Session 1.2: Post-registration changes

Post-registration changes – “Issuance” and “Approval” Tracks

Training-Workshop on CDM Post-registration Changes (PRCs)
and Programme of Activities (PoAs)
12-14 February 2014 - Pretoria, South Africa

Outline

- PRC - Introduction
- PRC - Types
- PRC that do not require prior approval by the Board
- PRC that require prior approval by the Board
- References

PRC - Introduction

WHAT - actual or proposed changes to the operation, implementation and/or monitoring of the registered CDM project activity/ PoA.

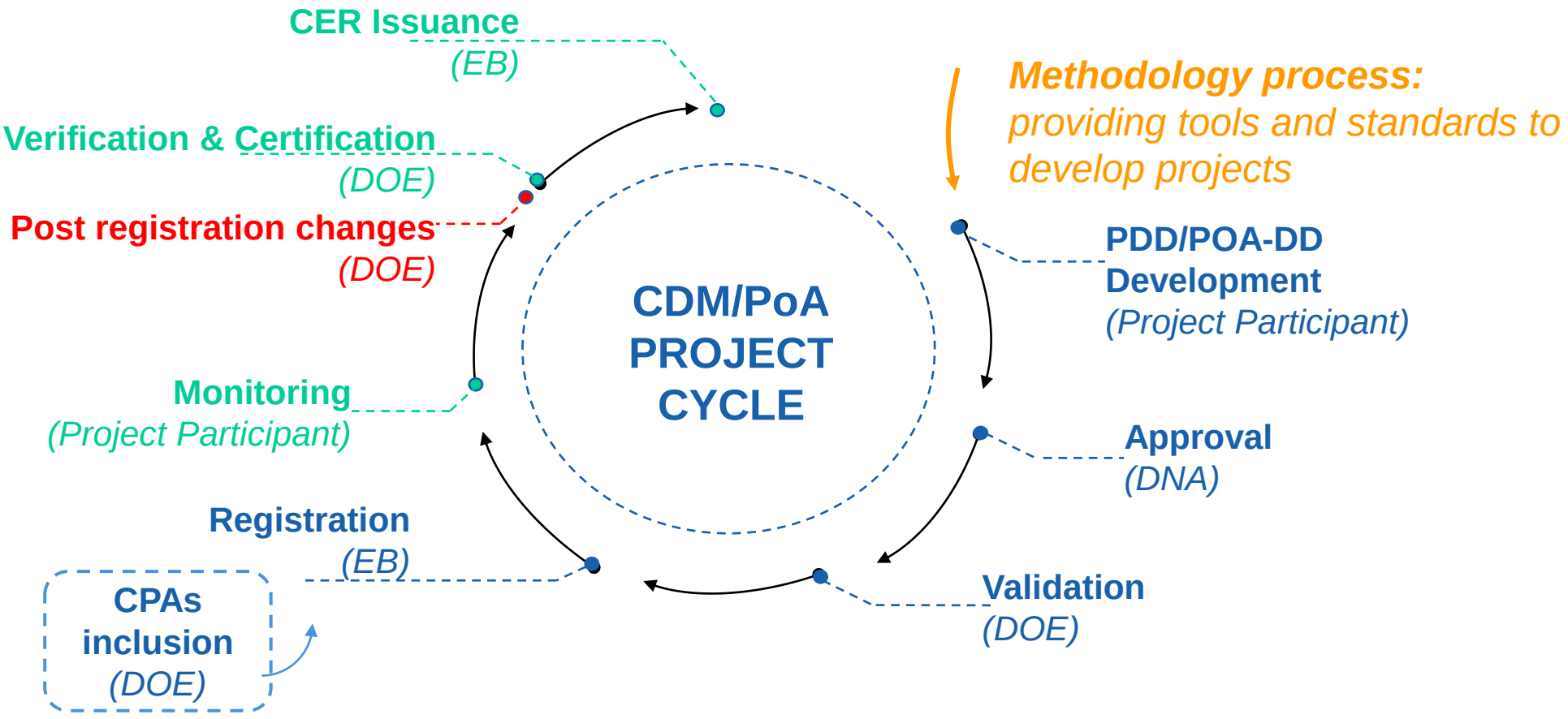
WHY - Allows project participants to make adjustments to the PDD/POA-DD/CPA-DD due to factors that were not foreseen when preparing the PDD/POA-DD/CPA-DD while ensuring that the CDM project activity or PoA still comply with the CDM requirements.

WHEN – After registration of the CDM project activity or PoA. Prior or within a verification request.

HOW – Submission by a DOE. With or without Board approval, i.e., prior approval and issuance track requests.

