
DETERMINATION REPORT

Determination of the Joint Implementation small-scale project

“Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)”

Report No. 01 998 9105067116 - DR
Revision No. 02.2

Customer: Carbon Futures LLP

TÜV Rheinland Group/TÜV Rheinland Ukraine
 Determination Report – “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)”

DETERMINATION REPORT

<u>Date of first issue:</u> 15/12/2011	<u>Project No.:</u> 01 998 9105067116
<u>Executor:</u> TÜV Rheinland Group	<u>Organizational unit:</u> Ltd. TÜV Rheinland Ukraine
<u>Customer:</u> Carbon Futures LLP	<u>Client ref.:</u> Artem Ruban

Summary:

TÜV Rheinland Group/TÜV Rheinland Ukraine has performed a determination of the SSC project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)” in Ukraine. The determination was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The determination serves as project design objective and complete assessment, and is a requirement of all projects. It consists of the following three phases: i) a desk review of the project design documents including analysis of the baseline justification and monitoring plan; ii) follow-up interviews with project stakeholders including on site visit; iii) the resolution of outstanding issues and the issuance of the final determination report and opinion. The overall determination, from Contract Review to Determination Report & Opinion, was conducted using TÜV Rheinland Group/TÜV Rheinland Ukraine internal procedures.

To address TÜV Rheinland Group/TÜV Rheinland Ukraine corrective action and clarification requests Carbon Futures LLP revised the PDD and resubmitted it on 20/12/2011 as version 02 and 20/03/2012 as version 03.2.

The determination findings presented in this report relate to the SSC project as described in the PDD version 03.2.

In summary, it is TÜV Rheinland’s Group/TÜV Rheinland’s Ukraine opinion that the project complies with the criteria for baseline setting and monitoring methodology according to developed specific approach, and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

<u>Report No.:</u> 01 998 9105067116 – DR	<u>Subject Group:</u> SSC JI
<u>Project title:</u> “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)”	
<u>Work carried out by:</u> Dr. Valery Yakubovsky – Team leader Mr. Volodymyr Gordiichuk – Technical Expert Ms. Iryna Nikolaieva – Trainee	
<u>Work verified by:</u> Dr. Lixin Li – Technical Reviewer	
<u>Determination Report approved by:</u> Dr. Manfred Brinkmann	
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Abbreviations

CO ₂	Carbon Dioxide
CH ₄	Methane
N ₂ O	Nitrogen Oxide
AIE	Accredited Independent Entity
BE	Baseline Emission
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CFLs	Compact florescent lamps
CL	Clarification Request
DR	Document Review
EIA	Environmental Impact Assessment
ERU	Emission Reduction Unit
FAR	Forward Action Request
GHG	Greenhouse Gas
I	Interview
ICLs	Incandescent lamps
JI	Joint Implementation
JISC	Joint Implementation Supervisory Committee
LED	Light-emitting diode
LoA	Letter of Approval
LoE	Letter of Endorsement
MoV	Means of Verification
MP	Monitoring Plan
OSV	On Site Visit
PDD	Project Design Document
PE	Project Emissions
SD	Supporting documentation
SSC	Small-scale
STHS	Stakeholder Survey
t	tonne
UNFCCC	United Nations Framework Convention on Climate Change

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ANNEX A: JI SSC PROJECT DETERMINATION PROTOCOL

1 DETERMINATION OPINION

The audit team of TÜV Rheinland Group/TÜV Rheinland Ukraine has performed a determination of the SSC project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)” in Ukraine. The determination was performed on the basis of UNFCCC criteria and host country criteria and also on 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 document (PDD) including analysis of the baseline justification and monitoring plan;
- ii) follow-up interviews with project stakeholders including on site visit;
- iii) the resolution of outstanding issues and the issuance of the final determination report and opinion.

Project participants used the JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04 for setting the baseline. The PDD provides a description of the chosen baseline in a clear and transparent manner, as well as a justification in accordance with Paragraph 23 through 29 of the “Guidance on Criteria for Baseline Setting and Monitoring”, version 03.

Project participants used the JI specific approach for demonstration of the additionality. According to the paragraph 44 (a) of the Annex I to the “Guidance on criteria for baseline setting and monitoring”, version 03 the PDD provides analysis of investment, technological and other barriers to determine that the project activity itself is not the baseline scenario.

By synthetic description of the project, the project is likely to result in reductions of GHGs emissions. An analysis of the investment and technological barriers demonstrates 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 the project is implemented and maintained as designed, the project is likely to achieve the estimated amount of emission reductions.

The review of the project design documentation, version 03.2 and the subsequent interviews have provided TÜV Rheinland Group/TÜV Rheinland Ukraine with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the project correctly applies and meets the relevant UNFCCC requirements for the JI and the relevant host country criteria.

The determination is based on the information made available and the engagement conditions detailed in this report.

2 INTRODUCTION

Carbon Futures LLP has commissioned TÜV Rheinland Group/TÜV Rheinland Ukraine to determine its JI SSC project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)” (hereafter called “the SSC project”) at Slovyansk town, Donetsk Region.

This report summarizes the determination findings of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent SSC project operations, monitoring and reporting.

2.1 Objective

The determination serves as project design objective and complete assessment and is a requirement of all projects. The determination is an independent third party assessment of the project design. In particular, the project's baseline, the monitoring plan (MP), and the project's compliance with relevant UNFCCC and host country criteria are determined in order to confirm that the project design, as documented, is sound and

reasonable, and meets the stated requirements and identified criteria. Determination is a requirement for all JI projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of emission reduction units (ERUs).

UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JISC, as well as the host country criteria.

2.2 Scope

The determination scope is defined as an independent and objective review of the project design document, the project’s baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

The determination is not meant to provide any consulting towards the Client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

2.3 JI SSC Project Description

The proposed project aims to replace traditional incandescent lamps (ICLs) with up-to-date compact florescent lamps (CFLs) in budget and social facilities of Slovyansk Town, i.e. schools, kindergartens, hospitals, health centers, etc. Please see the detailed list in Annex 4 of the PDD, version 03.2.

Despite CFLs proved their energy efficiency, ICLs had been used for lighting in budget and social facilities of Slovyansk town before the project started. The reason for ICLs usage was insufficient funding, the established practice, and other issues related to unauthorized removal of CFLs, etc.

Further operation of 100 to 150 W ICLs (light flux is about 1,350 Lm and 2,180 Lm respectively) is considered as the baseline scenario. Electric power required for ICL functioning is supplied from the Ukrainian power grid.

The project stipulates replacement of 100 W and 150 W ICLs with 20 W and 32 W CFLs which are energy saving lamps compared to ICLs, since they consume four-five times less power with similar lighting. CFLs are to be installed instead of the 100 W and 150 W ICLs and will provide the minimum light flux of 1,350 Lm and 2,180 Lm respectively. Service life of CFLs proposed for replacement under the project reaches 8,000 hours, i.e. 8 times higher than the service life of typical ICLs. CFLs are fully compatible with standard ICL holders, as well as provide white and soft lighting. The project covers replacement of 100 to 150 W ICLs.

If within the project lifecycle light-emitting diode (LED) lamps become more affordable from the economic standpoint, they will be used instead of ICLs, since they consume about ten times less power than ICLs, while providing the same lighting level.

The total variable number of ICLs made up:

- 6,473 pieces, 100 W;
- 293 pieces, 150 W.

GHGs emission reduction in project scenario is reached by reduction of electricity consuming from Ukrainian power grid. In case of reduction of electricity consuming from Ukrainian power grid the need of combusting of fossil fuels on Ukrainian power stations decreases. Therefore level of direct GHGs emissions on the power stations is decreased.

Since 07/02/2011 all CFLs have been installed, and their operation is being monitored according to the monitoring plan.

3 METHODOLOGY

The determination consisted of the following three phases:

- I) a desk review of the project design documents including analysis of the baseline justification and monitoring plan;
- II) follow-up interviews with project stakeholders including on site visit;
- III) the resolution of outstanding issues and the issuance of the final determination report and opinion.

The following sections outline each step in more detail.

3.1 Desk Review of the Project Design Documentation

The PDD submitted by Carbon Futures LLP and additional background documents related to the project design to be checked by an Accredited Independent Entity were reviewed.

The list of submitted documentation is provided below.

To address TÜV Rheinland Group/TÜV Rheinland Ukraine corrective action and clarification requests Carbon Futures LLP revised the PDD and resubmitted it on 20/12/2011 as version 02 and 20/03/2012 as version 03.2.

The determination findings presented in this report relate to the SSC project as described in the PDD version 03.2.

The following tables outlines the documentation reviewed during the determination:

Category 1 Documents:

Documents provided by Carbon Futures LLP that relate directly to the components of the JI SSC project.

- /1/ PDD “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)”, version 01 dated 15/03/2011;
- /2/ PDD “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social

- entities in the Slovyansk town (under Track 2)”, version 03.2 dated 20/03/2012;
- /3/ Estimates of the project GHGs emissions in Excel format;
 - /4/ “Guidelines for users of the Joint implementation project design document form for SSC projects and the form for submission of bundled joint implementation SSC projects”, version 04;
 - /5/ “Guidance on Criteria for Baseline Setting and Monitoring”, version 03, JISC;
 - /6/ AMS-II.J methodology “Demand-side activities for efficient lighting technologies”, version 04;
 - /7/ “Provisions for Joint implementation SSC projects”, version 03, JISC;
 - /8/ Kyoto Protocol to the United Nations Framework Convention On Climate Change;
 - /9/ Marrakech Accords, JI Modalities;
 - /10/ JI guidelines. Annex II to decision 9/CMP.1;
 - /11/ “Joint implementation determination and verification manual”, version 01, JISC;
 - /12/ “Glossary of JI terms”, version 03, JISC.
 - /13/ Letter of Endorsement for the project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town” #1907/23/6 dated 16/11/2010;
 - /14/ Letter of Approval for JI project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town” #3102/23/6 dated 25/10/2011.
 - /15/ Declaration of Approval issued by “NL Agency” Ministry of Economic Affairs, Agriculture and Innovations, reference #2011JI54 on 17/01/2012.
 - /16/ Modalities of communication dated 17/01/2012.

