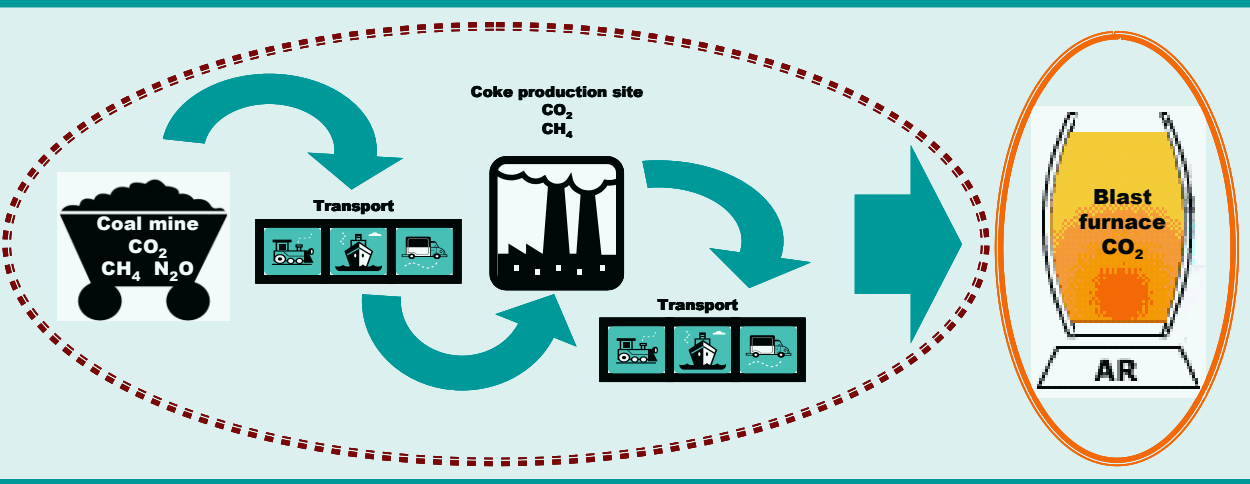


NM0278 – Use of charcoal from planted renewable biomass in the iron ore reduction process through the establishment of a new iron ore reduction system

Project Boundary – Coal coke iron ore reduction system



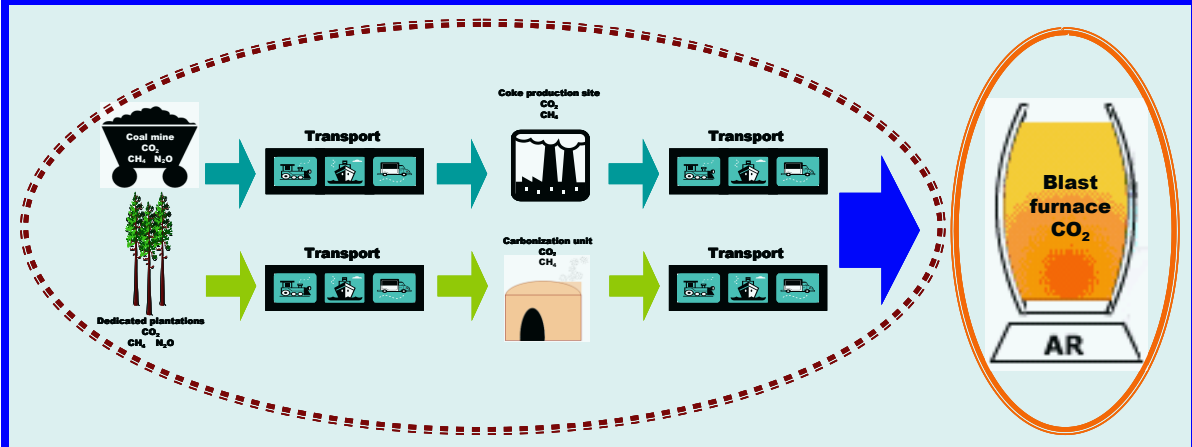
- Plantation can be under registered or unregistered CDM A/R project using ARAM0005 methodology.
- No claim for A/R project under this methodology.
- Leakage emissions due to shift of pre-project activity are claimed.

