol covered 2 turbines were commissioned on 18/01/2012 /13/, the fifth phase acceptance Protocol covered 1 turbine was commissioned on 29/01/2014 /13/. The project activity has a capacity addition. The capacity is increased from 57.5 MWe to 60 MWe as confirmed through the Amended Generation License /12/. The project activity consists of 24 each with a 2.5 MWe capacity making the total installed capacity of 60 MWm/60 MWe after	A.2	The capacity extension from 57.5 MW to 60 MW is now discusses and when the PDD for 60.0 MW is sproved by Gold Standard, the renewed dates will be included and discussed. Also, the revised project documents will be supplied to DOE later on. Also, "Table 2: Milestones of the project" is now revised accordingly. Coordinates of the last commissioned turbine is now included to "Table 1: Coordinates of the Turbines". The sectoral scope given in the first page is now defined completely. In section A.3, information of whether the project protoponent is private or public is now discussed. The crediting period is revised in section A.5. The position of the contact person in section A.6 is now given. The milestone table is now corrected	<u>Review 1 (08/09/2015):</u> According to the Gold Standard Review Document of 07/08/2015, the project activity has a capacity addition and this issue is approved by Gold Standard. The last commissioned turbine location is now presented in the monitoring report and confirmed as per the Generation License. The sectoral scope is now given in the first page of the monitoring report. The scope number is correct. However, the name of the scope is not in line with the "Sectoral Scopes of CDM" in UNFCCC website. It is now discussed in section A.3 of the monitoring report that the project proponent is private. The crediting period is now presented report as 07/03/2008-06/03/2015 in section A.5 of the monitoring report.

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
adding 1 new turbine. However, the capacity extension has not been discussed and approved by Gold Standard. Please clarify. The coordinates of the turbines given in the monitoring report are confirmed through the Registered PDD /1/. However, the last commissioned turbine locations are not presented in the monitoring report. The sectoral scope given in the first page of the monitoring report should be defined completely and clearly. In section A.3 of the monitoring report, it is not discussed that the project proponent is private or public. Please clarify. In section A.5 of the monitoring report, monitoring period is presented instead of crediting period. Please clarify. In section A.6 of the monitoring report, the position of the contact person is not given. Please clarify. The date of the listed issues is not correct in the milestone table. Please clarify. - "28/09/2011" Commissioning of 4 turbines - "19/01/2012" Date of commissioning of remaining Turbines The Gold Standard Registration date of 31/07/2008 and the registration of capacity extension under Gold Standard date of 13/07/2011 could not be confirmed since the supporting documents are not provided to the verification team. In addition, the last turbine's commissioning date and the approval of Gold Standard for the second capacity addition should be added to the milestone and the supporting documents should be provided to the verification team.		accordingly. The Gold Standard registration dates of 42.5 MW, 57.5 MW and 60.0 MW will be sent later on with a proper supporting document. Milestone table is now revised with including the date of the commissioning date of the last turbine. The given explanations given in Section B.2.4 and B.2.6 are now more clearly with the listed commissioning dates for all the turbines. Appendix 1 is now corrected accordingly. Due to the reason that "FutureCamp İklim ve Enerji Ltd. Şti. (FutureCamp Türkiye)" went into liquidation, a protocol of the transfer of the contract have been signed mutually. So, now the carbon consultant of Innores Elektrik Üretim A.Ş. is Lifenerji Ltd. Şti. Moreover, this explanation is now included under Section B.2.2. Response 2: The name of the sectoral scope is now revised accordingly.	The position of the contact person is now given as Investment Coordinator In section A.6 of the monitoring report. The dates of the listed issues are now corrected in the milestone table. - "27/09/2011" Commissioning of 4 turbines - "18/01/2012" Date of commissioning of 2 Turbines The date of the registrations for 42.5 MW, 57.5 MW and 60 MW could now be confirmed as per the e-mail sent by Gold Standard. The last turbine's commissioning date and the approval of Gold Standard for the second capacity addition is now presented in the milestone and the supporting documents are provided to the verification team. The given explanations given in Section B.2.4 and B.2.6 are defined more clearly with the listed commissioning dates for all the turbines. In Appendix 1, the contact details for the "person/entity responsible for completing the CDM-MR-FORM" are now corrected. In addition, the carbon consultant is defined as "Lifenerji" and a clear explanation is given in correction part of the monitoring report about "FutureCamp". <u>Hence, CAR 1 is not closed.</u> <u>Review 2 (23/09/2015):</u> The name of the scope is now in line with the "Sectoral Scopes of CDM" in

