

Agenda item 4.1.

Paragraph 26 of the annotated agenda

“Guideline: Use of the CDM in urban sectors”

CDM EB 102

Bonn, Germany, 25 to 28 March 2019



Procedural background

- EB 97 took note of the information note titled "CDM in urban sectors", and requested the MP to continue the work on
 - ✓ guidelines for developing CDM projects in the urban context
 - ✓ best-practice examples in a PoA-DD template
 - ✓ standardization of parameters



Purpose

The purpose is to facilitate the development of CDM project activities and PoAs in the urban context.



- The draft guidelines contain the following:
 - a) List of CDM methodologies applicable to city-based mitigation programmes;
 - b) Standardization of parameters;
 - c) Consideration of cross effects;
 - d) Best-practice examples in a PoA-DD template



Guidelines: Use of the CDM in the urban sectors

a) List of CDM methodologies applicable to city-based mitigation programmes;

Tables 1, 2 and 3 provide a list of methodologies:

- ✓ Urban - Transport
- ✓ Urban - Household & Building energy generation and energy efficiency
- ✓ Urban – Waste management and wastewater

Table 1. List of CDM methodologies relevant to Urban - Transport

Measure	CDM methodology
Bicycles, tricycles, e-bikes or e-tricycles	AMS-III.BM. Lightweight two and three wheeled personal transportation
Bus systems	AM0031 Bus rapid transit projects
Mass rapid transit systems	ACM0016 Mass Rapid Transit Projects AMS-III.U. Cable Cars for Mass Rapid Transit System (MRTS)
Energy efficiency	AMS-III.C. Emission reductions by electric and hybrid vehicles AMS-III.AA. Transportation Energy Efficiency Activities using Retrofit Technologies AMS-III.AP. Transport energy efficiency activities using post - fit Idling Stop device AMS-III.BC. Emission reductions through improved efficiency of vehicle fleets
Fuel switch	AMS-III.S. Introduction of low-emission vehicles/technologies to commercial vehicle fleets AMS-III.T. Plant oil production and use for transport applications AMS-III.AK. Biodiesel production and use for transport applications AMS-III.AQ. Introduction of Bio-CNG in transportation applications AMS-III.AY. Introduction of LNG buses to existing and new bus routes
Transportation of cargo	AM0090 Modal shift in transportation of cargo from road transportation to water or rail transportation
Transportation of liquid fuels	AM0110 Modal shift in transportation of liquid fuels
Technology for improved driving	AMS-III.AT. Transportation energy efficiency activities installing digital tachograph systems to commercial freight transport fleets AMS-III.BC. Emission reductions through improved efficiency of vehicle fleets



b) Standardization of parameters;

Some examples of parameters in methodologies that could be standardized in accordance with the SB Procedure.

Table 4. Examples of parameters that may be standardized

Sector/Measure	CDM methodology / tool	Parameters	Possible data sources for standardization of parameters
Electricity generation	TOOL07: Tool to calculate the emission factor for an electricity system	CO2 emission factor of the electricity system	Official report/statistics
Energy-efficient refrigerators and air-conditioners	TOOL29: Determination of standardized baselines for energy-efficient refrigerators and air-conditioners	Baseline energy consumption	See requirements in TOOL29
Energy efficiency measures in buildings	TOOL31: Determination of standardized baselines for energy efficiency measures in residential, commercial and institutional buildings	CO2 emissions per m2 for different building categories	Surveys
Energy-efficient Lighting	AMS-II.C.: Demand-side energy	Utilization hours	Surveys, literature, peer-reviewed official



c) Consideration of cross effects;

- “Appendix 1. Instructions for the consideration of cross effects for the application of multiple methodologies for programmes of activities” of CDM Project Standard for PoAs.
- Examples for combinations of the measures/methodologies that may result in cross-effects are illustrated.
 - Two energy-efficiency measures (efficient lighting devices + lighting control efficiency) in a building



d) Best-practice examples in a PoA-DD template

- Based on EB97 guidance on the information note, Meth Panel prepared the PoA-DD template on the mitigation measures applicable for **buildings**.
- Appendix 1: BP example PoA-DD
- Appendix 2: BP example CPA-DD

Technology/Measure	Methodology reference
Roof-top solar PV/WEG,	AMS-I.F Renewable electricity generation for captive use and mini-grid
Solar water heating system	AMS-I.J – Solar water heating systems
Energy efficient equipment/appliances	AMS-II.E – Energy efficiency and fuel switching measures for buildings
	AMS-II.C – Demand-side energy efficiency activities for specific technologies
	AMS-II.Q – Energy efficiency and/or energy supply projects in commercial buildings
Energy efficient lighting	AMS-II.J – Demand-side activities for efficient lighting technologies
	AMS-II.N – Demand side EE activities for installation of EE lighting and/or controls in buildings
Energy efficient space heating	AMS-II.R – Energy efficiency space heating measures for residential buildings



Guidelines: Use of the CDM in the urban sectors

General guidance
from PoA-DD
guidelines

Specific guidance
for urban CDM
PoA-DD

A.4. Coordinating/managing entity

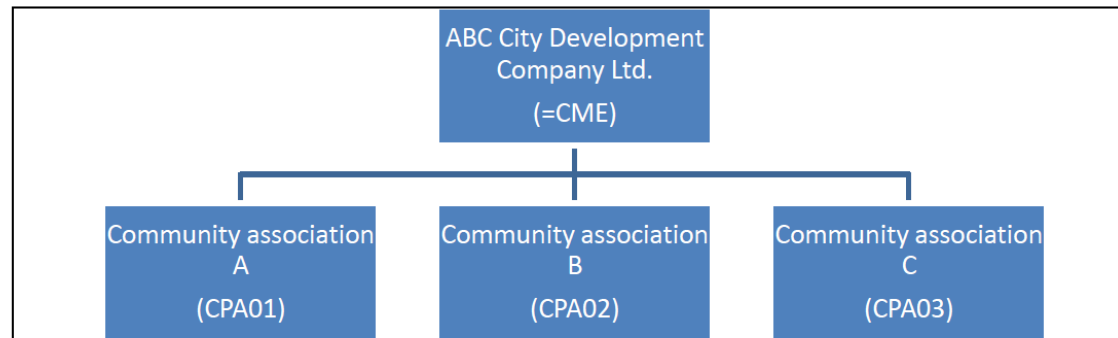
1. Provide the name of the coordinating/managing entity of the PoA and provide its contact information in Appendix 1 below.

Specific guidance: The CME should be an organization with administrative responsibilities at the city, sub-city or province level. Examples of appropriate CMEs include the municipality, special purpose company for managing infrastructure, provincial development authorities etc. The organization should have a mandate for regulating/administering various sectors covered under this PoA, e.g. building permits, power distribution, town planning. The organization could have sub-offices at the CPA level. For example; a municipality or city development organization could act as CME of the PoA and their branch offices as the CPA organizers. This would be based on laws and practices prevalent in the host country or its provinces.

Example:

ABC City Development Company Ltd.

The possible structure of the coordination/management of the PoA is indicated below:



Communities or administrative sub-divisions of the city may form CPAs, and community association to be the CPA proponents.

Examples



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Impacts

The proposed guidelines will facilitate the development of CDM project activities and PoAs in urban sectors.



Recommendations to the Board

The MP recommends that the Board approve this draft new guidelines, to be made effective at the time of the Board's approval.

