



RINA

GOLD STANDARD VERIFICATION/CERTIFICATION REPORT

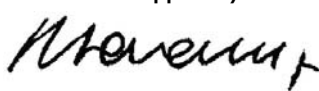
**“Akbük Wind Farm Project - Turkey”
in
Turkey**

Monitoring period: 01/04/2010 to 31/03/2011
(both days included)

Report N° 2011-DG-03-MD

Revision N° 1.1

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Project Title: Akbük Wind Farm Project – Turkey		Country: Turkey	Estimated CERs (tCO₂e): 67,570 annual average	
GS Registration Reference N°: GS436		Monitoring period: 01/04/2010 – 31/03/2011 (both days included)	Certified CERs (tCO₂e): 60,852	
Client: Ayen Enerji A.S.		Client contact: Mr. Hakan DEMIR		
Report No.: 2011-DG-03-MD		Revision: 1.1	Date of this report: 30/06/2011	
Approved by (Final Report – DCI Director approval):  Roberto Cavanna			Date of approval: 05/07/2011	
Methodology				
Number: ACM0002	Version: 07 of 30/11/2007	Title: Consolidated baseline methodology for grid-connected electricity from renewable sources.	Scale Large	SS(s): 1

RINA Services S.p.A. (RINA), commissioned by Ayen Enerji A.S., has verified the greenhouse gas emission reductions reported for the project activity “Akbük Wind Farm Project – Turkey” in Turkey, GS Registration Reference N° 436, for the period 01/04/2010 – 31/03/2011 (both days included), 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 CDM requirements in order to be certified.

The project was validated by TÜV Rheinland (validation report N°2008-9215 issued on 18/12/2008) and it was registered on 17/03/2009 under the Gold Standard Project IDGS436.

The GHG emission reductions were calculated on the basis of the approved methodology ACM0002 version 07, Consolidated baseline methodology for grid-connected electricity from renewable sources of 30/11/2007 and the monitoring plan included in the registered Project Design Document, version 03 of 03/03/2009.

In conclusion, it is RINA's opinion that the project activity “Akbük Wind Farm Project – Turkey” in “Turkey”, as described in the Monitoring Report version 02 of 14/04/2011, meets all relevant requirements for CDM and GS 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 07 of 30/11/2007. Hence RINA is able to certify that the emission reductions from the project during the monitoring period 01/04/2010 – 31/03/2011 amount to 60,852 tCO₂e.

Work carried out by: Rita Valoroso Sergio Degener Hasan Zor	☒ No distribution without permission from the Client or organizational unit responsible ☐ Strictly confidential ☐ Unrestricted distribution
Work verified by (Final Report – CRT person responsible approval)  Paolo Teramo	Keywords: Climate Change, Kyoto Protocol, Verification, Gold Standard

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Abbreviations

ACM	Approved consolidated methodology
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane
CR	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CRT	Coordination and Technical Control Staff
DCI	Certification Division of RINA Services Spa
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
LoA	Letter of Approval
MoV	Means of Verification
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
Ref.	Document Reference
RINA	RINA Services Spa
SS(s)	Sectoral Scope(s)
TEİAŞ	Türkiye Elektrik İletim Anonim Şirketi (National grid company)
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

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Appendix A: Gold Standard Verification Protocol

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1 INTRODUCTION

Ayen Enerji A.S. has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered “Akbük Wind Farm Project – Turkey” project in Turkey, GS Registration Reference N° 436, for the period 01/04/2010 – 31/03/2011.

This report summarizes the findings of the verification of the project, performed on the basis of UNFCCC criteria for CDM and GS, 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 “Akbük Wind Farm Project – Turkey” project in Turkey for the period 01/04/2010 – 31/03/2011.

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 UNFCCC criteria for CDM and GS 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 Manual, 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 02 of 14/04/2011 /2/, the emission reduction calculations provided in the form of a spreadsheet, "110414 2PV Emission Reduction Calculation 2.0version" of 11/04/2011 /30/, were assessed as part of the verification. In addition, the Project Design Document (PDD) /01/, in particular as regards the baseline estimations and the monitoring plan, the previous verification report revision 02 of 09/07/2010 /08/ and the validation report, revision 01 of 18/12/2008 /05/ for the project, were reviewed.

