



# 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** 0198. Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power Plant.

**Host Party(ies)** Ukraine

**Parties involved in the JI activity** The Netherlands

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

**Project participants** Skhidenergo Ltd. (Ukraine)  
Global Carbon BV (The Netherlands)

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

**Brief description of the JI activity**

The proposed project is aimed at increasing the fuel efficiency, reliability, and availability of all four coal fired units at Zuyevska TPP, which belong to the DTEK holding company. The TPP has four identical conventional condensing steam turbine units of 300 MW each. They were commissioned in 1982, 1986, and 1988, and as such, the TPP can be considered as one of the newest coal fired TPPs connected to the grid.

Implementation of the proposed project activity allows for producing power with higher efficiency, thus reducing the amount of combustion of fossil fuels (mainly coal) significantly below the level of what would happen in the absence of the proposed project. It directly results in reduction of GHG emission as well as emission of pollutants (dust, SO<sub>x</sub>)

### 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:

- PPD "Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power Plant", Revision 1.1, 31/08/2009, subsequent revisions: version 2.0 dated 3/10/2009, version 2.1 dated 23/10/2009, version 2.3.1 dated 29/12/2009, version 2.4 dated 09/02/2010, version 2.5 dated 10/02/2010, version 2.6 dated 02/03/2010, version 2.7 dated 30/08/2010.
- PPD "Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power Plant", Revision 2.8 dated 15/12/2010.
- Guidelines for Users of the Joint Implementation Project Design Document Form/Version 03, JISC.
- Joint Implementation Project Design Document Form - Version 01
- Glossary of JI terms/Version 01, JISC.
- Guidance on criteria for baseline setting and monitoring. Version 02 JISC.
- "Combined tool to identify the baseline scenario and demonstrate additionality" (Version 02.2)

- A Letter of Endorsement of National Environmental Investment Agency # 1036/23/7 dated 3rd of September 2009
- A Letter of Approval for Joint Implementation Project "Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power Plant" No.1231/23/7 dated 19/08/2010 issued by National Environmental Investment Agency of Ukraine
- A Letter of Approval for Joint Implementation Project "Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power Plant" No.2009JI22 dated 07/01/2010 issued by the Ministry of Economic Affairs, the Netherlands
- Background documents related to the project design and baseline, as well as other reference documents as presented in the Determination Report (licenses, implementation status, EIA documents, personnel competence, operational procedures, equipment, stakeholders' opinion)

On 01/10/2009 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:

- Roman Serdyukov – Director
- Victor Mashtalap – Deputy Director
- Michail Pantyushenko – Deputy Director
- Valeriy Khomyakov – HR Manager
- Alexandr Udodov – Chief of fueling department
- Nikolai Tetelman – Chief of industrial safety department
- Lidiya Kornienko – Lead specialist of PTO department
- Andrey Klimenko – Chief of OSPR
- Valentyna Zozulya – Chief of ecology department
- Anna Ilyash – Chief of OJSC "Shidenergo" ecology department
- Vladimir Yakovlev – Chief of fuel and transport department
- Igor Snegin – Chief of electric department
- Alexandr Zakharov – Chief of heat automation and measurings department
- Irina Fesenko – Chief of production-chemical laboratory
- Vladimir Goncharov – Head of Zugres City
- Alexey Doumik - Senior JI Consultant

Determination team:

- Ivan Sokolov - Team Leader, Lead Verifier
- Oleg Skoblyk - Team Member, Verifier
- Kateryna Zinevych - 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 «Reconstruction of Units 1, 2, 3 and 4 at Zuyevska Thermal Power 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): emission reduction calculations, 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

23.12.2010