To date more than 654 projects submitted PRC request (prior approval and issuance track requests)

CDM Project cycle



PRC types

PRC - Types

Registered Project Activity

PRC

- **Temporary deviation from the monitoring plan or the applied methodology**
- **Permanent changes**
  - **Corrections**
  - **Changes to the start date of the crediting period**
  - **Permanent changes to the monitoring plan**
  - **Changes to the project design**

PRC may or may not require the prior approval of the CDM EB

PRC - Types

Registered A/R Project activity → PRC

- Changes specific to afforestation or reforestation project activities

PRC does not require the prior approval of the CDM EB

Registered PoA → PRC

- PRC applicable to CDM project activities
- Addition of host Parties
- Update of eligibility criteria
- Inclusion of specific case CPA-DDs
- Removal of methodologies from the POA

PRC may or may not require the prior approval of the CDM EB

PRC that do not require prior approval

(Project Standard version 5.0 Appendix 1)

PRC that do not require prior approval by the Board

Temporary deviations (TDEV)

- parameters are reported as zero; or
- source of emissions is assumed having operated at maximum capacity for the period

Registered PDD	Monitoring Report	PRC
Thermocouples (used for measuring Tcombust and Tflare) to be replaced every year as they cannot be calibrated	The thermocouples were not replaced as per the frequency described in the monitoring plan.	For the period with thermocouples with expired calibration, the measured temperature has been considered as 0^0C for the determination of flare efficiency. Further, the methane destructed by the project activity from flaring is also considered nil during this period.
Electricity meters monitor the electricity consumed from the backup diesel generator (EGdg,y)	The meter measuring EGdg,y was not installed	EGdg,y was calculated considering the diesel generator operating at maximum capacity for the full period of the missing data. Additionally, the PP has included an addition of 10% to account for transmission and distribution losses

PRC that do not require prior approval by the Board

Corrections (CORR)

Any correction to project information that do not affect the project design

Registered PDD	Monitoring Report	PRC
CEFelec listed as ex-ante and ex-post monitored parameters is an ex-ante parameter	CEFelec is an ex-ante parameter	CEFelec is removed from the list of ex-post ante parameter
Name of substation the wind farm is connected to is Lalpur (Dharampur)	Name of substation is Rasaliya (Kotda Jadodar)	Name of substation is corrected in line with real situation
$PE_{Biomass,CH4,y} = EF_{CH4,BF} \times \Sigma BF_{k,y} \times NCV_k$	$PE_{Biomass,CH4,y} = GWP_{CH4} \times EF_{CH4,BF} \times \Sigma BF_{k,y} \times NCV_k$	Global warming potential for methane (GWP_{CH4}) is added to the equation

PRC that do not require prior approval by the Board

Permanent changes to the registered monitoring plan or applied methodology (CGMPMETH)

- Monitoring equipment installed has a lower accuracy level than stipulated in the methodology/monitoring plan and equipment is in PP control: monitored values adjusted by accuracy difference
- Change of calibration frequency/practice not in PP control
- Change of accuracy/type/model of meter(s) as per PPA
- Change of location of meter(s) as per PPA

Registered PDD	Monitoring Report	PRC
Calibration of meters annually	Calibration of meters once in three years	Calibration of meters is up to the Grid Company, not in control of PPs
Main electricity meter (M1) installed at the substation	Main electricity meter (M1) installed at the project site	As per PPA, the quantity of electricity import/export is measured at the project site
Meter accuracy is 0.2S	Meter accuracy is 0.5S	Measurements are adjusted by ± 3%

PRC that do not require prior approval by the Board

Changes to the project or programme design (CGPD)

The changes do not change the original conclusion in the Validation Report with regard to:

- applicability and application of the applied methodology;
- additionality of the project activity; and
- scale of the project activity.

Registered PDD	Monitoring Report	PRC
Use of a back-up diesel generator is not described	Use of a back-up diesel generator and fuel consumption reported	Update of project boundary, monitoring parameters and PE calculation to take account of fossil fuel consumption
Biomass plant operation hours is 5,600 h/y / Auxiliary power ratio 12.63% / Electricity generation 195,000 MWh / Biomass consumption 297,360 t wet	Biomass plant operation hours is 7,920 h/y / Auxiliary power ratio 6.64% / Electricity generation 234,000 MWh / Biomass consumption 383,063 t wet	Methodology ACM0006 still applicable. The project is and remains a large scale project activities. Revised investment analysis still show project IRR lower than benchmark

PRC that do not require prior approval by the Board

Changes specific to afforestation or reforestation project activities (CGAR)

Changes as listed in the "Guidelines on accounting of specified types of changes in A/R CDM project activities from the description in registered project design document"(EB 66 Annex 24).