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
The given explanations given in Section B.2.4 and B.2.6 should be defined more clearly with the listed commissioning dates for all the turbines. In Appendix 1, the contact details for the "person/entity responsible for completing the CDM-MR-FORM" are not correct. In addition, the carbon consultant is defined as "FutureCamp" in the registered PDD. However, "Lifenerji" is now presented in the monitoring report. Please clarify.			UNFCCC website. <u>Hence, CAR 1 is closed.</u>
CAR 2 Net Electricity Production (GEN_y): The electricity generation and electricity consumption is measured in MWh and it is monitored by two electricity meters that are located at the project activity. However, the source of data is not in line with the registered PDD. In addition, as per the registered PDD, the electricity generation and electricity consumption of the project activity is based on the PMUM records /15/. In the monitoring period of 01/01/2014 to 06/03/2015, the value of the parameter should be updated after recalculating as per the PMUM records. In QA/QC procedures it is mentioned that "TEIAS, whose employees will monthly visit the plant for the meter reading". However, it is not in line with the current situation. Remote reading is available. Please clarify and correct in whole report.	B.3.1	The source of the data is now revised according to the PDD for 60.0 MW. And both the annaul electricity generation amount and the emission reduction is calculated based on 430 days which corresponds to this monitoring period. Besides, the emission reduction calculation is now based on the PMUM records and monthly reading records are now used to cross-check the electricity generation amount. Lastly, QA/QC procedures are now revised.	<u>Review 1 (08/09/2015):</u> Net Electricity Production (GEN_y): The source of data is now in line with the registered PDD and the methodology. In the monitoring period of 01/01/2014 to 06/03/2015, the value of the parameter is updated as per the PMUM records explained in registered PDD. In QA/QC procedures it is now corrected that "TEIAS conducts remote reading. And another technician, employee of Innore Enerji, conducts reading from the project site and sends to TEIAS. By this way, a cross-check is done. Also, with the readings from project site, continuously these two meters are compared with each other and if any differences are detected the necessary control measures are taken". <u>Hence, CAR 2 is closed.</u>
CAR 3 In section E.1 of the monitoring report, the calculation formulas are duplicated. Please correct. The monthly meter readings are used instead of PMUM data. According to the registered PDD, the emission reduction calculation is based on PMUM	B.3.6	The calculation formulas in section E.1 is now revised. The emission reduction calculation sheet is now revised by using PMUM records. Along with the emission reduction calculation sheet, calculation table in section E.4. is now revised.	<u>Review 1 (08/09/2015):</u> In section E.1 of the monitoring report, the calculation formulas are corrected and the duplication is removed. However, the parameter of EGy is not in line with the project. Therefore, the first duplication should be removed and the second one

