

Agenda item 3 d

Paragraph 46 a of the annotated agenda

Revision of AMS-I.I “Biogas/biomass thermal applications for households/small users”

CDM EB 61

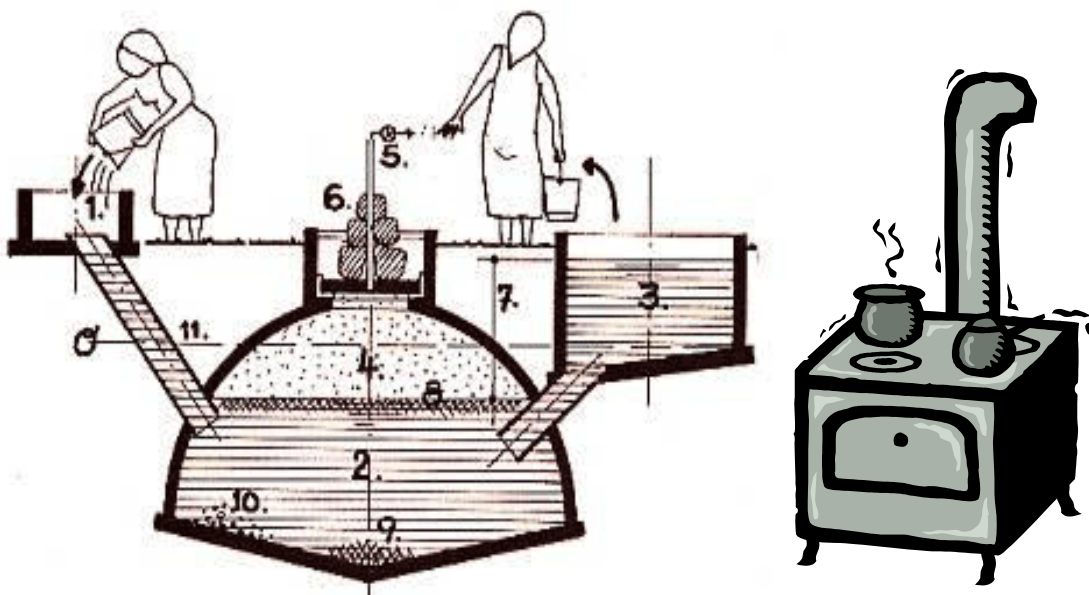
Bonn, Germany, 30 May to 3 June 2011



Revision of AMS-I.I Biogas/Biomass meth

- Initial adoption: EB 59, February 2011
- Not yet applied to CDM projects
- Revision triggered by SSC_529

Biogas Digester & Briquette Stove



Revision of AMS-I.I Biogas/Biomass meth

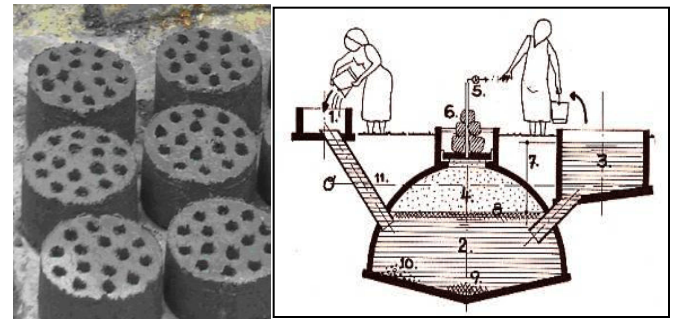
- Simplified options to measure/record fossil fuel use at households e.g. counting of fossil fuel units used (e.g. number of briquettes)
- Enable use of survey data cross-checked with purchase receipts for residential applications
 - a) 0.89 uncertainty factor for baseline and 1.12 for project applies
- Cross-check of reduced fossil fuel consumption with biogas generation determined from applied standard

Baseline: Coal for cooking



A

Project: biogas+ reduced Coal



B

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Paragraph 46 b of the annotated agenda

