

MONITORING REPORT NO. 3

FOR PERIOD **01.10.2012-31.12.2012**

MOCKIAI WIND POWER

JOINT IMPLEMENTATION PROJECT UNFCCC No. LT2000031

PREPARED BY:

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1. GENERAL INFORMATION

| Project name: | Mockiai Wind Power Joint Implementation Project | | |
|--------------------|--|--|--|
| Project location: | Mockiai village, Silute district, Klaipeda county at the western part of | | |
| | Lithuania. | | |
| | Baltic Sela Failetts Roll Fail | | |
| Project owner: | UAB Iverneta | | |
| J | Reg. adr. Didžioji str. 25, | | |
| | LT-01128 Vilnius, Lithuania | | |
| | Address for correspondence: | | |
| | Šv. Ignoto str. 1, LT-01120 Vilnius, Lithuania | | |
| Carbon credit | Stichting Carbon Finance (SCF), Netherlands. | | |
| purchaser: | Emission Reduction Purchase Agreement (ERPA) as of 31 August 2010. | | |
| Project | The project involves 12 MW wind farm at Mockiai (consisting of 6 | | |
| description: | Enercon E82 2000 kW wind turbines). | | |
| | GHG emission reduction is achieved via displacement of carbon intensive | | |
| | electricity produced from fossil fuel sources in the Lithuanian power | | |
| | network. | | |
| | Crediting period for emission reductions: | | |
| | 01 January 2010 – 31 December 2012. | | |
| | The Mockiai wind farm was connected to the grid on June 2010 because | | |
| | of construction work delay caused by contractor and wind turbines | | |
| Operation during | supplier Enercon GmbH. During the whole monitoring period Mockiai wind farms operated | | |
| monitoring period: | without major technical interruptions. | | |
| momtoring period. | without major technical interruptions. | | |

2. IMPLEMENTATION OF THE JI PROJECT

| LoE issuance by host country DFP | 8 May, 2007 |
|--------------------------------------|--------------------|
| LoA issuance by investor country DFP | 7 March, 2011 |
| LoA issuance by host country DFP | 10 September, 2010 |
| Determination report issuance by AIE | 30 May, 2011 |

Notes: DFP – designated focal point, LoE – Letter of Endorsement, LoA – Letter of Approval, AIE – accredited independent entity, PDD – Project design document, UNFCCC – United Nations Framework Convention on Climate Change.

3. MONITORING METHODOLOGY

| - · · | | | |
|-----------------|--|--|--|
| Description: | Monitoring is based on the procedures defined in the docume | | |
| | "Monitoring Plan of Mockiai Wind Power Joint Implementation Project. | | |
| | Version 1.0 June 20, 2011". The amount of net electricity supply to the grid from the II project is | | |
| | The amount of net electricity supply to the grid from the JI project is | | |
| | defined as the key activity to monitor. | | |
| Grid connection | The Mockiai wind farm is connected to the Main Grid (35 kV) via one | | |
| and measuring | coupling point to the Distribution Grid (DGO), operated by Lesto AB. | | |
| meters: | | | |
| | Monitoring is based only on metering of electricity delivered to the | | |
| | Distribution Grid at the 35 kV side of the 20/35 kV transformer at the | | |
| | commercial measurement point. The commercial measuring point is | | |
| | equiped with two (main and duplicating) power meters. Additional power | | |
| | meters are installed at the 20 kVside of the transformer at the grid | | |
| | connection point. The power meters are periodically tested and calibrated. | | |
| | | | |
| | The contractual party of purchase of power generated by UAB Iverneta is | | |
| | also AB Lesto who issues monthly electricity production reports to UAB | | |
| | Iverneta which forms the basis for electricity sales invoices. | | |
| | Net power production is calculated as a difference between actual power production and active power consumption. | | |
| | production and active power consumption. | | |
| | In case of failure of both commercial measuring meters, electricity | | |
| | production data can be retrieved also from separate power meters installed | | |
| | at the 20 kV side of the transformer at the grid connection point and the | | |
| | SCADA system of Enercon. | | |
| | SCADA system of Effection. | | |
| | Calibration of measuring meters is processed according to Lithuanian | | |
| | legislation and standards, and the DGO, owner of the meter is responsible | | |
| | for the calibration and maintenance. According to the national legislation | | |
| | the calibration of the meters is required every 8 years. | | |
| | the canoration of the meters is required every 8 years. | | |
| | No meters have been changed and all meters functioned properly during | | |
| | the monitoring period and can therefore be properly used as basis for the | | |
| | calculation of achieved emission reductions. | | |
| | calculation of achieved chinssion reductions. | | |
| | | | |

4. ACHIEVED EMISSION REDUCTIONS

In accordance with the Monitoring Plan the formula for calculation of achieved emission reductions is the following:

$$ERy(tCO2e) = EGy(MWh) \times EFy(tCO2/MWh)$$

Emission reductions have been calculated in accordance with the Monitoring Plan as follows:

| | <u>2012*</u> |
|--|--------------|
| Project constants | |
| Emission factor EFy, tCO2/MWh | 0,654 |
| | |
| Actual data | |
| Net power generation EGy, kWh, Mockiai | 9 835 141 |
| | |
| Annual Emission reduction, tCO2, Mockiai | 6 432,18 |
| | |
| Total annual emission reduction, tCO2e | 6 432 |

^{*} Data from 01.10.2012 to 31.12.2012

Mockiai Wind Power JI Project generated **6 432 tCO2e** of emission reductions during the monitoring period 01 10 2012- 31 12 2012.

