

**MONITORING REPORT FORM (CDM-MR)**
Version 01**CONTENTS**

- A. General description of the project activity
 - A.1. Brief description of the project activity
 - A.2. Project participants
 - A.3. Location of the project activity
 - A.4. Technical description of the project
 - A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity
 - A.6. Registration date of the project activity
 - A.7. Crediting period of the project activity and related information
 - A.8. Name of responsible person(s)/entity(ies)
- B. Implementation of the project activity
 - B.1. Implementation status of the project activity
 - B.2. Revision of the monitoring plan
 - B.3. Request for deviation applied to this monitoring period
 - B.4. Notification or request of approval of changes
- C. Description of the monitoring system
- D. Data and parameters monitored
 - D.1. Data and parameters used to calculate baseline emissions
 - D.2. Data and parameters used to calculate project emissions
 - D.3. Data and parameters used to calculate leakage emissions
 - D.4. Other relevant data and parameters
- E. Emission reductions calculation
 - E.1. Baseline emissions calculation
 - E.2. Project emissions calculation
 - E.3. Leakage calculation
 - E.4. Emission reductions calculation
 - E.5. Comparison of actual emission reductions with estimates in the registered CDM-PDD
 - E.6. Remarks on difference from estimated value

Appendix 1: Line Diagram Showing Relevant Metering Points

Appendix 2: Controller Meter Details

Appendix 3: Net Electricity Exported to Grid (EGy)

**MONITORING REPORT**
Version 2.0 and Date 9/11/2010**Title: “ENERCON WIND FARM (HINDUSTAN) LTD IN RAJASTHAN”****Project Reference No: 1168****Monitoring Period - FROM 15/03/2010 TO 30/09/2010 (including first and last day)****SECTION A. General description of the project activity****A.1. Brief description of the project activity: >>**

>>

Enercon Wind Farm (Hindustan) Ltd in Rajasthan (“Project”) is a 60 MW project installed in the Indian state of Rajasthan. The Project provides reliable, renewable power to the Rajasthan state electricity grid. The Project leads to reduction of greenhouse gas emissions because it displaces electricity from fossil fuel based electricity generation plants. The Project harnesses renewable resources in the region, and thereby displaces non-renewable natural resources ultimately leading to sustainable economic and environmental development. The Project includes 75 Wind Energy Converters of 800 kW each of Enercon E-48 make. Enercon (India) Limited (“Enercon” or “EIL”) is the equipment supplier and the operations and maintenance contractor for the Project. The generated electricity will be supplied to Rajasthan Rajya Vidyut Prasaran Nigam Ltd (“RRVPN”)/ Jodhpur Electricity Distribution Company Ltd (“Jodhpur DISCOM”) under a long-term power purchase agreement (PPA).

The first machine under the project activity was commissioned on 26th November 2006 and the last machine under the project activity was commissioned on 25th December 2006. The expected operational lifetime of the project is for 20 years. The total emission reductions achieved under this monitoring period (15 March 2010 to 30 September 2010) is 51,071 tCO₂e.

A.2. Project Participants

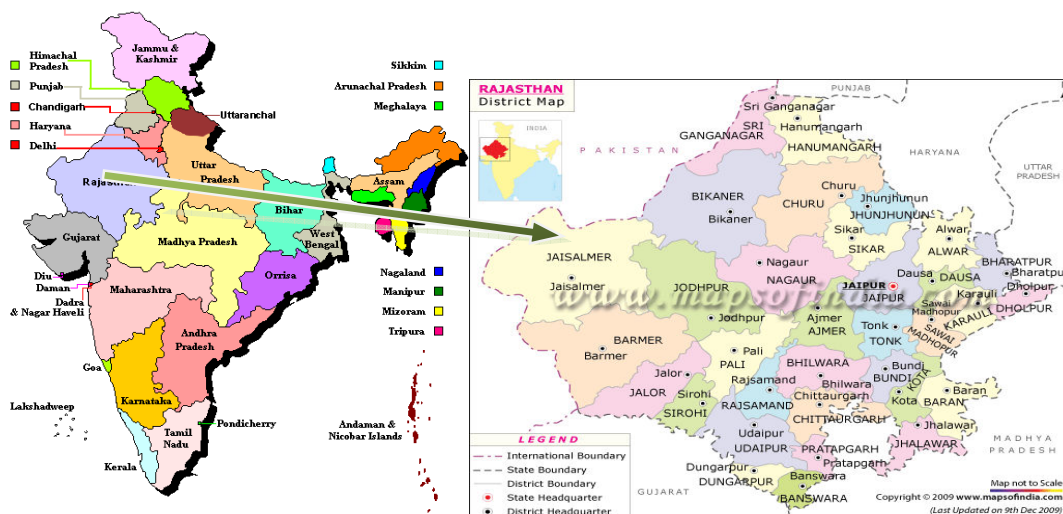
>>

Enercon (India) Limited ("Enercon")
Coöperatieve Centrale Raiffeisen-Boerenleenbank B.A. (Rabobank International), London Branch
("Rabobank")

A.3. Location of the project activity:

>>

The Project is located at Kita and Bhu village, in Jaisalmer district of Rajasthan that forms part of the Northern regional electricity grid of India. The project area extends between latitude 26° 41' & 26° 41.5' North and longitude 70° 57.5' & 71° 4' East.



The Project is connected to the 33/132/220 kV RRVN substation at Amarsagar. The nearest railway station is at Jaisalmer. Individual WEG location numbers and coordinates are detailed out in below table: -

S. No	EWHPL UNIQUE ID	Loc No	Latitude			Longitude		
			Deg.	Minute	Second	Deg.	Minute	Second
1	EWHPL 01	322	26	40	47.5	70	58	58.2
2	EWHPL 02	323	26	40	55.3	70	58	54.6
3	EWHPL 03	145	26	41	2.5	70	58	49.5
4	EWHPL 04	146	26	41	7.7	70	58	43.9
5	EWHPL 05	147	26	41	12.8	70	58	38.4
6	EWHPL 06	148	26	41	18	70	58	32.8
7	EWHPL 07	150	26	41	27	70	58	48.3
8	EWHPL 08	151	26	41	32.1	70	58	42.7
9	EWHPL 09	152	26	41	37.3	70	58	37.2
10	EWHPL 10	153	26	41	38.5	70	59	8.6
11	EWHPL 11	154	26	41	43.6	70	59	3.1
12	EWHPL 12	155	26	41	48	70	58	57.5
13	EWHPL 13	156	26	41	54.1	70	58	52.1
14	EWHPL 14	157	26	41	56.6	70	58	41.5
15	EWHPL 15	307	26	42	12	70	58	24.8
16	EWHPL16	306	26	42	17.2	70	58	19.3
17	EWHPL 17	300	26	42	47.4	70	58	24.4
18	EWHPL 18	301	26	42	43.9	70	58	30.7
19	EWHPL 19	304	26	42	26.8	70	58	46.6