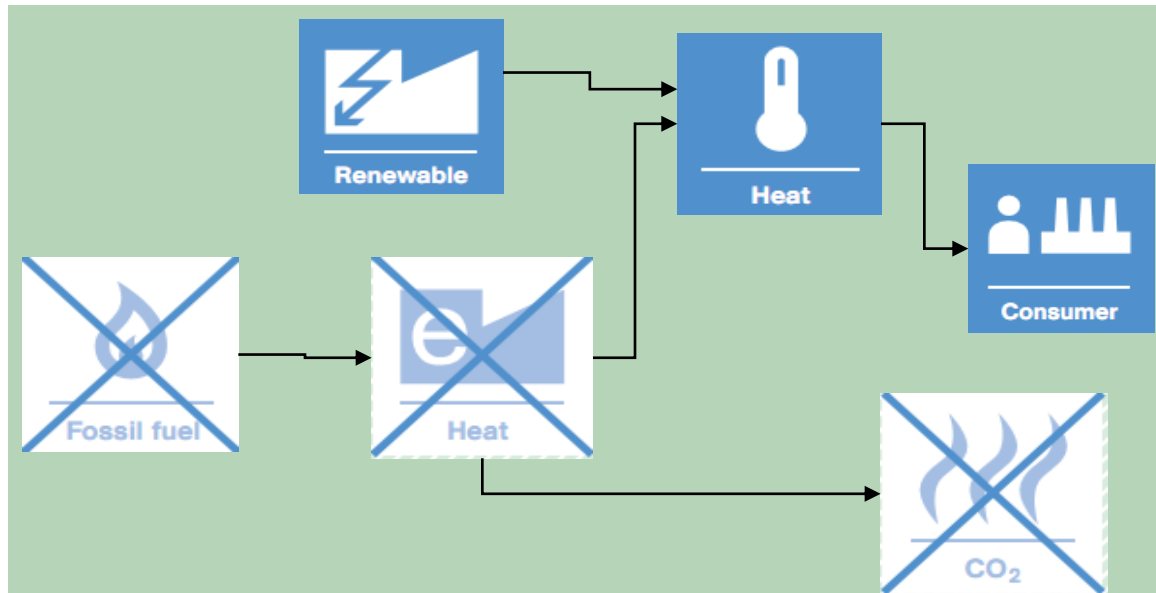
Revision of AMS-I.C “Thermal energy production with or without electricity”

CDM EB 61

Bonn, Germany, 30 May to 3 June 2011



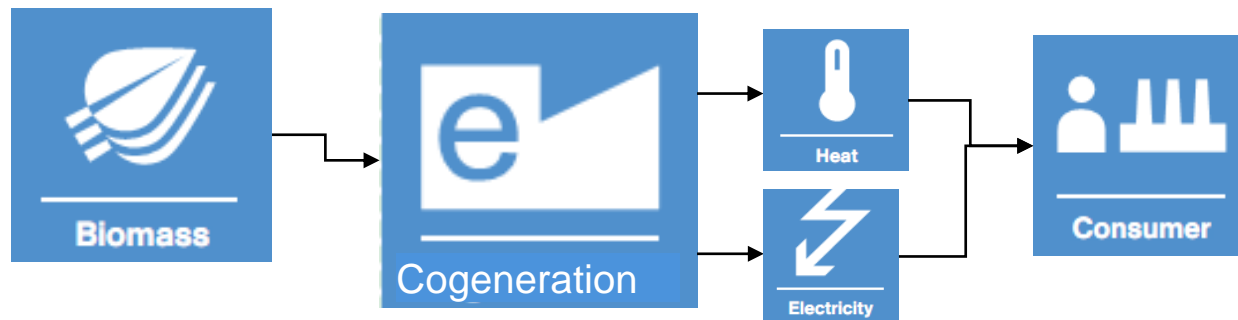
Revision of AMS-I.C “Thermal energy production with or without electricity”- Background



- ✚ Last revised: **EB 56, September 2010**
- ✚ PA registered: **125** PA Validating: **111**
- ✚ In response to PP submissions
 - a) SSC_532 & SSC_524
 - b) Past clarifications SSC_422, SSC_478, SSC_410, SSC_460 and SSC_517 accounted for;
 - c) Draft takes into account PP inputs

Revision of AMS-I.C “Thermal energy production with or without electricity”- Proposed changes

- ✚ Expanded applicability to biomass fired heat and power production
- ✚ Simplified monitoring procedure for biomass:
 - NCV (determined once in the beginning of CP)
 - Moisture content (fixed ex ante)
- ✚ Simplified procedure to cross-check measurements (e.g. qty of biomass and fossil fuel use with energy output)



Revision of AMS-I.C “Thermal energy production with or without electricity” – Proposed changes