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

/01/	Ecofys Netherlands BV: GS-CDM-PDD for project activity "Akbük Wind Farm Project – Turkey" in Turkey, version 03 of 3/3/2009.
/02/	ORBEO: Monitoring report for project activity "Akbük Wind Farm Project – Turkey" in Turkey, version 2 of 14/04/2011 related to the monitoring period 01/04/2010 to 31/03/2011 (both days included)
/03/	The Gold Standard: Requirements, version 2.0 of 1 August 2008
/04/	The Gold Standard: Toolkit and related Annexes (A – S), version 2.0 of 1 August 2008
/05/	CDM Executive Board: Validation and Verification Manual, version 01.2 of 30/07/2010
/06/	CDM Executive Board: Baseline and monitoring methodology ACM0002, Consolidated baseline methodology for grid-connected electricity generation from renewable sources, version 07 of 30/11/2007.
/07/	TÜV Rheinland – Validation Report for "Akbük 31.5 MW Wind Farm Project" No. 2008-9215 revision 01 of 18/12/2008.
/08/	RINA: First Verification report n. 2010-DG-ME-04 revision 2, 25/08/2010
/09/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol April 2010 of 01/05/2010
/10/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol May 2010 of 01/06/2010
/11/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol June 2010 of 01/07/2010
/12/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol July 2010 of 01/08/2010
/13/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol August 2010 of 01/09/2010
/14/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol September 2010 of 01/10/2010
/15/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol October 2010 of 01/11/2010
/16/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol November 2010 of 01/12/2010
/17/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol December 2010 of 01/01/2011
/18/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol January 2011 of 01/02/2011
/19/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol February 2011 of 01/03/2011

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/20/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Measuring protocol March 2011 of 01/04/2011
/21/	Akademi Akad: Participant list of Basic First Aid course, from 24-28 March, 2011, dated 28/03/2011
/22/	Akademi Akad: Certificate of completion Basic First Aid issued to Ahmet Demir on March 2011
/23/	Akademi Akad: Certificate of completion Basic First Aid issued to Erdinc Akay on March 2011
/24/	Akademi Akad: Certificate of completion Basic First Aid issued to Mustafa Oz on March 2011
/25/	Akademi Akad: Certificate of completion Basic First Aid issued to Mustafa Sanli Vural on March 2011
/26/	Akademi Akad: Certificate of completion Basic First Aid issued to Nuri Soydan on March 2011
/27/	Akademi Akad: Certificate of completion Basic First Aid issued to Ozgur Soylu on March 2011
/28/	Akademi Akad: Certificate of completion Basic First Aid issued to Oznur Yamankacar on March 2011
/29/	Akademi Akad: Certificate of completion Basic First Aid issued to Suleyman Efe on March 2011
/30/	ORBEO – Emission reductions calculation spreadsheet version 2 of 11/4/2011
/31/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Ahmet Demir
/32/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Altug Gumrukcu
/33/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Arif Cam
/34/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Durmus Mersin
/35/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Erdinc Akay
/36/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Hakan Oz
/37/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Kagan Turan
/38/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Mustafa Oz
/39/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Mustafa Sanli Vural
/40/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Nuri Soydan
/41/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Orguz Ercakir
/42/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Ozgur Soylu
/43/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Oznur Yamankacar
/44/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Serdar Gumrukcu
/45/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Suleyman Efe
/46/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Suleyman Herdemgil
/47/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Suleyman Yetkin Soker
/48/	Ayen: Certificate of completion Fire Protection course, dated 29/03/2011, Tekin Oksuz
/49/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Ahmet Demir
/50/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Altug Gumrukcu
/51/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Arif Cam
/52/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Durmus Mersin
/53/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Erdinc Akay
/54/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Hakan Oz
/55/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Kagan Turan
/56/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Mustafa Oz
/57/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Mustafa Sanli Vural
/58/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Nuri Soydan
/59/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Orguz Ercakir