Changes to the start date of the crediting period (CHGCP)

Allowed only once per registered CDM project activities or CPA:

- one (1) year earlier but not earlier than registration date;
- one (1) year later for non-LDC hosted projects; or
- two (2) years later for LDC-hosted projects.

PRC that require prior approval

PRC that require prior approval by the Board

Temporary deviations (TDEV)

- Conservative assumption or discount factor not leading to overestimation of ER

Registered PDD	Monitoring Report	PRC
Electricity consumed by cement plant monitored by meter installed at the project site	No meter installed at project site. Electricity consumption determined by applying estimated transmission losses (TL) to electricity generation measured at the power plant	TL estimated by independent third party. TL can be considered zero as per "Tool to calculate baseline, project and/or leakage emissions from electricity consumption". Hence, conservative approach
$COD_{y,ww,untreated}$ and $COD_{y,ww,runoff}$ monitored on a monthly basis as average value of 4 weekly samples of COD analysis from in-house laboratory and 1 sample of COD analysis from third-party accredited laboratory	$COD_{y,ww,untreated}$ and $COD_{y,ww,runoff}$ have not been monitored consistently on a weekly basis by the internal laboratory (some analysis missing)	$COD_{y,ww,untreated}$ determined using the lowest measured data in the period. $COD_{y,ww,runoff}$ determined using the highest measured data in the period

PRC that require prior approval by the Board

Permanent changes to the registered monitoring plan or applied methodology (CGMPMETH)

- Inclusion/exclusion of parameters, or change of measurement methods
- Other changes not covered by Appendix 1 to the Project Standard

Registered PDD	Monitoring Report	PRC
Use of a back-up diesel generator is not described	Use of a back-up diesel generator and fuel consumption reported	Parameters relevant to the calculation of PE from fossil fuel consumption are included in the Monitoring Plan
Electricity generation measured at the substation meter $EG_{project,y} = Ex_{sub} – Imp_{sub}$	Substation meter shared with another power plant	Change of calculation of electricity introducing an apportioning system $EG_{project,y} = Ex_{sub} \times Ex_{project} / (Ex_{project} + Ex_{other}) – Imp_{sub}$
methane content in biogas ($W_{CH4,y}$) and the volumetric fraction of methane content in the residual gas ($fv_{CH4,RG}$) monitored in a frequency that provides a 95% confidence level	monitoring frequency will be determined through a statistical analysis to assure a 90% confidence level and 10% precision, and at least monthly	PDD revised to assure a 90% confidence level and 10% precision, which meets the requirement of AMS-III.D version 17

PRC that require prior approval by the Board

Changes to the project or programme design (CGPD)

The changes affect:

- applicability and application of the applied methodology (If compliance with the requirements of the applied methodology cannot be demonstrated, PDD shall be revised applying the latest version of the methodology or another methodology);
- additionality (if changes affect the additionality, the demonstration of the impacts of changes shall be based on all original input data);
- scale of the project activity.

Registered PDD	Monitoring Report	PRC
Installed capacity of the LFG power plant is 3MW / project IRR -4.22%	The implemented installed capacity is 3.5MW	The resulting project IRR is -0.06%, which is below the validated benchmark of 19.34%. ACM0001 still applicable. Project scale is not affected.
Duration of composting process 10-12 weeks / waste shredding before composting	Duration of composting process 6-7 weeks / waste shredding after composting	No impact on the original investment analysis (same compost selling price, no increase of compost production, increased O&M costs). Estimated ER are still under the limit of 60ktCO2e/year. AMS-III.F still applicable.

PRC that require prior approval by the Board

Changes to the start date of the crediting period (CHGCP)

Allowed only once per registered CDM project activities or CPA:

- More than one (1) year, but less than two (2) years for non-LDC projects; or
- More than two (2) years but less than four (4) years for LDC projects.

No changes have occurred that would result in a less conservative baseline.

Substantive progress has been made to start the project activity

References

- CDM Project Standard, version 5.0 (CDM-EB65-A05-STAN), para 209 – 228, 240

https://cdm.unfccc.int/filestorage/e/x/t/extfile-20131011143951951-reg_stand01.pdf/reg_stand01.pdf?t=UVp8bXp1djVqfDBJO0ZK43F9nySuni_YjpHn

- CDM Project Cycle Procedure, version 5.0 (CDM-EB65-A32-PROC), para 130 - 157

https://cdm.unfccc.int/filestorage/e/x/t/extfile-20131010174237757-pc_proc01.pdf/pc_proc01.pdf?t=cUx8bXp1dmExfDDvnIkxJKO0rUkXed5Bux0u

- Guidelines on accounting of specified types of changes in A/R CDM project activities from the description in registered project design documents, version 02.0

https://cdm.unfccc.int/Reference/Guidclarif/ar/methAR_guid32.pdf

Thank you

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