- ✚ Data vintage for baseline emissions further clarified:
 - ✚ Performance test for PA with operational history but no historical data
 - ✚ If additionality demonstration results in a hypothetical baseline (i.e. not the historical consumption), baseline emission factor is lower of the two:
 - ✚ EF of fossil fuel that would have been used; and
 - ✚ EF of the fossil fuel that was used prior to the project implementation
- ✚ Further clarity on:
 - ✚ Consideration of emissions from biogas plants not included in the boundary
 - ✚ Sourcing of solid biomass fuel (e.g. bricket) and related emissions
- Definition of the Project boundary further elaborated

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Paragraph 46 c of the annotated agenda

Revision of AMS-I.D “Grid connected renewable electricity generation” and AMS-I.F “Renewable electricity generation for captive use and mini-grid”

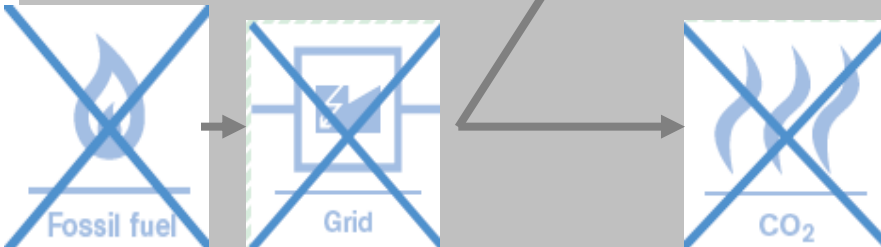
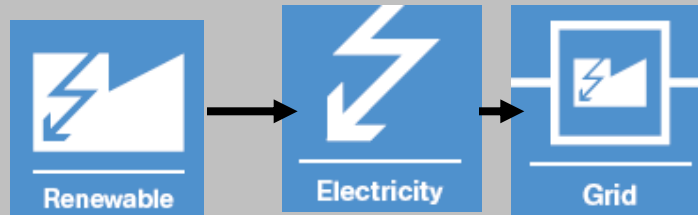
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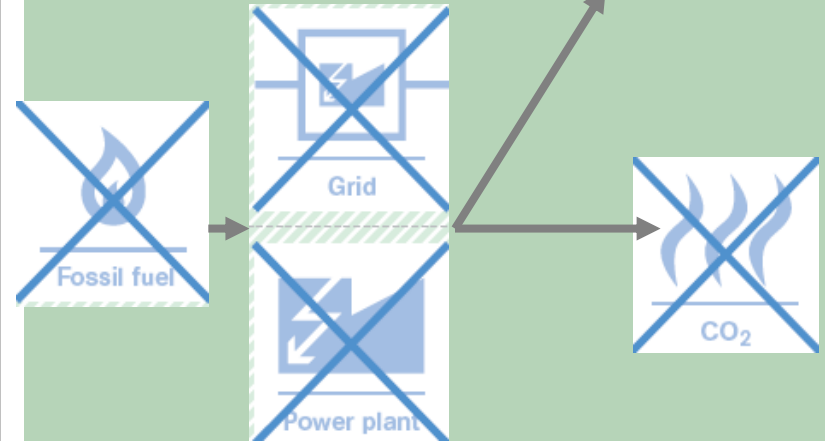
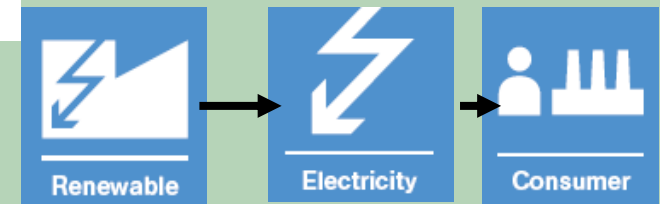


Revision of AMS-I.D and I.F - Background

AMS-I.D



AMS-I.F



✚ Last revised: **EB 54, May 2010**

✚ PA registered: I.D **944**; I.F **0**;

✚ PA Validating: I.D **2342** I.F **37**

✚ Triggered by **SSC_466, SSC_483, SSC_517; and SSC_521;**

✚ In consultation with the PPs



Features of I.D and I.F

AMS-I.D	AMS-I.F
RE supply to a national or regional grid	RE substitutes fossil fuel intensive grid/mini-grid and/or captive electricity
Combined margin or weighted average of current generation for Emission Factor (EF)	<p>Case 1: exclusively diesel electricity, default EF depending on load factor</p> <p>Case 2: mix of energy sources including grid, weighted average EF (captive electricity EF as per the “Tool to calculate baseline, project and/or leakage emissions from electricity consumption”)</p> <p>Case 3: EF of grid as per AMS-I.D</p>