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

- /1/ Operation hours' log in nursery school #20, Slovyansk town;
- /2/ Account of working hours nursery school #20 (February) , Slovyansk town;
- /3/ Transfer and Acceptance Act of energy-efficient lamps (130 lamps) nursery school #20, Slovyansk town;
- /4/ Transfer and Acceptance Act of energy-efficient lamps (130 lamps) nursery school #20 dated 14/03/2011, Slovyansk town;
- /5/ Photo 1 nursery school #20, Slovyansk town;
- /6/ Photo 2 nursery school #20, Slovyansk town;
- /7/ Photo 3 nursery school #20, Slovyansk town;
- /8/ Photo 4 nursery school #20, Slovyansk town;
- /9/ Photo 5 nursery school #20, Slovyansk town;
- /10/ The Town Mayor Order #15, dated 01/02/2011 “The appointment of the person responsible for the operation of energy saving lamps”, (City Children Hospital), Slovyansk town;
- /11/ Transfer and Acceptance Act of incandescent lamps dated 14/03/2011, (City Children Hospital), Slovyansk town;
- /12/ Transfer and Acceptance Act of energy- saving lamps dated 03/02/2011, (City Children Hospital) Slovyansk town;
- /13/ Operation hours' and replacement log for Philips energy saving lamps, (City Children Hospital) Slovyansk town;
- /14/ Photo 1 City Children Hospital, Slovyansk town;
- /15/ Transfer and Acceptance Act of energy-efficient lamps dated 14/03/2011 Town Council, Slovyansk town;
- /16/ The Town Mayor Order dated 31/01/2011 #48-r “On a working group to monitor the organization works to replace lamps, recycling and further monitoring of lamps and

- approval of (Town Council) Slovyansk town”;
- /17/ Regulation the Working Group to monitor the organization works to replace lamps, recycling and further monitoring of the lamps and approval of (Town Council) Slovyansk town;
- /18/ The composition of the working group to monitor the organization works to replace bulbs, recycling and further monitoring of the lamps and approval of Condition (Town Council) Slovyansk town;
- /19/ Order of Town Mayor #169-r dated 28/04/2011 “On amendments to the order of the mayor #48r number of 31/01/2011” (Town Council) Slovyansk town;
- /20/ The act of recycling light lamps dated 14/03/2011 (Town Council), Slovyansk town;
- /21/ Operation hours’ and replacement log for Philips energy-saving lamps, (school #15) Slovyansk town;
- /22/ Operation hours’ log (February 2011), (school #15) Slovyansk town;
- /23/ Transfer and Acceptance Act of energy-efficient lamps, (school #15), Slovyansk town;
- /24/ Transfer and Acceptance Act of energy-efficient lamps dated 14/03/2011, (school #15), Slovyansk town;
- /25/ Transfer and Acceptance Act of energy-efficient lamps dated 04/02/2011, (school #15), Slovyansk town;
- /26/ Photo 1 , (school #15), Slovyansk town;
- /27/ Order of Town Mayor #118 dated 10/09/2010 “On the state of energy” , (town council), Slovyansk town;
- /28/ Example of Operation hours’ log for Philips energy saving lamps;
- /29/ Protocol of internal check of the facility for compliance with requirements of the project “Implementation of Energy-Efficient Lighting System in Donetsk Region with the Use of Kyoto Protocol Mechanism” dated 14/04/2011, City Hospital #1, Slovyansk town;
- /30/ Protocol of internal check of the facility for compliance with requirements of the project “Implementation of Energy-Efficient Lighting System in Donetsk Region with the Use of Kyoto Protocol Mechanism” dated 14/04/2011,

Nursery school #1, Slovyansk town;

- /31/ Monitoring survey for the period 07/02/2011 – 13/07/2011 in Excel format;
- /32/ Monitoring survey for the period 14/02/2011 – 20/07/2011 in Excel format;
- /33/ Monitoring survey for the period 21/02/2011 – 27/07/2011 in Excel format;
- /34/ Monitoring survey for the period 28/02/2011 in Excel format;
- /35/ Estimates of the average value of parameter “Daily operating hours of the group “i” devices” for the period 07/02/2011 – 28/02/2011 in Excel format.

3.2 Interviews with project stakeholders

TÜV Rheinland Group/TÜV Rheinland Ukraine performed interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of Slovyansk Town Council, Innovation Center “Ecosystem” and Agency for Rational Use and Ecology (ARENA-ECO) were interviewed and their names are indicated in Table 1. The main topics of the interviews are summarized in Table 2.

Table 1 Persons interviewed

	Name	Organization	Title
/1/	Sivash Dmitry V.	Slovyansk Town Council	Deputy mayor, head of the working group
/2/	Grechko Olesya L.	Slovyansk Town Council	Chief specialist of the economy, the secretary of the Working Group
/3/	Rublevskiy Igor M.	Slovyansk Town Council	Chief Specialist of Education Department
/4/	Belukha Valentina F.	Slovyansk Town Council	Engineer KP Center of medical

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 ones at budget financed and social entities in the Sloviansk town (under Track 2)”

	Name	Organization	Title
			statistics
/5/	Pokidko Oleg A.	ARENA-ECO	Project developer
/6/	Zasevskyy Vladislav P.	Innovation Center “Ecosystem”	Technical Director
/7/	Danilkin Dmitry V.	Innovation Center “Ecosystem”	Project manager
/8/	Helyuh Natalia O.	School #15	Director
/9/	Savchenko Irina L.	School #15	Deputy director
/10/	Kondratenko Natalya P.	Nursery School #20	Logistics manager
/11/	Vuskevych Ludmila A.	City Children Hospital	Logistics manager
/12/	Bulavina Tatiana V.	City Children Hospital	Linen keeper

Table 2 Interview topics

	Date	Interviewed organization	Interview topics
/1/	09/12/2011	Sloviansk Town Council	<ul style="list-style-type: none"> ➤ Project design ➤ Project related legal issues ➤ Technical equipment ➤ Sustainable development issues ➤ Stakeholder comments ➤ Approval by the host country ➤ Environmental impacts
/2/	09/12/2011	ARENA-ECO	<ul style="list-style-type: none"> ➤ Project design ➤ Additionality

			<ul style="list-style-type: none"> ➤ Crediting period ➤ Monitoring plan ➤ Environmental impacts
/3/	09/12/2011	Innovation Center “Ecosystem”	<ul style="list-style-type: none"> ➤ Project design ➤ Project related legal issues ➤ Technical equipment ➤ Monitoring plan ➤ Training history ➤ Environmental impacts ➤ Stakeholder comments
/4/	09/12/2011	School #15	<ul style="list-style-type: none"> ➤ Project design ➤ Monitoring plan ➤ Environmental impacts
/5/	09/12/2011	Nursery School #20	<ul style="list-style-type: none"> ➤ Project design ➤ Monitoring plan ➤ Environmental impacts
/6/	09/12/2011	City Children Hospital	<ul style="list-style-type: none"> ➤ Project design ➤ Monitoring plan ➤ Environmental impacts

3.3 Resolution of Clarification and Corrective Action Requests

The overall determination, from Contract Review to Determination Report & Opinion, was conducted using TÜV Rheinland Group/TÜV Rheinland Ukraine internal procedures.

The objective of this phase of the determination is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for TÜV Rheinland Group/TÜV Rheinland Ukraine conclusion formation on the project design.

In order to ensure transparency, a determination protocol (Annex A of the Determination report) was customized for the project, according to the Annex “Joint Implementation Determination and Verification Manual”, version 01. 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:

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

The determination protocol consists of three tables. The different columns in these tables are described in Figure 1.

To guarantee the transparency of the determination process, the concerns raised are documented in more detail in the determination protocol (Annex A of the Determination report).

The PDD, version 03.2 dated 20/03/2012, has been submitted to the audit team for final determination, which is revised based on the first version of the determination report and the issued corrective action requests and clarification requests. The major changes include: starting dates of project activity & crediting period amended; baseline scenario, project scenario and project history included; alternative scenarios and key factors considered; a detailed description of monitoring plan indicated; the details on the process of informing stakeholders provided.

Determination Protocol Table 1: Mandatory Requirements			
Requirement	Reference	Conclusion	Cross reference
The requirements the project must meet.	Gives reference to the legislation or agreement where the requirement is found.	This is either acceptable based on evidence provided (OK), a Corrective Action Request (CAR) , a Clarification Request (CL) or a Forward Action Request (FAR) of risk or non-compliance with stated requirements. The CAR's, CL's and FAR's are numbered and presented to the client in the Determination Report.	Used to refer to the relevant protocol questions in Tables 2, to show how the specific requirement is determined. This is to ensure a transparent determination process.

Determination Protocol Table 2: Requirements checklist

Checklist Question	Reference	Means of verification (MoV)	Comment	Draft and/or Final Conclusion
<p>The various requirements in Table 1 are linked to checklist questions the project should meet. The checklist is organized in several sections. Each section is then further subdivided. The lowest level constitutes a checklist question.</p>	<p>Gives reference to documents where the answer to the checklist question or item is found.</p>	<p>Explains how conformance with the checklist question is investigated. Examples of means of verification are document review (DR) or interview (I). N/A means not applicable.</p>	<p>The section is used to elaborate and discuss the checklist question and/or the conformance to the question. It is further used to explain the conclusions reached.</p>	<p>This is either acceptable based on evidence provided (OK), or a Corrective Action Request (CAR) due to non-compliance with the checklist question. (See below). Clarification Request (CL) is used when the determination team has identified a need for further clarification. Forward action request (FAR) informs the project participants of an issue that needs to be reviewed during the verification.</p>

Determination Protocol Table 3: Resolution of Corrective Action and Clarification Requests			
Report clarifications and corrective action requests	Ref. to checklist question tables 2/3	Summary of project owner response	Determination conclusion
If the conclusions from the Determination are either a Corrective Action Request, a Clarification Request or a Forward action request, these should be listed in this section.	Reference to the checklist question number in Tables 2 where the Corrective Action Request, Clarification Request or a Forward action request is explained.	The responses given by the Client or other project participants during the communications with the determination team should be summarized in this section.	This section should summarize the determination team’s responses and final conclusions. The conclusions should also be included in Tables 2, under “Final Conclusion”.

Figure 1 Determination protocol tables

3.4 Internal Technical Review

The determination report including the determination findings underwent a technical review before requesting registration of the project activity. The technical review was performed by an internal technical reviewer qualified in accordance with TÜV Rheinland Group/TÜV Rheinland Ukraine qualification scheme for JI project determination and verification.

3.4 Determination team

The determination team consists of the following personnel:

Dr. Valery Yakubovsky - Team Leader
 Mr. Volodymyr Gordiichuk - Technical Expert
 Ms. Iryna Nikolaieva - Trainee
 Dr. Lixin Li – Technical Reviewer

4 DETERMINATION FINDINGS

In the following subsections the determination findings are stated as follows:

- 1) the findings from the desk review of the original project design documents and the findings from interviews during the follow up on site visit are summarized. A more detailed record of these findings can be found in the Determination Protocol (Annex A of the Determination report);
- 2) in case TÜV Rheinland Group/TÜV Rheinland Ukraine 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, where applicable, in the following subsections and are further documented in the Determination Protocol (Annex A of the Determination report). The determination of the Project resulted in 27 Corrective Action Requests and 19 Clarification Requests.
- 3) the conclusions for determination subject are presented in each subsection.

4.1 Project Design

The SSC project is expected to be in line with host-country specific JI requirements. The project activity is aimed at reducing GHGs emissions by reduction of electricity consuming from Ukrainian power grid. In case of reduction of electricity consuming from Ukrainian power grid the need of combusting of fossil fuels on Ukrainian power stations decreases. Therefore level of direct GHGs emissions on the power stations is decreased.

TÜV Rheinland Group/TÜV Rheinland Ukraine recognizes that this SSC project helps the country in which it is implemented to achieve sustainable development. The project meets the JI specific requirements of the host country.

The Project scenario is considered additional in comparison to the baseline scenario, and therefore eligible to receive Emissions Reductions Units (ERUs) under the JI SSC project. Analysis of additionality is based on investment, technological

and other barriers, on prevailing practice and presented by the PDD.

The project design is sound and the geographical (Slovyansk town, Donetsk region) boundaries of the SSC project are clearly defined. The project boundary is the physical, geographical location of each measure (each CFL) installed (the full list of facilities where CFLs were installed is provided in Annex 4 to the PDD, version 03.2).

Identified problem areas for project design, project participants' answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 1, CAR 2, CAR 4 – CAR 6, CAR 18).

4.2 SSC project type(s) and category(ies)

According to paragraphs 7 and 8 of “Provisions for JI SSC Projects”, version 03, type of SSC project activity is II (energy efficiency improvement projects which reduce energy consumption, on the supply and/or demand side, by up to the equivalent of 60 GWh per year). The project category is II.J (Demand-side activities for efficient lighting technologies).

