



**MEMORIES OF THE REGIONAL WORKSHOP IN CLEAN
DEVELOPMENT MECHANISM IN JAMAICA AND THE CARIBBEAN
COUNTRIES**

PROJECT: CLIMATE CHANGE

DATE: NOVEMBER 2005

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1. Introduction

The present document presents the information related to the workshop conducted by the OLADE/ University of Calgary project denominated Energy and Climate Change. During the implementation of Phase 2 of this project, specific target countries have been selected for developing specific actions on case studies as well as the realization of a workshop on CDM issues. Jamaica as one of the target countries has seen actions from the project team during the second semester of 2005. The execution of this activity counted with the additional assistance from UNEP RISO in order to expand the invitation for participation to representatives from other territories in the Caribbean and expanding the capacity building efforts into this region.

2. Coordinating Agencies

The workshop was developed with the support from:

1. Ministry of Land and Environment (MLE) of Jamaica.
2. OLADE.
3. University of Calgary.
4. UNEP RISO.

3. Participation

The regional workshop was attended by representatives from the following territories: Antigua and Barbuda, Bahamas, Barbados, Dominica, Jamaica, St. Lucia, St. Kitts & Nevis, St. Vincent & the Grenadines, and Trinidad and Tobago. A complete list of participants is attached as Annex I.

4. Description of the Workshop

The following description of the workshop has been prepared by the Environmental Management Division, Ministry of Land and Environment, Jamaica.

The agenda of the workshop is presented in Annex II.

Opening Ceremony

The opening session was chaired by Mr. Donovan Stanberry, Permanent Secretary in the Ministry of Land and Environment, who spoke about the need to update our

respective project portfolios for consideration by developed countries and the need to engage high energy partnerships to take on these projects. Remarks were offered from Dr. Jean Dixon, Permanent Secretary in the Ministry of Commerce, Science and Technology (with Energy) in Jamaica, who noted that the possibilities in the generation of CDM projects are vast but the task is to present these in a manner that will be attractive to investors. It was noted that Jamaica will soon launch a publication entitled "Renewable Energy Potential in Jamaica".

Mr. Byron Chiliquinga from the Latin American Energy Organization (OLADE) noted that his organization will continue to extend support to DNAs in the region to strengthen capacity and to increase the advantage that our countries may have under the CDM. The representatives from University of Calgary and UNEP Riso also noted that their respective organisations were offering capacity building support for developing countries in the region.

Day One

Session 1: Recent Institutional and Market Development in the Clean Development Mechanism

Chaired by Leonie Barnaby, Senior Director in the Ministry of Land and Environment, presentations were made by Clifford Mahlung, alternative member of the CDM Executive Board, who updated the group on the recent regulatory activities of the EB. It was revealed that some procedures were revised to make the process of approving methodologies more efficient. Oscar Coto spoke about the international carbon markets where it was learned that markets are developing and that opportunities exist but that country participation needs to be enriched.

The following points were made during the discussion:

- In post-Kyoto period there are a lot of issues to consider especially that: -
 1. most countries that have agreed to ERs are post-Industrial countries as opposed to industrial countries
 2. China will become the largest consumer of fossil fuel energy by 2010 - a loophole in the KP since developing countries are not included in reduction targets
 3. the better approach may be to look at ways to encourage faster development of renewable energy sources and possibly taxing of fossil fuel usage as opposed to emissions.
- Despite its challenges, the Kyoto Protocol is one example of global cooperation on climate change and demonstrates how carbon markets can develop
- A number of countries have been pursuing alternative energy not because of the Kyoto Protocol but due to the high cost of oil
- The Kyoto Protocol has help to raise awareness on the need to have renewable sources of energy.

Session 2: The CDM Project Cycle, Lessons Learnt and Recent Trends in Project Development

This session featured presentations from consultants Oscar Coto and Roger Peters on recent trends in the project development process. It was emphasised that for projects to be eligible there must be a contribution to sustainable development, permanence of reductions of GHGs and projects must show additionally. Energy Efficiency and transportation projects seem to be lagging behind primarily because of issues related to methodologies. The meeting was also told of opportunities such as the Climate Change Development Fund being replenished by the Canadian government. Particular interest was shown in the presentation by the Wigton Wind Farm Ltd. on lessons learned in the development of Wigton as a CDM Project.