20	EWHP L 20	305	26	42	21.7	70	58	52.2
21	EWHP L 21	161	26	42	16.5	70	58	57.7
22	EWHP L 22	160	26	42	9	70	59	2.2
23	EWHP L 23	159	26	42	1.3	70	59	6.7
24	EWHP L 24	324	26	42	5.7	70	59	23.9
25	EWHP L 25	167	26	42	38.3	70	59	0.2
26	EWHP L 26	168	26	42	42.9	70	58	56.3
27	EWHP L 27	169	26	42	49.6	70	58	54.4
28	EWHP L 28	170	26	42	56.5	70	58	52.7
29	EWHP L 29	326	26	43	22.4	70	58	50.2
30	EWHP L 30	177	26	42	54.5	70	59	29.3
31	EWHP L 31	178	26	42	49.4	70	59	34.9
32	EWHP L 32	179	26	42	44.2	70	59	40.5
33	EWHP L 33	181	26	42	32.2	70	59	50.9
34	EWHP L 34	183	26	42	59	70	59	50.6
35	EWHP L 35	184	26	43	5.8	70	59	45.8
36	EWHP L 36	186	26	43	17.8	70	59	35.4
37	EWHP L 37	190	26	43	25.1	70	59	50.1
38	EWHP L 38	191	26	43	18.3	70	59	54.9
39	EWHP L 39	192	26	43	13.2	71	0	0.5
40	EWHP L 40	193	26	43	8	71	0	6.1
41	EWHP L 41	194	26	43	2.9	71	0	11.6
42	EWHP L 43	218	26	45	31.3	71	0	32
43	EWHP L 42	219	26	45	17.2	71	0	23.1
44	EWHP L 44	220	26	44	52.6	71	0	38.2
45	EWHP L 45	221	26	44	52.5	71	0	47.2
46	EWHP L 46	222	26	44	45.9	71	0	55.9
47	EWHP L 47	223	26	44	56.1	71	1	5.4
48	EWHP L 48	224	26	45	1.9	71	1	16.3
49	EWHP L 49	225	26	44	43.9	71	1	23
50	EWHP L 50	226	26	44	38.8	71	1	35.9
51	EWHP L 51	230	26	44	24.9	71	1	55.5
52	EWHP L 52	232	26	44	19.9	71	2	1.7
53	EWHP L 53	233	26	44	14.1	71	2	7.3
54	EWHP L 54	329	26	44	30.1	71	2	16
55	EWHP L 55	234	26	44	20.5	71	2	27.9
56	EWHP L 56	236	26	43	57.4	71	2	22.2
57	EWHP L 57	237	26	43	55.8	71	2	30.9



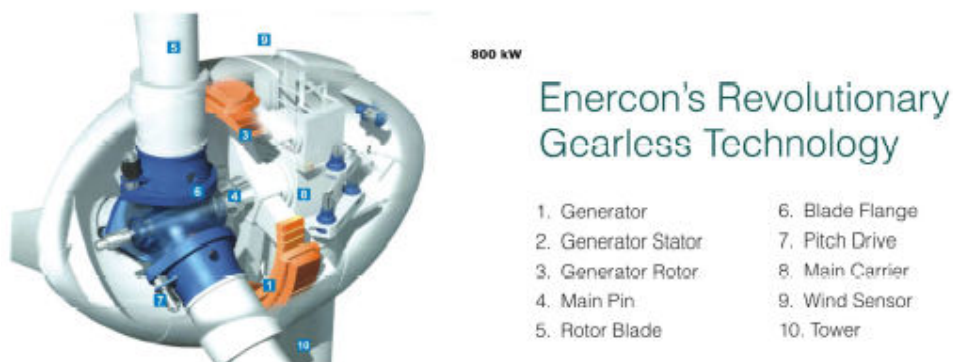
58	EWHP 58	238	26	43	56.9	71	2	39.7
59	EWHP 59	328	26	44	8.9	71	2	56.5
60	EWHP 60	241	26	43	58.7	71	2	59.9
61	EWHP 61	242	26	43	51.8	71	3	5.1
62	EWHP 62	245	26	44	30.5	71	3	32.5
63	EWHP 63	246	26	44	32.5	71	3	22.5
64	EWHP 64	249	26	45	9.4	71	3	14.1
65	EWHP 65	302	26	44	51.4	71	2	56.1
66	EWHP 66	250	26	44	58.1	71	2	52.3
67	EWHP 67	251	26	45	0.4	71	2	44.6
68	EWHP 68	252	26	45	0.8	71	2	32.4
69	EWHP 69	253	26	45	4.3	71	2	25.6
70	EWHP 70	254	26	45	14.2	71	2	15.9
71	EWHP 71	256	26	45	23.8	71	2	25.8
72	EWHP 72	257	26	45	39.3	71	2	47.5
73	EWHP 73	258	26	45	42.8	71	2	37.2
74	EWHP 74	259	26	45	46.6	71	2	26.5
75	EWHP 75	260	26	45	48.3	71	2	18.7

A.4. Technical description of the project

>>

The Project involves 75-wind energy converters (WECs) of Enercon make (800 kW E-48) with internal electrical lines connecting the Project with local evacuation facility. The WECs generates 3-phase power at 400V, which is stepped up to 33 KV. The Project can operate in the frequency range of 47.5–51.5 Hz and in the voltage range of 400 V \pm 12.5%. The other salient features of the state-of-art-technology are:

- Gearless Construction - Rotor & Generator Mounted on same shaft eliminating the Gearbox.
- Variable speed function – has the speed range of 18 to 33 RPM thereby ensuring optimum efficiency at all times.
- Variable Pitch functions ensuring maximum energy capture.
- Near Unity Power Factor at all times.
- Minimum drawl (less than 1% of kWh generated) of Reactive Power from the grid.
- No voltage peaks at any time.
- Operating range of the WEC with voltage fluctuation of -20 to +20%.
- Less Wear & Tear since the system eliminates mechanical brake, which are not needed due to low speed generator, which runs at maximum speed of 33 rpm and uses Air Brakes.
- Three Independent Braking System.
- Generator achieving rated output at only 33 rpm.
- Incorporates lightning protection system, which includes blades.
- Starts Generation of power at wind speed of 3 m/s.



Enercon (India) Ltd has secured and facilitated the technology transfer for wind based renewable energy generation from Enercon GmbH and has established a manufacturing plant at Daman in India where, along with other components the "Synchronous Generators" using "Vacuum Impregnation" technology are manufactured. The line diagram of wind farm including metering points and substations is attached as Appendix 1.

A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:

>>

Baseline Methodology: *Consolidated monitoring methodology for grid-connected electricity generation from renewable sources, ACM0002, Version 6.*

Monitoring Methodology: *Consolidated monitoring methodology for grid-connected electricity generation from renewable sources, ACM0002, Version 6*

A.6. Registration date of the project activity:

>>

15/03/2010

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

>>

The length of the Crediting period of the project activity as per registered PDD is 10 years (Fixed). As per the Registered PDD, the Crediting period Start Date is estimated 01/11/2007. However, since the Project was registered on 15th March 2010, the length of crediting period is from 15/03/2010 to 14/03/2020.

A.8. Name of responsible person(s)/entity(ies):

>>

Contact Information of project proponents are given in the table below:

Organization:	Enercon (India) Limited
Street/P.O.Box:	A-9, Veera Industrial Estate, Veera Desai Road, Andheri West
Building:	Enercon Tower
City:	Mumbai
State/Region:	Maharashtra
Postfix/ZIP:	400 053
Country:	India



Telephone:	+91-22-2671 7176
FAX:	+91 22 66921177
E-Mail:	yogesh.mehra@enerconindia.net
URL:	www.enerconindia.net
Represented by:	Yogesh Mehra
Title:	Managing Director
Salutation:	Mr.
Last Name:	Mehra
Middle Name:	
First Name:	Yogesh
Department:	Corporate
Mobile:	+91-9820040301
Direct FAX:	+91 22 66921177
Direct tel:	+91-22-6692 4848 extn. 7111
Personal E-Mail:	yogesh.mehra@enerconindia.net

SECTION B. Implementation of the project activity

B.1. Implementation status of the project activity

>>

The first machine under the project activity was commissioned on 26th November 2006 and last machine under the project activity was commissioned on 25th December 2006. The project activity consists of 75 machines (800 kW) of Enercon make E-48 totaling to a capacity of 60 MW. The commissioning date for all the machines included in the project activity is given in the table below.

