

## Monitoring report, version 01

**Project Name:** Power Generation (20MW) by utilizing Coke Oven Gas of China Coal and Coke Jiuxin Limited in Lingshi, Shanxi, P. R. China

**UNFCCC Reference Number:** 1390

**Monitoring Period:** From Feb. 17 to Aug. 24, 2008 (The first monitoring period)

### Table of Contents:

General Information .....	2
Purpose of a Monitoring Report.....	2
Project Description.....	2
Monitoring Protocol .....	2
Monitored Parameters .....	3
Data Collection Process QA/QC .....	3
Emission Reduction Calculations.....	4

## **General Information**

### **Purpose of a Monitoring Report**

In order to achieve real, measurable and verifiable emission reduction, it is crucial that all data necessary for the calculation of emission reductions are properly measured, recorded and reported, in line with the approved methodology used and the monitoring plan contained in the registered PDD.

### **Project Description**

The project is located in Lingshi county of Jinzhong city which is in the middle area of Shanxi province of China. It utilizes the excess coke oven gas of China Coal and Coke Jiuxin Limited for power generation. The total installed capacity of the project is 20MW, and the electricity generated by this project replace the equivalent quantity of electricity from the North China Power Grid which is coal dominated. The generated electric power is used to fulfill the in-house requirement of Jiuxin Coke Plant.

### **Monitoring Protocol**

In line with the approved methodology used and the monitoring plan contained in the registered PDD, the following parameters have to be monitored:

<b>Data / Parameter:</b>	EG <sub>Gen,y</sub>
Data unit:	MWh
Description:	Total electricity generated by the project activity during the year y
Source of data to be used:	Electricity meters
Description of measurement methods and procedures to be applied:	The electricity will be monitored continuously and the daily and monthly records in a paper format will be archived in the power generation station. Model of the electricity meters is DSSD666 (manufactured by Zhejiang Zhengtai Instrument and Device Co., Ltd.) with accuracy class of 0.5S.
QA/QC procedures to be applied:	Monitoring instrument will be subject to a regular maintenance and calibration by qualified entities in accordance with national regulations and standards.
Any comment:	Low uncertainty

<b>Data / Parameter:</b>	EG <sub>Aux,y</sub>
Data unit:	MWh
Description:	The auxiliary electricity consumed by the project activity
Source of data to be used:	Electricity meters
Description of	The electricity will be monitored continuously and the daily and

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measurement methods and procedures to be applied:	monthly records in a paper format will be archived in the power generation station. Model of the electricity meters is DSSD666 (manufactured by Zhejiang Zhengtai Instrument and Device Co., Ltd.) with accuracy class of 0.5S.
QA/QC procedures to be applied:	Monitoring instrument will be subject to a regular maintenance and calibration by qualified entities in accordance with national regulations and standards.
Any comment:	Low uncertainty

<b>Data / Parameter:</b>	$EG_{y,y}$
Data unit:	MWh
Description:	Net quantity of electricity supplied by the project activity during the year y
Source of data to be used:	By calculation , $EG_y = EG_{Gen,y} - EG_{Aux,y}$
Description of measurement methods and procedures to be applied:	$EG_y$ will be calculated by the measured amount of electricity generated by the project activity ( $EG_{Gen,y}$ ) and the measured amount of auxiliary electricity consumed by the project activity ( $EG_{Aux,y}$ )
QA/QC procedures to be applied:	This data is calculated from $EG_{Gen,y}$ and $EG_{Aux,y}$ , therefore the QA/QC procedure applied to $EG_{Gen,y}$ and $EG_{Aux,y}$ also could be applied to $EG_y$ .
Any comment:	Low uncertainty

### Monitored Parameters

	$EG_{Gen,y}(\text{kWh})$	$EG_{Aux,y}(\text{kWh})$	$EG_y$
February 17- February 24	1,801,680	162,151	1,639,529
February 25- March 24	6,096,336	336,816	5,759,520
March 25- April 24	6,151,584	351,408	5,800,176
April 25- May 24	5,524,848	315,216	5,209,632
May 25- June 24	5,826,000	304,992	5,521,008
June 25-July 24	5,372,352	270,882	5,101,470
July 25-August 24	6,106,320	258,576	5,847,744
<b>Sum</b>	<b>36,879,120</b>	<b>2,000,041</b>	<b>34,879,079</b>

### Data Collection Process QA/QC

- Include a sketch of the meter location

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- Who has done what during the monitoring period, in line with the approved methodology and the monitoring plan contained in the registered PDD:

During the monitoring period, the work of related people in China Coal and Coke Jiuxin Limited are as follow:

- The total electricity generated by the project activity is monitored and recorded continuously by the electricity meters installed in the Central Transformer Substation, and the data is collected and recorded daily by the head of the power distribution workshop.
  - The auxiliary electricity consumed by the project activity is monitored and recorded continuously by the electricity meter installed in the central Transformer Substation, and the data is collected and recorded daily by the head of the power distribution workshop.
  - The record keeper is responsible for record keeping and preservation.
- All data will be kept at least until two years after the issuance of the last credits.

### **Emission Reduction Calculations**

Formula from the methodology:

There are no project emissions and leakage emissions in the project activity so the emission reductions are equivalent to the baseline emissions.

$$BE_{electricity,y} = EG_y \times EF_y$$

$$ER_{electricity,y} = BE_{electricity,y}$$

The CO<sub>2</sub> baseline emission factor of the North China Power Grid, that is, EF<sub>y</sub> is 0.9826tCO<sub>2</sub>e/y as calculated in the PDD.

	Baseline Emissions (tCO <sub>2</sub> e)	Project Emissions (tCO <sub>2</sub> e)	Leakage (tCO <sub>2</sub> e)	Emission Reductions (tCO <sub>2</sub> e)
February 17- February 24	1,611.001	0	0	1,611.001
February 25- March 24	5,659.304	0	0	5,659.304
March 25- April 24	5,699.253	0	0	5,699.253
April 25- May 24	5,118.984	0	0	5,118.984
May 25- June 24	5,424.942	0	0	5,424.942
June 25-July 24	5,012.704	0	0	5,012.704
July 25-August 24	5,745.993	0	0	5,745.993
<b>Sum</b>	<b>34,272.183</b>	<b>0</b>	<b>0</b>	<b>34,272.183</b>

The total emission reduction in the monitoring period is 34,272.183 tCO<sub>2</sub>e.

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