During discussion the following were highlighted:

- The region needs to develop indigenous technologies for renewable/alternative energy production
- The Kyoto protocol will work only if there is a green lobby

Session 3: CDM Project Development Experiences in Selected Sectors

This session looked at project development in specific sectors - renewable energy, energy efficiency, solid waste, waste water from agro-industry was explored. It also provided a basic overview of the capacity building activities carried out by UNEP Riso in various regions under the CD4CDM Project. The Netherlands government has provided additional resources for an extension of the project for two more years. The Latin America and Caribbean region is among the regions that will benefit under this extension.

The regional representatives present gave an update on the status of the CDM in their territory. It was noted that most DNAs in the region were not far along in their development. In fact only three territories, Barbados, Jamaica and Trinidad and Tobago had officially appointed a Designated National Authority for the purpose of executing the Clean Development Mechanism. Other activities related to the DNA were concentrated in Environment Units and Climate Change Offices or Ministries of the Environment. Annex I outlines the status of the Clean Development Mechanism in the participating countries.

The following were highlighted during the discussion:

- Government priorities have to include renewable/alternative energy
- Steps should be taken to develop portfolio of projects
- Territories may wish to consider developing electricity laws or energy policies that set targets for the inclusion of renewable energy in the overall energy mix
- Existing institutions seriously lack capacity to execute responsibilities under the Clean Development Mechanism
- The Caribbean needs to mirror what has been done in the other regions by UNEP Riso under their CD4CDM Capacity Building Project
- Governments need to be more proactive with respect to the CDM

Day Two

Session Four: CDM Project Development in Jamaica

Anastasia Calnick from the Jamaica DNA, gave an overview of the draft CDM Project approval process in Jamaica, pointing out that the sustainable development criteria are being developed. Oscar Coto looked into greater details about the CDM potential in Jamaica from various alternative energy projects, noting that the capacity for projects in renewable energy is vast.

Session 5: Panel Discussion - Caribbean CDM Perspectives

A panel discussion among Caribbean DNAs highlighted the following issues:

- The region needs to look towards development in a sustainable manner
- CDM should be advanced as a support for a financial mechanism for alternative energy projects
- The need to have a project development template to give to project developers who may have a project idea
- Need to look at extending the role of the CDB to include CDM issues (co-financing arrangements)
- Region needs to understand more about the CDM and put the enabling structures in place
- The absence of a regional coordinating mechanism hampers progress in the region with respect to CDM and other climate change issues. The region should explore the possibility of having a regional focal point for CDM issue (Caribbean Community Climate Change Centre in Belize being a good repository) to provide advice and promote the use of the CDM
- Promotion and strengthening DNAs have to be linked to an approach to markets and financing activities.
- The region may not get a fair share of the CDM unless they become proactive
- The CDM needs to be aligned with national objectives and strategic plans in order for countries to benefit
- Projects need to pass economic barriers in order to make sense to all stakeholders
- The region should start putting things together by establishing DNAs and making them operational as quickly as possible.

DNAs outlined some constraints to further development under the Clean Development Mechanism and advancement of their National Authorities and capacity building requirements in order to effectively execute responsibilities. Most representatives present indicated a lack of adequate capacity, both human and financial, in order to carry out duties.

The following **general requirements** were outlined:

- Human resources and funding to set up actual DNA units or CDM promotional offices
- Training in the CDM and carbon trading arena to gain more understanding of the issues
- Technical and human resource constraint of the existing DNAs

The following **specific requirements** were noted by individual stated territories:

Barbados

- Barbados will require resources to facilitate the development of DNA, the relevant capacity building and public awareness as well as the development of relevant legislation to implement the CDM.
- Funds also have to be sought for potential CDM projects.
- Fine tuning the technology for developing countries particularly SIDS (e.g. land space and budget issues).
- Meaningful cost benefits analysis for renewable as opposed to conventional energy will have to be conducted.
- Mainstreaming maintenance into SIDS budgetary applications will have to be done as maintenance is often undervalued