Revision clarifies respective situations under which AMS-I.D, I.F and I.A applies

	Project type	AMS-I.A	AMS-I.D	AMS-I.F
1	Project supplies electricity to a national/regional grid		X	
2	Project displaces grid electricity consumption (e.g. grid import) and/or captive fossil fuel electricity generation at the user end (excess electricity may be supplied to a grid)			X
3	Project supplies electricity to an identified consumer facility via national/regional grid (through a contractual arrangement such as wheeling)		X	
4	Project supplies electricity to a mini grid system where in the baseline all generators use exclusively fuel oil and/or diesel fuel			X
5	Project supplies electricity to household users (included in the project boundary) located in off grid areas.	X		



Other changes

- ✚ Simplified monitoring procedure for biomass:
 - a) NCV (determined once in the beginning of CP)
 - b) Moisture content (fixed ex ante)

- ✚ Simplified procedure to cross-check measurements (e.g. qty of biomass and fossil fuel use with energy output)

- ✚ Definition of Project boundary further elaborated:
 - a) All power plants connected physically to the grid that the CDM project power plant is connected to is included;
 - b) For I.F, the project boundary is confined to renewable generating units in the case energy users are distributed and (e.g. residential users) supplied via a mini/isolated grid



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Revision of AMS-III.C “Emission reductions by electric and hybrid vehicles”

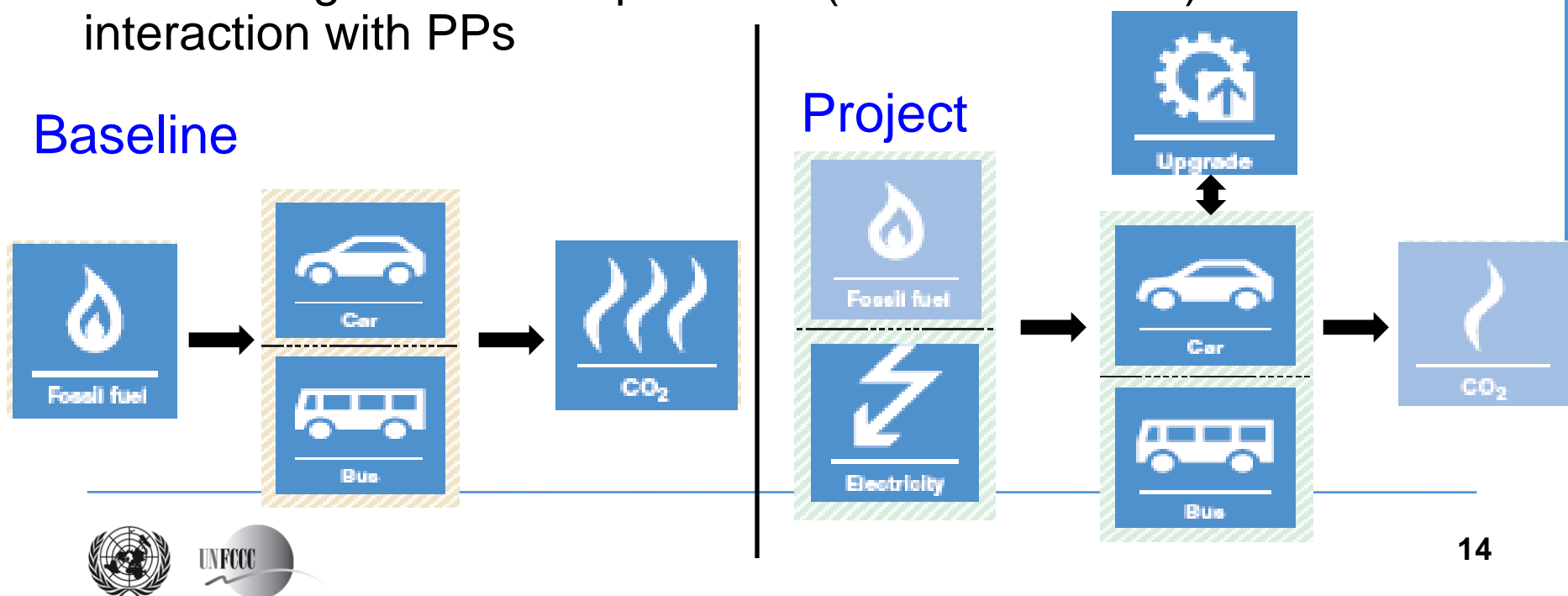
CDM EB 61

Bonn, Germany, 30 May to 3 June 2011



Revision of AMS-III.C “Emission reductions by electric and hybrid vehicles”- Background

