



2nd CDM Capacity Building Workshop in the Pacific

Jyoti P. Painuly

UNEP RISOE Centre

27-30 June 2011, Suva, Fiji











➤ Pitfall refers to "issues that need to be managed" during a validation and registration process.

Based on DNV's findings from projects validated by them to September 2010.)

➤ More than 100 issues, grouped into 34 key validation pitfalls.











Key Validation Pitfalls

	Delay of more than 1 week	Delay of more than 1 month
Frequency more than 20%	 Lack of logic and consistency in PDD. Deviations from selected calculation methodology not justified sufficiently and not brought to the attention of DOEs at the initial stages of validation. Compliance with local legal requirements not covered sufficiently. Insufficient information on the stakeholder consultation process. Absence of baseline data. Poor quality of the PDD. 	 Start date of the project not correct. Lack of evidence of CDM consideration. Evidence of EIA and/or required construction/operating permits/approvals not provided. Letter of Approval insufficient or delayed. Extended delay by project developers to respond to CLs and CARs.











Key Validation Pitfalls

	Delay of more than 1 week	Delay of more than 1 month
Frequency less than 20%	 Project participants not clearly identified. The modalities of communication (MOC) with the Executive Board in terms of issuing CERs and allocation instructions are not stated clearly, or not signed by all project participants. Insufficient description of the technology. Insufficient explanation of baseline scenarios. Insufficient demonstration of project additionality. Baseline information not sufficiently supported by evidence and/or not sufficiently referenced. 	 Small-scale methodology selected for a large-scale project. No written confirmation that funding will not result in a diversion of official development assistance. Non-compliance with the applicability conditions of the applied baseline methodology or compliance not sufficiently explained. Incorrect start date for projects involving capacity expansions of operational non-CDM. Assigning inappropriate economic values to biomass residue and reference plant. No updated licenses and permits.
	 Major risks to the baseline not identified/ described. 	Baseline for PoA not appropriate.











Key Validation Pitfalls

Delay of more than 1 week	Delay of more than 1 month
Project boundaries not clearly defined.	
 Project and/or crediting period starting date unclear. 	
 Deviations from monitoring methodology not sufficiently justified. 	
 Monitoring and project management procedures not defined. 	
 Claims in the PDD do not match the actual situation on project site. 	
 Insufficient information on the measurement methods and source of data as part of data/parameter description in monitoring plan. 	
 Insufficient information on physical location allowing unique identification of the project activity. 	
 Inconsistency among CPAs. 	
Physical location of CPA not specific.	
 Crediting period of CPA starts before its inclusion. 	











Pitfall 1: Small-scale methodology selected for a large-scale project Small-scale:

- Type I: RE project activities up to 15 megawatts
- Type II: EE project activities up to 60 GWh per year
- Type III: Other project activities up to 60 kt CO2 eq. reductions per year

The thresholds provided for each type must be met for the entire crediting period of a project.

• Bundle of small-scale projects should not exceed the eligible limits.











Pitfall 2: Project participants not clearly identified

- A Party involved, which has indicated to be a project participants, or
- A private and/or public entity authorized by a Party involved to participate in a CDM project activity

Distribution of CERs exclusively decided by project participants.

Typically, consultants, DNAs and local municipalities do not have a share in the distribution of CFRs.











Pitfall 3: Evidence of EIA and/or required construction/operating permits/approvals not provided

Pitfall 4: Letter of approval insufficient or delayed

• Over 80% of all PDDs submitted for validation are not accompanied by a LoA from all relevant DNAs.

Pitfall 5: No written confirmation that funding will not result in a diversion of official development assistance

- Ideally from the relevant Annex I country DNA.
- Such a statement is only needed when public funding from an Annex I Party is used by the project.











Pitfall 6: The modalities of communication with the Executive Board in terms of CERs issuance and allocation instructions are not stated clearly, or not signed by all project participants

The communication statement ready before request registration

Pitfall 7: Insufficient description of the technology

- Provide vital information, avoid unnecessary details
- Wind energy: Type of turbine, its certification, load factor, total installed capacity and other important factors from feasibility study- wind conditions
- Landfill gas capture projects: Detailed components- flare efficiency, combustion engines











Pitfall 8: Non-compliance with the applicability conditions of the applied baseline and monitoring methodology or methodology compliance not sufficiently explained

• Eg. remaining lifetime of an equipment in fuel switch or EE

Pitfall 9: Insufficient explanation of baseline scenarios

- The identification of the *relevant and realistic baseline scenarios* is not always in line with the methodology.
 - Eg. in landfill gas projects, the possibility of selling off the gas to nearby industry facilities needs to be considered
 - In some cases the baseline scenario is quite different from what is selected as the baseline











Pitfall 10: Insufficient demonstration of project additionality

- All additionality information is public information including contracts with suppliers and loan agreements with banks.
- Barriers analysis: Description is not enough; the real impact of this barrier should be reflected; eg. in the financial analysis.
- Investment analyses should be reproduce-able. This includes an Excel file with calculations to DOE.
- Justification of all sources used for the analysis for the investment, discount rate, annual costs and revenues. Eg; if claim is 20% IRR needed, the company will need to make public the internal procedures and as evidence of all projects evaluated in the past, including investment analysis.
- Sensitivity analysis for critical parameters











Pitfall 11: Availability of financial parameters used for additionality

• Latest values, or ex-post values, if project already operational.

