

# Session 7: CDM projects baseline and additional, Standardized baselines development

**CDM Training Workshop for DNAs and Stakeholders in Pakistan**  
Islamabad, Pakistan, 21+22 August 2017



## Key CDM concepts

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- Baseline and additionality
- Emission reductions
- Sustainable development
- CER price and demand



# Standardized baseline

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What is standardized baseline?

- Baseline established for a Party or a group of Parties to facilitate the calculation of emission reductions and removals; and/or
- Used for determination of additionality for CDM project activities, while providing assurance for environmental integrity.

Why SBs?

- Important strategy for **promoting access** to CDM projects and PoAs and wider mitigation actions in developing countries and sectors through **simplification in developing baseline, baseline factors** and or **additionality**
- Baseline, baseline factors developed using SBs can be used for wider mitigation actions under **CDM, NAMAs and NDCs**
- SB is a **reliable and recognized tool** that offers a **transparent means** to develop **baseline or baseline factors** for MRV purpose of mitigation outcomes



# The concept

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## CDM Methodologies/ tools

- Specific project boundary
- **Project-specific** baseline to be determined
- **Project-specific** demonstration of additionality

## Standardized Baselines (SBs)

- Sector-specific standards (regional, national, or international)
- Pre-determined **Sectoral** baseline
- Pre-determined additionality using positive list



# Approaches to develop SBs

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- The approach of the “**Guidelines** for the establishment of sector specific standardized baselines”;
- A methodological approach contained in an approved, proposed new or revised baseline and monitoring **methodology**;
- A methodological approach contained in an approved, proposed new or revised **methodological tool**; or
- The approach of the “**Guideline**: Establishment of standardized baselines for afforestation and reforestation project activities under the CDM”.



# SB process – bottom - up

- Submitted using an approved methodology, tool or SB guidelines.
- For any other approach, use the submission procedure for PNM or revision of methodology/tool.
- Who can submit? through DNA
  - ✓ Parties
  - ✓ PPs
  - ✓ International industry organizations
  - ✓ Admitted observer organizations
- Documentation required for submission:
  - ✓ CDM-PSB form
  - ✓ Assessment report, and
  - ✓ Letter of approval from DNA(s)
  - ✓ Additional documentation supporting submission (e.g. relevant data and documents including a quality control report, statistics, studies, etc.)

For submission by group of Parties, the approval of all DNAs is required, and any one of DNAs can submit and act as focal point.



# SB process – assessment report

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- ❖ **Assessment report** by:
  - **DOE** contracted by DNA, or
  - **Secretariat (up to first 3)** submissions for
    - ✓ Under represented Party
    - ✓ Group of Parties, where all Parties are under represented.
- ❖ The DNA of **under represented Party** may **decide to omit** the submission (up to first 3) of assessment report, in such cases **Secretariat** will prepare the same.
- ❖ **No fee** is payable for SB submission.



## SB process – top - down

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- SB initiated by the Board (proposal by secretariat following the receipt of an expression of interest by the DNA(s) of a Party(ies) using an approved methodology, tool or SB guidelines.
- DNA(s) submits:
  - DSB development agreement (CDM-DSBA-FORM)
- Secretariat prepares a draft development plan of the DSB (CDM-DSBP-FORM), in consultation with the DNA(s)
- Secretariat prepares SB in accordance with the development plan.





# SB Process – revision, clarification and update

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- Revision:
  - Submitted by a proponent, through DNA (with forms, revised SB, LoAs, assessment report, if applicable) – bottom up
  - Decided by Board – top down
- Clarification:
  - Submitted by proponents, DNA, DOE or any other stakeholder (using form)
  - DNA is notified of the receipt of the request for clarification
  - Decided by Board to issue clarification
- Update:
  - Submitted by a proponent, through DNA (with forms, updated SB, LoAs, assessment report, if applicable)
  - Submission between 270 to 180 days prior to the date when the validity of the current standardized baseline expires



# QA-QC guidelines

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- Applicable to collection, processing, compilation and reporting of data needed for the SBs.
  - **DNAs** develop or validate the datasets used for the establishment of standardized baselines;
  - **DOEs** assess the quality of the data management system of the DNA rather than checking the quality of a specific set (or sets) of data.
  - **Project participants** or **other entities** (Parties as well as international industry organizations or admitted observer organizations) develop standardized baselines.
- QA/QC Guidelines include the quality control (QC) procedures for assessing the quality of a given datasets and the quality assurance (QA) procedures for ensuring the overall quality of the datasets.
- The guidelines establishes data quality objectives to be achieved by QA/QC system established by DNA.
- The guidelines describes the general provisions that QA/QC system must have.
- The guidelines establishes the requirement of documentation needed.



# Present Status

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- **35 SBs** in total are approved, only 3 from Asia-Pacific
- **15 bottom up** and **8 top down** submissions are under processing, one from Asia-Pacific

Sectors covered are:

- ✓ Electricity generation
- ✓ Rural electrification
- ✓ Cement
- ✓ Charcoal
- ✓ Waste (LFG flaring and electricity/power generation)
- ✓ Rice mill
- ✓ Rice cultivation
- ✓ Cook stoves
- ✓ Forestry



## RCC support

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- RCC Bangkok provides following support:
  - a) Capacity building of DNA and relevant national stakeholders
  - b) Direct technical support to develop, revise or update the SB
  - c) Facilitate the expression of interest process for top-down
  - d) Provide clarification to understand the issues identified by DOEs



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Experience of developing standardized  
baselines based on grid emission  
factors





## Outline

- Turning GEF into approved SBLs
- DNA role
- Required data
- RCC assistance



# Turn GEF into approved SBL

- 20 DNAs in AP published GEF;
- None GEF in AP has become approved SBL;
- Improve reliability;
- Can be used for not only CDM, but NAMAs, INDCs, GCF proposals, etc.