Jamaica

- Assistance with public education and awareness especially to outline and clearly articulate the roles and responsibilities of the DNA so that this may be clarified for project proponents
- Capacity Building for officers within the DNA by CDM Experts with respect to the CDM etc. and Provision for public awareness activities and information dissemination
- Project manager for a CDM Unit located in the Ministry of Land and Environment to establish guidelines for the acceptance of proposals; further develop a project portfolio; coordinate technical review of proposals; annual reporting on CDM activities.
- Assistance with the further development of a portfolio of project possibilities under the CDM, which could serve to inform prospective investors and project developers
- There may be a need for technical expertise to determine if the proposals are technically sound, whether this would be sourced locally or overseas; economic/financial expertise in evaluating the viability of projects; legal and regulatory knowledge would have to be sourced to scrutinise aspects of the proposals to ensure consistency with established international and national laws.

Trinidad and Tobago

- The DNA is constrained by human resources and leans on the Climate Change Working Group for advice on CDM issues.
- There are no clear sustainable development indicators or criteria approved at the national level and these are gleaned from existing policy in order to screen project proposals (since this is a requirement of the CDM project cycle).
- The Climate Change Working Group is being reconstituted to reflect representation and Terms of Reference consonant with the developments under the UNFCCC and the Kyoto Protocol and the obligations of Trinidad and Tobago. The Climate Change Working Group does not have permanent secretariat support or annual budget and depends on existing membership to conduct the relevant work. The reconstituted Climate Change Working Group is expected to also act as liaison (a kind of help-desk) between project developers and the DNA to minimize the bureaucracy as well as sensitize stakeholders on the CDM.
- A specialized Multilateral Environmental Agreement (MEA) unit to focus on MEA (including UNFCCC) issues at the national level is to be established at the MPUE. This would address synergy issues among the relevant MEAs as well as streamline and coordinate activities related to UNFCCC including the CDM.

Status of CDM in participating countries

Country	Status
Antigua and Barbuda	DNA is the Environment Division, Ministry of Tourism and Environment, registry monitoring systems. Three projects for renewable energy presently before the Government for consideration: One wind energy, one on gas plasma and one on OTEC.
Bahamas	No DNA reported to UNFCCC. Government of The Bahamas and BEST looking to develop and Energy Policy. Still in need of setting up a CDM authority
Barbados	<p>As of March 2005, the Environment Division of the Ministry of Housing, Lands and the Environment became the Designated National Authority in Barbados. A number of projects are being considered under the CDM. These include:</p> <ul style="list-style-type: none"> - Photovoltaic Use at the Queen Elizabeth Hospital - Harrison's Cave photovoltaic project - 20 MW wind energy system by the Barbados Light & Power Company - The Use of the sugar factory (Andrews) to deliver 60 MW of electric power to the grid using bagasse cogeneration during and beyond the harvest season <p>A renewable energy centre will focus on all of the projects discussed as well as the expansion of the solar water heater sector.</p>
Dominica	Signatory to the Kyoto Protocol but no developments in the CDM. No projects proposed under the CDM but there is potential from hydro plants and geothermal energy.
Jamaica	Ministry of Land and Environment in Jamaica appointed as Interim Designated National Authority. A technical Committee exists comprising the Ministry of Commerce Science and Technology (with Energy), the Meteorological Service, the Scientific Research Council and the Petroleum Corporation of Jamaica. Ministry is in the process of proposing to Cabinet for ratification, institutional structure for the final look of the Designated National Authority and proposals for financing. Also have developed a project approval process and drafted sustainable development criteria for consideration when projects are submitted.
St. Lucia	DNA is Ministry of Physical Development, Environment and Housing. At a stage where the country realises that CDM is a financial investment. Building partnership with the Ministry of Finance and Planning and the National Climate Change Committee to see what are the capacity needs for the Designated National Authority. Need assistance in launching a public education and awareness campaign especially for the private sector. Financial resources are requires. There is some amount of CDM potential. The Ministry is putting together enabling environment- a national sustainable energy plan is being developed along with an energy policy.
St. Kitts	No DNA, No work on the CDM. Legal framework being developed for the Geo Caribe Initiative.
St. Vincent & the Grenadines	No work done with respect to the establishment of a DNA. A GHG inventory has been done and the government is exploring alternative sources of energy such as geothermal energy.
Trinidad and Tobago	A DNA was established at the Ministry of Public Utilities and the Environment, being the UNFCCC National Focal Point, in the person of the Permanent Secretary, as part of the CDM requirements at the national level. A Cabinet-appointed Working