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/60/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Ozgur Soylu
/61/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Oznur Yamankacar
/62/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Serdar Gumrukcu
/63/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Suleyman Efe
/64/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Suleyman Herdemgil
/65/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Suleyman Yetkin Soker
/66/	Ayen: Certificate of completion Health and Safety course, dated 29/03/2011, Tekin Oksuz
/67/	TEİAŞ Genel Müdürlüğü: Main and backup meter test protocol, serial number 368746 and 368745 respectively, dated 20/01/2011.
/68/	PMUM (electricity authority): screenshot electricity supplied to the grid May 2010, October 2010 and January 2011 (http://dgpys.teias.gov.tr/dgpys/) – Turkish language retrieved on 10/05/2011
/69/	SGK (social security): Disemployment Proclamation Ufuk Ayyidiz, dated 31/01/2011
/70/	SGK (social security): Disemployment Proclamation Taner Cayiroglu, dated 30/06/2010
/71/	SGK (social security): Employment Contract Nuri Soydan, dated 05/03/2011
/72/	SGK (social security): Employment Contract Durmus Mersin, dated 04/03/2011
/73/	SGK (social security): Employment Contract Suleyman Yetkin Soker, dated 02/09/2010
/74/	Germanischer Lloyd: Statement of Compliance for the Wind Park design, dated 22/06/2007
/75/	CDM Executive Board: Methodological Tool “Tool to calculate the emission factor for an electricity system”, version 01.1 of 29 July 2008.
/76/	Gold Standard: Voluntary emission reductions (VERs) Manual for project developers, version 5 of May 2006.
/77/	ORBEO – GS VER Monitoring Manual: Akbuk Wind Farm Project – Turkey, version 1.1 of May 2010
/78/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – First index evaluation protocol of 19/3/2009 – commissioning date.
/79/	TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Annex measuring protocol from 31/3/2009 to 3/4/2009 – commissioning date.
/80/	Turkish Standards and International Electro technical Commission standard (http://www.epdk.gov.tr/web/quest;jsessionid=27C831F4376EA017FEF4BB165A1E01B8)

2.2 On-site assessment

On 05/05/2011, RINA visited the wind farm located in Didim district, Aydın Province, Aegean Region. 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 key personnel interviewed and the main topics of the interviews are summarized in the table below.

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	Date	Name and Role	Organization	Topic
/a/	05/05/2011	Hakan DEMIR Project Developer	AYEN ENERGI A.S.	Personell issues Monitoring data
/b/	05/05/2011	Altuğ GÜMRÜKÇÜ Site Engineer	AYEN ENERGI A.S.	Monitoring equipment, calibration certificates Operation
/c/	05/05/2011	Hinrich Bornebusch GS Consultant	ORBEO	Monitoring Report Emission Reduction Calculations Gold Standard Parameters
/d/	05/05/2011	Osman Coskun Bazaar Security Officer	Akyeniköy Municipality	Gold Standard Parameter Livelihood of the poor (building of new bazaar)

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 CDM and GS requirements 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	Draft Conclusion	Final Conclusion
Checklist questions organized in seven 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.	OK is used if the information and evidence provided is adequate to demonstrate compliance with CDM requirements. For CAR, CR and FAR see the definitions above.	OK is used if the information and evidence provided is adequate to demonstrate compliance with CDM requirements.

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.

Table 2 and 3 have not been included in this report since no CARs, CLs and FARs have been raised during this verification.

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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	Country
Team Leader CDM/GS in training, CDM/GS Verifier	Degener	Sergio	Germany
Team Leader, CDM/GS Verifier	Valoroso	Rita	Italy
Local Expert	Zor	Hasan	Turkey
Technical Reviewer	Teramo	Paolo	Italy
Technical Reviewer	Raghavan Nair	Reghu Kumar	India

3 VERIFICATION FINDINGS

The findings of the verification related to the monitoring period from 01/04/2010 to 31/03/2011 as documented and described in the monitoring report version 02 of 14/04/2011 /02/ are stated in the following sections.

The verification requirements, 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)	Ayen Enerji A.S.		
Project Title	Akbük Wind Farm Project - Turkey		
Location of the project	Turkey		
Methodology(ies)	ACM0002, Consolidated baseline methodology for grid-connected electricity generation from renewable sources, version 07 of 30/11/2007 /06/		
Sectoral Scope(s)	1	RINA's Technical Area(s)	1.2
Registered PDD	Version 03 of 03/03/2009		
Date of registration	17/03/2009	GS Registration Reference N°	GS436
Starting date of the crediting period	7/11/2008 (stated in the registered PDD)		

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	19/3/2009 (crediting period starting date based on commissioning date of the power plant).
Project's crediting period	07/11/2008 to 06/11/2015 (as per registered PDD) 19/03/2009 to 18/03/2016 (based on the commissioning date of the power plant)
Monitoring period	01/04/2010 to 31/03/2011
Project documentation link	https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=436

