

Module 6: Climate Protection Policy, Mitigation and CDM



Module Leaders: Ekurhuleni Metropolitan Municipality (SA) & TÜV Rheinland (Germany)



Module 6 Participants

- **Working Group**
- City of Johannesburg – Xolile Mabusela/ Maluta Mbedzi
- City of Tshwane – Juan Mostert/ Sam Motswari
- DME-DNA – Lwazikazi Tyani/ Olga Chauke
- DEAT-Climate Change – Tshilidzi Dlamini
- Eskom-Sustainability – Enoch Liphoto
- Research Institutions – UJ, UCT
- DME Planning – Jeff Subramoney
- EnerKey Management – Harold Annergan, Phillip Goyns, Jerry Mafereka

Module Objectives

- Transfer knowledge about climate change policy implications and CDM to local authorities, companies and project developers.
- Identification of possible CDM projects e.g. in the sector of energy efficiency, solar energy and transport.
- Support and monitoring of CDM projects.

Kyoto Protocol

- The Kyoto Protocol was adopted at the 3rd session of the Conference of the Parties (COP3) to the United Nations Framework Convention on Climate Change (UNFCCC) held in Kyoto, Japan, in December 1997.
- ♦The Protocol defines quantified greenhouse gas (GHG) emissions reduction targets for Annex I Parties. [KP Art.3 para1]
- GHGs defined by the Protocol are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), HFCs, PFCs, and SF₆. [KP Annex A]
- Annex I Parties means those listed in Annex I of the UNFCCC. They are developed countries including Economies in Transitions, e.g. Russia and Eastern Europe.

Kyoto Protocol

- Annex I Parties have different GHG emission ceilings for the 5-year period of 2008-2012 (1st commitment period).
- Emission ceiling which is called ‘assigned amounts’ for each Party is calculated as follows. “The base-year emissions” x “emission reduction target” x five [KP Art.3 para7]
- The base-year emissions are basically a Party’s aggregate GHG emissions in 1990 (whereas, countries may use 1995 as its base year for HFCs, PFCs, and SF6). [KP Art.3 para1&8]
- The Protocol introduces 3 market mechanisms, namely the Kyoto Mechanisms. Annex I Parties would be able to achieve their emission reduction targets cost-effectively, by using these mechanisms.
- Joint Implementation (JI)
- Clean Development Mechanism (CDM)
- International Emissions Trading

The Clean Development Mechanism (CDM)

- Annex I Parties which have ceilings for GHG emissions (emission caps), assist non-Annex I Parties which don't have emission caps, to implement project activities to reduce GHG emissions (or remove by sinks), and credits will be issued based on emission reductions (or removals by sinks) achieved by the project activities.
 - A Party where CDM project is implemented, is called a host Party.
 - The credit from the CDM is called certified emission reduction (CER). [CMP/2005/8/Ad1, p7 para1(b)]
 - Reductions in emissions shall be additional to any that would occur in the absence of the certified project activity. [KP Art.12 para5(c)]

The Clean Development Mechanism (CDM)

Annex I Parties can use CERs to contribute to compliance of their quantified GHG emissions reduction targets of the Kyoto Protocol.

As a result, the amount of emission cap of Annex I Parties will increase.

The CDM will issue CERs before the 1st commitment period.

CERs issued based on activities during the period from the year 2000 up to 2012 can be used in achieving compliance of Annex I Parties in the 1st commitment period. [KP Art.12 para10]



WP 1 Capacity building and awareness

- DME-DNA workshops on CDM
- EnerKey will organize capacity building workshops/seminars

The tentative contents of the seminars are:

- General information on UNFCCC and Kyoto Protocol
- Overview on activities on the UNFCCC and Kyoto Protocol in SA

- Target Audience

JET Cities

Industries

Project developers

Other EnerKey Partners



WP 1 Capacity building and awareness

Training Course on CDM

- General methodology of CDM implementation
- Criteria for setting up and selecting CDM projects
- CDM baselines and its implementation in SA
- Institutional issues on CDM implementation





WP 2 Selection of New Projects that EnerKey will support and monitor

- Investigation of new developments from the UNFCCC
 - Updating of EnerKey website with CDM related news
- Development of guidelines for the transferability of the new measure and project types for the JET surroundings
- Post - Kyoto 2012: Investigations about future climate protection measurements

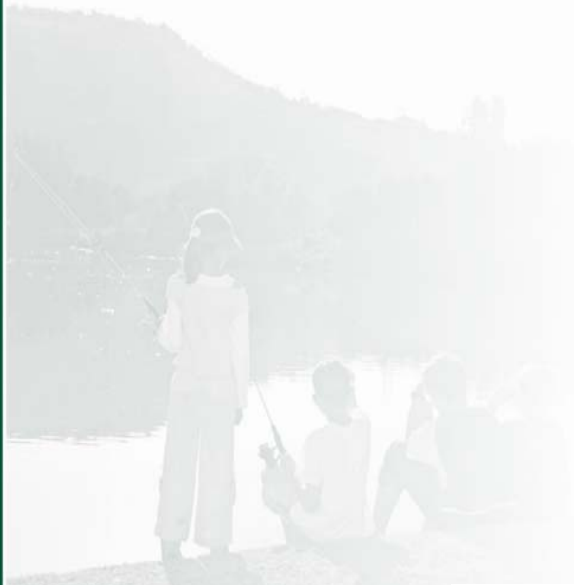
WP 3 Developing and Application of CDM Tool for calculation of CO2 reduction potential

The tool will be developed by EnerKey partners

- The tool should be served for checking the PIN results for the costumers and should give first information about the CO2 reduction potential of draft project ideas.
- The PIN could be developed together with the City authorities
- Development of check lists for potential CDM projects
- Commitment to input data for a selection of project types (energy efficiency, fuel switch and landfill)
- Integration of the tool in the TIMES model (Module 1)
- First calculation of the CO2 reduction potential with existing PINs

WP 4 Evaluate potentials and constrains for using CDM to push Climate change mitigation projects

- Less than a hundred projects have undergone the registration process through the DNA
- investigate the barriers preventing the successful and rapid registration of CDM projects
- Evaluate if policies meet the challenges of climate change and energy utilization in the urban context.



Work plan (18 months)

Activity	Comments	when	Document
WP 1:			
Definition of the CDM items	TÜV and SA partners	August/September 2008	Draft of the workshop program
Organisation of the Workshop	TÜV and SA partners	October/November 2008	Letter of invitation, program Workshop
CDM Workshop in SA	with all Partners	March/April 2009	documents
WP 2:			
CDM Information platform on the EnerKey website	TÜV and SA Partners and IER	August/ October 2008	Links and background information of CDM news
Periodical update of information	TÜV and SA Partners and IER	March/April 2008 and November 2008	CDM information



Work plan (18 months)

Activity	Comments	when	Document
WP 3:			
Investigation of CDM calculation module	TÜV and SA Partners	October/ November 2009	Working paper of module
Development of a simple CDM calculation module for selected CDM scope	TÜV	March/April 2009	Test calculation
Definition of the interface to the TIMES Module	TÜV and IER	October/ November 2009	Interface description





Work plan (18 months)

Interaction and Reporting

- Meeting SA Partners every second Month
- Teleconferencing SA & Germany Quartely
- Meeting with both parties bi-annually
- Reporting to the EnerKey PMC
- Annual Reporting



THANK-YOU

