

Final report

Support for the GTZ delegation at the “MENA Carbon Forum 2009”

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1. Background and objective of Perspectives' work

Perspectives Climate Change GmbH (Perspectives) was contracted by Gesellschaft für Technische Zusammenarbeit (GTZ) to conduct the "2nd CDM Capacity Building Mission in Egypt - Workshop and training sessions". The workshop was organized by GTZ and the Egyptian German Joint Committee on Renewable Energy, Energy Efficiency and Environmental Protection (JCEE) and was held from 23rd – 31st of March 2009 in Cairo, Egypt (see final report of the "2nd CDM Capacity Building Mission in Egypt - Workshop and training sessions" from 21st April 2009).

After the workshop the contract was expanded in order to allow Perspectives to assist the GTZ and the JCEE delegation at the "MENA Carbon Forum", which took place in Cairo on the 6th and 7th of May 2009. Perspectives tasks concentrated on support in CDM related matters regarding the preparation and the execution of the GTZ/JCEE delegations participation at the forum.

2. Scope of work and activities

In particular Perspectives conducted the following working steps prior to the "MENA Carbon Forum 2009":

- **Preparation of expert meetings:** Meeting with the Regional Centre for Renewable Energy and Energy Efficiency (RCREEE), the Egyptian National Cleaner Production Centre of the Ministry of Industry (ENCPC), the Egyptian Electricity Holding Company (EEHC) and the Egypt Environmental Affairs Agency (EEAA) were scheduled and prepared.
- **Development of CDM Project Profiles:** In order to arouse interest and to outline the potentials of the Egyptian project portfolio, profiles of potential CDM projects in Egypt were developed on the basis of the Project Idea Notes that were discussed during the workshop in March. The profiles focused on a landfill gas project (PIN), a waste heat recovery (WHR) project (PIN) as well as a CFL project (PIN). A fourth profile for a wind power project was prepared, however, during the preparation the owner of the wind power project decided to create the poster independently. At the forum those were exhibited to the participants, in particular addressing potential buyers and supporters. For further details see Annex I of this report.
- **Preparation of a questionnaire:** Preparation of a questionnaire to conduct a feasibility study for a compact fluorescent lamps (CFL) CDM project activity in Egypt (cooperation with GEF/UNDP programme, Mr. Ibrahim Yassin).

In addition, Perspectives conducted the following working steps during the “MENA Carbon Forum 2009”:

- **Participation at the MENA Carbon Forum:** Two of Perspectives’ staff, Mrs. Mareike Niemann and Mr. Björn Dransfeld, joined the GTZ and JCEE (Egyptian German Joint Committee on Renewable Energy, Energy Efficiency and Environmental Protection) delegation for the forum.
- **RCREEE Meeting:** The meeting with the Regional Centre for Renewable Energy and Energy Efficiency (RCREEE) had the purpose to identify further requirements of the Centre to further promote the CDM in the MENA region. During the discussion interesting ideas and information could be exchanged. However, due to the current priorities and personal capacity this institution will postpone their CDM involvement. If RCREEE requires further assistance, they will contact the GTZ.
- **ENCPC Meeting:** The meeting with the Egyptian National Cleaner Production Centre of the Ministry of Industry (ENCPC) was planned to focus on a general level with further cooperation and ad-hoc consultancy. Besides this, a potential biomass power plant was discussed as a client approached them with it.
- **EEAA Meeting:** Currently the Egypt Environmental Affairs Agency (EEAA) representatives are figuring out how the design of a further capacity building for the staff of EEAA’s promotion unit should look like. The CDM potentials of biomass in Egypt were the central theme of the meeting during the training session in the frame of the 2nd GTZ capacity building in March 2009. During the meeting it was identified, that EEAA requires further information on this. A potential idea is to conduct a feasibility study about the biomass potential for selected material in Egypt. EEAA will contact JCEE or Perspectives once they want to start the study.
- **GEF/UNDP Meeting:** Perspectives was requested by GTZ to conduct a feasibility study for a compact fluorescent lamps (CFL) CDM project activity in Egypt. In this regard the visit at the carbon forum was used to hold a follow-up meeting with the responsible contact person of the respective GEF/UNDP programme, Mr. Ibrahim Yassin. During the meeting a discussion on the design of the potential CFL project was held and a questionnaire was handed over to Mr. Yassin. The questionnaire was prepared by Perspectives prior to the meeting and will be used to obtain the information that is required to elaborate a comprehensive feasibility study.
- **EEHC Meeting:** The talk with the Egyptian Electricity Holding Company was planned as an exchange of information and ideas. Unfortunately on a short notice the EEHC representative could not join the meeting. The energy sector related topics were briefly integrated and touched during the meeting for the CFL feasibility study (GEF/UNDP).

- Besides participating in meetings Perspectives' staff was available for talks at the GTZ/JCEE booth and for support the GTZ representatives in regard to CDM specific questions.

3. Concluding remarks

The participation of the GTZ/JCEE delegation at the "MENA Carbon Forum 2009" in Cairo was observed as successful by the attending Perspectives staff. The exhibition as well as the side event allowed it to approach the relevant expert audience.