The proposed project has following features:

- 1) the proposed project is a demand-side energy efficiency activity, which eventually leads to the reduction of electricity consumption;
- 2) the activity includes energy-efficient measures;
- 3) the project activity is to be carried out in public buildings;
- 4) the annual energy savings of the project activity is estimated to be about 1.4 GWh/year.

Despite the fact that at present in the Donetsk Region 5 similar projects are implemented with the same technology/measure (in Gorlivka, Kramatorsk, Artemivsk, Torez and Yenakiiv towns) the proposed small-scale project is not a debundled component of a large project since there is not registered small-scale JI project or application for registration of other small-scale JI project, where:

- existing JI SSC project has completed the determination process involving the same participants;

- project boundary of other project is within 1 km of the project boundary of the proposed small-scale activity at the closest point.

Identified problem areas for SSC project type and category, project participants’ answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 03, CL 01).

4.3 Baseline and Additionality

The SSC project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)” uses the JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04.

Description and justification of the baseline chosen is provided in accordance with “Guidance on criteria for baseline setting and monitoring”, version 03 and in accordance with “Guidelines for users of the joint implementation project PDD form for SSC projects and the form for submission of bundled joint implementation SSC projects”, version 04.

The alternatives for determination of the baseline scenario in the context of the project activity are considered.

The possible alternative baseline scenarios are the following:

- (a) usage of ICLs in the project period;
- (b) Town Administration is to replace ICLs with CFLs;
- (c) Town Administration is to replace ICLs with LED lamps.

Key factors include:

- 1) financing the alternative scenario;
- 2) fulfillment of regulatory instruments (Ordinance of the Cabinet of Ministers of Ukraine #1337-R dated 16/10/2008 “On Implementation of Measures to Reduce Electricity Consumption

by Budget Institutions” stipulates gradual change of ordinary CFLs with up-to-date energy efficient sources of light);

3) fulfillment of sanitary regulations and rules with CFLs kept.

Section B.1. of the PDD, version 03.2 represents the analysis of key factors’ impact on alternative scenarios.

The baseline options considered do not include those options that:

- do not comply with legal and regulatory requirements; or
- depend on key resources such as fuels, materials or technology that are not available at the project site.

The most economically attractive alternative among the alternatives mentioned above, notably usage of ICLs in the project period, has been selected as the baseline scenario, since such alternative is not expected to face any prohibitive barriers that could have prevented it from being taken up as the project activity.

Identified problem areas for baseline and additionality proofs, project participants’ answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 7 – CAR 17, CL 02).

4.4 Monitoring Plan

The SSC project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2)” uses the JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04.

Monitoring plan of the GHGs emissions in the project and baseline scenarios and the GHGs emissions reduction is elaborated on the basis of requirements of the “Guidance on criteria for baseline setting and monitoring”, version 03.

The chosen monitoring approach includes monitoring and estimation of baseline emissions, project scenario emissions and leakages.

Since there are no direct CO₂ emissions in the project, the emission estimate (and further emission monitoring) is based on electricity consumption from the power grid and specific indirect emissions of carbon dioxide.

Identified problem areas for monitoring plan, project participants' answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 19 – CAR 23, CL 03 – CL 11).

4.5 Calculation of GHG Emissions

As per JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04, the baseline emission sources considered are CO₂ emissions from electricity consumption of existing facilities. At the same time the project reduces emissions of CH₄ and N₂O from fuel consumption. However, these emissions are much smaller in comparison with than emissions of CO₂ and are excluded from the project to ensure that emission reductions are estimated in a conservative manner.

According to JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04, the baseline emissions are calculated under formula:

$$BE_y = EC_{BL,y} \cdot EF_{CO_2,ELEC,y} \cdot 10^{-3}$$

where

BE_y – emissions in year “y”, t CO₂;

EC_{BL,y} - electricity baseline consumption in year “y”, kWh;

EF_{CO₂,ELEC,y} - electricity consumption carbon emission factor for Ukraine, kgCO₂/kWh.

The detailed algorithms are described later under section D.1. of the PDD, version 03.2.

As per JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04, the included project emissions sources are CO₂ emissions from electricity consumption of facilities after applying energy-efficiency improvement measures.

Project emissions are calculated using the following formula according to JI specific approach with elements of an approved baseline CDM methodology AMS-II.J “Demand-side activities for efficient lighting technologies”, version 04:

$$PE_y = EC_{PJ,y} \cdot EF_{CO_2,ELEC,y} \cdot 10^{-3}$$

PE_y – emissions in year “y”, t CO₂;

EC_{PJ,y} – electricity project consumption in year “y”, kWh;

EF_{CO₂,ELEC,y} – electricity consumption carbon emission factor for Ukraine, kgCO₂/kWh.

The detailed algorithms are described later under section D.1. of the PDD, version 03.2.

As per JI specific approach project does not lead to any leakage.

Total estimated emission reductions over the crediting period are 3,382 tonnes of CO₂ equivalent. Total estimated emission reductions for late crediting period (2013 – 2020 years) are 14,272 tonnes of CO₂ equivalent and represents a reasonable estimation using the assumptions given by the SSC project.

Identified problem areas for calculation of GHGs emissions, project participants’ answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 24, CAR 25, CL 12 - CL 13).

4.6 Environmental Impacts

On average every CFL contains about 5 mg of mercury that may have undesirable ecological effect if it is emitted into the environment. CFLs should be used and kept according to state

sanitary rules and regulations “Hygienic requirements to industrial waste management and determination of population health hazard class” (DSanPiN 2.2.7.029-99)”. At the same time, the Project participants will manage facilities where lamps are installed and adhere to current standards to prevent environmental pollution with mercury.

The project participants will support the efficient collection and disposal of failed CFLs in accordance with the current environmental standards, notably, keep CFLs in an iron air-proof box which can be accessed only by a person responsible for keeping. Failed CFLs will be delivered from facilities to departments of education or healthcare of town council and then to the owner, Carbon Futures LLP, for proper utilization. Innovation Center "Ecosystem" will coordinate whole process of utilization.

Transboundary impacts are absent because the project aims to reduce electricity consumption and direct emissions of GHGs are absent.

The project participants are not required to perform the Environmental Impact Assessment (EIA) according to the Ukrainian law, in particular, Article 27 of the Law of Ukraine “On environmental protection”, Article 14 of the Law of Ukraine “On environmental expertise”, “DBN A.2.2.-1-2003 Content and structure of the Environmental Impact Assessment (EIA) materials upon designing and construction of enterprises, buildings and facilities”, “DBN A.2.2.-3-2004 Content, development procedure, agreement and approval of construction project documentation”.

This project complies with requirements of Articles 1, 3, 40, and 51 of the Law of Ukraine “On environmental protection”, and as a result, requirements of the environmental legislation of Ukraine.

Identified problem areas for environmental impacts, project participants’ answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 26, CL 17, CL 18).

4.7 Comments by Local Stakeholders

The project information was published on the web-site of the Innovation Center “Ecosystem”. Currently, on the stage of determination comments of stakeholders are not received.

Identified problem areas for comments by local stakeholders, project participants’ answers and conclusions of TÜV Rheinland Group/TÜV Rheinland Ukraine are described in Annex A Table 3 (refer to CAR 27).

5 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

According to the modalities for the Determination of JI projects, the AIE shall make publicly available the project design document and receive, within 30 days, comments from Parties, stakeholders and UNFCCC accredited non-governmental organizations and make them publicly available.

TÜV Rheinland Group/TÜV Rheinland Ukraine published the project design document on the website TÜV Rheinland Ukraine (<http://www.tuv.com.ua>) on 12/05/2011 and invited comments within 11/06/2011 by Parties, stakeholders and non-governmental organizations.

TÜV Rheinland Group/TÜV Rheinland Ukraine published the project design document on the UNFCCC JI website (<http://ji.unfccc.int>) on 01/12/2011 and invited comments within by Parties, stakeholders and non-governmental organizations. There were no comments from Parties, stakeholders and UNFCCC accredited observers received.

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ANNEX A: JI SSC PROJECT DETERMINATION PROTOCOL**Table 1 Mandatory Requirements for Joint Implementation (JI) Project**

REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
1. The project shall have the approval of the Parties involved.	Kyoto Protocol Article 6.1 (a)	OK	Table 2, section A.5. A written project approval by the Ukraine (host Party) is available: Letter of Approval for JI project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town” #3102/23/6 dated 25/10/2011. Written project approval by a Party involved in JI small-scale project, other than the host Party was obtained – Declaration of Approval reference #2011JI54 on 17/01/2012, issued by “NL Agency” Ministry of Economic Affairs, Agriculture and Innovations.
2. Emission reductions, or an enhancement of removal by sinks, shall be additional to any that would otherwise occur.	Kyoto Protocol Article 6.1 (b)	OK	Table 2, section B.
3. The sponsor Party shall not acquire emission reduction units if it is not in compliance with its obligations under Articles 5 & 7.	Kyoto Protocol Article 6.1 (c)	OK	Article 5 requires: “Each Party included in Annex I shall have in place, no later than one year prior

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REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
			<p>to the start of the first commitment period, a national system for the estimation of anthropogenic emissions by sources and removals by sinks of all greenhouse gases”.</p> <p>According to the Article 7: “Annex I Parties to submit annual greenhouse gas inventories, as well as national communications, at regular intervals, both including supplementary information to demonstrate compliance with the Protocol”.</p> <p>The Netherlands has submitted its Initial Report on 21 December 2006: http://unfccc.int/files/national_reports/initial_reports_under_the_kyoto_protocol/application/pdf/initial_report_final_191206.pdf</p>
4. The acquisition of emission reduction units shall be supplemental to domestic actions for the purpose of meeting commitments under Article 3.	Kyoto Protocol Article 6.1 (d)	OK	Table 2, section B.
5. Parties participating in JI shall designate national focal points for approving JI projects and have in place national guidelines and procedures for the approval of JI projects.	Marrakech Accords, JI Modalities, §20	OK	Ukraine has designated its Focal Point. National guidelines and procedures for approving JI projects have been published. Contact data in Ukraine: State Environmental Investment

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REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
			Agency of Ukraine 35 Urytskogo St, Kyiv, P.O. 03035 Phone: +380 44 594 91 11 Fax: +380 44 5949115 Ukrainian national guidelines and procedures for the approval of JI projects are available on the site www.neia.gov.ua . On February 22, 2006 the Cabinet of Ministers of Ukraine adopted the Regulation No. 206, which established assessment and implementation procedures of JI projects within the Kyoto Protocol.
6. The host Party shall be a Party to the Kyoto Protocol.	Marrakech Accords, JI Modalities, §21(a)/24	OK	The Ukraine is a Party (Annex I Party) to the Kyoto Protocol and has ratified the Kyoto Protocol at February 4th, 2004.
7. The host Party's assigned amount shall have been calculated and recorded in accordance with the modalities for the accounting of assigned amounts.	Marrakech Accords, JI Modalities, §21(b)/24	OK	The arranged extent for Ukraine is 100% of its emissions by 1990. In the Initial Report (Ukraine's Initial Report Under Article 7, Paragraph 4, Of The Kyoto Protocol) submitted by Ukraine to the UNFCCC Secretariat, on the 26 May 2006 the AAUs are quantified