Project: Renewable Plantation based iron ore reduction system

Baseline: Fossil fuel based iron ore reduction system

Emission reductions:
From partial or complete use of renewable reducing agents instead of GHG intensive reducing agents in the iron ore reduction process.

Project Boundary – Iron ore reduction system based on mix of coke & renewable charcoal



NM0278 – Use of charcoal from planted renewable biomass in the iron ore reduction process through the establishment of a new iron ore reduction system

Key Applicability Condition

The methodology is applicable to project activities that aim at the establishment of new iron ore reduction systems, which are characterized by a **new investment**.

The eligible types of new investments for projects under this methodology are:

- Type 1: Production of reducing agents by investing in new dedicated plantations by the project entity;
- Type 2: Establishment of specific long-term binding contracts for the supply of reducing agents,
- Type 3: Refurbishment/replacement of blast furnace;
- Type 4: Establishment/acquisition of blast furnace.

Emission Reduction

Based on difference in baseline and project emissions due to reducing agent production and use of reducing agent in blast furnace.

NM0278 – Use of charcoal from planted renewable biomass in the iron ore reduction process through the establishment of a new iron ore reduction system

Guidance from the Board: Does this methodology require review from ARWG?

Annex 8 of EB20 (Clarifications on definition of biomass and consideration of changes in carbon pools due to a cdm project activity) states:

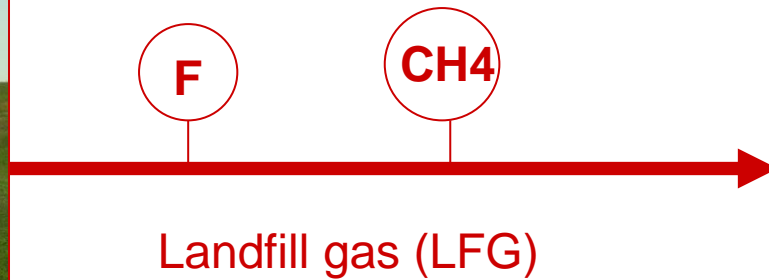
“When a proposed new methodology may have implications for carbon pools it shall, in addition to being assessed by the Methodologies Panel, be reviewed by the afforestation and reforestation working group (A/R WG) with regard to its validity.”

This methodology is not assessed by A/R working group as there is no emission reduction claimed towards change in carbon pools under this methodology. The Board may like to guide further.

EB47 – Annotated agenda item 18

“Tool to determine the mass flow of a greenhouse gas in a gaseous stream”

“Tool to determine the mass flow of a greenhouse gas in a gaseous stream”



- Flare
- Power Plant
- Pipeline
- Boiler

The tool can be used to determine the mass flow of the following gases: CO_2 , CH_4 , N_2O , SF_6 and/or PFCs.

The mass flow of a particular greenhouse gas is calculated based on the measurements of:

- (i) the total volume or mass flow of the gas stream and
- (ii) the volumetric fraction of the gas in the gas stream.

The volume flow, mass flow and volumetric fraction may be measured on a **dry basis or wet basis**.

EB47 – Annotated agenda item 19

CMP.4 request: Analysis for methodologies with no/low usage

Meth Panel's request to the Board

The Meth Panel seeks following clarifications from the Board

- 1) **Paragraph 39:** To take fully into account, in its work and in the work of its support structure, the laws, regulations, policies, standards and guidelines that apply in the host countries;

Panel seeks following clarification from the Board.

There is a split opinion in the panel about this issue.

Opinion-1: Analyze possible inconsistencies regarding E- and E+ policies in EB guidance and approved procedures.

Opinion-2: Analyse the impact of laws, regulations, policies, standards and guidelines that apply in the host countries, on baseline and additionality.

The Board is requested to clarify what it would like Meth Panel to analyse as a part of this request.

Meth Panel's request to the Board

The Meth Panel seeks following clarifications from the Board

2) **Paragraph 45:** That these issues and constraints for the application of methodologies relating to demand-side energy efficiency measures, energy efficiency improvements in supply-side domestic appliances and mass transport are addressed with due priority in view of their importance;

Panel seeks following clarifications from the Board.