The project activity is a wind farm project which involves the installation of 15 wind turbines, each with a 2.1 MW capacity and making the total installed capacity of 31.5 MW. The electricity produced is delivered to the Turkish national grid (TEİAŞ). The estimated net electricity production is 105,000 MWh/year and the annual emission reductions are estimated to be 67,570 tCO₂e per year. During the monitoring period of 01/04/2010 to 31/3/2011 (both days included), the net electricity supplied to the grid amount to 94,493 MWh and the emission reductions to 60,852 tCO₂e. As per the registered PDD /1/, the starting date of the crediting period was fixed on 7/11/2008, the project was registered on 17/3/2009. However, the actual starting date of the crediting period was 19/3/2009. As per Gold Standard requirement, the actual start of crediting period for projects under regular cycle is defined as the start date of operation /76/, hence since the start date of the operation is 19/3/2009 the crediting period can start with this date /78/.

The monitoring of the parameters is discussed in the following sections of this verification report.

3.2 Remaining issues (FARs) from previous validation or verification

Based on the review of the validation report /7/ and previous verification report /8/, no FARs were raised during the validation and/or the first periodic verification.

3.3 Project implementation

From the on-site inspection of 05/05/2011, it is confirmed that the proposed project activity has been implemented and it is in operation in accordance with the project activity described in the registered PDD /01/. The project activity consists of the installation and operation of 15 wind turbines having 2.1 MW capacity each. All 15 wind turbines have been installed and the commissioning has been done in two different phases. In the 1st phase, 8 turbines (No. 1, 2, 3, 4, 5, 6, 10 and 15) were commissioned on 19/3/2009 /78/ and the remaining 7 turbines (No. 7, 8, 9, 11, 12, 13 and 14) were commissioned on 3/4/2009 in the 2nd phase /79/. Moreover, the project boundary in the registered PDD is in line with the actual project boundary. Anyway no change in the registered project activity /1/ occurred during the monitoring period from 01/04/2010 to 31/03/2011. The technical details of the wind turbines in the registered PDD /1/ have been checked with the technical specification from the "Statement of Compliance" issued by Germanischer Lloyd on 22/06/ 2007 /74/.

Based on the on-site 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/.

3.4 Methodology for determining Emission Reductions.

According to the applied ACM0002, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", version 07 of 30/11/2007 /6/, the emission reductions have been calculated based on the following formula:

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$$ER_y = BE_y - PE_y - LE_y$$

Where:

BE_y baseline emissions in year y (tCO₂e/yr)

PE_y project emissions in year y (tCO₂e/yr)

LE_y 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, which is calculated by multiplying the electricity supplied to the grid (MWh) with the combined margin CO₂ emission factor for grid connected power generation in year. Since the project activity involves the generation of electricity by wind farm and does not result in greenhouse gas emission, and the energy generating equipments is not transferred from or to another activity, the project and leakage emissions account to zero.

3.4.1 Compliance of the monitoring plan with the monitoring methodology

The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 07 /6/ and in addition the methodological tool “Tool to calculate the emission factor for an electricity system” version 01.1 /75/. RINA confirms that the monitoring plan in the registered PDD /1/ complies with the applied CDM methodology and with the sustainability indicators established by the Appendix D of the Gold Standard requirements /76/.

3.4.2 Compliance of monitoring with monitoring plan

The monitoring plan in the monitoring report version 2 of 14/04/2011 for the period of 01/04/2010 to 31/03/2011 (both days included) /2/ complies with the monitoring plan in the registered PDD /1/, moreover, it is confirmed that the monitoring plan and the monitoring methodology have been properly implemented and any changes in the monitoring plan occurred during the above monitoring period.

The only monitoring indicator is the electricity supplied by the project activity to the grid monitored by the calibrated electricity meter located at the transformer station (delivery point to the national grid) as described in the monitoring plan of the registered PDD /01/ and monitoring report /2/. Two electricity bi-directional meters have been installed, one is the main meter (serial number 368746) and the other is the backup meter (serial number 368745). All wind turbines (15) are connected to the described metering point. As per the manufacturer’s specification, both electricity meters have the accuracy of 0.2s. Both the electricity meters, as confirmed through the on site visit, are sealed by the grid company. TEIAS, the grid company is responsible for the installation, calibration and maintenance of the devices based on national requirements/standards that means every year. Calibration reports issued by the grid company /67/ covering the whole monitoring period were checked and demonstrated the maintenance of the accuracy and that the electricity meters measured correctly.