S.No	EWHPL UNIQUE ID	Loc No	Commissioning date
1	EWHPL 01	322	20-Dec-06
2	EWHPL 02	323	20-Dec-06
3	EWHPL 03	145	20-Dec-06
4	EWHPL 04	146	20-Dec-06
5	EWHPL 05	147	20-Dec-06
6	EWHPL 06	148	20-Dec-06
7	EWHPL 07	150	20-Dec-06
8	EWHPL 08	151	20-Dec-06
9	EWHPL 09	152	20-Dec-06
10	EWHPL 10	153	20-Dec-06
11	EWHPL 11	154	20-Dec-06
12	EWHPL 12	155	20-Dec-06
13	EWHPL 13	156	20-Dec-06
14	EWHPL 14	157	20-Dec-06
15	EWHPL 15	307	21-Dec-06
16	EWHPL16	306	21-Dec-06



17	EWHPPL 17	300	20-Dec-06
18	EWHPPL 18	301	20-Dec-06
19	EWHPPL 19	304	21-Dec-06
20	EWHPPL 20	305	21-Dec-06
21	EWHPPL 21	161	20-Dec-06
22	EWHPPL 22	160	20-Dec-06
23	EWHPPL 23	159	20-Dec-06
24	EWHPPL 24	324	21-Dec-06
25	EWHPPL 25	167	20-Dec-06
26	EWHPPL 26	168	26-Nov-06
27	EWHPPL 27	169	26-Nov-06
28	EWHPPL 28	170	26-Nov-06
29	EWHPPL 29	326	21-Dec-06
30	EWHPPL 30	177	25-Dec-06
31	EWHPPL 31	178	25-Dec-06
32	EWHPPL 32	179	25-Dec-06
33	EWHPPL 33	181	25-Dec-06
34	EWHPPL 34	183	25-Dec-06
35	EWHPPL 35	184	25-Dec-06
36	EWHPPL 36	186	25-Dec-06
37	EWHPPL 37	190	25-Dec-06
38	EWHPPL 38	191	25-Dec-06
39	EWHPPL 39	192	25-Dec-06
40	EWHPPL 40	193	25-Dec-06
41	EWHPPL 41	194	25-Dec-06
42	EWHPPL 43	218	21-Dec-06
43	EWHPPL 42	219	21-Dec-06
44	EWHPPL 44	220	25-Dec-06
45	EWHPPL 45	221	25-Dec-06
46	EWHPPL 46	222	25-Dec-06
47	EWHPPL 47	223	21-Dec-06
48	EWHPPL 48	224	21-Dec-06
49	EWHPPL 49	225	21-Dec-06
50	EWHPPL 50	226	21-Dec-06
51	EWHPPL 51	230	21-Dec-06
52	EWHPPL 52	232	21-Dec-06
53	EWHPPL 53	233	21-Dec-06
54	EWHPPL 54	329	21-Dec-06



55	EWHP 55	234	21-Dec-06
56	EWHP 56	236	21-Dec-06
57	EWHP 57	237	21-Dec-06
58	EWHP 58	238	20-Dec-06
59	EWHP 59	328	20-Dec-06
60	EWHP 60	241	20-Dec-06
61	EWHP 61	242	20-Dec-06
62	EWHP 62	245	20-Dec-06
63	EWHP 63	246	26-Nov-06
64	EWHP 64	249	26-Nov-06
65	EWHP 65	302	21-Dec-06
66	EWHP 66	250	26-Nov-06
67	EWHP 67	251	21-Dec-06
68	EWHP 68	252	21-Dec-06
69	EWHP 69	253	21-Dec-06
70	EWHP 70	254	26-Nov-06
71	EWHP 71	256	26-Nov-06
72	EWHP 72	257	26-Nov-06
73	EWHP 73	258	26-Nov-06
74	EWHP 74	259	21-Dec-06
75	EWHP 75	260	21-Dec-06

Enercon operation and maintenance activities are ISO 9001:2008 certified and all the events are recorded in the log book available at the project site. Referring to the data available it can be inferred that there have not been any major special events for any of the machines that are included in the project activity. As a part of regular maintenance the machines are stopped for mechanical and electrical maintenance for 16 to 18 hours annually and for visual inspection for 6 to 7 hours quarterly.

B.2. Revision of the monitoring plan

>>

Not Applicable.

B.3. Request for deviation applied to this monitoring period

>>

Not Applicable

B.4. Notification or request of approval of changes

>>

Not Applicable

SECTION C. Description of the monitoring system

>>



Approved monitoring methodology ACM0002 / Version 06 Sectoral Scope: 1, “Consolidated monitoring methodology for zero-emissions grid-connected electricity generation from renewable sources”, by CDM - Meth Panel is proposed to be used to monitor the emission reductions.

This approved monitoring methodology requires monitoring of the following:

- Electricity generation from the project activity; and
- Operating margin emission factor and Build margin emission factor of the grid, where *ex post* determination of grid emission factor has been chosen

Since the baseline methodology is based on *ex ante* determination of the baseline, the monitoring of operating margin emission factor and build margin emission factor is not required.

The Project is operated and managed by Enercon (India) Ltd.
EG_y for the project activity is derived as follows:-

The project activity is located in Bhu and is connected to Amarsagar substation. In addition to the project activity, the wind farms located at Temdarai, Sodabandhan, Korwan, Asloi and other wind turbines at Bhu are also connected to the Amarsagar substation. Electricity delivered by all these wind farms are metered at a common metering point. The common metering point comprises of one main meter that is installed at 220 kV metering point at the Amarsagar substation and one backup meter installed at 220kV at Bhu substation. Consequently, the main meter reading reflects the aggregate electricity supplied by all these wind farms, including the project activity. The net electricity supplied by individual wind turbines is determined by following a process of allocating the total electricity recorded at the main meter to the individual turbines in proportion of the electricity generation recorded by the LCS meters at the individual wind turbines. The procedure for allocation is detailed below:

$E_{JMR,Export}$ = Electricity exported, as recorded by the main meter at the substation

$E_{JMR,Import}$ = Electricity imported, as recorded by the main meter at the substation

$E_{Controller,Export}$ = Electricity exported by a WEC, as measured at the controller

$\sum E_{Controller,Export}$ = Electricity exported by all the WECs connected to the main meter at the substation, measured at the controller of each WEC

$E_{WEC,Export}$ = Electricity exported by a WEC to the grid, calculated

$E_{WEC,Import}$ = Electricity imported by a WEC from the grid, calculated

Electricity exported by each WEC is apportioned on the basis of electricity exported recorded at the controller of each WEC and the electricity exported at the main meter and mentioned in the JMR. The export multiplication factor is calculated as follows-

$$\text{Export Multiplication factor} = \frac{E_{JMR,Export}}{\sum E_{Controller,Export}} \dots\dots\dots(1)$$

Thus the energy exported by a WEC to the grid is given by the equation-

$$E_{WEC,Export} = \text{Export Multiplication factor} \times E_{Controller,Export} \dots\dots\dots(2)$$