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
records /15/. The calculation table in section E.4 is not correct since the monthly meter readings are used. In addition, please correct the dot and comma harmony. The estimated and the actual emission reduction values given in the first page and section E.5 should be revised as per the PMUM records and adding the last turbine generation. The explanation is not found acceptable for the "Remarks on difference from estimated value in registered PDD" given in section E.6 of the monitoring report. Please give a clear explanation. In addition, the value of January 2014 for monthly meter readings and PMUM data are not in line in the excel sheet. Please clarify.		The estimated and the actual emission reduction values are revised both by using PMUM values and according to the revised PDD for 60.0 MW. The explanation given in section E.6. is now revised. The emission reduction calculation Excel Sheet is now in line with the related PMUM and monthly meter readings. Response 2: Section E.1 is now revised accordingly. An Excel sheet is now provided to DOE, showing the estimated reduction calculation. Actual emission reduction value given in the first page is now rounded down from 148,604.868 to 148,604. And now actual emission reduction amount is in line with the value in the Excel Sheet. All the sections including Section E.6, actual emission reduction value is rounded down. Also, values yearly for 2014 and 2015 are rounded down. The printscreens showing the amount of difference between monthly metering readings and PMUM data are given to DOE. The reason behind this is there is electricity sale via free market. The rest is fed to the grid. So, emission reduction calculation is based on the PMUM data. Response 2 (29/09/2015): The estimated emission reduction calculation is now included to the emission reduction calculation excel. The actual emission reduction value is	(including GENy) should be presented. Please correct. PMUM records are now used in the electricity generation calculation. The calculation table in section E.4 is now corrected as per the PMUM records. In addition, the dot and comma harmony is now corrected. The estimated emission reduction calculation could not be confirmed. Please explain the calculation. The actual emission reduction value given in the first page is not in line with the calculation excel sheet. In addition, please round down the value in section E.5. Please revise the "Remarks on difference from estimated value in registered PDD" part given in section E.6 of the monitoring report. Please round down all the values given in the monitoring report. The value of January 2014 for monthly meter readings and PMUM data are not in line in the excel sheet and the difference is still unexplained. However, since the standard could not give a carbon credit for the value of 0,868 tCO₂e, please round down the total emission reduction value as 146,604. Please also define the value yearly for 2014 and 2015 with a rounded down. <u>Hence, CAR 3 is not closed.</u> <u>Review 2 (23/09/2015):</u> In section E.1 of the monitoring report, the calculation formulas are now corrected

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
		146,604 and the first page of the monitoring report is now revised accordingly. The difference between the value of January 2014 for monthly meter readings and PMUM data are now discussed in the monitoring report, under Section E.4.	and the duplication is removed. The estimated emission reduction calculation could not be confirmed since the provided excel sheet does not have the estimated value of 170,214 tCO₂. In addition, no calculation could be monitored with the provided excel sheet. The actual emission reduction value given in the first page still is not in line with the calculation excel sheet. Please revise the correct value 148,604 or 146,604. The value in section E.5 is rounded down. “Remarks on difference from estimated value in registered PDD” part given in section E.6 of the monitoring report is now corrected and clearly explained. The difference between the value of January 2014 for monthly meter readings and PMUM data are not discussed in the monitoring report. The value yearly for 2014 and 2015 is defined now with a rounded down. <u>Hence, CAR 3 is not closed.</u> <u>Review 3 (30/09/2015):</u> The estimated emission reduction calculation could now be confirmed. The actual emission reduction value given in the first page is now in line with the calculation excel sheet. The difference between the value of January 2014 for monthly meter readings and PMUM data are now discussed in the monitoring report. <u>Hence, CAR 3 is closed.</u>
CAR 4	B.4.1	Copies of the identity cards, SGk	<u>Review 1 (08/09/2015):</u>