The net power delivered from the project activity is determined by the electricity supplied to the grid minus the imported electricity from the grid, taking into account the transmission losses at the same time. This is the basis of the emission reductions calculations. The monthly protocols, signed by the project owner and the grid company, are used for the invoicing, which can be considered as the most reliable data sources. The net electricity exported to the grid during the monitoring period is 94,493 MWh, which has been double checked against the monthly protocols /9 – 20/. RINA can confirm that the values are consistent and complete for the whole monitoring period.

According to the monitoring plan in the registered PDD /01/ and in the monitoring report /02/, the project owner provided the monitoring of the sustainable indicators, including the employment quality, the livelihood of the poor (access to essential services) and employment numbers. As per the Gold Standard requirements /76/, the “employment quality” indicator is used to evaluate the qualitative value of employment and the project owner considered training as an important issue to improve the job quality of employees. In March 2011, eight employees of the wind power plant participated to the training course “Basic First Aid” organized by Akademi Akad/21-29/; moreover, all employees (eighteen) participated in the course “Fire Protection”/31-48/. The training “Health and Safety” was also attended by all employees /49 – 66/. As mentioned in previous section, RINA carried out a site

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inspection visiting the Akbük Wind Farm. During the site visit, the key personnel of the plant were interviewed, confirming the operational and data collection procedure conducting in the renewable energy power plant. During the on site visit, Mr. Altuğ GÜMRÜKÇÜ, the Site Engineer, interfaced with the verification team. Based on that, RINA can confirm that the trainings provided by the PP during the monitoring period have been oriented to improve the employment quality of the employees.

The “livelihood of the poor (access to essential services)” indicator is used to evaluate contribution of the project to equitable distribution of wealth and opportunity. The project owner, as established in the monitoring plan of the registered PDD /01/, built a bazaar area for the public within Akyeniköy Municipality area. From the on-site inspection, it is confirmed that the new bazaar area at Akyeniköy, financed by the project owner has been completed and the bazaar is operating throughout the year. During the on site visit at Akbük Wind Farm, RINA also visited the bazaar area. The bazaar is organized once per week, At the time of the site inspection, on 05/05/2011, the bazaar was not open. Nevertheless, RINA visited the bazaar area, which is located in a public area within the Akyeniköy Municipality; people from the closest villages can use it for selling/buying products in a comfortable and clean condition. It thus enhances their access to essential services. Before the implementation of the bazaar, as stated in the registered PDD /1/, there was no bazaar area in the region and the streets were used by the locals as the bazaar area once a week, which led to congestion and product hygiene problems. Before the construction of the new bazaar, the street was full of garbage as the bazaar took place in the street without good infrastructure, which created un-healthy conditions. With the help of RINA’s local expert, Hasan Zor (Turkish citizen with Turkish language as mother tongue), an interview was performed with Mr. Osman Coskun, the Bazaar Security Officer from the Akyeniköy Municipality. He confirmed the improvement achieved in the region through the construction of the bazaar. Based on the above evidences, RINA can confirm that the new bazaar area constructed through the financing of the PP has improved the livelihood of the poor enhancing the access of the villagers to essential services.

The “employment (numbers)” represents an indicator of economic sustainability measuring the number of additional jobs directly created by the project. The project creates jobs in the project area. The total employees actually involved in operation at the plant are 18. During the on site inspection, the job contracts of the new employees /71-73/ and the contract cancelling agreements /69-70/ have been checked.

The following parameters have been monitored in accordance to the monitoring plan in the registered PDD /01/ and the monitoring report /2/.

3.4.2.1 Data fixed ex-ante

DATA/PARAMETER	Source of data	Reported value for the project period	Assessment/Observation
EF _{grid,CM} Combined Margin emission factor.	TEİAŞ – grid company official data source.. Registered PDD /01/	0.644 tCO ₂ /MWh.	According to the approved methodology ACM0002 version 07 and the methodological tool “tool to calculate the emission factor for an electricity system” version 01.1, 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.