As the controller meter doesn't record import, the apportioning of energy imported by each WEC is also done on the basis of electricity exported recorded at the controller of each WEC and the electricity



imported at the main meter and mentioned in the JMR. The import multiplication factor is calculated as follows-

$$\text{Import Multiplication factor} = \frac{E_{\text{JMR, Import}}}{\sum E_{\text{Controller, Export}}} \dots\dots\dots(3)$$

Thus the energy imported by a WEC to the grid is given by the equation-

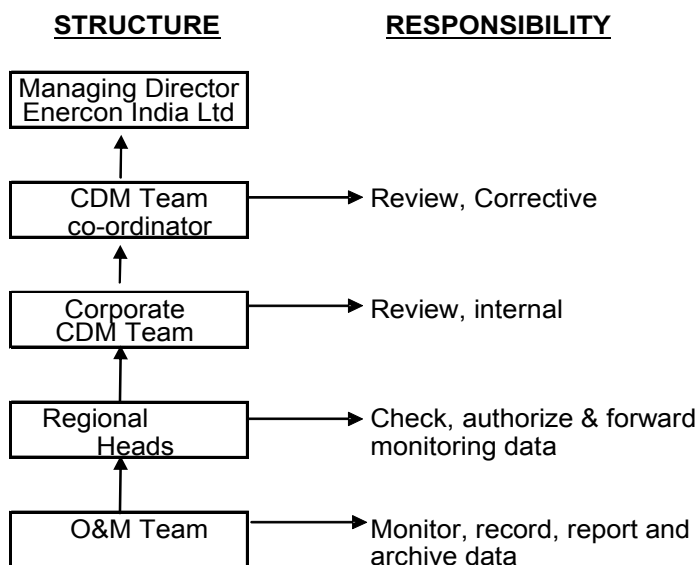
$$E_{\text{WEC, Import}} = \text{Import Multiplication factor} \times E_{\text{Controller, Export}} \dots\dots\dots(4)$$

The net electricity exported by the WECs of the project is given by the equation-

$$EG_y = \sum_{\text{Project}} E_{\text{WEC, Export}} - \sum_{\text{Project}} E_{\text{WEC, Import}} \dots\dots\dots(5)$$

In case the crediting period for the project is other than the 1st day of the month; the electricity supplied to the grid for the first month from the crediting start date up to last day of the month can be cross checked against the invoice by calculating the equivalent value for the same period. i.e.(Electricity supplied to the grid as mentioned in the invoice multiplied by the LCS meter reading from the crediting start date up to last day of the month divided by LCS meter reading for the full month).

Operational and Management structure implemented by Enercon:



**Training and maintenance:**

Training on the machine is an essential pre-requisite, to ensure necessary safety of man and machine. Further, in order to maximize the output from the Wind Energy Converters (WECs), it is extremely essential, that the engineers and technicians understand the machines and keep them in good health. In order to ensure, that Enercon's service staff is deft at handling technical snags on top of the turbine, the necessity of ensuring that they are capable of climbing the tower with absolute ease and comfort has been established. The Enercon Training Academy provides need-based training to meet the training requirements of Enercon projects. The training is contemporary, which results in imparting focused knowledge leading to value addition to the attitude and skills of all trainees. This ultimately leads to creativity in problem solving.

Calibration Details

The metering equipments were inspected & calibrated by state utility. Meter details for the all the main and backup meters are as follows:-

Meter Type	Meter Sr. number	Sub-station	Accuracy class	Make	Latest Calibration done	Calibration valid until
Main Meter	MPB03228	Amarsagar	0.2	Secure	30/03/2010	29/03/2011
Backup Meter	RJB 00050	BHU	0.2	Secure	30/03/2010	29/03/2011

The electricity generation is considered for the period of 15-March-2010 to 30-September-2010. It can be noticed from the above table that calibration for all the meters of the Project activity was conducted on 30-March-2010. Each calibration is valid for the period of one year. The calibrations of the meters that were calibrated on 30-March-2010 are valid until 29-March-2011. The monitoring period for the project activity is from 15/03/2010 to 30/09/2010. Hence, the calibration frequency for the monitoring period is in line with the calibration frequency mentioned in the registered PDD.

QA/QC Procedures

1. The main and the backup meters are calibrated once each year. The LCS meters does not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. LCS meter data will be archived from online monitoring station and data for main and backup meters at utility substation and Enercon substation shall be recorded in the form of JMR that is signed jointly by the representatives of Enercon and state utility. The data recorded is available at the project site office in hard and soft format and can be retrieved from hard or soft format. Therefore there is no data uncertainty. The line diagrams showing all relevant monitoring points are appendix 1.
2. In case the meter is found to operate outside the permissible limits, the meter will be either replaced immediately or calibrated.



3. Whenever a main meter goes defective, the consumption recorded by the backup meter will be referred. Whenever a Backup meter goes defective, the consumption recorded by the main meter will be referred.
4. If main as well as back up metering system becomes defective, the assessment of energy consumption for the outage period will be done from the backup meters by the concerned parties as mutually agreed or at the level of Metering Committee set up under the Metering Code.

SECTION D. Data and parameters

>>

D.1. Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors

Data / Parameter:	$EF_{OM,y}$		
Data unit:	tCO ₂ e/MWh		
Description:	Simple Operating Margin Emission Factor of Northern Regional Electricity Grid version 1.1 dated 21 st December 2006.		
Source of data used:	“CO ₂ Baseline Database for Indian Power Sector” published by the Central Electricity Authority, Ministry of Power, Government of India. The “CO ₂ Baseline Database for Indian Power Sector” is available at www.cea.nic.in		
Value(s) :	2002 – 03	0.9993	
	2003 – 04	0.9869	
	2004 – 05	0.9756	
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations		
Additional comment:	None		

Data / Parameter:	$EF_{BM,y}$		
Data unit:	tCO ₂ e/MWh		
Description:	Build Margin Emission Factor of Northern Regional Electricity Grid		
Source of data used:	“CO ₂ Baseline Database for Indian Power Sector” published by the Central Electricity Authority, Ministry of Power, Government of India. The “CO ₂ Baseline Database for Indian Power Sector” is available at www.cea.nic.in		
Value(s) :	0.5335		
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations		
Additional comment:	None		



Data / Parameter:	$EF_{CM,y}$
Data unit:	tCO ₂ e/MWh
Description:	Combined Margin Emission Factor of Northern Regional Electricity Grid version 1.1 dated 21 st December 2006.
Source of data used:	“CO ₂ Baseline Database for Indian Power Sector” published by the Central Electricity Authority, Ministry of Power, Government of India. The “CO ₂ Baseline Database for Indian Power Sector” is available at www.cea.nic.in
Value(s) :	0.8739
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Additional comment:	None

D.2. Data and parameters monitored	
Data / Parameter:	EG_y
Data unit:	MWh (Mega-Watt hour)
Description:	Net electricity supplied to the grid by the Project
Measured /Calculated /Default:	Calculated by applying apportioning procedure better described in section C.
Source of data:	Electricity supplied to the grid as per the tariff invoices raised on state utility (DISCOM).
Value(s) of monitored parameter:	58,442 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated as per formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: The apportioning is done as per the procedure described in section C.
Calculation method (if applicable):	$EG_y = \sum_{\text{Project}} E_{WEG, \text{Export}} - \sum_{\text{Project}} E_{WEG, \text{Import}}$ Refer section C for details and description of the above variables
QA/QC procedures applied:	QA/QC procedures will be as implemented by state utility (DISCOM) pursuant to the provisions of the power purchase agreement and the Metering Code of Rajasthan and there will be no additional QA/QC procedures. Refer Section C for an illustration of the provisions for QA/QC procedures.