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REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
			with: 925 362 174.39 (x 5) = 4 626 810 872 tCO ₂ e http://unfccc.int/files/national_reports/initial_reports_under_the_kyoto_protocol/application/pdf/ukraine_aa_report.pdf Currently Ukraine has submitted to the UNFCCC its fifth national communication on climate change under the Kyoto Protocol.
8. The host Party shall have in place a national registry in accordance with Article 7, paragraph 4.	Marrakech Accords, JI Modalities, §21(d)/24	OK	The designed system of the national registry has been described in the Initial Report: http://unfccc.int/files/national_reports/initial_reports_under_the_kyoto_protocol/application/pdf/ukraine_aa_report.pdf
9. Project participants shall submit to the independent entity a project design document that contains all information needed for the determination.	Marrakech Accords, JI Modalities, §31	OK	Project participants submitted PDD that contains all information needed for the determination.
10. The project design document shall be made publicly available and Parties, stakeholders and UNFCCC accredited observers shall be invited to, within 30 days, provide comments.	Marrakech Accords, JI Modalities, §32	OK	The PDD has been made publicly available through http://www.tuv.com.ua website from May, 12 th to June, 12 th 2011. TÜV Rheinland Group/TÜV Rheinland Ukraine published the

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REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
			project design document on the UNFCCC JI website (http://ji.unfccc.int) on 01/12/2011 and invited comments within by Parties, stakeholders and non-governmental organizations.
11. Documentation on the analysis of the environmental impacts of the project activity, including transboundary impacts, in accordance with procedures as determined by the host Party shall be submitted, and, if those impacts are considered significant by the project participants or the host Party, an environmental impact assessment in accordance with procedures as required by the host Party shall be carried out.	Marrakech Accords, JI Modalities, §33(d)	OK	Table 2, section F.
12. The baseline for a JI project shall be the scenario that reasonably represents the GHGs emissions or removal by sources that would occur in absence of the proposed project.	Marrakech Accords, JI Modalities, Appendix B	OK	Table 2, section B.
13. A baseline shall be established on a project-specific basis, in a transparent manner and taking into account relevant national and/or sectoral policies and circumstances.	Marrakech Accords, JI Modalities, Appendix B	OK	Table 2, section B.
14. The baseline methodology shall exclude to earn ERUs for decreases in activity levels outside the project activity or due to force majeure.	Marrakech Accords, JI Modalities, Appendix B	OK	Table 2, section B.
15. The project shall have an appropriate monitoring plan.	Marrakech Accords,	OK	Table 2, section D.

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REQUIREMENT	REFERENCE	CONCLUSION	Cross Reference/Comment
	JI Modalities, §33(c)		
16. A project participant is a legal entity authorized by a Party involved to participate in the JI project.	“Glossary of Joint Implementation Terms”, Version 03.	OK	Table 2, section A.

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Table 2 Requirements Checklist

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
<u>A.General description of the SSC project</u>					
A.1. Title of the SSC project					
1.1. Is the title of the SSC project activity presented?	PDD	DR	Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town (under Track 2).	OK	OK
1.2. Is(are) the sectoral scope(s) to which the SSC project pertains presented?	PDD	DR	Sectoral scope 3: Energy demand	OK	OK
1.3. Are the version number and date of the document presented?	PDD	DR	Initial version 01 dated 15/03/2011 Current version 03.2 dated 20/03/2012	OK	OK
A.2. Description of the SSC project					
2.1. Is the purpose of the project indicated (with the concise, summarizing explanation of the situation existing prior to the starting date of the SSC project, baseline scenario and project scenario)?	PDD	DR	Concise, summarizing explanation of the situation existing prior to the starting date of the SSC project, baseline scenario and project scenario are absent. CAR 01. Please indicate summarizing explanation of the situation existing prior to the starting date of the SSC project (baseline scenario, project scenario).	CAR 01	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
2.2. Is the history of the SSC Project including its JI component summarized?	PDD	DR	The description of the SSC Project history including its JI component is absent. CAR 02. Please describe the history of the SSC Project including its JI component.	CAR 02	OK
A.3. Project participants					
3.1. Are project participants and Party(ies) involved in the project listed?	PDD	DR	Ukraine (host Party): Slovyansk Town Council. The Netherlands: Carbon Futures LLP	OK	OK
3.2. Is contact information provided in Annex 1 of the PDD that is indicated in section A.3?	PDD	DR	The contact information of project participants is provided in Annex 1 of the PDD.	OK	OK
3.3. Is it indicated, if it is the case, if the Party involved is a host Party?	PDD	DR	Ukraine is indicated as a host Party.	OK	OK
3.4. Is it indicated, if it is the case, if the Party involved wishes to be considered as a project participant?	PDD	DR	Parties involved don't wish to be considered as project participants.	OK	OK
A.4. Technical description of the SSC project					
A.4.1. Location of the SSC project					
4.1.1. Host Party(ies)	PDD	DR	Ukraine	OK	OK
4.1.2. Region/State/Province etc.	PDD	DR	Donetska oblast	OK	OK
4.1.3. City/Town/Community etc.	PDD	DR	Slovyansk Town	OK	OK
4.1.4. Detail of the physical location, including information allowing the unique identification of the SSC project					

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
4.1.4.1. Does the information provided on the location of the project activity allow for a clear identification of the site(s) (this section should not exceed one page)?	PDD	DR	Yes, indicated geographic coordinates, the figure A.1. in section A.4.1.4. of the PDD and full list of budget and social facilities of Slovyansk covered by the project in Annex 4 of the PDD clearly identify the location of the project. This information does not exceed one page.	OK	OK
A.4.2.SSC project type(s) and category(ies)					
4.2.1. Does the PDD appropriately specify and justify the SSC project type(s) and category(ies) that fall under: - One of the types and thresholds of JI SSC projects as defined in "Provisions for joint implementation SSC projects"? If the project contains more than one JI SSC project type component, does each component meet the relevant threshold criterion? - One of the SSC project categories defined in the most recent version of appendix B of annex II to decision 4/CMP.1, or an additional project category approved by the JISC in accordance with the relevant provision in "Provisions for joint implementation SSC projects"?	PDD	DR	Indicated category of the project does not correspond to the most recent version of appendix B of annex II to decision 4/CMP.1, or an additional project category approved by the JISC. CAR 03. Please indicate the SSC project category defined in the most recent version of appendix B of annex II to decision 4/CMP.1. The relevant threshold for II type JI SSC project is 60 GWh per year. The annual energy savings of the project activity is estimated to be about 1.4 GWh per year. CL 01. Please provide justification of the applicability of the SSC project, and how the project activity meets the threshold level of SSC JI project, referring to information from the normative document.	CAR 03 CL 01	OK OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
A.4.3. Technology(ies) to be employed, or measures, operations or actions to be implemented by the SSC project					
4.3.1. Are the technology(ies) to be employed, or measures, operations or actions to be implemented by the SSC project described?	PDD	DR	CAR 04. Please provide information on the provision of training and service requirements at the objects in this project (additional training etc.).	CAR 04	OK
4.3.1.1. Does the project design engineering reflect current good practices?	PDD	DR	See section A.4.3. of the PDD.	OK	OK
4.3.1.2. Does the SSC project use state of the art technology or would the technology result in a significantly better performance than any commonly used technologies in the host country?	PDD	DR	The project stipulates replacement of ICLs with CFLs which are energy saving lamps compared to ICLs, since they consume four-five times less power with similar lighting.	OK	OK
4.3.1.3. Is the project technology likely to be substituted by other or more efficient technologies within the project period?	PDD	DR	If within the project lifecycle LED lamps become more affordable from the economic standpoint, they will be used instead of ICLs, since they consume about ten times less power than ICLs, while providing the same lighting level.	OK	OK
4.3.2. Are all relevant technical data and the implementation schedule indicated?	PDD	DR	See section A.4.3. of the PDD.	OK	OK
A.4.4. Brief explanation of how the anthropogenic emissions of greenhouse gases by sources are to be reduced by the proposed small-scale project, including why the emission reductions would not occur in the absence of the proposed SSC project, taking into account national and/or sectoral policies and circumstances:					

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
4.4.1. Is it stated how anthropogenic GHGs emission reductions are to be achieved? (This section should not exceed one page).	PDD	DR	CAR 05. Please state clearly how the anthropogenic emissions of greenhouse gases by sources are to be reduced by the proposed SSC project.	CAR 05	OK
A.4.4.1. Estimated amount of emission reductions over the crediting period					
4.4.1.1. Is it provided the estimated annual reduction for the chosen credit period in tCO ₂ e?	PDD	DR	Total estimated emission reductions over the crediting period are 3,382 tons of CO ₂ equivalent. Total estimated emission reductions for late crediting period after 2012 are 14,272 tons of CO ₂ equivalent.	OK	OK
A.4.5. Confirmation that the proposed SSC project is not a debundled component of a larger project					
4.5.1. Is there a registered JI SSC project or an application to register which fulfills all of the following criteria indicated in the table?	PDD	DR	All the criteria are not provided. CAR 06. Please provide in section A.4.5. of the PDD confirmation on behalf of the project participant that all of the criteria are not met.	CAR 06	OK
Criteria	Yes/No				
Existing JI SSC project has completed the determination process involving the same participants	No				
The same project category and technology/measure	No				
Determination of the project has been made publicly available in accordance with paragraph 34 of the JI guidelines within the previous 2 years	No				
Project boundary of other project is within 1 km of the project boundary of the proposed SSC activity at the closest point	No				