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3.4.2.2 Monitored data

DATA/PARAMETER	EGy
Data Unit	MWh
Description	Electricity supplied by the project activity to the grid.
Source of data to be used	Electricity meters; monthly grid company protocols.
Value data for the monitoring period	94,493 MWh
Measuring frequency	Hourly and monthly aggregation.
Reporting frequency and recording procedure	Data are recorded every 15 minutes, hourly and monthly aggregation is made. This is in line with the monitoring plan in the registered PDD /1/ and in the monitoring report /02/.
Type of monitoring equipment	Two electricity bi-directional meters (ELSTER, with accuracy of 0.2s) are installed, one is the main meter (serial number 368746) and the other one is the backup meter (serial number 368745).
Is accuracy of the monitoring equipment as stated in the PDD?	The registered PDD /1/ does not mention the accuracy of the monitoring equipment as it was not confirmed at the time for preparing the PDD, but it can be confirmed at this step that the meter accuracy is in line with local regulations as is controlled by the national electricity authority.
Calibration frequency/interval	TEAİŞ, the grid company, is responsible for the calibration and maintenance of the devices. The calibration frequency is established based on national requirements/standards /80/ that means every year. The following calibration reports have been checked and confirm that the electricity meters correctly functioned for the whole monitoring period. Main meter – serial number 368746: Electricity meter test protocol issued by TEAİŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü on 20/01/2011 /67/. Back up meter – serial number 368745: Electricity meter test protocol issued by TEAİŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü on 20/01/2011 /67/.
Is the calibration interval in line with the monitoring plan of the PDD?	The registered PDD /1/ does not mention the exact frequency but it refers to regular calibration and maintenance. The meter test results confirm the correct function of the measurement instrument, no replacement or calibration was necessary.
How were the values in the monitoring report verified and cross-checked?	The net electricity exported to the grid has been double checked against the monthly protocols /9 – 20/ signed in conjunction by the project owner and the grid company. Furthermore, the measured electricity of the main metered is compared with the

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	check meters, no significant deviation was found, and the data was within the permissible limit for the period under verification.
Does the data management (from monitoring equipment to emission reduction calculation) ensure correct transfer of data and reporting of emission reductions?	The electricity meter records data every 15 minutes and the aggregated hourly. A monthly aggregation is made. By the end of each month, a personnel from the grid company in conjunction with the project owner read the value on the electricity meter and considers it for the invoicing. A protocol is issued and signed by both parties; data from the monthly protocols are transferred to the excel sheet used for the emission reduction calculations /30/. The plant manager is responsible for monitoring issues within the project activity.
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 data were available for the whole monitoring period.

Gold Standard Monitoring Parameters

Data variable	Source of Data	Reported value for the project period	Assessment
Employment Job quality	List and training Certificates	3 trainings	To improve job quality of employees the project owner carried out three specific trainings. The training certificates have been checked /31-66/
Livelihood of the poor	Building of a new bazaar area at Akyeniköy Municipality.	Completed	During the site visit, a stakeholder was interviewed by RINAs local expert in order to confirm the continuous operation of the Bazaar. The improvement of the region through the construction of the bazaar has been confirmed during the on-site visit.
Employment numbers	Number of Jobs created	18 people currently employed.	In this monitoring period (01/04/2010 to 31/03/2011), 2 employees left the company and 3 new employees were

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			contracted. Information from the social security has been used for cross- checking. /69-73/
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3.4.3 Accuracy of emission reduction calculations

The emission reduction calculations provided in the spreadsheet/30/ 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 2 of 14/04/2011 /2/ is equivalent to 60,852 tCO₂e. The reported emission reductions are 10% lower than the estimated emission reduction of 67,570 tCO₂e for the period as per the registered PDD/1/.

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 3.4.2.2.

3.4.4 Management system and quality control

The monitoring manual /77/ made in place at beginning of the monitoring activities for the Project which covers all the procedures required as per the approved methodology ACM0002/06/ and the validated monitoring plan/01/, has been followed for carrying out the monitoring of the actual monitoring period. To guarantee the accuracy of the monitoring data periodical calibration of the installed monitoring equipment has been carried out; the original data from the electricity meters are edited monthly in the protocol provided by the grid company /9-20/. The data from the protocols are transferred to the Excel sheet used for the emission reductions calculation.

The calculation of VERs for the second verification period is carried out through the spreadsheet "110414 2PV Emission Reduction Calculation 2.0" /30/. The on-site visit at Akbük plant confirmed that the monitoring and reporting is carried out consistently and in line with the established procedures.