Data / Parameter:	E_{MR,Export}
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported, as recorded by the main meter at the EB substation
Measured /Calculated /Default:	Measured: The Export reading is jointly noted from the main meter installed at the EB substation.
Source of data:	Export value from Joint meter reading taken at Substation in the presence of representatives of Enercon and state utility
Value(s) of monitored parameter:	Refer Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: MPB03228 Serial Number of Backup Meter: RJB00050 Frequency of Calibration- Annual Last date of Test- 30-Mar-2010 Validity of Test- 29-Mar-2011 (one year)
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.

Data / Parameter:	E_{MR,Import}
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity imported, as recorded by the main meter at the EB substation
Measured /Calculated /Default:	Measured : The import reading is jointly noted from the main meter installed at the EB substation.
Source of data:	Import value from Joint meter reading taken at Substation in the presence of representatives of Enercon and state utility
Value(s) of monitored parameter:	Refer Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Type- Trivector Meter Accuracy Class-0.2 Serial Number of Main Meter: MPB03228 Serial Number of Backup Meter: RJB00050



	Frequency of Calibration- Annual
	Last date of Test- 30-Mar-2010 Validity of Test- 29-Mar-2011 (one year)
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.

Data / Parameter:	EController.Export
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported by a WEG, as measured at the controller (LCS)
Measured /Calculated /Default:	Measured: The value is recorded continuously by the online monitoring station. This value can also be checked from the electronic panel installed inside the WTG tower.
Source of data:	This reading is monitored continuously by the online monitoring station at the project site. This reading can also be seen in the electronic panel installed inside the WTG tower.
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Meter Type: Refer Appendix 2 Accuracy Class: Refer Appendix 2 Serial Number: Refer Appendix 2 The LCS meters does not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. Therefore there is no data uncertainty.
Measuring/ Reading/ Recording frequency:	Monthly: The value is recorded continuously by the online monitoring station. This value can also be checked from the electronic panel installed inside the WTG tower.
Calculation method (if applicable):	NA
QA/QC procedures applied:	The LCS meters does not require calibration as the energy readings of electricity generated at the LCS meter is cross verified by the energy calculated by inverting system installed in the WEGs. In case there is any mismatch in the energy values recorded by the LCS meter and the energy values calculated by the inverting system; the machine will stop working and generate the error report. Therefore there is no data uncertainty.



Data / Parameter:	$E_{WEG,Export}$
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity exported by a WEG to the grid
Measured /Calculated /Default:	$E_{WEG,Export}$ denotes the electricity exported by a WEG to the grid. The value is calculated based on the formula mentioned in Section C
Source of data:	Calculated using formula mentioned in Section C
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Calculated using the formulas better described under section C.
Calculation method (if applicable):	$E_{WEG,Export} = \text{Export Multiplication factor} \times E_{Controller,Export}$ Refer to Section C for details and description of the above variables.
QA/QC procedures applied:	The value is calculated. Please refer Section C for QA/QC procedures.

Data / Parameter:	$E_{WEG,Import}$
Data unit:	MWh (Mega-Watt hour)
Description:	Electricity imported by a WEG from the grid
Measured /Calculated /Default:	$E_{WEG,Import}$ denotes the electricity imported by a WEG from the grid. The value is calculated based on the formula mentioned in section C.
Source of data:	Calculated using formula mentioned in Section C.
Value(s) of monitored parameter:	Refer to Appendix 3
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable):	$E_{WEG,Import} = \text{Import Multiplication factor} \times E_{Controller,Export}$ Refer to Section C for details and description of the above variables.
QA/QC procedures applied:	The value is calculated. Please refer Section C for QA/QC procedures.

Data / Parameter:	$\sum_{Project} E_{WEG,Export}$
Data unit:	MWh (Mega-Watt hour)



Description:	Summation of electricity exported to the grid by all the WEGs included in the project activity.
Measured /Calculated /Default:	$\sum_{\text{Project}} E_{\text{WEG,Export}}$ denotes summation of the electricity exported to the grid by a WEGs included in the project activity. The value is calculated based on the formula mentioned in section C.
Source of data:	Summation of data values of $E_{\text{WEG,Export}}$ for all the WEGs included in the project activity.
Value(s) of monitored parameter:	58562.751 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: Calculated using the formulas better described under section C.
Calculation method (if applicable):	$\sum_{\text{Project}} E_{\text{WEG,Export}}$ denotes summation of the electricity exported to the grid by a WEGs included in the project activity. Refer to Section C for details and description.
QA/QC procedures applied:	The value is calculated and can be cross checked from the invoices raised on the state utility.

Data / Parameter:	$\sum_{\text{Project}} E_{\text{WEG,Import}}$
Data unit:	MWh (Mega-Watt hour)
Description:	Summation of electricity imported from the grid by all the WEGs included in the project activity.
Measured /Calculated /Default:	$\sum_{\text{Project}} E_{\text{WEG,Import}}$ denotes the summation of electricity imported from the grid by a WEGs included in the project activity. The value is calculated based on the formula mentioned in section C
Source of data:	Summation of data values of $E_{\text{WEG,Import}}$ for all the WEGs included in the project activity.
Value(s) of monitored parameter:	119.944 MWh
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission Calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Calculated using the formulas better described under section C.
Measuring/ Reading/ Recording frequency:	Monthly: Calculated using the formulas better described under section C.



Calculation method (if applicable):	$\sum_{\text{Project}} E_{\text{WEG.Import}}$ denotes the summation of electricity imported from the grid by a WEGs included in the project activity. Refer to Section C for details and description.
QA/QC procedures applied:	The value is calculated and can be cross checked from the invoices raised on the state utility.

SECTION E. Emission reductions calculation

E.1. Baseline emissions calculation

>>

The baseline is the kWh produced by the renewable generating unit multiplied by an emission coefficient (measured in kg CO₂e/kWh) calculated in a transparent and conservative manner as the weighted average emissions (in kg CO₂e/kWh) as described in registered PDD.

$$BE_y = EG_y * EF_y$$

Where,

BE is baseline emissions in year y, tCO₂e

EG_y is the net electricity supplied to the grid in year y and is applied directly from JMR certified by state utility. This value can also be cross checked from the invoice.

EF_y is the CO₂ emission factor of the grid (873.87 tCO₂e/GWh fixed ex-ante). Refer Appendix 3 for detail.

EF_{OM,y} is the Simple-Operating Margin Emission Factor of Northern Regional Electricity Grid sourced from CEA Database Version 1.1 dated 21st December 2006 (0.98733 tCO₂e/MWh fixed ex-ante).

EF_{BM,y} is the Build Margin Emission Factor of Northern Regional Electricity Grid sourced from CEA Database Version 1.1 dated 21st December 2006 (0.5335 tCO₂e/MWh fixed ex-ante)

EF_{CM,y} is the Combined Emission Factor of Northern Regional Electricity Grid sourced from CEA Database Version 1.1 dated 21st December 2006 (0.8739 tCO₂e/MWh fixed ex-ante).