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
A.5. Project approval by the Parties involved					
5.1. Are written project approvals by the Parties involved attached? Are they unconditional?	SD	DR	<p>A written project approval by the Ukraine (host Party) is available:</p> <p>Letter of Approval for JI project “Implementation of energy-efficient lighting system in the Donetsk Region with the use of Kyoto Protocol mechanism: replacement of incandescent lamps with energy-efficient ones at budget financed and social entities in the Slovyansk town” #3102/23/6 dated 25/10/2011.</p> <p>Written project approval by a Party involved in JI small-scale project, other than the host Party was obtained – Declaration of Approval reference #2011JI54 on 17/01/2012, issued by “NL Agency” Ministry of Economic Affairs, Agriculture and Innovations.</p>	OK	OK
<u>B. Baseline</u>					
B.1 Description and justification of the baseline chosen					
1.1. Is it indicated in PDD: - a detailed theoretical description of the baseline in a complete and transparent manner, as well as a	PDD	DR	The baseline scenario is defined as the “continuation of use of incandescent lamps”.	CAR 07	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
justification of chosen baseline using the step-wise approach; - a justification of baseline setting; - references on regulations according to baseline setting.			CAR 07. Please justify the choice of the baseline used for the category of SSC project, indicating criteria and references on regulations.		
1.2. Is it indicated in the PDD that baseline was established:					
1.2.1. On a project-specific basis and/or using a multi-project emission factor?	PDD	DR	Please refer to CAR 07.		OK
1.2.2. In a transparent manner with regard to the choice of approaches, assumptions, methodologies, parameters, data sources and key factors?	PDD	DR	Please refer to CAR 07.		OK
1.2.3. Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector.	PDD	DR	Please refer to CAR 07.		OK
1.2.4. In such a way that emission reduction units (ERUs) cannot be earned for decreases in activity levels outside the project activity or due to force majeure.	PDD	DR	Please refer to CAR 07.		OK
1.2.5. Taking account of uncertainties and using conservative assumptions.	PDD	DR	Please refer to CAR 07.		OK
1.3. Does the PDD explicitly indicate the approach used for identifying the baseline with references on regulations?	PDD	DR	Please refer to CAR 07.		OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
1.4. Are number, name and version of the methodology clearly indicated in the context of the SSC project?	PDD	DR	CAR 08. Please provide a description of the methodology applied in the context of the SSC project with all references on regulations.	CAR 08	OK
1.5. Is the applied version the most recent one and/or is this version still applicable?	PDD	DR	Please refer to CAR 08.		OK
1.6. Is it described how the chosen approach is applied in the context of the SSC project?	PDD	DR	CAR 09. Please indicate the application of the chosen approach for baseline setting for the category of SSC project, indicating criteria and references on regulations.	CAR 09	OK
1.7. Are the key information and data used to establish the baseline (variables, parameters, data sources etc.) indicated in tabular form?	PDD	DR	CAR 10. Please indicate the key information and data used to establish the baseline (variables, parameters, data sources etc.) in tabular form.	CAR 10	OK
1.8. Are all regulations and sources clearly referenced?	PDD	DR	Please refer to CAR 07, CAR 08, CAR 09.		OK
B.2. Description of how the anthropogenic emissions of greenhouse gases by sources are reduced below those that would have occurred in the absence of the SSC project					
2.1. Is the step-wise approach used for the demonstration of project additionality indicated and described?	PDD	DR	There is a description of investment, technological and other barriers faced by the project activity in section B.2 of the PDD.	CL 02	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
			CL 02. Please clarify how the proper utilization of expired CFLs will be implemented?		
2.2. Does the PDD provide a justification of the applicability of the approach with a clear and transparent description with relevant reference on regulations?	PDD	DR	CAR 11. Please provide justification for the use of "Appendix B of the simplified modalities and procedures for SSC CDM project activities" to demonstrate additionality of SSC JI project.	CAR 11	OK
2.3. Is it described how the chosen approach is applied in the context of the SSC project?	PDD	DR	CAR 12. Please indicate the application of the chosen approach for the category of SSC project, indicating criteria and references on regulations.	CAR 12	OK
2.4. Are additionality proofs provided?					
2.4.1. If the application of the most recent version of the "Tool for the demonstration and assessment of additionality" is chosen, are all explanations, descriptions and analyses made in accordance with the selected tool or method?"	PDD	DR	Not applied.	OK	OK
2.4.2. Is an analysis showing why the emissions in the baseline scenario would likely exceed the emissions in the SSC project scenario included?	PDD	DR	CAR 13. Please provide a description of the baseline scenario. CAR 14. Please provide a description of the project scenario. CAR 15. Please provide an analysis showing why the emissions in the baseline scenario would likely exceed the emissions in the project scenario.	CAR 13 CAR 14 CAR 15	OK OK OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
2.4.3. Is it demonstrated that the project activity itself is not a likely baseline scenario?	PDD	DR	CAR 16. Please demonstrate that the project activity itself is not a likely baseline scenario.	CAR 16	OK
2.5. Are national policies and circumstances relevant to the baseline of the proposed project activity summarized?	PDD	DR	National policies and circumstances relevant to the baseline of the proposed project activity are summarized in section B.2. of the PDD.	OK	OK
B.3. Description of how the definition of the project boundary is applied to the SSC project					
3.1. Does the project boundary defined in the PDD encompass all anthropogenic emissions by sources of GHGs that are: - under the control of the project participants; - reasonably attributable to the project; - significant?	PDD	DR	Project boundaries are indicated in section B.3 of the PDD.	OK	OK
3.2. Is the project boundary defined on the basis of a case-by-case assessment with regard to the criteria referred to in 3.1. above?	PDD	DR	See section B.3. of the PDD.	OK	OK
3.3. Are the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate?	PDD	DR	CAR 17. Please indicate the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate.	CAR 17	OK
3.4. Are all gases and sources included explicitly stated, and the exclusions of any sources related to the baseline or the project are appropriately	PDD	DR	Yes. All gases and sources included are explicitly stated, and the exclusions of any sources related to the baseline or	OK	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
justified?			the project are appropriately justified.		
B.4. Further baseline information, including the date of baseline setting and the name(s) of the person(s)/entity(ies) setting the baseline					
4.1 Is the date of the baseline setting presented (in DD/MM/YYYY)?	PDD	DR	Date of completion of the baseline study: 15/03/2011.	OK	OK
4.2 Is the contact information of persons setting the baseline provided?	PDD	DR	The contact information of the person/entity setting the baseline is indicated in section B.4.	OK	OK
4.3 Is the person/entity also a project participant listed in Annex 1 of PDD?	PDD	DR	ICF Consulting and Agency for Rational Energy Use and Ecology (ARENA-ECO) are not project participants listed in Annex 1 of the PDD.	OK	OK
<u>C. Duration of the SSC project/crediting period</u>					
C.1. Starting date of the SSC project					
1.1 Is the project's starting date clearly defined?	PDD	DR	CAR 18. Please indicate only one starting date of the project.	CAR 18	OK
1.2 Does the PDD state the starting date of the project as the date on which the implementation or construction or real action of the project will begin or began?	PDD, SD	DR	The project operational phase started on 07/02/2011 after replacement of ICLs with CFLs and initiated maintenance of the operation hours' log.	OK	OK
1.3 Is the starting date after the beginning of 2000?	PDD	DR	Yes. The starting date is after the beginning of 2000.	OK	OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
C.2. Expected operational lifetime of the SSC project					
2.1. Is the project's operational lifetime clearly defined in years and months?	PDD	DR	10 years/120 months	OK	OK
C.3. Length of the crediting period					
3.1. Is the length of the crediting period specified in years and months?	PDD	DR	See section C.3. of the PDD.	OK	OK
3.2. Does the PDD state that the crediting period for issuance of ERUs starts only after the beginning of 2008 and does not extend beyond the operational lifetime of the project?	PDD	DR	Yes. See section C.3. of the PDD.	OK	OK
3.3. If the crediting period extends beyond 2012, does the PDD state that the extension is subject to the host Party approval? Are the estimates of emission reductions or enhancements of net removals presented separately for those until 2012 and those after 2012?	PDD	DR	Yes. See section C.3. of the PDD.	OK	OK
<u>D. Monitoring Plan</u>					
D.1. Description of monitoring plan chosen					
1.1. Is it indicated in PDD a detailed theoretical description in a complete and transparent manner, as well as a justification of chosen monitoring plan using the step-wise approach?	PDD	DR	The monitoring plan is not described in a complete and transparent manner, a reference to the methodology is absent. CAR 19. Please provide a description of monitoring plan using the step-wise approach with reference to the applied methodology.	CAR 19	OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
1.2. Does the PDD explicitly indicate the chosen approach used for monitoring with references on regulations?	PDD	DR	CAR 20. Please explicitly define and describe chosen approach used for monitoring and indicate application of this approach.	CAR 20	OK
1.3. Is the applied methodology considered being the most appropriate one?	PDD	DR	Please refer to CAR 19.		OK
1.4. Are the description of the assumptions, formulas, parameters, data sources and key factors indicated?	PDD	DR	Please refer to CAR 19.		OK
1.4.1. Is it stated how uncertainties are taken into account and conservativeness is safeguarded?	PDD		Please refer to CAR 19.		OK
1.5. Is it described how the chosen approach is applied in the context of the SSC project?	PDD		Please refer to CAR 20.		OK
1.6. If national or international monitoring standart has to be applied to monitor certain aspects of the project, is this standart identified and is the reference as to where a detailed description of the standart can be found provided?	PDD	DR	Application of the national or international standards for monitoring certain aspects of the project monitoring is absent.	OK	OK
1.7. Is it indicated how data to be collected to monitor emission reductions from SSC project will be archived?	PDD	DR	Please refer to CAR 19.		OK
1.8. If applicable please provide the information relating to the collection and archiving of all relevant data necessary for assessing leakage effects?	PDD	DR	Please refer to CAR 19.		OK
D.2. Data to be monitored					
2.1. Are tables for each data and parameter	PDD	DR	Yes. Tables are indicated for each data	OK	OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.				
indicated?			and parameter in section D.2. of the PDD.						
2.2. Is all the required data / parameters according to the used methodology indicated?	PDD	DR	Please refer to CAR 19 and CAR 20 . CL 03 . Please clarify deviation from the methodology AMS IIJ, version 04 specified in the PDD.	CL 03	OK				
2.3. Does the monitoring plan explicitly and clearly distinguish: - Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination? - Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination? - Data and parameters that are monitored throughout the crediting period?	PDD	DR	Information is indicated in the section D.1. of the PDD. Data that is not monitored is absent.	OK	OK				
2.4.Fill in the required amount of sub checklists for fixed data and comment any line answered with "No"									
2.4.1. Parameter Title $Q_{P,j,i}$ Number (quantity) pieces of equipment of type 'i' distributed or installed under the project activity (units) instead of ICLs.	PDD	DR	See section D.2. of the PDD.	OK	OK				
<table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes/No</th> </tr> </thead> <tbody> <tr> <td>Is the title in line with methodology?</td> <td>Yes</td> </tr> </tbody> </table>	Data Checklist	Yes/No	Is the title in line with methodology?	Yes					
Data Checklist	Yes/No								
Is the title in line with methodology?	Yes								

DETERMINATION REPORT

CHECKLIST QUESTION		Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
Are data unit correctly expressed?	Yes					
Is the appropriate description of parameter indicated?	Yes					
Is the time of monitoring clearly indicated?	Yes					
Is the source clearly referenced?	Yes					
Is the correct value provided?	Yes					
Has this value been verified?	Yes					
Is the choice of data correctly justified or is the measurement method correctly described?	Yes					
Are quality control and quality assurance procedures indicated?	Yes					

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.																				
<p>2.4.2. Parameter Title $P_{i, BL}$ Rated power of the baseline lighting devices of the group of “I” lighting devices (Watts).</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes/No</th> </tr> </thead> <tbody> <tr> <td>Is the title in line with methodology?</td> <td>Yes</td> </tr> <tr> <td>Are data unit correctly expressed?</td> <td>Yes</td> </tr> <tr> <td>Is the appropriate description of parameter indicated?</td> <td>Yes</td> </tr> <tr> <td>Is the time of monitoring clearly indicated?</td> <td>Yes</td> </tr> <tr> <td>Is the source clearly referenced?</td> <td>Yes</td> </tr> <tr> <td>Is the correct value provided?</td> <td>Yes</td> </tr> <tr> <td>Has this value been verified?</td> <td>No</td> </tr> <tr> <td>Is the choice of data correctly justified or is the measurement method correctly described?</td> <td>Yes</td> </tr> <tr> <td>Are quality control and quality assurance procedures indicated?</td> <td>Yes</td> </tr> </tbody> </table>	Data Checklist	Yes/No	Is the title in line with methodology?	Yes	Are data unit correctly expressed?	Yes	Is the appropriate description of parameter indicated?	Yes	Is the time of monitoring clearly indicated?	Yes	Is the source clearly referenced?	Yes	Is the correct value provided?	Yes	Has this value been verified?	No	Is the choice of data correctly justified or is the measurement method correctly described?	Yes	Are quality control and quality assurance procedures indicated?	Yes	PDD, SD	DR	CAR 21. Please provide a proof of power rating of the baseline lighting devices that was recorded during the distribution of CFLs (100 W and 150 W).	CAR 21	OK
Data Checklist	Yes/No																								
Is the title in line with methodology?	Yes																								
Are data unit correctly expressed?	Yes																								
Is the appropriate description of parameter indicated?	Yes																								
Is the time of monitoring clearly indicated?	Yes																								
Is the source clearly referenced?	Yes																								
Is the correct value provided?	Yes																								
Has this value been verified?	No																								
Is the choice of data correctly justified or is the measurement method correctly described?	Yes																								
Are quality control and quality assurance procedures indicated?	Yes																								
<p>2.4.3. Parameter Title $P_{i, PJ}$ Rated power of the project lighting devices of the group of “I” lighting devices (Watts).</p> <table border="1"> <thead> <tr> <th>Data Checklist</th> <th>Yes/No</th> </tr> </thead> <tbody> <tr> <td>Is the title in line with methodology?</td> <td>Yes</td> </tr> <tr> <td>Are data unit correctly expressed?</td> <td>Yes</td> </tr> <tr> <td>Is the appropriate description of parameter</td> <td>Yes</td> </tr> </tbody> </table>	Data Checklist	Yes/No	Is the title in line with methodology?	Yes	Are data unit correctly expressed?	Yes	Is the appropriate description of parameter	Yes	PDD, SD	DR	CAR 22. Please provide a proof of power rating of the project lighting devices that was recorded during the distribution CFLs (20 W and 32 W).	CAR 22	OK												
Data Checklist	Yes/No																								
Is the title in line with methodology?	Yes																								
Are data unit correctly expressed?	Yes																								
Is the appropriate description of parameter	Yes																								