1. Whether second part of paragraph i.e. " energy efficiency improvements in supply-side domestic appliances and mass transport" is related to energy efficiency improvement supply-side domestic appliances and energy efficiency improvement in mass transport? Or, whether the separate analysis is to be done for constraints in the application of methodologies relating to (1) energy efficiency improvement in supply-side domestic appliances and (2) mass transport ?
2. What is supply side domestic appliances?

Meth Panel's request to the Board

Paragraph 35: To examine the large proportion of approved methodologies, which have never been utilized, identify the reasons for non-utilization, and to take the lessons learned into account in the approval and revision of methodologies.

The Meth Panel is analysing the reasons for no/low utilisation of methodologies. The first step is taken by seeking responses from PPs not using their own methodologies.

Further, the panel seeks the permission from the Board to raise the public call on no/ low utilisation of methodologies, to help in assessment of the reasons for this.

EB47 – Annotated agenda item 19

Analysis of methodologies:

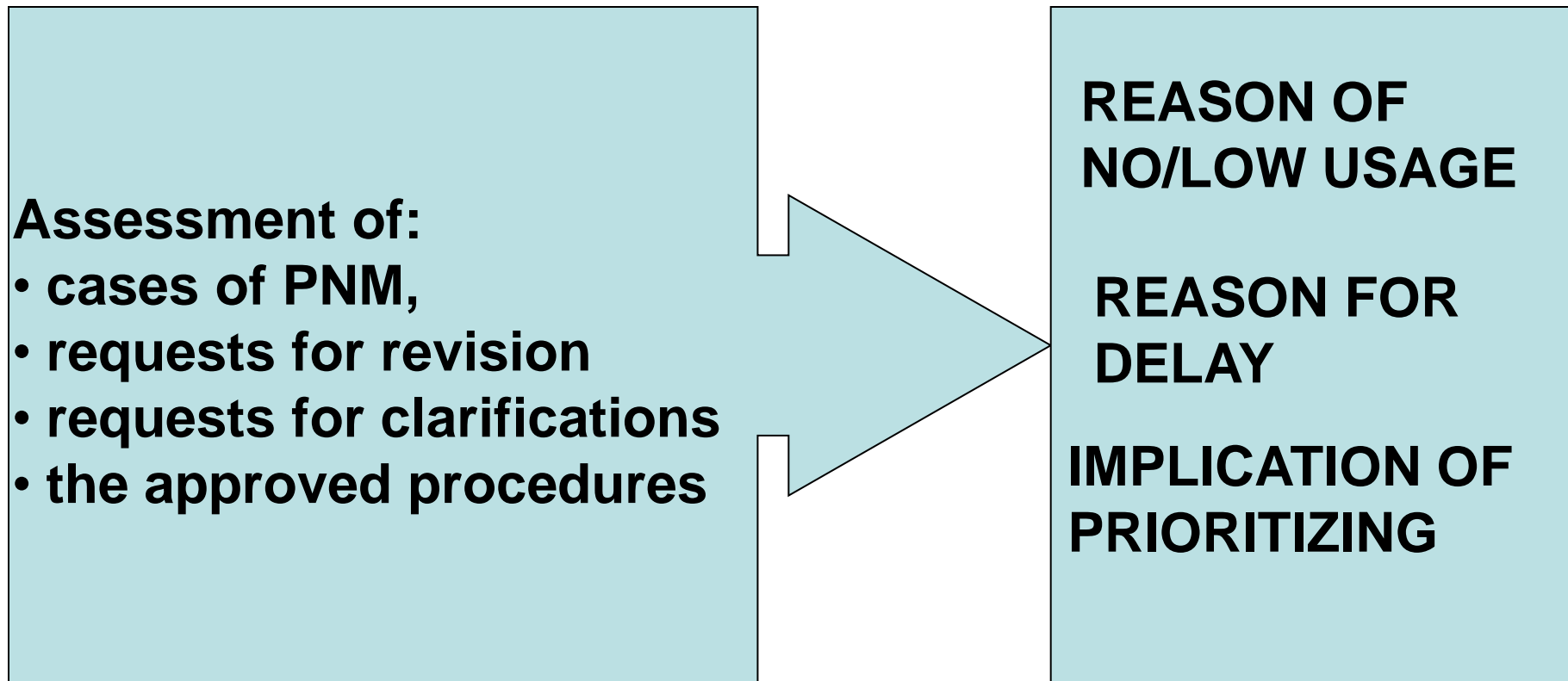
Reason for delay

Reason for no/low usage

BACKGROUND

CMP.4 request: Analysis of methodologies with no/low usage

Mandate from EB44



Timelines on requests for revisions 2008

	2007		2008												2009			
	1 1	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
AM-REV_0074		Submission		Recommendation													Revision prepared	EB approval
AM-REV_0075		Submission		Recommendation		Revision prepared				EB approval								
AM-REV_0076			Submission	Completeness check	Recommendation	EB approval												
AM-REV_0077			Submission	Completeness check	Recommendation	EB approval												
AM-REV_0078			Submission	Completeness check	Recommendation	EB approval												
AM-REV_0079			Submission	Completeness check	Recommendation	EB approval												
AM-REV_0080			Submission	Completeness check		Recommendation	Revision prepared	EB approval										
AM-REV_0081			Submission	Completeness check		Recommendation	EB approval											
AM-REV_0082			Submission	Completeness check		Recommendation	EB approval											
AM-REV_0083			Submission	Completeness check		Recommendation	Revision prepared	EB approval										
AM-REV_0084			Submission	Completeness check		Recommendation	EB approval											
AM-REV_0085			Submission	Completeness check		Recommendation	EB approval											
AM-REV_0086			Submission	Completeness check		Recommendation	EB approval											
AM-REV_0087			Submission	Completeness check		Work in Progress	Work in Progress			Recommendation	EB approval							
AM-REV_0088							Submission	Completeness check	Work in Progress				Work in Progress				Work in Progress	

- Submission
- Completeness check