Emission reduction calculation for the period 15 March 2010 to 30 September 2010:

$$\begin{aligned} \text{Emission Reductions (ER)} &= 58,442 \text{ (MWh)} * 0.87387 \text{ (tCO}_2\text{e /MWh)} \\ &= \mathbf{51,071 \text{ tCO}_2\text{e}} \end{aligned}$$

E.2. Project emissions calculation

>>

Since the project activity is a renewable energy project which generates electricity using wind power therefore there are no resulting project emissions.

E.3. Leakage calculation

>>

No leakage is considered from the project activity as per approved methodology ACM0002.

E.4. Emission reductions calculation / table



>>

The total emission reductions achieved during the monitoring period is **51,071 tCO₂e**.

Total baseline emissions: **51,071 tCO₂e**

Total project emissions: Zero

Total leakage: Zero

Total Emission reductions, ER = BEy – Pey
= **51,071 tCO₂e**

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

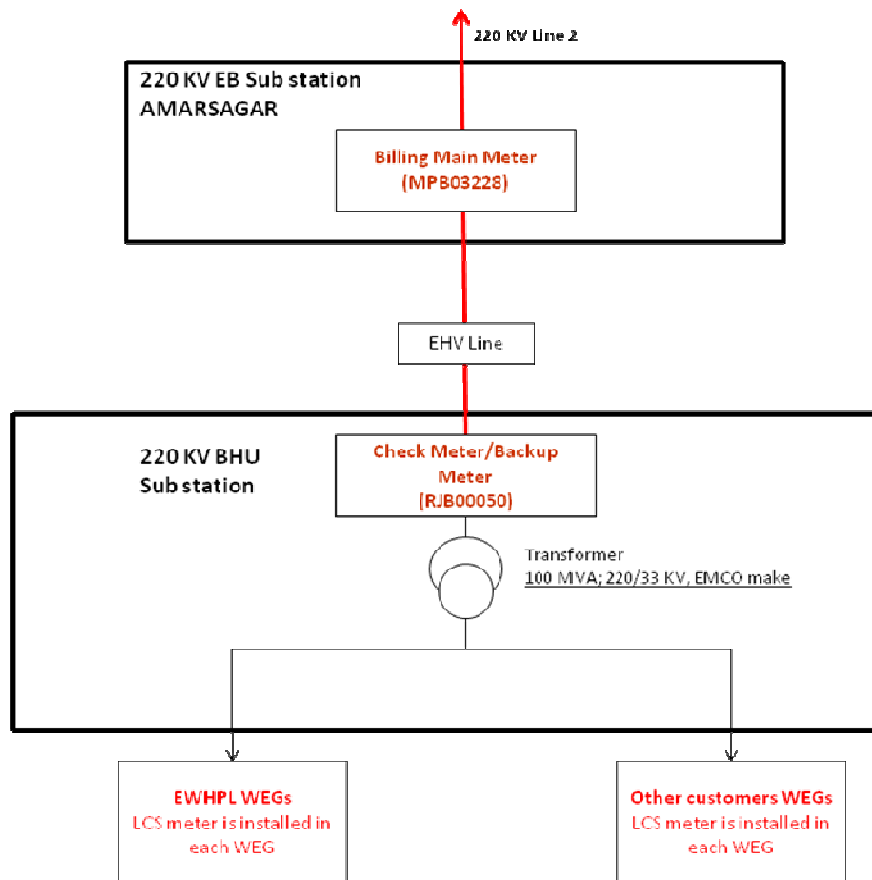
>>

Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO ₂ e)	54,733 (Six and a Half month equivalent of annually 101,047 emission reductions estimated in the registered PDD)	51,071

E.6. Remarks on difference from estimated value in the PDD

>>

There is change of 6.69% in the expected and annual emission reductions. The difference in the total CERs is due to low wind availability leading to low plant load factor.

**Appendix 1: Line Diagram Showing Relevant Metering Points**

**Appendix 2: Controller Meter Details**

Equipment Name	Meter Number	Equipment Name	Meter Number	Equipment Name	Meter Number	Equipment Name	Meter Number
EWHPLPD-01	475500	EWHPLPD-21	474937	EWHPLPD-41	475513	EWHPLPD-61	475070
EWHPLPD-02	475330	EWHPLPD-22	475682	EWHPLPD-42	475510	EWHPLPD-62	475651
EWHPLPD-03	475293	EWHPLPD-23	475735	EWHPLPD-43	475113	EWHPLPD-63	475091
EWHPLPD-04	475488	EWHPLPD-24	475358	EWHPLPD-44	475497	EWHPLPD-64	475621
EWHPLPD-05	475077	EWHPLPD-25	475024	EWHPLPD-45	475518	EWHPLPD-65	475517
EWHPLPD-06	475557	EWHPLPD-26	474943	EWHPLPD-46	475350	EWHPLPD-66	475100
EWHPLPD-07	1215614	EWHPLPD-27	474951	EWHPLPD-47	475485	EWHPLPD-67	475335
EWHPLPD-08	475490	EWHPLPD-28	466271	EWHPLPD-48	475061	EWHPLPD-68	475064
EWHPLPD-09	475512	EWHPLPD-29	475099	EWHPLPD-49	475114	EWHPLPD-69	475062
EWHPLPD-10	475703	EWHPLPD-30	475511	EWHPLPD-50	475059	EWHPLPD-70	475087
EWHPLPD-11	475725	EWHPLPD-31	475086	EWHPLPD-51	475290	EWHPLPD-71	475289
EWHPLPD-12	475548	EWHPLPD-32	475495	EWHPLPD-52	475329	EWHPLPD-72	475321
EWHPLPD-13	475483	EWHPLPD-33	475496	EWHPLPD-53	475502	EWHPLPD-73	475499
EWHPLPD-14	475498	EWHPLPD-34	475492	EWHPLPD-54	475076	EWHPLPD-74	475352
EWHPLPD-15	475075	EWHPLPD-35	475479	EWHPLPD-55	475296	EWHPLPD-75	475481
EWHPLPD-16	475550	EWHPLPD-36	475503	EWHPLPD-56	475332		
EWHPLPD-17	475292	EWHPLPD-37	475738	EWHPLPD-57	475347		
EWHPLPD-18	475112	EWHPLPD-38	475486	EWHPLPD-58	475326		
EWHPLPD-19	475356	EWHPLPD-39	466298	EWHPLPD-59	475501		
EWHPLPD-20	475102	EWHPLPD-40	466256	EWHPLPD-60	475593		

EWHPL 22	29243						
EWHPL 23	28623						
EWHPL 24	26687						
EWHPL 25	25870						
EWHPL 26	26988						
EWHPL 27	27029						
EWHPL 28	27782						
EWHPL 29	25786						
EWHPL 30	26117						
EWHPL 31	27567						
EWHPL 32	29582						
EWHPL 33	26952						
EWHPL 34	29333						
EWHPL 35	26727						
EWHPL 36	27761						
EWHPL 37	27162						
EWHPL 38	25626						
EWHPL 39	25409						
EWHPL 40	26891						
EWHPL 41	27529						
EWHPL 42	26441						
EWHPL 43	25960						
EWHPL 44	27127						
EWHPL 45	25794						



	EWHP 46	28007						
	EWHP 47	28366						
	EWHP 48	29645						
	EWHP 49	29463						
	EWHP 50	30165						
	EWHP 51	31392						
	EWHP 52	30425						
	EWHP 53	31816						
	EWHP 54	30432						
	EWHP 55	31745						
	EWHP 56	30280						
	EWHP 57	27894						
	EWHP 58	26326						
	EWHP 59	31970						
	EWHP 60	30776						
	EWHP 61	31301						
	EWHP 62	30164						
	EWHP 63	29823						
	EWHP 64	28382						
	EWHP 65	25427						
	EWHP 66	30329						
	EWHP 67	28781						
	EWHP 68	30441						
	EWHP 69	30343						