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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 “Akbük Wind Farm Project - Turkey” in Turkey, GS Registration Reference N° 436, for the period 01/04/2010 to 31/03/2011, with regard to the relevant requirements for GS activities.

The project participants of the “Akbük Wind Farm 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 03 of 03/03/2009
- 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 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 02 of 14/04/2011 for the “Akbük Wind Farm Project - Turkey” project in Turkey for the period 01/04/2010 to 31/03/2011 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 generation from renewable sources”, version 07 of 30/11/2007 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 01/04/2010 to 31/03/2011 amount to 60,852 tCO₂e.

Year 2010	01/04/2011 to 31/12/2010	44,157 tCO ₂ e
Year 2011	01/01/2011 to 31/03/2011	16,695 tCO ₂ e

Genova, 30/06/2011

Rita Valoroso
CDM/GS Team Leader
RINA Services S.p.A

Genova, 05/07/2011



Paolo Teramo
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	Draft Conclusion	Final Conclusion
A Description of Project Activity						
A.1	Title of the project activity, revision number and date of Monitoring Report	/1/	DR	The title of the project activity as per the registered PDD and per the monitoring plan is: Akbük Wind Farm Project – Turkey. The monitoring report is dated 14/4/2010 and the version is 2.0.		OK
A.2	Is the actual implementation and operation of the proposed project activity in accordance with the project activity in the registered PDD?	/74/	DR I	The Monitoring Report version 2.0 of 14/4/2010 includes an explanation about the two commissioning phases. Technical details of the wind turbines in the registered PDD have been checked with the technical specification from the “Statement of Compliance” prepared by Germanischer Lloyd. The technical details in the PDD are in compliance with the technical documentation provided by the manufacturer. The installation and operation of 15 wind turbines having 2.1 MW capacity each have been installed and the commissioning has been done in two different phases. In the 1 st phase 8 turbines (No. 1, 2, 3, 4, 5, 6, 10 and 15) have been commissioned on 19/3/2009 and the in the 2 nd phase the remaining 7 turbines (No. 7, 8, 9, 11, 12, 13 and 14) were commissioned on 3/4/2009.		OK
A.3	Methodology applied for the registered project activity	/1/ /6/ /75/	DR	The registered project activity applies the approved baseline and monitoring methodology ACM0002 version 07 of 30/11/2007; in addition it has been		OK

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

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
				applied the methodological tool to calculate the emission factor for an electricity system, version 01.1 of 29 July 2008.		
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/ /2/ /6/	DR I	Yes, the monitoring plan complies with the applied methodology ACM0002 version 07 by the registered GS project activity.		OK
B.1.2	Does the monitoring comply with the monitoring plan in the registered PDD?	/1/ /2/ /3/ /6/ /7/	DR I	Yes, the monitoring plan complies with the monitoring plan in the registered PDD. Data and parameters monitored are listed in the following section of this verification protocol.		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/ /3/	DR I	Yes, the sustainability indicators in the monitoring report comply with the sustainability indicators established by the Appendix D of the Gold Standard requirements.		OK
B.1.4	Have any changes been made to the key sustainable development indicators?	/1/ /2/ /3/	DR I	No, any change occurred to the key sustainable development indicators during the monitoring period from 01/04/2010 to 31/03/2011.		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/ /2/ /6/ /7/ /8/	DR	The only parameter available at validation and that no need to be monitored is the Combined emission factor of the national grid. According to the approved methodology ACM0002 version 07 and the methodological tool to calculate the emission factor for an electricity system version 01.1, the		OK

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
				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 0.644 tCO ₂ /MWh		
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/ /2/ /6/ /7/	DR I	EGy : electricity supplied by the project activity to the grid. The parameter is measured in MWh and it is measured by the electricity meter located at the transformer station at the delivery point to the national grid.		OK
B.3.2	Is the measurement equipment described? Is the accuracy of the measurement equipment addressed and deemed appropriate?	/1/ /2/ /3/ /67/	DR I	Yes. Two electricity bi-directional meters are installed, one is the main meter (serial number 368746) and the other one is the backup meter (serial number 368745). As per the manufacturer's specification the electricity meter has the accuracy of 0.2s.		OK
B.3.3	Are the requirements for maintenance and calibration of measurement equipment described and deemed appropriate?	/1/ /2/ /67/	DR I	As per the registered PDD the electricity meters are subjected to a regular maintenance and regime by the grid company to ensure the accuracy of the instruments. TEİAŞ is responsible for calibration and maintenance of the devices. Both electricity meters has been checked for correct recording as demonstrated in the test protocols dated 20/01/20011.		OK
B.3.4	Is the monitoring frequency adequate for all monitoring parameters? Is it in line with the registered	/1/ /2/ /7/	DR I	The calibration frequency is established based on national requirements/standards that means		OK