- Work in Progress
- Fast track recommendation
- Recommendation
- Revision prepared
- EB approval



Timelines on requests for revisions 2008

	2007		2008												2009		
	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
AM-REV_0089																	
AM-REV_0090																	
AM-REV_0091																	
AM-REV_0092																	
AM-REV_0093																	
AM-REV_0094																	
AM-REV_0095																	
AM-REV_0096																	
AM-REV_0097																	
AM-REV_0098																	
AM-REV_0099																	
AM-REV_0100																	
AM-REV_0101																	
AM-REV_0102																	
AM-REV_0103																	
AM-REV_0104																	
AM-REV_0105																	

Requests for revision

	2008												2009		
	5	6	7	8	9	10	11			12	1	2	3		
AM-REV_0088	Submission	Completeness check	Work in Progress				Work in Progress				Work in Progress				
AM-REV_0100			Submission	Completeness check	Work in Progress		Work in Progress				Recommendation	Revision prepared	EB approval		
AM-REV_0101			Submission	Completeness check	Work in Progress		Recommendation	Revision prepared	EB approval						
AM-REV_0106			Submission	Completeness check			Work in Progress				Work in Progress				
AM-REV_0108					Submission	Completeness check	Work in Progress				Work in Progress				
AM-REV_0109					Submission	Completeness check	Work in Progress				Work in Progress				
AM-REV_0110					Submission	Completeness check	Work in Progress				Work in Progress				
AM-REV_0115					Submission	Completeness check	Work in Progress				Work in Progress				
AM-REV_0116					Submission	Completeness check	Work in Progress				Work in Progress				
AM-REV_0117					Submission	Completeness check	Recommendation	EB approval							
AM-REV_0118					Submission	Completeness check	Work in Progress				Work in Progress	Recommendation	Revision prepared		
AM-REV_0124					Submission	Submission	Work in Progress			Completeness check	Recommendation	EB approval			
AM-REV_0125					Submission	Submission	Work in Progress			Completeness check	Work in Progress				
AM-REV_0126			Submission	Submission			Work in Progress			Completeness check	Work in Progress				
AM-REV_0128						Submission			Completeness check	Completeness check	Recommendation	Revision prepared	EB approval		
AM-REV_0129						Submission			Completeness check	Recommendation	EB approval				
AM-REV_0130									Submission	Completeness check	Recommendation	EB approval			
AM-REV_0131									Submission	Completeness check	Recommendation	EB approval			
AM-REV_0132									Submission	Completeness check	Recommendation	EB approval			
AM-REV_0133									Submission	Completeness check	Work in Progress	Recommendation	Revision prepared		
AM-REV_0134									Submission	Completeness check	Recommendation	EB approval			
AM-REV_0135									Submission	Completeness check		Recommendation			

