



JI DETERMINATION REPORT FORM

(version 02)

(to be completed by an AIE requesting the publication of a determination pursuant to paragraph 33 of the JI guidelines)

Accredited independent entity (AIE) submitting form Bureau Veritas Certification Holding SAS

Proposed JI activity

Reference number and title of proposed JI activity Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant"

Host Party(ies) Ukraine

Parties involved in the JI activity Ukraine
The Netherlands

Coordinating entity (applicable to JI PoA only) N/A

Project participants "ZaporozhCox Plant" (Ukraine)
Global Carbon BV (Netherlands)

Type of JI activity: **large scale** **small scale** **LULUCF** **PoA**

Brief description of the JI activity

The project proposes to make use of excess coke oven gas (COG) to generate electricity by two new steam turbine generators, replacing power currently being sourced from the national grid. This will be introduced in parallel with improved automated process control systems that will increase the efficiency of the use of the power, further still reducing that required from the national grid.

The anthropogenic emissions of greenhouse gases will be reduced by replacing electricity generated by Ukrainian power plants with less carbon intensive power, generated from the two turbines, described above, using excess temperature and pressure from the steam produced and associated energy efficiency measures.

Determination report

Please confirm that all requirements of Article 6 of the Kyoto Protocol, the JI guidelines and further relevant requirements defined by the CMP or the JISC with regard to determinations pursuant to paragraph 33 of the JI guidelines are met:

- Yes**
 No

General information on determination

Please describe:

- The scope of the determination process, including all documentation that has been reviewed and list the names of persons interviewed during the determination process, as applicable;
- The AIE's determination team, including a list of all persons involved in the determination process and a description of the functions assumed.

Global Carbon BV submitted the Project Design Document (PDD) and additional background documents to be checked by an Accredited Independent Entity. Among the reviewed documents there are:

- PDD"Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant" version 0.92 of 20/11/2009 with supporting documentation;
- PDD"Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant" version 1.1.1. of 24/12/2009;
- PDD"Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant" version 2.0 of 03/03/2010;
- PDD"Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant" version 3.0 of 12/03/2010;
- Letter of Endorsement for the JI project "Implementation of energy efficiency measures" at the OJSC "Zaporozhkoks" #912/23/7 dated 12.08.2009;

- Letter of Approval ref No 567/23/7 dated 17.05.2010 issued by the National Environmental Investment Agency of Ukraine;
- Letter of Approval ref No 2010JI01 issued on 25 February 2010 by the Netherlands NFP;
- Guidelines for Users of the Joint Implementation Project Design Document Form/Version 04, JISC;
- JISC Guidance on criteria for baseline setting and monitoring. Version 02;
- Tool for the demonstration and assessment of additionality, Version 05.2;
- Glossary of Joint Implementation Terms, Version02;
- Permit for construction works performance #206 issued by OJSC "Zaporozhkoks" dated 14.04.2008;
- Consolidated complex conclusion "206|201a SOE "Central Service of Ukrainian investment expertise" concerning the project "Reconstruction of the complex of coke batteries #1-бис". OJSC "Zaporizhkoks" dated 29.11.2006;
- OJSC "ZAPOROZHOKS". Reconstruction of coke-oven batteries №1-бис. Project. I phase. Environmental impact assessment. Correction. Inv. #111348, 2006;
- OJSC "ZAPOROZHOKS". Reconstruction of coke-oven batteries №1-бис. Project. I phase. Environmental impact assessment. Correction. Inv. #111349, 2006;
- OJSC "ZAPOROZHOKS". Reconstruction of coke-oven batteries №1-бис. Project. I phase. Environmental impact assessment. Correction. Inv. #111350, 2006;
- Minutes of ZaporozhCox Plant Technical Council of 14.01.2005;
- background documents related to the project design and baseline, as well as other reference documents as presented in the Determination Report (licenses, implementation status, personnel competence, operational procedures, equipment, stakeholders' opinion)

On 25/11/2009 Bureau Veritas Certification performed interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Among the interviewed persons there were:

- Valery Rubchevsky - First Deputy General Director on Production, Chief Engineer, ZaporozhCox Plant;
- Vladimir Sharagin, Chief Power Engineer, ZaporozhCox Plant;
- Andrej Boyko, Deputy Chief Power Engineer, ZaporozhCox Plant;
- Dmitry Morozov, Chief of Investment Department, ZaporozhCox Plant;
- Sergey Novik, Deputy Chief Engineer on Ecology, Chief of the Environment Protection Laboratory, ZaporozhCox Plant;
- Maksim Yakovlev, Deputy Chief of the Boiler and Turbine Shop, ZaporozhCox Plant;
- Oleg Morgulin, Chief of the Industry and Infrastructure Development Department, Regional State Administration;
- Denis Rzhanov, Global Carbon BV Senior Consultant.