DETERMINATION REPORT

CHECKLIST QUESTION		Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
indicated?						
Is the time of monitoring clearly indicated?	Yes					
Is the source clearly referenced?	Yes					
Is the correct value provided?	Yes					
Has this value been verified?	No					
Is the choice of data correctly justified or is the measurement method correctly described?	Yes					
Are quality control and quality assurance procedures indicated?	Yes					
2.4.4. Parameter Title O _i Average daily operating hours of the devices of the group of "i" baseline devices.		PDD, SD	DR	CL 04. According to the methodology AMS IIJ version 04, item 12(b), value for O _i greater than 5 hours per 24 hour period may not be used under this methodology. Please clarify the value taken 10 hours. CL 05. Please provide the "preliminary feasibility study" for average annual operating hours of the devices of the group of "i" baseline devices.	CL 04	OK
Data Checklist						
Is the title in line with methodology?	Yes					
Are data unit correctly expressed?	Yes					
Is the appropriate description of parameter indicated?	Yes					
Is the time of monitoring clearly indicated?	Yes					
Is the source clearly referenced?	Yes					
Is the correct value provided?	Yes					
Has this value been verified?	No					
Is the choice of data correctly justified or is the measurement method correctly described?	Yes					
Are quality control and quality assurance procedures indicated?	Yes					

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
2.4.5. Parameter Title $EF_{CO_2, ELEC, y}$ Specific indirect carbon dioxide emissions from electric power consumption by the 2nd voltage class consumers in 'y' year.	PDD	DR	CL 06. The parameter title is not in line with methodology. CL 07. Please clarify the data unit "kg CO ₂ e/kW•h." CL 08. Please clarify why this parameter is referred to the monitoring, if its value is given in Table E.3 for all years of the project.	CL 06 CL 07 CL 08	OK OK OK
Data Checklist	Yes/No				
Is the title in line with methodology?	No				
Are data unit correctly expressed?	No				
Is the appropriate description of parameter indicated?	Yes				
Is the time of monitoring clearly indicated?	Yes				
Is the source clearly referenced?	Yes				
Is the correct value provided?	Yes				
Has this value been verified?	Yes				
Is the choice of data correctly justified or is the measurement method correctly described?	Yes				
Are quality control and quality assurance procedures indicated?	Yes				
2.5. Is information on the collection and archiving of information on the environmental impacts of the SSC project, in accordance with the procedures as required by the host Party, provided (if applicable)?	PDD	DR	Ecological impact of the SSC JI project is absent under condition of compliance of rules of handling and storage of CFLs that are indicated in section F. of the PDD.	OK	OK
D.3. Quality control (QC) and quality assurance (QA) procedures undertaken for data monitored					
3.1. Are the quality assurance and control procedures for the monitoring process established? This	PDD, SD	DR, I	CL 09. Please clarify the parameter QB,i indicated in section D.3. of the	CL 09	OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
includes, as appropriate, information on calibration and on how records on data and/or method validity and accuracy are kept and made available on request?			PDD.		
D.4. Brief description of the operational and management structure that will be applied in implementing the monitoring plan					
4.1. Is it described briefly the operational and management structure that the project participants(s) will implement in order to monitor emission reduction and any leakage effects generated by the project?	PDD	DR, I	<p>CL 10. “At the beginning of each monitoring interval, project <u>proponent</u> will compile and update the record of number of failed CFLs collected from the facilities. The utilization of the failed CFLs would be carried out as per the national regulations and <u>proper documentation</u> shall be maintained to facilitate verification by the AIE”. Please clarify the underlined.</p> <p>CL 11. Please provide the manual (booklet) to ensure proper implementation of the project.</p>	<p>CL 10 CL 11</p>	<p>OK OK</p>
4.2. Are responsibilities and institutional arrangements for data collection and archiving clearly provided?	PDD	DR, I	Yes. Responsibilities and institutional arrangements for data collection and archiving are provided in Table D.6., section D.4. of the PDD.	OK	OK
4.3. Does the monitoring plan, on the whole, reflect good monitoring practices appropriate to the project type?	PDD	DR	The monitoring plan and existing operational structure allow tracking GHGs emission reduction by each facility, which is the advanced practice for such type projects.	OK	OK
4.4. Is it indicated in the monitoring plan that data monitored and required for determination are to be	PDD	DR, I	CAR 23. Please provide documentary manual, which indicates that data	CAR 23	OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
kept for two years after the last transfer of ERUs for the project?			monitored and required for determination are to be kept for two years after the last transfer of ERUs for the project.		
D.5. Name of person(s)/entity(ies) establishing the monitoring plan					
5.1. Is the contact information of person(s)/entity(ies) establishing the monitoring plan provided?	PDD	DR	The contact information is provided in section B.4. of the PDD.	OK	OK
5.2. Is the person/entity also a project participant listed in Annex 1 of PDD?	PDD	DR	See section B.4. of the PDD.	OK	OK
E. Estimation of greenhouse gases emission reductions					
E.1. Estimated project emissions and formulae used in the estimation					
1.1. Are described the formulae used to estimate anthropogenic emissions by source of GHGs due to the SSC project (for each gas, source etc.; emissions in units of CO ₂ equivalent)?	PDD, SD	DR	<p>CL 12. Please clarify why the electricity consumption by the project activity is calculated, not the electricity saved by the project activity (according to the methodology).</p> <p>CL 13. Please justify the ex-ante value of parameter O_i indicated in table E.1.</p> <p>CL 14. Please clarify why other formulae are used in spreadsheets for calculations and in a different order than described in the section E of the PDD (it is difficult to follow the settlement procedures). There is no indication of</p>	<p>CL 12</p> <p>CL 13</p> <p>CL 14</p>	<p>OK</p> <p>OK</p> <p>OK</p>

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
			parameters titles in spreadsheets according to formulae specified in the PDD.		
1.1.1. Is there a description of calculation of GHGs project emissions in accordance with the formula? (supporting documentation)	PDD, SD	DR	Supporting documentation includes estimates of the project GHGs emissions	OK	OK
E.2. Estimated leakage and formulae used in the estimation, if applicable.					
2.1. Are described the formulae used to estimate leakage due to the project activity where required (for each gas, source etc.; emissions in units of CO ₂ equivalent)?	PDD	DR	It is stated in section E.2. of the PDD that estimation of leakage is not applicable.	OK	OK
2.1.1. Is there a description of calculation of leakage in accordance with the formula? (supporting documentation)	PDD, SD	DR	CAR 24. Please provide a formulae (with reference to the source) according to which the calculation of leakage is described and values in Table E.5 section E.2. of the PDD are provided.	CAR 24	OK
2.2. If not applicable, is it stated in the PDD?	PDD	DR	It is stated in section E.2. of the PDD that estimation of leakage is not applicable.	OK	OK
E.3. Sum of E.1 and E.2.					
3.1. Does the sum of E.1. and E.2. represent the project activity emissions?	PDD, SD	DR	See section E.3. of the PDD.	OK	OK
E.4. Estimated baseline emissions and formulae used in the estimation					
4.1. Are the formulae used to estimate the anthropogenic emissions by source of GHGs in the baseline using the baseline methodology for the applicable project category described (for each gas,	PDD, SD	DR	CL 15. Please clarify why the electricity consumption is calculated, not the electricity saved by the project activity according to the methodology used for	CL 15 CL 16 CAR 25	OK OK OK

DETERMINATION REPORT

CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
source etc.; emissions in units of CO2 equivalent)?			this category of SSC project. CL 16. Please justify the value of parameter O_i indicated in table E.6. CAR 25. Please justify the choice to use in this project such values of CEF.		
4.1.1. . Is there a description of calculation of GHGs baseline emissions in accordance with the formula? (supporting documentation)	PDD, SD	DR	Supporting documentation includes estimates of the baseline GHGs emissions.	OK	OK
E.5. Difference between E.4. and E.3. representing the emission reductions of the project					
5.1. Does the difference between E.4. and E.3. represent the emission reductions due to the project during a given period?	PDD, SD	DR	Emission reductions due to the project are indicated in section E.6.	OK	OK
E.6. Table providing values obtained when applying formulae above					
6.1. Is the data provided under this section in consistency with data as presented by other chapters E of the PDD?	PDD, SD	DR	The data provided under this section is in consistency with data as presented by other chapters of the PDD.	OK	OK
6.2. Is there a table providing the total value of emission reductions?	PDD	DR	The total value of emission reductions is indicated in proper tabular format in section E.6. of the PDD.	OK	OK
<u>F. Environmental impacts</u>					
F.1. Documentation on the analysis of the environmental impacts of the project, including transboundary impacts, in accordance with procedures as determined by the host Party					
1.1. Has an analysis of the environmental impacts of the SSC project been sufficiently described?	PDD	DR	CL 17. Please clarify how the efficient collection and disposal of failed CFLs will be provided.	CL 17	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
1.2. Are there any host Party requirements for an Environmental Impact Assessment (EIA)?	PDD	DR	For host Party requirements an EIA is not required.	OK	OK
1.3. Are transboundary environmental impacts considered in the analysis?	PDD	DR	CL 18. Please clarify if transboundary environmental impacts are considered in the project implementation.	CL 18	OK
1.4. Are all regulations and sources clearly referenced?	PDD	DR	All references to relevant regulations and sources are provided in section F.1. of the PDD.	OK	OK
F.2. If environmental impacts are considered significant by the project participants or the host Party, provision of conclusions and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party					
2.1. Will the SSC project create any adverse environmental impacts considered significant by the project participants or the host Party?	PDD	DR, I	The SSC project will not create any adverse environmental impacts on condition of environmentally safe collection, storage and disposal of CFLs, consistent with applicable standards to prevent environmental pollution by mercury.	OK	OK
2.2. Have conclusions and all references to the supporting documentation on the analysis of the environmental impacts of the project been indicated?	PDD	DR	CAR 26. Please provide the references to the documentation that confirms the absence of EIA requirements for projects of this type.	CAR 26	OK
<u>G. Stakeholders' comments</u>					
G.1. Information on stakeholders' comments on the project, as appropriate					
1.1. Have relevant stakeholders been consulted and how?	PDD	DR	CAR 27. Please provide the details on the process of informing stakeholders.	CAR 27	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
1.1.1. Have appropriate media been used to invite comments by local stakeholders?	PDD	DR	Please refer to CAR 27 .		OK
1.2. Is there a list of stakeholders from whom comments on the project have been received?	PDD	DR	Please refer to CAR 27 .		OK
1.3. Is the nature of comments provided?	PDD	DR	Please refer to CAR 27 .		OK
1.4. Has due account been taken of any stakeholder comments received?	PDD	DR	Please refer to CAR 27 .		OK
<u>H. Annexes</u>					
Annex 1: Contact information on project participants					
1.1. Is the information provided in consistency with the one given under section A.3?	PDD	DR	The information provided is in a consistency with the one given under section A.3.	OK	OK
1.2. Is the contact information of all entities and parties as project participants indicated?	PDD	DR	The contact information of all entities and parties as project participants is indicated in Annex 1.	OK	OK
Annex 2: Baseline information					
2.1. If additional background information on baseline data is provided: is this information in consistency with data presented by other sections of the PDD?	PDD	DR	At the moment of the development of the PDD (PDD dated 15/03/2011) all the measures implemented under the project (late January, early February - according to operation hours' log for Philips energy saving lamps). According to the section B.4. of the PDD "The baseline emissions for the project activity will be calculated from the available information on the	CL 19	OK