## Grid emission factor

East Asia: China, Republic of Korea, DPR Korea, Mongolia

Southeast Asia: Viet Nam, Thailand, Indonesia, Philippines, Malaysia, Cambodia, Laos, Laos and Thailand, Singapore, Myanmar and China

South Asia: Pakistan, Sri Lanka, Bangladesh, Bhutan and India, Bhutan, India

Pacific: Fiji, Papua New Guinea

## Approved standardized baselines

Grid emission factor for the Southern African power pool

Grid emission factor for the Republic of Uzbekistan

Grid emission factor for the Belize national power grid

Grid emission factor for the national power grid of Uganda

Grid emission factor for the electricity system of the Republic of Armenia

Emission factors for central grid and regional mini-grids of the Gambia

Grid emission factor for the Dominican Republic

Rwanda grid emission factor

Grid emission factor of Mauritius

Grid emission factor of Sao Tome and Principe

Grid emission factor for the Republic of Sudan



# The role of DNA

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- CDM-PSB-Form (Version 3.0): Proposed Standardized Baseline Submission Form
- GEF calculation sheet
  - *Tool to calculate the emission factor for an electricity system*
  - *Table to calculate the emission factor for an electricity system (excel sheet)*
- GEF report
- Quality control report





# Required data

Electricity system	Name of Power Unit/country	Date Commissioned	CDM projects	Installed Capacity (MW)	Installed transmission line capacity (kV)	Fuel Type	Technology	Net electricity generation (MWh)					Fuel consumption for electricity generation (t, mass or volume)		
		Year						2011	2012	2013	2014	2015	2013	2014	2015
System 1	Plant 1	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 2	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 3	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 4	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 5	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 6	XXXX	CDM	XXXX	XXXX	Wind		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 7	XXXX		XXXX	XXXX	Import		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
System 2	Plant 8	XXXX	CDM	XXXX	XXXX	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 9	XXXX		XXXX	XXXX	Import		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
System 3	Plant 10	XXXX	CDM	XXXX	XXXX	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 11	XXXX		XXXX	XXXX	Diesel	Oil - Open cycle	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 12	XXXX		XXXX	off-grid	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 13	XXXX		XXXX	XXXX	Diesel	Oil - Open cycle	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 14	XXXX		XXXX	off-grid	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 15	XXXX		XXXX	XXXX	Diesel	Oil - Open cycle	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 16	XXXX		XXXX	off-grid	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 17	XXXX		XXXX	off-grid	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 18	XXXX		XXXX	off-grid	Hydro		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 19	XXXX		XXXX	off-grid	Solar		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 20	XXXX		XXXX	XXXX	Diesel	Oil - Open cycle	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 21	XXXX		XXXX	XXXX	Diesel	Oil - Open cycle	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 22	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
System 4	Plant 23	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
	Plant 24	XXXX		XXXX	XXXX	Lignite	Coal - Subcritical	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX



## RCC assistance

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- Let us know your interest
  - Prioritize those countries that had less than 10 CDM projects and activities as of 31 December, 2010
- Check the completeness of data
- Support the calculation of GEF as well as the preparation of the GEF report and CDM-PSB Form
- Support the whole process of submission until approval



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View Reports

Create a report

FAQs



## Sustainable Development co-Benefits tool (SD Tool)

The SD Tool is a user-friendly survey used to create a detailed report describing the Sustainable Development co-Benefits of CDM projects and programmes of activities (PoA) for submission to the UNFCCC secretariat for publication online.

The SD Tool is available to CDM project participants and coordinating/managing entities for use on a voluntary basis. The published reports are available to everyone online.

<http://cdmcobenefits.unfccc.int/Pages/Create-a-report.aspx>

# SD Tool

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- The sustainable development (SD) tool enables Clean Development Mechanism (CDM) project developers to showcase the sustainable development benefits of their projects and programmes of activities.
- The tool contains a short survey about the project's co-benefits, which is used to create a detailed sustainable development co-benefits report that is then published on the UNFCCC's website for public access
- [Questionnaire](#)



# SD Tool

- <http://cdmcobenefits.unfccc.int/>
- <http://cdmcobenefits.unfccc.int/Pages/SD-Reports.aspx>



## CDM Sustainable Development co-Benefits description reports

These reports were prepared by CDM project participants and coordinating/managing entities to describe the Sustainable Development co-Benefits of their projects and programmes of activities in a consistent and structured way. The reports were prepared voluntarily, using the Sustainable Development co-Benefits tool (SD tool).

SDC descript... report	Pre-regi... reference	Registr... reference number	Project Title	Type	Sectoral scope(s)	Host country (ies)	Submitt... ▼	Published	Valid until	Report publicat... number ▼
					Energy industries					



# United Nations Framework Convention on Climate Change

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THANK  
YOU



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