Overall the attendance of global and regional carbon market players was good, which can be read as an indicator for a broad interest for CDM related matters in the region. However, the majority of exhibitors were well established international actors, e.g. consultancies or Designated Operational Entities. Only very few regional or national private sector actors were visible at the exhibition.

Several discussions with participants of the forum were held and showed that there is huge interest in the CDM in general and the services of the GTZ and JCEE in particular. A main driver for the latter seems to be the lack of equity in the private sector and the unsatisfying capacities of the public sector.

The meetings that were held show, that in order to promote the CDM in the region it is essential to identify and to involve the responsible private and public authorities and actors and in particular to stay in close contact with them. Therefore Perspectives recommends GTZ/JCEE to proactively follow up with the respective actors and furthermore to intensify the involvement of the private sector.

Annex I - CDM Project Profiles



CDM Project Profile Landfill Gas



Project Title	Gas recovery and flaring project in a new landfill in order to reduce CH ₄ emissions
Project Type	Waste management – CH ₄ recovery from landfills and flaring
Project Developer	Private Company from Egypt
Objective of the Project	The project objective is to maximize the capture of landfill gas (LFG) from a new landfill site. In addition to reducing the potential local impacts of odors and fire hazard associated with landfill gas, the project aims at reducing the fugitive emissions of methane, a greenhouse gas which contributes to global warming and climate change.
Technology applied	Installation of enhanced landfill gas extraction and flaring equipment for the destruction of the landfill methane.
Host Country / Region	Egypt, Sharkeya, Belbeis
CDM Methodology	Indicative simplified baseline and monitoring methodologies for selected small-scale CDM project activity categories AMS-III.G version 6: "Landfill methane recovery"
Selected Crediting Period	10 years
Starting Date	Start of construction in summer 2009
Expected Emission Reductions	200.000 tons CO ₂ -equivalent
Expected Carbon Revenue	2.4 Million US \$

This project profile is provided by the Egyptian German High Level Joint Committee for Renewable Energy, Energy Efficiency and Environmental Protection (JCEE) and Perspectives Climate Change GmbH.

The described project activity illustrates a potential scenario of a CDM project in Egypt. If you are planning to set up a CDM project activity in Egypt and want to learn more about how JCEE can support your CDM services please contact us.

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CDM Project Profile Efficient Light Bulbs

Project Title	Distribution of Efficient Light Bulbs to Households in Egypt
Project Type	Energy efficiency – demand side
Project Developer	Electricity Distribution Companies
Objective of the Project	Distribution of 6 million compact fluorescent lamps to the 1 st category of residential customers consuming up to 50 KWh per month (2 lamps per customer) starting late 2009 and for two years. With this, the electricity consumption and greenhouse gas emissions will be reduced significantly.
Technology applied	Compact Fluorescent Lamp (CFL)
Host Country / Region	Egypt, Cairo
CDM Methodology	<p>Approved baseline and monitoring methodology: <i>Distribution of efficient light bulbs to households (AM0046 - Version 2)</i></p> <p>Indicative simplified baseline and monitoring methodologies for selected small-scale CDM project activity categories :</p> <p><i>Demand-side energy efficiency activities for specific technologies (AMS, II C - Version 11)</i></p> <p><i>Demand-side activities for efficient lighting technologies (AMS, II J - Version 2)</i></p>
Selected Crediting Period	10 years
Starting Date	Late 2009
Expected Emission Reductions	1.2 Million tons CO ₂ -equivalent per year
Expected Carbon revenue	14.4 Million US \$

This project profile is provided by the Egyptian German High Level Joint Committee for Renewable Energy, Energy Efficiency and Environmental Protection (JCEE) and the Energy Efficiency Improvement & Greenhouse Gas Reduction Project (GEF & UNDP) as well as Perspectives Climate Change GmbH.

The described project activity illustrates a potential scenario of a CFL-CDM project in Egypt. If you are planning to set up a CDM project activity in Egypt and want to learn more about how JCEE can support your CDM services please contact us.

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CDM Project Profile

Waste Heat Recovery



Project Title	Waste Heat Recovery from gas turbine generators
Project Type	Energy Efficiency - Waste gas based energy systems
Project Developer	Private Company from Egypt
Objective of the Project	Reduction of fuel consumption by using waste heat from gas turbine to reduce CO ₂ emissions and save operating costs. The fuel gas for process heating will be substituted by energy from the waste heat stream. With this the activity will increase the plants thermal efficiency.
Technology applied	Installation of waste heat recovery units in the exhaust gas of the gas turbine.
Host Country / Region	Egypt, El Behera, Idku
CDM Methodology	Indicative simplified baseline and monitoring methodologies for selected small-scale CDM project activity categories AMS III.Q: Waste Energy Recovery (gas/heat/pressure) Projects
Selected Crediting Period	3x7 years
Starting Date	Late 2009
Expected Emission Reductions	670.000 tons CO ₂ -equivalent
Expected Carbon Revenue	8 Million US \$

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Annex II - Documentation



GTZ/JCEE booth at the MENA Carbon Forum