108, 115, 116 approval of guidance on industrial gases

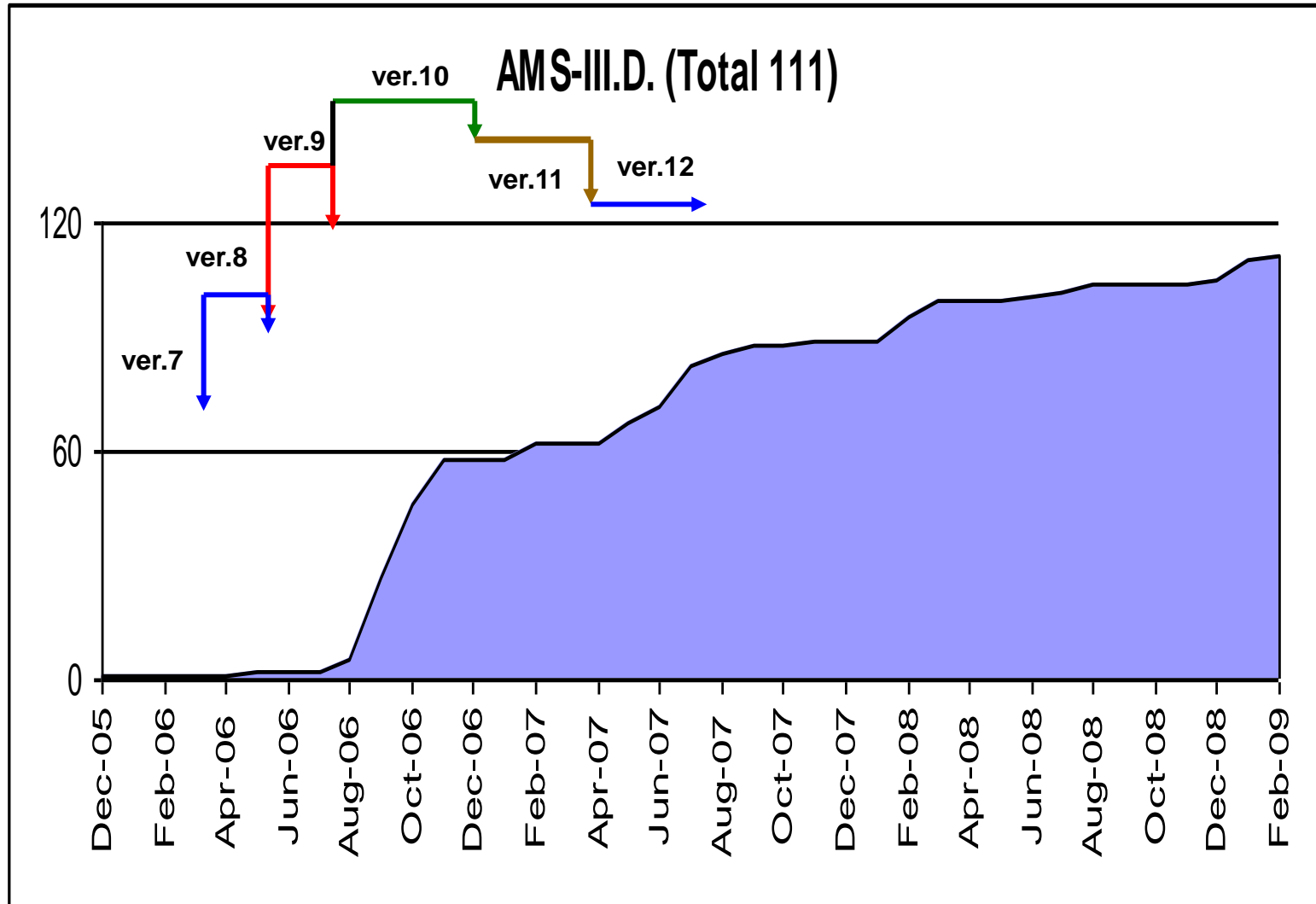
110: Consultant report

125 and 126 wait to be accounted for in a major revision

- Submission
- Completeness check
- Work in Progress
- Fast track recommendation
- Recommendation
- Revision prepared
- EB approval