5. ANNEXES

| 1 | Annual production report of Mockiai wind farm 2012 |
|---|--|
| 2 | Monitoring protocol 2010-2012 |
| 3 | Internal staff training records |
| 4 | Wind speed data |

Tadas Navickas Managing Director UAB Iverneta

Annex 1. Annual production report of Mockiai wind farm, 2012

| | Actual power production (kWh)* Active power consumption (kWh)* | | Net power production (kWh) | |
|------------|---|-------|----------------------------|--|
| January | - | - | - | |
| February | - | - | - | |
| March | - | • | • | |
| April | - | - | - | |
| May | - | - | - | |
| June | - | - | - | |
| July | - | - | - | |
| August | - | • | - | |
| September | - | • | - | |
| October | 2 828 334 | 714 | 2 827 620 | |
| November | 3 128 560 | 682 | 3 127 878 | |
| December | 3 884 018 | 4.375 | 3 879 643 | |
| Total 2012 | 9 840 912 | 5 771 | 9 835 141 | |

^{*} Data according to DNO Lesto AB power meter.

Annex 2. Monitoring Protocol 2010-2012

| | 2010 | <u>2011</u> | <u>2012*</u> | 2012** |
|--|------------|-------------|--------------|-----------|
| Project constants | | | | |
| Emission factor EFy, tCO2/MWh | 0,654 | 0,654 | 0,654 | 0,654 |
| | | | | |
| Actual data | | | | |
| Net power generation EGy, kWh | 10 666 503 | 39 433 220 | 25 626 685 | 9 835 141 |
| | | | | |
| Annual Emission reduction, tCO2 | 6975,893 | 25789,326 | 16 759,852 | 6 432,18 |
| | | | | |
| Total emission reduction, tCO2e | 6976 | 25 789 | 16 760 | 6 432 |
| Cumulative emission reduction of the JI project, tCO2e | 6976 | 32 765 | 49 525 | 55 957 |

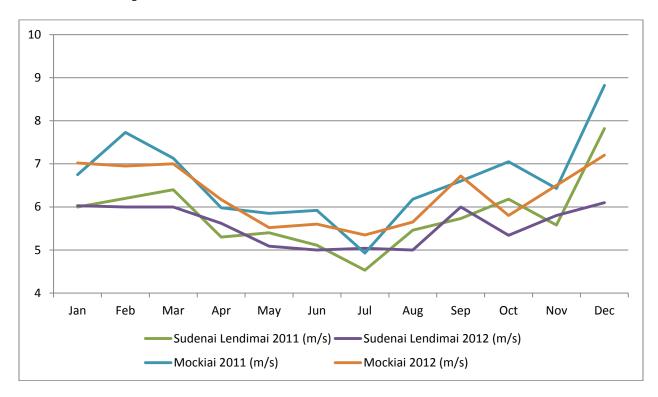
^{*} Data from 01.01.2012 to 30.09.2012

^{**} Data from 01.10.2012 to 31.12.2012

Annex 3. Internal staff trainings during the monitoring period

| Date | Training by | Participants | Topic |
|-----------|---------------------|---------------------|---|
| July 2010 | Hannu Lamp, | Tadas Navickas, | Preparation of improved Monitoring |
| | 4energia JI | 4energia UAB | Plan on basis of monitoring procedure |
| | consultant | Managing Director | as defined in project PDD and on |
| | | Julius Mikalauskas, | basis of FARs as stated in verification |
| | | 4energia UAB | report of BV. |
| | | Project Manager | |
| January | Julius Mikalauskas, | Ieva Vaisvilas, | Introduction to requirements related to |
| 2011 | Project Manager | 4energia UAB | monitoring and verification for JI |
| | | Project Assistant | project. |
| | | | Produced electric power accounting |
| | | | and control. |
| February | Hannu Lamp, | Ieva Vaisvilas, | Preparation of Monitoring Report for |
| 2011 | 4energia JI | 4energia UAB | 2010. |
| | Consultant | Project Assistant | |
| December | Hannu Lamp, | Vaida Timinskaite, | Introduction to requirements related to |
| 2011 | 4energia JI | 4energia UAB | monitoring and verification for JI |
| | consultant | Project Assistant | project. Basis of monitoring procedure |
| | | | as defined in project PDD. Preparation |
| | | | of Monitoring Report for 2011. |
| September | Vaida Timinskaite, | Indre Budiene | Introduction to requirements related to |
| 2012 | Project assistant | 4energia UAB | monitoring and verification for JI |
| | | Administrator | project. |
| | | | Preparation of Monitoring Report for |
| | | | 2012. |

Annex 4. Wind speed data



^{*} Data from other wind park (Sudenai Lendimai) WIND TURBINE SCADA. Mockiai data from Mockiai WIND TURBINE SCADA.