

## Annotation Agenda #34

# **Revision of AMS-II.G: Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass**

## Revision of AMS-II.G (1):

### Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass

- **Indoor air pollution impact:** PPs encouraged to document indoor air pollution impact of the improved cook stoves designed and implemented by the project as compared to baseline stove
- **project boundary:** now “physical, geographical site of the efficient systems using biomass”, before it was “area of the use of non renewable biomass”
- **Biomass (used, saved etc.) :** Only woody biomass is considered e.g. for the quantity of biomass saved by the project (husks, leaves etc excluded from both the baseline and the project)
- **Baseline stove efficiency:**
  - New addition: “use weighted average values if more than one type of systems are encountered”
  - A new option added: option 1: measured using sampling methods; option 2: based on referenced literature values; **option 3: use default values**
  - **0.10 default value** may be optionally used if the replaced system is the three stone fire or a **conventional system** lacking improved combustion air supply mechanism and flue gas ventilation system i.e., without a grate as well as a chimney; **for rest of the systems 0.20 default value** may be optionally used.
- **Differentiation between Non-renewable and Renewable woody biomass:**
  - $NRB = \text{Qty of woody biomass used in the baseline (By)} - \text{DRB component}$ , so long as at least two of the following supporting indicators are shown to exist:

## Revision of AMS-II.G (2):

PPs shall determine the share of renewable and non-renewable woody biomass in ~~[deleted: the total biomass consumption]~~  $B_y$  (the quantity of woody biomass used in the absence of the project activity) using nationally approved methods (e.g., surveys or government data if available) and determine  $f_{NRB,y}$ . The following principles shall be taken into account:

Non-renewable woody biomass (NRB) is the quantity of woody biomass used in the absence of the project activity ( $B_y$ ) minus the **DRB component**, so long as at least **two** of the following supporting indicators are shown to exist ~~[deleted: A single indicator may not provide sufficient evidence that biomass in the region is non-renewable and therefore more than one indicator may be used]~~:

- Trend showing increase in time spent or distance travelled by users (**or fuel-wood suppliers**) for gathering fuel wood **or alternatively trend showing increase in transportation distances for the fuel wood transported into the project area**;
- **Survey results**, national or local statistics, **studies**, maps or other sources of information **such as remote sensing data that show that carbon stocks are depleting in the project area** ~~[deleted: Inference derived from historical data may also be used if available for this purpose]~~
- Increasing trends in fuel wood price indicating scarcity;
- Trends in the type of cooking fuel collected by users, suggesting scarcity of woody biomass.
- **Demonstrably Renewable woody biomass (DRB): Definition of renewable biomass is same as before** except that consideration of biomass residues and non fossil fraction of the municipal solid waste has been removed both from the baseline and the project.

## Revision of AMS-II.G (3)

- **Sampling:** Sample size chosen for 90% confidence interval and 10% margin of error for parameter values used to determine emission reductions, in cases where survey results indicate that 90/10 precision is not achieved the lower bound of a 90% confidence interval of the parameter value may be chosen as an alternative to repeating the survey efforts to achieve 90/10 precision.
- **Leakage under POAs:** Estimation if required on a sample basis using 90/30 precision for selection of samples:
  - Use of non-renewable woody biomass saved under the project activity to justify the baseline of other CDM project activities can also be potential source of leakage. If this leakage assessment quantifies a portion of non-renewable woody biomass saved under the project activity that is used as the baseline of other CDM project activity then By is adjusted to account for the quantified leakage.
  - Increase in the use of non-renewable woody biomass outside the project boundary to create non-renewable woody biomass baselines can also be potential source of leakage. If this leakage assessment quantifies an increase in use of non-renewable woody biomass outside the project boundary then By is adjusted to account for the quantified leakage.

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- Monitoring shall ensure that:
  - Either the replaced low efficiency appliances are disposed off and not used within the boundary or within the region; or
  - If the baseline stoves usage continues, monitoring shall ensure that the wood fuel consumption of those stoves is excluded from  $B_y$  in equation 2.