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CHECKLIST QUESTION	Ref.*	MoV**	COMMENTS	Draft Concl.	Final Concl.
			replaced number of CFL and its usage during the project lifetime. Date of completion of the baseline study: 15/03/2011”. CL 19. Please clarify why data on the baseline scenario is not provided.		
2.2. Is the data provided verifiable? Has sufficient evidence been provided to the determination team?	PDD, SD	DR	Yes. The evidence of the number of ICL replaced by CFL in 2011 at the time of project implementation in the form of Transfer and Acceptance Act on ICL is provided.	OK	OK
Annex 3: Monitoring plan					
3.1. If additional background information on monitoring is provided: is this information in consistency with data presented by other sections of the PDD?	PDD	DR	The monitoring plan is indicated in section D.	OK	OK
Annex 4: Budget and social facilities of Slovyansk Town where ICLs have been replaced with CFLs					
4.1. Is this information in consistency with data presented by other sections of the PDD?	PDD	DR	The full list of budget and social facilities of Slovyansk Town covered by the project is listed in Annex 4.	OK	OK

Ref.* - gives reference to Category 1 and Category 2 documents (see section 3.1. of the Determination Report) where the answer to the checklist question or item is found.

MoV** - Explains how conformance with the checklist question is investigated. Examples of means of verification are document review (DR) or interview (I). N/A means not applicable.

DETERMINATION REPORT

Table 3 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
CAR 01. Please indicate summarizing explanation of the situation existing prior to the starting date of the SSC project (baseline scenario, project scenario).	Table 2, checklist question A.2.1.	In section A.2. of PDD, situation existing prior to the starting date of the SSC project (baseline scenario, project scenario) was indicated.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 02. Please describe the history of the SSC Project including its JI component.	Table 2, checklist question A.2.2.	In section A.2. of PDD, history of the SSC Project including its JI component was indicated.	Corrections in PDD version 02 are sufficient. The issue is closed.
CAR 03. Please indicate the SSC project category defined in the most recent version of appendix B of annex II to decision 4/CMP.1.	Table 2, checklist question A.4.2.1.	In section A.4.2. the SSC project category defined in the most recent version of appendix B of annex II to decision 4/CMP.1 was indicated.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 04. Please provide information on the provision of training and service requirements at the objects in this project (additional training etc.).	Table 2, checklist question A.4.3.1.	<u>Answer 1:</u> Information on the provision of training and service requirements at the objects in this project was provided. <u>Answer 2:</u> For avoiding repetition of information on provisions for training and service requirements at the facilities in this project, information was indicated in section D. In section A.4.3. indicated reference to section D.	<u>Conclusion 1:</u> Please provide the reference on section of the PDD that describes in detail the provision of training and control of personnel. <u>Conclusion 2:</u> The issue is closed based on sufficient information in PDD version 03.
CAR 05. Please state clearly how the anthropogenic emissions of greenhouse gases by sources are to be reduced by the proposed SSC project.	Table 2, checklist question A.4.4.1.	<u>Answer 1:</u> It was indicated how the anthropogenic emissions of greenhouse gases by sources are to be reduced by the proposed SSC project. <u>Answer 2:</u> In section A.2., information on	<u>Conclusion 1:</u> Please provide in section A.2. information on how will be reduced anthropogenic emissions of greenhouse gases from the implemented measure to

DETERMINATION REPORT

Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
		reduction of direct emissions of greenhouse gases under the project activity was indicated.	the place of direct emissions of greenhouse gases. <u>Conclusion 2:</u> Corrections in PDD version 03 are sufficient. The issue is closed.
CAR 06. Please provide in section A.4.5. of the PDD confirmation on behalf of the project participant that all of the criteria are not met.	Table 2, checklist question A.4.5.1.	<p>In section A.4.5. was indicated that Slovyansk Town Council confirms that the proposed SSC project is not a separate component of a larger project since there is not registered SSC JI project or application for registration of other SSC JI project, where:</p> <ul style="list-style-type: none"> - existing JI SSC project has completed the determination process involving the same participants; - the same project category and technology/measure are used; - determination of the project has been made publicly available in accordance with paragraph 34 of the JI guidelines within the previous 2 years; <p>Project boundary of other project is within 1 km of the project boundary of the proposed SSC activity at the closest point.</p>	Corrections in PDD version 02 are sufficient. The issue is closed.
CAR 07. Please justify the choice of the	Table 2, checklist	In section B.1. was indicated that	Corrections in PDD version 02 are

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
baseline used for the category of SSC project, indicating criteria and references on regulations.	question B.1.1.	description and justification of the baseline chosen is provided in accordance with “Guidance on criteria for baseline setting and monitoring”, version 03 and in accordance with “Guidelines for users of the joint implementation project PDD form for SSC projects and the form for submission of bundled joint implementation SSC projects”, version 04.	sufficient. The issue is closed.
CAR 08. Please provide a description of the methodology applied in the context of the SSC project with all references on regulations.	Table 2, checklist question B.1.4.	In section B.1. was indicated that description and justification of the baseline chosen is provided in accordance with “Guidance on criteria for baseline setting and monitoring”, version 03 and in accordance with “Guidelines for users of the joint implementation project PDD form for SSC projects and the form for submission of bundled joint implementation SSC projects”, version 04.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 09. Please indicate the application of the chosen approach for baseline setting for the category of SSC project, indicating criteria and references on regulations.	Table 2, checklist question B.1.6.	<u>Answer 1:</u> It was indicated. <u>Answer 2:</u> In section B.1. was indicated that description and justification of the baseline chosen is provided in accordance with “Guidance on criteria for baseline setting and monitoring”, version 03 and in accordance with “Guidelines for users of the joint implementation project PDD form for SSC projects and the form for	<u>Conclusion 1:</u> CAR is not closed. Please indicate the application of the chosen approach for baseline setting for the category of SSC project, indicating criteria and references on regulations. <u>Conclusion 2:</u> The issue is closed based on appropriate

DETERMINATION REPORT

Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
		submission of bundled joint implementation SSC projects”, version 04.	corrections in PDD version 03.
<p>CAR 10. Please indicate the key information and data used to establish the baseline (variables, parameters, data sources etc.) in tabular form.</p>	Table 2, checklist question B.1.7.	<p><u>Answer 1:</u> Information was added. <u>Answer 2:</u> In section B.1. the reference to order of National Electricity Regulation Commission of Ukraine which designate classes consumers on the basis of voltage of grid. Also, It was indicated that unit “kg CO₂/kWh” shows emission of GHG in CO₂ equivalent for production and transportation electricity for consumers.</p>	<p><u>Conclusion 1:</u> Please provide the reference to the document according to which was defined voltage class consumers. <u>Conclusion 2:</u> Corrections in PDD version 03 are sufficient. The issue is closed.</p>
<p>CAR 11. Please provide justification for the use of “Appendix B of the simplified modalities and procedures for SSC CDM project activities” to demonstrate additionality of SSC JI project.</p>	Table 2, checklist question B.2.2.	Approach is not used in PDD.	<p>The issue is closed based on appropriate corrections in PDD version 02.</p>
<p>CAR 12. Please indicate the application of the chosen approach for the category of SSC project, indicating criteria and references on regulations.</p>	Table 2, checklist question B.2.3.	<p><u>Answer 1:</u> It is indicated. <u>Answer 2:</u> In section B.2. was indicated that for demonstration of additionality of the project JI specific approach is used for in accordance with the paragraph 44(a) of the Annex I to the “Guidance on criteria for baseline setting and monitoring”, version 03 and in accordance with “Guidelines for users of the joint implementation project PDD form for SSC projects and the form for submission of bundled joint implementation SSC</p>	<p><u>Conclusion 1:</u> CAR is not closed. Please indicate the application of the chosen approach for the category of SSC project, indicating criteria and references on regulations. <u>Conclusion 2:</u> The issue is closed based on appropriate corrections in PDD version 03.</p>

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
		projects”, version 04.	
CAR 13. Please provide a description of the baseline scenario.	Table 2, checklist question B.2.4.2.	In section B.2. the description of the baseline scenario was provided.	Corrections in PDD version 02 are sufficient. The issue is closed.
CAR 14. Please provide a description of the project scenario.	Table 2, checklist question B.2.4.2.	In section B.2. the description of the project scenario was provided.	Corrections in PDD version 02 are sufficient. The issue is closed.
CAR 15. Please provide an analysis showing why the emissions in the baseline scenario would likely exceed the emissions in the project scenario.	Table 2, checklist question B.2.4.2.	<u>Answer 1:</u> Analysis was provided. <u>Answer 2:</u> In section B.2. was indicated that emission of GHG in baseline scenario is higher than emission of GHG in SSC project because rated power of CFLs less than rated power of ICLs with similar light power.	<u>Conclusion 1:</u> Please indicate why the emissions in the baseline scenario would likely exceed the emissions in the project scenario. <u>Conclusion 2:</u> The issue is closed based on appropriate corrections in PDD version 03.
CAR 16. Please demonstrate that the project activity itself is not a likely baseline scenario.	Table 2, checklist question B.2.4.3.	In section B.2. was indicated that emission of GHG in baseline scenario is higher than emission of GHG in SSC project because rated power of CFLs less than rated power of ICLs with similar light power.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 17. Please indicate the delineation of the project boundary and the gases and sources included appropriately described and justified in the PDD by using a figure or flow chart as appropriate.	Table 2, checklist question B.3.3.	<u>Answer 1:</u> The flow chart was indicated. <u>Answer 2:</u> In this case under the term of “electricity grid” means electric network for transmission energy and power stations for producing energy.	<u>Conclusion 1:</u> Please clarify why electric grid on the figure B.1. is indicated as a GHG emission source. <u>Conclusion 2:</u> Corrections in PDD version 03 are sufficient. The issue is closed.