Pitfall 12: Baseline information not sufficiently supported by evidence and/or referenced sufficiently

Pitfall 13: Major risks to the baseline and project activity not identified/described

- Baseline risk for example more renewable electricity is added to the grid than expected at the validation stage, changes in law, baseline obsolete earlier than expected
- Project risks for example- operating lifetime shorter than crediting period, company in bad financial health, assumptions do not materialise











Pitfall 14: Absence of baseline data

• Mostly in the projects operational before registration- due lack of clarity or accuracy of the monitoring equipment used in the baseline

Pitfall 15: Lack of logic and consistency in the PDD

- Eg. Inconsistent arguments to support the additionality- trends in the energy sector
- The emission factors used in the baseline and in the project emission calculations not consistent
- GHG sources included in the baseline are excluded or inconsistent with GHG sources in the project emission calculations
- Inadequate references and links to justify assumptions in the PDD











Pitfall 16: Poor quality of the PDD

- Incorrect version methodology
- Incorrect version of the PDD template
- Monitoring plan not project-specific
- Detailed worksheet of emission reduction calculations not provided
- Use of IPCC default values when local values are available
- Insufficient discussion of technology and details of equipment
- Discussion on common practice barriers is too generic. Survey or study needed to substantiate the common practice claims

Pitfall 17: Claims in the PDD do not match the actual situation at project site

- The baseline data, characteristics of the project site; eg. gas sale possible
- Equipment different, monitoring not as claimed, quality control, training claims wrong











Pitfall 18: The project boundaries are not drawn appropriately or are missing some emission sources

- On-site or off-site emissions not clearly identified or estimated, or excluded such as fuel transportation, emissions outside the project boundary and fugitive emissions, N2O from combustion activities etc.
- Leakage *not properly considered- Eg. in bio*mass projects, potential effects on biomass availability for other users, in landfill projects, If the project does not generate electricity, emissions due to the use of equipment, in co-generation projects, if fuel is bagasse, what the organizations using bagasse will use.

Pitfall 19: Project and/or crediting start date unclear. Lack of evidence indicating prior CDM consideration

• Starting date- earliest date at which either the implementation or construction or real action of a project activity begins.











- If a project was stopped and restarted due to consideration of the benefits of the CDM, the cessation needs to be demonstrated- eg.cancellation of contracts or revocation of government permits.
- If gap between the start date of the project validation is significant, may need to justify how did project go ahead.

Pitfall 20: Starting date for projects involving capacity expansions of operational non-CDM project activity

- Limitations need to be demonstrated
- Additional investment needed- evidence of the date of the first financial commitment and CDM consideration











Pitfall 21: Insufficient information on the measurement methods and source of data as part of data/parameter description in monitoring plan

- Project-specific monitoring plan instead of coping the plan from the approved methodology
- Source of data, measurement methods, recording frequency should be stated **Pitfall 22: Monitoring and project management procedures not defined**
- Indicate clearly for project management, procedures for training of personnel, calibration, maintenance of equipments, reporting, record keeping etc.











Pitfall 23: Deviations from monitoring methodology not justified sufficiently

• Request for deviation should be included in PDD, be project-specific, and not deviate to the extent that a revision is needed

Pitfall 24: Deviations from selected calculations in the methodology not justified sufficiently or incorrect formulas applied

- Example- In anmal manure projects, deviation from recommended default emissions factors may need to be justified,
- In cases where country-specific values are available, the use of default IPCC values need to be justified.











Pitfall 25: Compliance with local legal requirements not covered sufficiently

Indicate compliance with host country laws and regulations.

Pitfall 26: Insufficient information on the stakeholder consultation process

- Local stakeholder involvement process is in line with the host country requirements
- All relevant stakeholders have been contacted.











Pitfall 27: Long delays in the validation process

- Delays after the draft validation- methodologies may change
- Provide all necessary documents at the PDD submission time

Pitfall 28: Insufficient information on physical location allowing unique identification of the project activity

- Specify location properly with details
- Latitude and longitude, map











Pitfall 29: Assigning inappropriate economic values to biomass residue and reference plant

- Cost of biomass and reference plant determination often an issue
- Disposal through incineration or landfilling means no economic value and should be reflected in investment analysis. Else need to demonstrate economic value.
- The reference plant relates to the common practice in the region, and important is the current practice.











PoA Validation Pitfalls

Pitfall 30: Inconsistency among CPAs

• Large number of CPAs included in the PoA, consistency can be a challenge. Inclusion criteria should not be too broad or ambiguous.

Pitfall 31: Physical location of CPAs not specific

Exact location of each project activity to avoid double counting











PoA Validation Pitfalls

Pitfall 32: Crediting period starts before inclusion

• Crediting start date in the CPA-DD should not be prior to the date when the CPA is included into a PoA. This may happen due to delay in validation.

Pitfall 33: No updated licenses and permits

• With large number CPAs, it could happen











PoA Validation Pitfalls

Pitfall 34: Baseline for PoA not appropriate

- Since PoAs often have a large project boundary covering one or more countries, the baseline scenario or many parameters in the baseline might vary from region to region. When establishing a baseline, the project developer should ascertain the boundary to which the baseline is applicable.
- Establish baseline scenarios for all regions or countries at the time of the PoA registration.

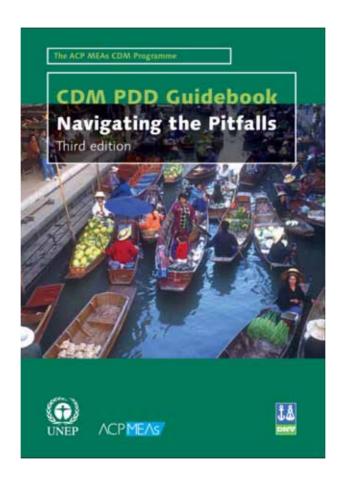






















Project website

www.acp-cd4cdm.org

Contact

Jyoti Painuly, jypa@risoe.dtu.dk