Determination team:

- Ivan Sokolov - Team Leader, Lead Verifier
- Oleg Skoblyk - Team Member, Verifier
- Denis Pishchalov - Team Member, Financial Specialist
- Leonid Yaskin - Internal Technical Reviewer

Description of determination process

Please briefly describe and refer to:

- The review of the JI PDD/PoA DD and additional documentation attached to it;
- The assessment against JI requirements, e.g. by using a determination protocol;
- The report of findings by the AIE, including the use of different types of findings (e.g. corrective action requests, clarifications or observations etc.).

Statements or assessments should be included in section "Conclusions, final comments and determination opinion".

The overall determination, from Contract Review to Determination Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a determination protocol was customized for the project, according to the Determination and Verification Manual (IETA/PCF). The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from determining the identified criteria. The determination protocol serves the following purposes:

- It organizes, details and clarifies the requirements a JI project is expected to meet;
- It ensures a transparent determination process where the determinator will document how a particular requirement has been determined and the result of the determination.

The completed determination protocol is enclosed in Appendix A to the Determination Report.

The determination findings for each determination subject are presented as follows:

- 1) The findings from the desk review of the original project design documents and the findings from interviews during the follow up visit are summarized. A more detailed record of these findings can be found in the Determination Protocol in Appendix A of the Determination Report.

2) Where Bureau Veritas Certification had identified issues that needed clarification or that represented a risk to the fulfillment of the project objectives, a Clarification or Corrective Action Request, respectively, have been issued. The Clarification and Corrective Action Requests are stated in the Determination Protocol in Appendix A of the Determination Report.

Comments received from Parties, stakeholders and UNFCCC accredited observers

Please:

- Summarise the comments received pursuant to paragraph 32 of the JI guidelines; and
- Provide a report of how due account was taken of these.

There are no comments from stakeholders.

Conclusions, final comments and determination opinion

Please provide:

- Conclusions describing how each of the requirements of Article 6 of the Kyoto Protocol and the JI guidelines and further relevant requirements defined by the CMP or the JISC, in particular those referred to in paragraph 33 of the JI guidelines, have been met, including assessments and findings (e.g. corrective action requests, clarifications or observations) related to each requirement, and statements on whether all issues raised have been addressed to the AIE's satisfaction;
- Final comments and a determination opinion.

Bureau Veritas Certification has performed a determination of the "Utilization of coke gas with electricity generation by two 6 MWe CHP at "ZaporozhCox Plant" Project in Ukraine. The determination was performed on the basis of UNFCCC criteria for JI projects, in particular the verification procedures under the JI Supervisory Committee, as well as host country criteria and the criteria given to provide for consistent project operations, monitoring and reporting.

The determination consisted of the following three phases: i) a desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) the resolution of outstanding issues and the issuance of the final determination report and opinion.

The review of the project design documentation, the subsequent follow-up interviews, and the resolution of the Corrective Action Requests have provided Bureau Veritas Certification with the sufficient evidences to determine the fulfillment of the above stated criteria.

The investment analysis and common practice analysis demonstrate that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that it is implemented and maintained as designed, the project is likely to achieve the estimated amount of emission reductions.

List of documents attached to the determination report form

Please attach relevant documents used in the determination process and check mark below accordingly

- PDD/PoA DD of the proposed JI activity
- Determination report
- Written approvals by the Parties involved, listed in the JI PDD/PoA DD
- Other relevant documents:
 - Determination protocol
 - List of persons interviewed
 - Any other documents (please list): financial indicators calculations

The AIE herewith declares that undertaking the determination for the proposed JI activity referred to above does not constitute a conflict of interest which is incompatible with the role of an AIE

Authorized officer signing for the AIE

Ivan Sokolov

Date and signature

08.06.2010