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
<p>CAR 18. Please indicate only one starting date of the project.</p>	<p>Table 2, checklist question C.1.1.</p>	<p>Only one starting date of the project was indicated in section C.1. From section C.1. the date of beginning of investment phase was excluded. This date is indicated in history of SSC JI project.</p>	<p>Corrections in PDD version 02 are sufficient. The issue is closed.</p>
<p>CAR 19. Please provide a description of monitoring plan using the step-wise approach with reference to the applied methodology.</p>	<p>Table 2, checklist question D.1.1.</p>	<p><u>Answer 1:</u> The description of monitoring plan using the step-wise approach was provided. <u>Answer 2:</u> In section D.1. was indicated that all data will be kept for at least 2 years after the crediting period and collected in paper format (at the facilities) and in electronic format (at the special working group and at IC “Ecosystem”) with aim to ensure reliability of information storage. And that detailed information is indicated in section D.4.</p>	<p><u>Conclusion 1:</u> Please indicate briefly in this section how monitoring data will be archived as it indicated in section D.4. <u>Conclusion 2:</u> Corrections in PDD version 03 are sufficient. The issue is closed.</p>
<p>CAR 20. Please explicitly define and describe chosen approach used for monitoring and indicate application of this approach.</p>	<p>Table 2, checklist question D.1.2.</p>	<p>In section D.1. was indicated that monitoring plan of the GHG emissions in the project and baseline scenarios and the GHG emissions reduction is elaborated on the basis of requirements of “Guidance on criteria for baseline setting and monitoring”, version 03 and based on specific JI approach and partly on methodology AMS II.J “Demand-side activities for efficient lighting technologies”, version 04 and</p>	<p>The issue is closed based on appropriate corrections in PDD version 02.</p>

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
		indicated application of this approach.	
CAR 21. Please provide a proof of power rating of the baseline lighting devices that was recorded during the distribution of CFLs (100 W and 150 W).	Table 2, checklist question D.2.4.2.	<u>Answer 1:</u> Transfer and Acceptance Act was provided. <u>Answer 2:</u> Undamaged Transfer and Acceptance Act was provided.	<u>Conclusion 1:</u> The file of Transfer and Acceptance Act is damaged. Please provide the Transfer and Acceptance Act. <u>Conclusion 2:</u> The issue is closed based on submitted to the determination group documents.
CAR 22. Please provide a proof of power rating of the project lighting devices that was recorded during the distribution CFLs (20 W and 32 W).	Table 2, checklist question D.2.4.3.	<u>Answer 1:</u> Transfer and Acceptance Act was provided. <u>Answer 2:</u> Undamaged Transfer and Acceptance Act was provided.	<u>Conclusion 1:</u> The file of Transfer and Acceptance Act is damaged. Please provide the Transfer and Acceptance Act. <u>Conclusion 2:</u> The issue is closed based on submitted to the determination group documents.
CAR 23. Please provide documentary manual, which indicates that data monitored and required for determination are to be kept for two years after the last transfer of ERUs for the project.	Table 2, checklist question D.4.4.	In section D.4. was indicated that monitoring data (original logs and relevant acts) will be collected in paper format and kept for at least 2 years after the crediting period. Aggregated information in Microsoft Excel format will be saved on a hard drive and kept for at least 2 years by a representative of Ecosystem after the crediting period.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 24. Please provide a formulae (with reference to the source) according to which the calculation of leakage is	Table 2, checklist question E.2.1.1.	The table was moved to section D.1. Required correction was made.	The issue is closed based on appropriate corrections in PDD version 02.

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
described and values in Table E.5 section E.2. of the PDD are provided.			
CAR 25. Please justify the choice to use in this project such values of CEF.	Table 2, checklist question E.4.1.	The approach for this value was changed (section D.1.). During the monitoring, this value will be updated in accordance with orders of the State Environmental Investment Agency of Ukraine. For preliminary estimates, the value for 2011 is used.	The issue is closed based on appropriate corrections in PDD version 02.
CAR 26. Please provide the references to the documentation that confirms the absence of EIA requirements for projects of this type.	Table 2, checklist question F.2.2.	In section F.2. was indicated that The project participants are not required to perform the Environmental Impact Assessment (EIA) according to the Ukrainian law, in particular, Article 27 of the Law of Ukraine “On environmental protection”, Article 14 of the Law of Ukraine “On environmental expertise”, “DBN A.2.2.-1-2003 content and structure of the Environmental Impact Assessment (EIA) materials upon designing and construction of enterprises, buildings and facilities”, “DBN A.2.2.-3-2004 content, development procedure, agreement and approval of construction project documentation”.	Corrections in PDD version 02 are sufficient. The issue is closed.
CAR 27. Please provide the details on the process of informing stakeholders.	Table 2, checklist question G.1.1.	In section G.1., details on the process of informing stakeholders were provided.	Corrections in PDD version 02 are sufficient. The issue is closed.

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
CL 01. Please provide justification of the applicability of the SSC project, and how the project activity meets the threshold level of SSC JI project, referring to information from the normative document.	Table 2, checklist question A.4.2.1.	In section A.4.2. was indicated that for projects of II type reduction of electricity consumption under the project activity should be less than 60 GWh per year.	Corrections in PDD version 02 are sufficient. The issue is closed.
CL 02. Please clarify how the proper utilization of expired CFLs will be implemented?	Table 2, checklist question B.2.1.	<u>Answer 1:</u> The issue was clarified. <u>Answer 2:</u> The detailed description is provided in sections D.1. and F.1. of the PDD. In section B.2.1. was provided reference for these sections. Also, it was indicated that Carbon Futures LLP as the lamps owner is responsible for proper utilization.	<u>Conclusion 1:</u> The detailed description is provided in sections D.1. and F.1. of the PDD. Please clarify how and who will implement the proper utilization of expired CFLs. <u>Conclusion 2:</u> The issue is closed based on appropriate corrections in PDD version 03.
CL 03. Please clarify deviation from the methodology AMS IIJ, version 04 specified in the PDD.	Table 2, checklist question D.2.2.	In PDD JI specific approach with elements of methodology AMS-II.J/Version 04 (sections B.1. and D.1.) is used.	The issue is closed based on appropriate corrections in PDD version 02.
CL 04. According to the methodology AMS IIJ version 04, item 12(b), value for O_i greater than 5 hours per 24 hour period may not be used under this methodology. Please clarify the value taken 10 hours.	Table 2, checklist question D.2.4.4.	In PDD JI specific approach with elements of methodology AMS-II.J/Version 04 (sections B.1. and D.1.) is used.	The issue is closed based on appropriate corrections in PDD version 02.
CL 05. Please provide the “preliminary feasibility study” for average annual operating hours of the devices of the	Table 2, checklist question D.2.4.4.	<u>Answer 1:</u> The value was set according to first monitoring survey. <u>Answer 2:</u> Information on the first	<u>Conclusion 1:</u> Please provide the first monitoring research. <u>Conclusion 2:</u> The issue is

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
group of "i" baseline devices.		monitoring survey was provided in supporting documents.	closed based on submitted to the determination group documents.
CL 06. The parameter title is not in line with methodology.	Table 2, checklist question D.2.4.5.	In PDD JI specific approach with elements of methodology AMS-II.J/Version 04 (sections B.1. and D.1.) is used.	Corrections in PDD version 02 are sufficient. The issue is closed.
CL 07. Please clarify the data unit "kg CO ₂ e/kWh.	Table 2, checklist question D.2.4.5.	<u>Answer 1:</u> Information was added. <u>Answer 2:</u> In section B.1. the reference to order of National Electricity Regulation Commission of Ukraine which designate classes consumers on the basis of voltage of grid. Also, It was indicated that unit "kg CO ₂ /kWh" shows emission of GHG in CO ₂ equivalent for production and transportation electricity for consumers.	<u>Conclusion 1:</u> See conclusion 1 of CAR 20. <u>Conclusion 2:</u> Corrections in PDD version 03 are sufficient. The issue is closed.
CL 08. Please clarify why this parameter is referred to the monitoring, if its value is given in Table E.3 for all years of the project.	Table 2, checklist question D.2.4.5.	The approach for this value was changed (section D.1.). During the monitoring, this value will be updated in accordance with orders of the State Environmental Investment Agency of Ukraine. For preliminary estimates, the value for 2011 is used.	Corrections in PDD version 02 are sufficient. The issue is closed.
CL 09. Please clarify the parameter QB,i indicated in section D.3. of the PDD.	Table 2, checklist question D.3.1.	Parameter is not used.	The issue is closed based on appropriate corrections in PDD version 02.
CL 10. "At the beginning of each monitoring interval, project <u>proponent</u> will compile and update the record of	Table 2, checklist question D.4.1.	Statements were paraphrased. The information on utilization of CFLs was provided in section F.	The issue is closed based on appropriate corrections in PDD version 02.

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
number of failed CFLs collected from the facilities. The utilization of the failed CLFs would be carried out as per the national regulations and <u>proper documentation</u> shall be maintained to facilitate verification by the AIE". Please clarify the underlined.			
CL 11. Please provide the manual (booklet) to ensure proper implementation of the project.	Table 2, checklist question D.4.1.	<u>Answer 1:</u> Log book was provided in supporting documents. <u>Answer 2:</u> Photo logs pages with information about the project were provided in supporting documents.	<u>Conclusion 1:</u> Please provide a photo logs page with information about the project. <u>Conclusion 2:</u> The issue is closed based on submitted to the determination group documents.
CL 12. Please clarify why the electricity consumption by the project activity is calculated, not the electricity saved by the project activity (according to the methodology).	Table 2, checklist question E.1.1.	In PDD JI specific approach with elements of methodology AMS-II.J/Version 04 (sections B.1. and D.1.) is used.	The issue is closed based on appropriate corrections in PDD version 02.
CL 13. Please justify the ex-ante value of parameter O_i indicated in table E.1.	Table 2, checklist question E.1.1.	<u>Answer 1:</u> The value was set according to first monitoring survey. <u>Answer 2:</u> Information on the first monitoring survey was provided in supporting documents.	<u>Conclusion 1:</u> Please provide the first monitoring research. <u>Conclusion 2:</u> The issue is closed based on submitted to the determination group documents.
CL 14. Please clarify why other formulae are used in spreadsheets for calculations and in a different order than described in the section E of the	Table 2, checklist question E.1.1.	Updated spreadsheets were provided in supporting documents.	Corrections in PDD version 02 are sufficient. The issue is closed.

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
PDD (it is difficult to follow the settlement procedures). There is no indication of parameters titles in spreadsheets according to formulae specified in the PDD.			
CL 15. Please clarify why the electricity consumption is calculated, not the electricity saved by the project activity according to the methodology used for this category of SSC project.	Table 2, checklist question E.4.1.	In PDD JI specific approach with elements of methodology AMS-II.J/Version 04 (sections B.1. and D.1.) is used.	The issue is closed based on appropriate corrections in PDD version 02.
CL 16. Please justify the value of parameter O _i indicated in table E.6.	Table 2, checklist question E.4.1.	<u>Answer 1:</u> The value was set according to first monitoring survey. <u>Answer 2:</u> Information on the first monitoring survey was provided in supporting documents.	<u>Conclusion 1:</u> Please provide the first monitoring research. <u>Conclusion 2:</u> The issue is closed based on submitted to the determination group documents.
CL 17. Please clarify how the efficient collection and disposal of failed CFLs will be provided.	Table 2, checklist question F.1.1.	<u>Answer 1:</u> The issue was clarified. <u>Answer 2:</u> In section F.1. was indicated order of transfer CFLs from facilities to Carbon Futures LLP (owner of CFLs) for proper utilization.	<u>Conclusion 1:</u> Please clarify how and who will implement the proper utilization of expired CFLs. <u>Conclusion 2:</u> The issue is closed based on appropriate corrections in PDD version 03.
CL 18. Please clarify if transboundary environmental impacts are considered in the project implementation.	Table 2, checklist question F.1.3.	In section F.1. was indicated that transboundary impacts are absent because the project aims to reduce electricity consumption and direct emissions of GHG are absent.	Corrections in PDD version 02 are sufficient. The issue is closed.
CL 19. Please clarify why data on the	Table 2, checklist	With aim of avoiding repetitions information	The issue is closed based on

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Draft report clarifications and corrective action requests by determination team	Ref. to checklist question in tables 1, 2	Summary of project owner response	Determination team conclusion
baseline scenario is not provided.	question Annex 2.1.	on the baseline scenario was provided in sections B., D., and E. In annex 2 references for these sections were added.	appropriate corrections in PDD version 02.