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
Local Job Creation: New jobs and the local employment are the positive social impacts of the project activity. During this monitoring period, 13 employees were hired for the project activity. However, SGK records for the employees should be provided to confirm the employment. During this monitoring period, all the employees except Bahattin DILBER attend to the trainings as confirmed through the certificates /17-36/. Please also provide a certificate or an attendance list for the missing employee. In addition, the given certificates for the security are not added to the training list given in the monitoring report. Please add the missing trainings.		records and the training certificates of the employees are provided to DOE along with the certificates. During this monitoring period, Hüseyin Vergili, Mehmet Girginler and Faruk Yılmaz have left the job. The related tables are now revised accordingly. Also, the training information of Bahattin Dilber along with many others are now added to the table. Moreover, Yasin Karabiyik has started working from February 2015, whose name is now included to the list.	Local Job Creation: The new list of the employees could now be confirmed as per the provided SGK records. However, please provide a document for their end date of the work to confirm that they are not an employee at the end of the monitoring period. Otherwise, they should be considered as employees for this monitoring period. All the training certificates for the employee of Bahattin DILBER is now provided to the verification team. This trainings and the health and safety trainings given for the security are now added to the training list. Hence, CAR 4 is closed.
CR 1 The title of the project activity is given as “Yuntdag 57.5 MW Wind Power Project, Turkey” in the Monitoring Report version 01 /2/ and it is in line with the registered PDD /1/ and GS Registry. However, with the new Generation License, the total capacity is reach to 60MWm/60MWe as confirmed through the Amended Generation License /12/. Please correct.	A.1	Title of the project is now revised accordingly. The PDD is now revised according to “Yuntdag Wind Power Project, Turkey”, and is under GS review process. The title of the project activity is revised as “Yuntdag Wind Power Project, Turkey” in the monitoring report and the Registry (Markit). After the GS review process, the title used in the PDD will be in line. Response 2 (29/09/2015): The revised version for the Project Design Document is uploaded to the registry. The e-mail sent to Gold Standard along with the revised PDD prepared by Lifenerji is now provided to DOE also.	Review 1 (08/09/2015): The title of the project activity is revised as “Yuntdag Wind Power Project, Turkey” in the monitoring report and the Registry (Markit). However, an explanation is not given in the corrections part of the MR and the name of the project activity is not in line with the registered PDD. Please clarify. Hence, CR 1 is not closed. Review 2 (23/09/2015): An explanation still is not given in the corrections part of the MR about the changing in the name of the project activity. In addition, please provide an evidence to confirm that the PP will be in line. Hence, CR 1 is not closed.

Corrective action and/ or clarification requests	Reference to Table 1	Response by project participants	Verification conclusion
			<u>Review 3 (30/09/2015):</u> Evidence (mail to GS and registered PDD with the project title “Yuntdag Wind Power Project, Turkey”) is now provided to the verification team. Hence, CR 1 is closed.
CR 2 The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 06.0 of 19/05/2006 /6/. However, the given version of the methodology is not in line with the registered PDD.	A.3	The given version of the methodology is now revised accordingly.	<u>Review 1 (08/09/2015):</u> The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 06.0 of 19/05/2006 /6/. The monitoring report is now in line with the registered PDD. Hence, CR 2 is closed.
CR 3 The electricity generation supplied to the grid, electricity consumption from the grid used in the emission reduction calculations are read and recorded monthly. However, this is not discussed in the monitoring report.	B.3.5	This issue is now discussed in the monitoring report.	<u>Review 1 (08/09/2015):</u> It is now mentioned that the electricity generation supplied to the grid, electricity consumption from the grid used in the emission reduction calculations are read and recorded daily and monthly periods. Hence, CR 3 is closed.
CR 4 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/ in line with the ACM0002 /7/. However, this issue is not discussed in the monitoring report.	B.5.4	This issue is now discussed in the monitoring report.	<u>Review 1 (08/09/2015):</u> It is now discussed in the monitoring report that 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/ in line with the ACM0002 /7/. Hence, CR 4 is closed.

TABLE 3 FORWARD ACTION REQUEST

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



RINA

CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:
We declare that Mr/Mrs/Ms:

Tugce Kiratli

è qualificato come¹:
is qualified as:

**VCS/GS-TEC, VCS-VAL, VCS-VER, GS-VAL, GS-VER,
GS-TL, VCS-TL, SCS – TEC, SCS-VAL, SCS-VER, SCS-
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

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	-
6	08/06/2015	Update qualification according new AS 6.0

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
VER: Verifier
TEC: Technical Expert
TL: Team Leader
FIN-EXP: Financial Expert
DET: Determiner

CDM: Clean Development Mechanism
VCS : Verified Carbon Standard:
GS: Gold Standard
SCS: SocialCarbon Standard
JI: Joint Implementation

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



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 -TEC, -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	Renewables	1
13.1	Solid Waste and waste water	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	-
9	22-12-2014	Update qualification according to AS ver.6.0

Il Resp. QPT
Head of QPT

¹ Legend:

VAL: Validator
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