- Last revised: **EB 55, July 2010**
- PA registered: **2** PA Validating: **13**
- Informed by “Practitioners workshop on the Improvement of CDM Methodologies for Transportation”(03 March 2011) and interaction with PPs



Revision of AMS-III.C “Emissions reductions by electric and hybrid vehicles”- Proposed changes

- ✚ Clarifies that passenger and freight transportation is covered
- ✚ Clarifies that ERs can be claimed by manufacturers; retailers and owners of the electric/hybrid vehicles
- ✚ Defines comparability of the project and baseline vehicles:
 - 1) same vehicle category;
 - 2) power & load vary no more than +/- 20%



Producer

or



Retailer

or



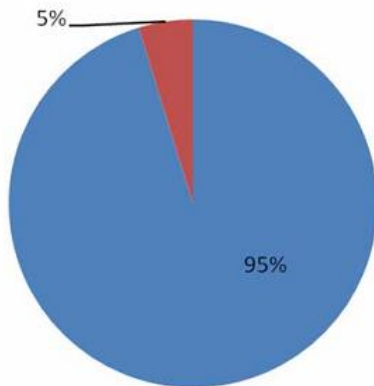
End user

Revision of AMS-III.C “Emissions reductions by electric and hybrid vehicles”- Proposed changes

+ Additionality procedure:

Option 1: barriers per regular SSC procedures (barriers of end users accepted also when the implementer is producer)

Option 2: market share of project vehicles = <5% of all motorized vehicles in the same category in the region



Revision of AMS-III.C “Emissions reductions by electric and hybrid vehicles”- Proposed changes

- ✚ Emission reduction based on:
 - a) Distance travelled by project vehicles;
 - b) Number of sold/registered vehicles discounted with:
 - % of vehicles not in use established by survey; OR
 - compound factor (year 1=0.9, year 2=0.81; year 10=0.35);
 - c) Average emissions per km
 - ✚ Sample measurement (90/10, lower bound);
 - ✚ Top 20% of vehicles.

- ✚ Autonomous improvement factor as per AMS-III.U - (year 1=0.99; year 2=0.98; year 10=0.904)

RE technologies for microscale additionality recommended by DNA

CDM EB 61

Bonn, Germany, 30 May to 3 June 2011



DNA recommendation for Micro-scale additionality

Additionality of micro-scale projects (EB 60, annex25)

*Para 2 (d) The project activity employs specific renewable energy technologies/measures recommended by the host country DNA and approved by the Board to be additional in the host country (conditions apply: **the total installed capacity of the technology/measure contributes less than or equal to 5% to national annual electricity generation**).*

Guidance from the Board is required regarding:

1. Condition/s that apply
 - a) Definition of installed capacity
 - b) Is Highlighted text (red font) only condition that applies or are there other conditions that should be checked?
2. Process for the consideration of DNA recommendations
3. The Board may also consider merging the issue with ongoing work on standardised baselines/additionality



DNA recommendation for Micro-scale additionality

Country DNA	Project type	Technologies (<5MW)
Chile	RE	All projects applying AMS-I.D
Cote d'Ivoire	RE	Biomass projects
Peru	RE	Biomass, wind, solar, geothermal, tidal and hydro
Thailand	RE	All projects employing RE as the primary technology
Sri Lanka	RE	AMS-I.D projects; AMS-I.C projects (biomass boiler/thermic fluid heater/hot water heater or with the use of gasifiers)

Microscale additionality guidelines

Guiding principles

- Barrier due to **Size** renders project additional (conditions apply)
 - a) **S size in CDM:** $\leq 5\text{MW}$, $\leq 20\text{GWh/yr}$, $\leq 20\text{kt/yr}$
 - b) **Geographical location** is **LDCs OR underdeveloped zones OR off grid areas in DCs** (small size and high investment risk);
 - c) **End users of distributed RE technologies** are **households/communities/SMEs** (currently low share of CDM benefits to these target groups);
 - d) Specific **upcoming RE technologies** with **low share in national energy mix** (Board and DNAs to identify)