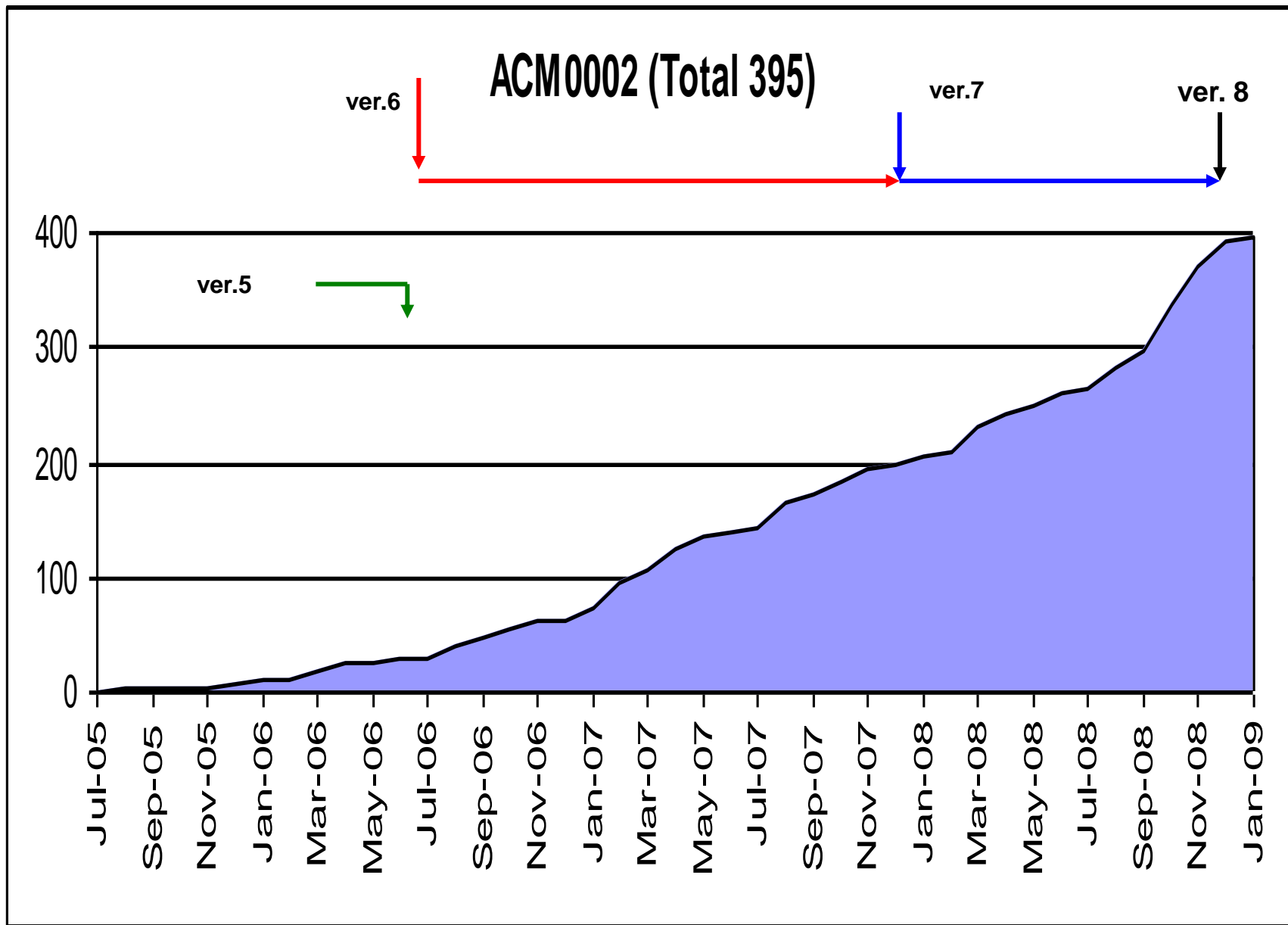


Trend of Accumulated Methodology Usage: AMS-III.D.