ANNEX I

LIST OF PARTICIPANTS

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ANNEX II

AGENDA

Time	Thursday, 10 November 2005	Speaker/Facilitator
8:00 - 8:40	Registration of participants	
8:40 - 9:00	<p style="text-align: center;">Opening Ceremony Welcome & Opening Remarks</p> <p style="text-align: center;">Greetings</p> <p style="text-align: center;">Remarks</p> <p style="text-align: center;">Overview of Programme of Work</p>	<p>Mr. Donovan Stanberry Permanent Secretary, MLE</p> <p>Dr. Jean Dixon Permanent Secretary, MCST</p> <p>Dr. Byron Chilingua, OLADE</p> <p>Miss Leonie Barnaby, MLE</p>
Recent Institutional and Market Developments in the CDM		
9:00 - 9:15	Recent regulatory activities of the Executive Board of the CDM	<p>Mr. Clifford Mahlung</p> <p>CDM Executive Board Member</p>
9:15 - 9:40	Recent trends in international carbon markets	Dr. Oscar Coto .OLADE Consultant
9:40 – 10:00	Questions and answers	
10:00 – 10:15	Coffee Break	
CDM Project Cycle, Lessons Learned and Recent Trends in Project Development		
10:15 – 10:30	The project cycle in the CDM	Dr. Oscar Coto
10:30 – 11:00	Project development in the CDM: from concept to reality	Mr. Roger Peters Pembina Institute
11:00 – 11:15	The Wigton wind farm project experience in the CDM	Miss Michelle Chin-Lenn Asst. Manager, Wigton Wind Farm
11:15 – 11:35	Recent trends in project development in the CDM	Dr. Oscar Coto
11:35 – 12:35	Discussion	
12:30 – 1:45	Lunch	

CDM Project Development Experiences in Selected Sectors		
1:45 - 2:05	CDM project development in renewable energies	Mr. Roger Peters
2:05 - 2:25	Energy Efficiency Projects and the CDM	Mr. Roger Peters
2:25 - 2:45	CDM projects in landfills and solid waste management	Dr. Oscar Coto
2:45 - 3:05	Experiences with CDM in the treatment of waste water from agro-industry	Dr. Oscar Coto
3:05 - 3:20	Questions and Answers	
3:20 - 3:30	Coffee Break	
3:30 - 4:30	Overview of Status of CDM in the Caribbean	Caribbean DNAs
4:30 - 5:00	CD4CDM Project and Project Development Experiences of UNEP Riso	Ms. Miriam Hinostroza UNEP Riso
5:00- 5:30	Questions and Answers	
<i>END OF DAY ONE</i>		

Time	Friday, 11 November 2005	Speaker/Facilitator
CDM Project Development in Jamaica		
8:30 - 8:45	CDM Project Approval Process in Jamaica	Mrs. Anastasia Calnick, MLE
8:45 - 10:15	Potential for CDM in Jamaica (an open session with project proponents and developers)	Dr. Oscar Coto Jamaica DNA
	Closing Remarks	Miss Leonie Barnaby
10:15 - 10:30	Coffee Break	
Caribbean CDM Perspectives (Closed Session -DNAs, Government Reps, OLADE &UNEP Riso only)		
10:30 - 10:45	Regional Capacity Building for Caribbean Participation in the Clean Development Mechanism	Mrs. Mona Whyte Caribbean Energy Information System
10:45 - 12:30	Panel of Caribbean Designated National Authorities	<i>Moderator:</i> Mr. Clifford Mahlun <i>Rapporteur:</i> Dr. Oscar Coto
12:30 - 2:00	Lunch	
2:00 - 3:00	Panel of Caribbean Designated National Authorities - Conclusions	<i>Moderator:</i> Mr. Clifford Mahlun <i>Rapporteur:</i> Dr. Oscar Coto
3:00 - 3:30	Closing Remarks	Miss Leonie Barnaby Mr. Byron Chiquinga
END OF DAY TWO		