	EWHP 70	30271							
	EWHP 71	30697							
	EWHP 72	28618							
	EWHP 73	30364							
	EWHP 74	27552							
	EWHP 75	27118							
Apr-10	EWHP 01	129196	8544399	18238	8544398	18238	8544399	18238	8526161
	EWHP 02	123832							
	EWHP 03	127144							
	EWHP 04	131516							
	EWHP 05	124705							
	EWHP 06	123680							
	EWHP 07	119643							
	EWHP 08	121724							
	EWHP 09	117600							
	EWHP 10	121351							
	EWHP 11	119265							
	EWHP 12	113500							
	EWHP 13	111264							
	EWHP 14	113155							
	EWHP 15	115305							
	EWHP 16	113109							
	EWHP 17	116425							
	EWHP 18	114517							
	EWHP 19	111273							



EWHPL 20	110729							
EWHPL 21	108806							
EWHPL 22	112953							
EWHPL 23	109629							
EWHPL 24	112272							
EWHPL 25	106709							
EWHPL 26	113784							
EWHPL 27	108905							
EWHPL 28	107252							
EWHPL 29	102989							
EWHPL 30	109772							
EWHPL 31	114752							
EWHPL 32	116423							
EWHPL 33	111079							
EWHPL 34	111017							
EWHPL 35	110371							
EWHPL 36	112125							
EWHPL 37	109277							
EWHPL 38	104889							
EWHPL 39	99652							
EWHPL 40	105848							
EWHPL 41	109621							
EWHPL 42	111513							
EWHPL 43	121659							



	EWHPL 44	123817						
	EWHPL 45	116800						
	EWHPL 46	117215						
	EWHPL 47	115753						
	EWHPL 48	116158						
	EWHPL 49	124251						
	EWHPL 50	124806						
	EWHPL 51	125598						
	EWHPL 52	120805						
	EWHPL 53	126513						
	EWHPL 54	115461						
	EWHPL 55	117236						
	EWHPL 56	124036						
	EWHPL 57	122752						
	EWHPL 58	107032						
	EWHPL 59	119119						
	EWHPL 60	128283						
	EWHPL 61	126920						
	EWHPL 62	125003						
	EWHPL 63	126577						
	EWHPL 64	120711						
	EWHPL 65	112834						
	EWHPL 66	124028						
	EWHPL 67	121930						



	EWHP 68	123829							
	EWHP 69	124034							
	EWHP 70	120285							
	EWHP 71	115322							
	EWHP 72	120332							
	EWHP 73	118391							
	EWHP 74	116153							
	EWHP 75	115033							
May- 10	EWHP 01	206099	13780970	0	13780970	0	13780970	0	13780970
	EWHP 02	204604							
	EWHP 03	202275							
	EWHP 04	203642							
	EWHP 05	189135							
	EWHP 06	201284							
	EWHP 07	198083							
	EWHP 08	197093							
	EWHP 09	192987							
	EWHP 10	194332							
	EWHP 11	193911							
	EWHP 12	195844							
	EWHP 13	183127							
	EWHP 14	192103							
	EWHP 15	184170							
	EWHP16	196220							
	EWHP 17	189892							



	EWHPL 18	188940						
	EWHPL 19	184417						
	EWHPL 20	189739						
	EWHPL 21	184577						
	EWHPL 22	189077						
	EWHPL 23	183214						
	EWHPL 24	185287						
	EWHPL 25	182131						
	EWHPL 26	185816						
	EWHPL 27	184706						
	EWHPL 28	183759						
	EWHPL 29	186233						
	EWHPL 30	184192						
	EWHPL 31	186222						
	EWHPL 32	191577						
	EWHPL 33	185329						
	EWHPL 34	181169						
	EWHPL 35	185800						
	EWHPL 36	188239						
	EWHPL 37	183864						
	EWHPL 38	182516						
	EWHPL 39	176668						
	EWHPL 40	179033						
	EWHPL 41	184295						



	EWHP 42	199293						
	EWHP 43	195409						
	EWHP 44	191716						
	EWHP 45	191390						
	EWHP 46	189302						
	EWHP 47	186683						
	EWHP 48	184304						
	EWHP 49	102007						
	EWHP 50	188295						
	EWHP 51	197741						
	EWHP 52	193008						
	EWHP 53	194166						
	EWHP 54	191633						
	EWHP 55	197978						
	EWHP 56	191730						
	EWHP 57	193624						
	EWHP 58	169096						
	EWHP 59	187083						
	EWHP 60	192688						
	EWHP 61	196416						
	EWHP 62	195105						
	EWHP 63	196871						
	EWHP 64	194070						
	EWHP 65	189739						

CDM – Executive Board

EB 54
Report
Annex 34
Page 32

	EWHPL 66	196695							
	EWHPL 67	197954							
	EWHPL 68	193297							
	EWHPL 69	198025							
	EWHPL 70	193651							
	EWHPL 71	183313							
	EWHPL 72	179550							
	EWHPL 73	180872							
	EWHPL 74	178059							
	EWHPL 75	176577							
Jun-10	EWHPL 01	215453	15549894	12677	15549895	12677	15549894	12677	15537217
	EWHPL 02	217049							
	EWHPL 03	216652							
	EWHPL 04	220418							
	EWHPL 05	31057							
	EWHPL 06	218966							
	EWHPL 07	216481							
	EWHPL 08	215882							
	EWHPL 09	215012							
	EWHPL 10	99742							
	EWHPL 11	212801							
	EWHPL 12	212815							
	EWHPL 13	215982							
	EWHPL 14	216617							



	EWHPL 15	215152						
	EWHPL16	213083						
	EWHPL 17	219199						
	EWHPL 18	219490						
	EWHPL 19	216877						
	EWHPL 20	219696						
	EWHPL 21	219428						
	EWHPL 22	220258						
	EWHPL 23	218119						
	EWHPL 24	218967						
	EWHPL 25	216402						
	EWHPL 26	215145						
	EWHPL 27	215711						
	EWHPL 28	218513						
	EWHPL 29	221631						
	EWHPL 30	211158						
	EWHPL 31	216682						
	EWHPL 32	217052						
	EWHPL 33	212271						
	EWHPL 34	213439						
	EWHPL 35	215992						
	EWHPL 36	219461						
	EWHPL 37	217549						
	EWHPL 38	215286						
	EWHPL 39	214870						



EWHPL 40	216854							
EWHPL 41	218771							
EWHPL 42	214961							
EWHPL 43	217200							
EWHPL 44	215023							
EWHPL 45	216082							
EWHPL 46	215550							
EWHPL 47	214602							
EWHPL 48	217080							
EWHPL 49	217650							
EWHPL 50	213304							
EWHPL 51	217486							
EWHPL 52	220056							
EWHPL 53	219495							
EWHPL 54	217910							
EWHPL 55	212674							
EWHPL 56	219320							
EWHPL 57	220143							
EWHPL 58	210615							
EWHPL 59	219616							
EWHPL 60	215935							
EWHPL 61	221739							
EWHPL 62	209468							
EWHPL 63	220988							