AMS-III.D.: Methane recovery in animal manure management systems --- Version 14

Trend of Accumulated Methodology Usage: ACM0002



CURRENT STATUS

Timelines on Methodologies submitted in 2008																
	2008												2009			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
NM0254						C										
NM0255						C										
NM0256							C									
NM0257						C										
NM0258																
NM0259				A												
NM0260						C										
NM0261							A									
NM0262						A										
NM0263							C									
NM0264													A			
NM0265																
NM0266																
NM0267																
NM0268													A			
NM0269																
NM0270										A						
NM0271																
NM0272																
NM0273										C						
NM0274								C								
NM0275										C						
NM0276								C								
NM0277																
NM0278																
NM0279										C						
NM0280																
NM0281										C						
NM0282																
NM0283										C						
NM0284																
NM0285										C						
NM0286																
NM0287													C			
NM0288																
NM0289													C			
NM0290															C	
NM0291													C			
NM0292																
NM0293																
NM0294																
NM0295																

	Submission
	Pre-assessment
	Preliminary Recommendation
	Work in Progress
	Final recommendation
	Consideration/ approval by the EB

Meth P meetings													2009						
	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
NM0250																			
NM0258																			
NM0264																			
NM0265																			
NM0266																			
NM0267																			
NM0269																			
NM0272																			
NM0278																			
NM0280																			
NM0282																			
NM0284																			

NM0250: Fes Waste Water Aerobic Treatment Plant

NM0258: Metrobus Insurgentes, Mexico City

NM0265: Reduction in flaring of COG through conversion into dimethyl ether used as fuel

NM0266: Mumbai Metro One, India

NM0267: Shuixi Gou Coal Field Fire Extinguishing Project

NM0269: Cambodia “Rural electrification and transmission project (RETP)” 220kV interconnection between Cambodia and Vietnam



Meth P meetings													2009						
	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
NM0250																			
NM0258																			
NM0264																			
NM0265																			
NM0266																			
NM0267																			
NM0269																			
NM0272																			
NM0278																			
NM0280																			
NM0282																			
NM0284																			

NM0272: Second Interconnection Colombia-Ecuador 230 kV

NM0278: Use of charcoal from renewable biomass plantations as reducing agent in pig iron mill in Brazil

NM0282: Usipar pulverized charcoal injection project

	10 LEAST USED METHODOLOGIES APPROVED SINCE MORE THAN 2 YEARS	Nbr of projects	Months for approval	Observation
AM0017	Steam system efficiency improvements by replacing steam traps and returning condensate	0	14	3 times submitted to EB
AM0007	Analysis of the least-cost fuel option for seasonally-operating biomass cogeneration plants	0	7	
AM0020	Baseline methodology for water pumping efficiency improvements	0	11	B case
AM0019	Renewable energy project activities replacing part of the electricity production of one single fossil-fuel-fired power plant that stands alone or supplies electricity to a grid, excluding biomass projects	0	7	
AM0042	Grid-connected electricity generation using biomass from newly developed dedicated plantations	1	13	B case
AM0035	SF6 Emission Reductions in Electrical Grids	1	12	Prelim Recom
AM0048	New cogeneration facilities supplying electricity and/or steam to multiple customers and displacing grid/off-grid steam and electricity generation with more carbon-intensive fuels	0	18	PR, B case, WIP
AM0043	Leak reduction from a natural gas distribution grid by replacing old cast iron pipes or steel pipes without cathodic protection with polyethylene pipes	1	10	
AM0054	Energy efficiency improvement of a boiler by introducing oil/water emulsion technology	0	14	submitted to EB twice
AM0051	Secondary catalytic N2O destruction in nitric acid plants	0	10	B case

PPs asked why their methodology is not used to develop a CDM project.