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
	monitoring plan?	/67/		every year. The registered PDD does not mention the exact frequency but it refers to regular calibration and maintenance. During the on site inspection the calibration reports were checked and they covers the monitoring period. TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Electricity meter test protocol (serial number 368745) of 20/01/2010; TEİAŞ Türkiye Elektrik İletim Anonim Şirketi Genel Müdürlüğü – Electricity meter test protocol (serial number 368746) of 20/01/2011. The test result shows a correct function of the electricity meters.		
B.3.5	Is the recording frequency adequate for all monitoring parameters? Is it in line with the registered monitoring plan?	/1/ /2/ /9-20/	DR I	Data are recorded every 15 minutes, hourly and monthly aggregation is made. This is in line with the monitoring plan in the registered PDD. The net electricity production supplied to the grid is measured taking into account the line losses and the electricity consumed by the power plant.		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/ /9-20/ /30/		Every end of month the grid company in conjunction with the PP read the value on the electricity meter and considers it for invoicing. The protocol is signed by both parties. Protocols related to the monitoring period have been checked during the on site inspection. The data from the protocols are transferred to the excel sheet used for the emission reduction calculations. The plant manager is responsible for monitoring issues within the project activity.		OK

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
B.4 Monitoring of sustainable development indicators/environmental impacts						
B.4.1	Is the monitoring of sustainable development indicators/ environmental impacts warranted by legislation in the host country?	/1/ /2/ /3/ /7/		No. The project owner according to the Gold Standard requirements provided to monitor the sustainable indicators as per the registered PDD like: employment quality, livelihood of the poor (access to essential services), employment numbers.		OK
B.4.2	Have the mitigation/compensation measures been achieved and implemented?	/22-29/ /31-48/ /49-66/ /69-73/	DR I	Yes. 1) Employment (quality). The number of trainings and attendance of employees have been monitored. During the monitoring period (during March 2011). Three different trainings were performed, Basic First Aid (8 participants), Health and Safety and Fire Protection (18 participants each). At this purpose the list of participants and the related certificates of completion of the training have been checked during the on site inspection. 2) Livelihood of the poor (access to essential services). The project owner, as established in the registered PDD, built a new bazaar area for within Akyeniköy Municipality area for the use of public. From the on site inspection is confirmed that the new bazaar area at Akyeniköy financed by the project owner has been completed and it is already in using. With help of RINAs local expert, Hasan Zor, RINA was able to perform an interview with Mr. Osman Coskun, Bazaar Security Officer from the Akyeniköy Municipality, he confirmed the improvement achieved in		OK

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
				the region through the construction of the bazaar. 3) Employment (numbers). The project creates jobs in the project area. The total employees actually in operation at the plant are 18, 1 more than in the previous crediting period. During the on site inspection the job contracts and the proof of social security payment have been checked. 2 employees left the company, and 3 new employees have been contracted.		
B.4.3	Does the monitoring report provide for the collection and archiving of relevant data concerning environmental, social and economic impacts?	/2/	DR I	Yes, all the documented evidences related to the sustainable parameters monitored is collected and kept.		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?	/2/ /30/	DR I	An on site inspection has been performed on 05/05/2011 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)?	/8-20/ /30/	DR I	The original data from the electricity meter are edited monthly in the protocol signed by the project owner and by grid company. The data from the protocols are transferred to the excel sheet used for the emission reduction calculations.		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?	/1/ /2/	DR	A Monitoring Manual has been provided establishing quality assurance and quality control procedures to ensure that the emission reductions resulting from the project can be reported and verified.		OK

Checklist Question		Reference	MoV ¹	Comments	Draft Conclusion	Final Conclusion
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 CERs, for this project activity, whichever occurs later?	/1/ /4/ /2/	DR I	The registered PDD expects storing the collected data during the monitoring period at least two years after the last issuance of VERs.		OK