	EWHP 64	221401							
	EWHP 65	206638							
	EWHP 66	215843							
	EWHP 67	221852							
	EWHP 68	219967							
	EWHP 69	221597							
	EWHP 70	219127							
	EWHP 71	206594							
	EWHP 72	212503							
	EWHP 73	215685							
	EWHP 74	217949							
	EWHP 75	210215							
Jul-10	EWHP 01	119529	8236521	31288	8236521	31288	8236521	31288	8205233
	EWHP 02	116051							
	EWHP 03	118354							
	EWHP 04	119893							
	EWHP 05	0							
	EWHP 06	116533							
	EWHP 07	114377							
	EWHP 08	113008							
	EWHP 09	114058							
	EWHP 10	0							
	EWHP 11	113742							
	EWHP 12	113096							



	EWHPL 13	113031						
	EWHPL 14	113407						
	EWHPL 15	112836						
	EWHPL16	110877						
	EWHPL 17	115162						
	EWHPL 18	112256						
	EWHPL 19	111708						
	EWHPL 20	113684						
	EWHPL 21	111632						
	EWHPL 22	114055						
	EWHPL 23	113496						
	EWHPL 24	113532						
	EWHPL 25	113551						
	EWHPL 26	112219						
	EWHPL 27	113750						
	EWHPL 28	110187						
	EWHPL 29	114249						
	EWHPL 30	113458						
	EWHPL 31	112731						
	EWHPL 32	114945						
	EWHPL 33	114433						
	EWHPL 34	113924						
	EWHPL 35	112535						
	EWHPL 36	107905						
	EWHPL 37	113415						



EWHPL 38	113798							
EWHPL 39	109481							
EWHPL 40	113217							
EWHPL 41	112955							
EWHPL 42	120931							
EWHPL 43	120711							
EWHPL 44	120342							
EWHPL 45	120351							
EWHPL 46	120148							
EWHPL 47	118810							
EWHPL 48	120127							
EWHPL 49	116943							
EWHPL 50	119718							
EWHPL 51	119462							
EWHPL 52	120817							
EWHPL 53	121280							
EWHPL 54	120002							
EWHPL 55	121103							
EWHPL 56	115355							
EWHPL 57	121159							
EWHPL 58	119415							
EWHPL 59	119099							
EWHPL 60	121167							
EWHPL 61	120792							

CDM – Executive Board

EB 54
Report
Annex 34
Page 38

	EWHPL 62	122391							
	EWHPL 63	121269							
	EWHPL 64	121607							
	EWHPL 65	114209							
	EWHPL 66	119423							
	EWHPL 67	120557							
	EWHPL 68	122056							
	EWHPL 69	120047							
	EWHPL 70	120360							
	EWHPL 71	120362							
	EWHPL 72	114773							
	EWHPL 73	113913							
	EWHPL 74	113884							
	EWHPL 75	114537							
Aug-10	EWHPL 01	87542	5646149	24384	5646149	24384	5646149	24384	5621765
	EWHPL 02	88077							
	EWHPL 03	84868							
	EWHPL 04	87604							
	EWHPL 05	0							
	EWHPL 06	82754							
	EWHPL 07	83541							
	EWHPL 08	85589							
	EWHPL 09	80741							
	EWHPL 10	0							



	EWHPL 11	79515						
	EWHPL 12	76402						
	EWHPL 13	75790						
	EWHPL 14	78654						
	EWHPL 15	78676						
	EWHPL16	74869						
	EWHPL 17	82553						
	EWHPL 18	73866						
	EWHPL 19	69696						
	EWHPL 20	72664						
	EWHPL 21	73150						
	EWHPL 22	75280						
	EWHPL 23	74905						
	EWHPL 24	77971						
	EWHPL 25	70501						
	EWHPL 26	76034						
	EWHPL 27	75532						
	EWHPL 28	74447						
	EWHPL 29	76166						
	EWHPL 30	74061						
	EWHPL 31	79301						
	EWHPL 32	82132						
	EWHPL 33	79872						
	EWHPL 34	74265						
	EWHPL 35	74128						



EWHPL 36	74336							
EWHPL 37	74012							
EWHPL 38	68746							
EWHPL 39	69956							
EWHPL 40	74709							
EWHPL 41	79512							
EWHPL 42	85178							
EWHPL 43	75825							
EWHPL 44	78478							
EWHPL 45	81276							
EWHPL 46	80581							
EWHPL 47	75041							
EWHPL 48	80734							
EWHPL 49	82922							
EWHPL 50	90206							
EWHPL 51	90166							
EWHPL 52	87745							
EWHPL 53	87710							
EWHPL 54	75237							
EWHPL 55	89285							
EWHPL 56	86780							
EWHPL 57	84529							
EWHPL 58	71397							
EWHPL 59	74247							



	EWHP 60	86200							
	EWHP 61	88770							
	EWHP 62	84285							
	EWHP 63	86750							
	EWHP 64	82939							
	EWHP 65	66420							
	EWHP 66	84121							
	EWHP 67	83564							
	EWHP 68	82219							
	EWHP 69	85510							
	EWHP 70	85912							
	EWHP 71	77045							
	EWHP 72	77748							
	EWHP 73	79350							
	EWHP 74	82132							
	EWHP 75	72745							
Sep-10	EWHP 01	60311	3568462	25129	3568462	25129	3568462	25129	3543333
	EWHP 02	55838							
	EWHP 03	59629							
	EWHP 04	61903							
	EWHP 05	0							
	EWHP 06	54898							
	EWHP 07	58028							
	EWHP 08	57976							



	EWHP 09	53608						
	EWHP 10	0						
	EWHP 11	52677						
	EWHP 12	53253						
	EWHP 13	50650						
	EWHP 14	49265						
	EWHP 15	47304						
	EWHP16	44848						
	EWHP 17	47902						
	EWHP 18	45480						
	EWHP 19	43210						
	EWHP 20	47196						
	EWHP 21	44385						
	EWHP 22	49110						
	EWHP 23	47465						
	EWHP 24	49299						
	EWHP 25	43538						
	EWHP 26	44616						
	EWHP 27	44677						
	EWHP 28	44226						
	EWHP 29	47367						
	EWHP 30	47479						
	EWHP 31	51194						
	EWHP 32	54172						
	EWHP 33	50079						



EWHPL 34	48761							
EWHPL 35	46829							
EWHPL 36	51632							
EWHPL 37	44540							
EWHPL 38	45012							
EWHPL 39	46482							
EWHPL 40	47913							
EWHPL 41	49516							
EWHPL 42	52283							
EWHPL 43	47269							
EWHPL 44	49153							
EWHPL 45	51578							
EWHPL 46	50293							
EWHPL 47	47908							
EWHPL 48	49809							
EWHPL 49	52079							
EWHPL 50	53372							
EWHPL 51	56753							
EWHPL 52	53486							
EWHPL 53	55377							
EWHPL 54	49278							
EWHPL 55	58397							
EWHPL 56	54559							
EWHPL 57	54135							

	EWHPL 58	54979						
	EWHPL 59	53562						
	EWHPL 60	58168						
	EWHPL 61	58822						
	EWHPL 62	55147						
	EWHPL 63	56875						
	EWHPL 64	53940						
	EWHPL 65	47191						
	EWHPL 66	55628						
	EWHPL 67	56688						
	EWHPL 68	54328						
	EWHPL 69	55472						
	EWHPL 70	47955						
	EWHPL 71	49690						
	EWHPL 72	54306						
	EWHPL 73	53361						
	EWHPL 74	52731						
	EWHPL 75	51603						