

# Improving the sampling standard and guidelines

**Fourth CDM Roundtable**

Bonn, Germany, 8 June, 2012



## Introduction

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- EB 60 requested sampling guidelines and best practices examples covering large and small-scale projects and PoAs;
- EB 65 approved the “Standard for sampling and surveys for CDM project activities and PoAs”;
- EB 67 approved best practice examples for sample size and reliability calculations.



## Table of Contents of best practice examples

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### Sample size calculations for small-scale examples

- a) Proportional parameter of interest (Cook stove project);
- b) Mean value parameter of interest (CFL project);
- c) Mean value parameter of interest (Brick project);
- d) Continuous processes (Wastewater project).

### Sample size calculations for large-scale examples

- a) Proportional parameter of interest (Transport project);
- b) Mean value parameter of interest (Transport project).

### Reliability calculations

- a) Proportional parameter of interest (CFL project);
- b) Mean value parameter of interest (Cook stove project).



## Further work

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- EB 67 requested the secretariat and the joint task force of the SSC WG and the Meth Panel to continue the work to further improve the guidelines, for example
  - further examples to illustrate pragmatic ways to meet the reliability requirements
  - best practices examples for DOE validation/verification for sampling and surveys
- and to explore options to simplify the requirements in the sampling standard.



## Questions on sampling (1)

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### Draft revised standard for sampling and surveys for CDM project activities and programme of activities

- Regarding the relative precision of 10 percent i.e.  $\pm 10\%$ , the draft revised standard allows PPs to use the larger of the two proportions in the sample size calculation i.e.  $p$  or  $(1-p)$ .
- The draft also includes a new requirement on the minimum sample size defined below:
  - (i) 30 if  $N$  (i.e. population) is less than 500,
  - (ii) 50 if  $N$  is between 500 and 1000; and
  - (iii) 100 if  $N$  is more than 1000.

Q1: Are the proposed requirements appropriate?

Q2: Are there any areas of the sampling standard that need further elaboration or can be potentially simplified? For example does paragraph 19 (and footnote 13) related to sampling plan for a group of CPAs need further elaboration? If so what are the options to

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indicate homogeneity?

## Questions on sampling (1)

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### Best practice examples – dealing with failure to achieve reliability

- The draft document proposes some steps to follow when the required reliability is not met by sample data.

Q3: Are the proposed approaches and best practice examples for addressing the failed reliability practical and appropriate? Is there any section of the document which requires more clarification and examples?



## Questions on sampling (1)

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### Best practice examples – acceptance sampling

- The draft document provides examples on the process of selecting samples to validate/verify the PPs sampling plan.

Q4: Are the proposed approaches and best practice examples on acceptance sampling practical and appropriate? Is there any section of the document which requires more clarification and examples?

### Others

Q5: Is there any other area where best practice examples could be useful for PPs and DOEs?



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## Extra Slides





## Best practices examples: Public comments

Comment	Response/Recommendation
1. Absolute precision should be used when the parameter of interest is a proportion	Relative precision is maintained, however PPs should use the larger of the two proportions in the sample size calculation i.e. $p$ or $(1-p)$
2. Indicate sampling is conducted based on equipment, not based on the household	Addressed
3. A minimum sample size of 10 should be set	A min sample size of [30] or [a min sample size related to the population size to be defined] will be specified in the example and the standard (in the recommendation for revision in near future)
4. Additional examples for multistage sampling should be provided	Additional example will be included in a future document
5. Additional examples for the methane content should be provided	Stakeholders are encouraged to submit a proposal to include additional examples



## Best practices examples: Public comments

Comment	Response/Recommendation
6. clarify that the sample mean value is used for ER calculation	Addressed
7. Continue the process of simplification and consider differentiated sampling requirements depending on the amount of emission reductions	Subject to guidance from the Board work to identify simplification opportunities will continue
8. The document type should be clarified. Methods to deal with missed reliability targets should be included	The document is meant to serve as non-binding best practice examples. The following items will be covered in a future document; a) Methods to deal with missed reliability targets b) Best practices examples for DOE validation/verification for sampling and surveys