The following methodologies:

AM0019, AM0043, AM0051, AM0068 are considered no more applicable to their project by the PPs.

CAUSES OF DELAY IN THE CONSIDERATION PROCESS

- **Specific expertise is required**
- **Need for additional information from**
 - ✓ **PPs**
 - ✓ **external consultants**
- **Panels spend time addressing an issue**
- **Solution makes the methodology non applicable to project.**
- **Expected major revision impacts on-going requests of revision.**

CAUSES OF LOW/NO USE

- **Methodology too specific (destruction of industrial gases)**
- **Changes made in the methodology to safeguard its environmental integrity lead to no/low use**

ACTIONS FOR IMPROVEMENT

1. Mandate from EB to launch a call for inputs regarding reasons for no/low use of Meth and actions for improvement

2. Prioritizing the use of our resources

Methodologies with high potential of GHG reduction (approval of a new PNM or revision of a new methodology).

Impact on sustainable development

Regional distribution of the projects.

Development of CDM toward some specific sectors.

Resources needed.

ACTIONS FOR IMPROVEMENT

- 1. Full assessment initiated directly after pre assessment.**
- 2. Use a CDM expert as a desk reviewer and a technical expert as second reviewer**
- 3. Revise PNM form to include requirements for PPs to present practical ways on how to demonstrate/verify the compliance with a methodological requirement.**
- 4. On-going requests of revision considered independently from expected major revisions.**
- 5. If solving an issue requires a serious change to PNM involve PPs at early stage of the process**

EB47 – Annotated agenda item 20

Tool to determine the baseline efficiency of thermal or electric energy generation systems

Tool to determine the baseline efficiency of thermal or electric energy generation systems

Call for public comments launched by EB45:

on the various aspects of the draft tool, especially highlighting the issues with regards to its practical applications and user friendliness for project proponents.

10 comments received before the deadline.

Tool to determine the baseline efficiency of thermal or electric energy generation systems

Highlights of public comments:

- **Applicability:** The tool should be applicable to multiple fuel use and for different quality of same fuel.
- **Option A:** suggestion for specification on how data on load and operating conditions be obtained.
- **Option B:** not necessary and risky to state requirements that are given in all referred standards; suggestion to mention a minimum value of desired Residual Sum of Squares (R^2); and suggestion that the tool could require the DOE to check the documentation from the test.
- **Option E:** minimum number of efficiency measurements should be clarified.
- **Option F:** suggestion remove this option while clear scientific methodologies are available; and request to add default values for new coal boilers & electricity generation equipment.

Tool to determine the baseline efficiency of thermal or electric energy generation systems

The Board may wish:

to request the Meth panel to further work on the revision of the draft tool, taking into account the public inputs.



EB47 – Annotated agenda item 23

Energy Efficiency Tools and guidance

EB's work on energy efficiency

Plan reported to EB42

- 1) Best-practices guidance on sampling and surveys for energy efficiency project activities: to be finalised at SSC19 (Agreed by SSC WG 17)
- 2) Tool on Baseline Load-Efficiency Function: to be finalised at MP 35
- 3) Tool on Energy Benchmarking: If NM0235 is approved in EB42, possible panel approval at MP37
- 4) The guidance on determination of equipment lifetime: to be finalised at MP36
- 5) Further work to be done on guidance on signal-to-noise ratio, rebound effect.

Achieved so far.....

- 1) SSC20 has recommended "Draft general guidance on sampling and surveys for SSC projects" for EB47 approval.
- 2) Tool to determine the baseline efficiency of thermal or electric energy generation systems : Recommended by MP36, launched a public call by EB45. MP39 to discuss public comments.
- 3) Tool on Energy Benchmarking: NM0235 approved (AM0070). The work on this tool is in progress. This will be discussed in MP39.
- 4) The guidance on determination of equipment lifetime: First draft discussed in MP38. Plan to finalise by MP39.
- 5) Tool/ guidance on signal-to-noise ratio and rebound effect planned also as part of CMP request (not for reporting to CMP.5). However, the deadline is not finalised by MP.