

Scope 13 - registered Project Activities



Key contents

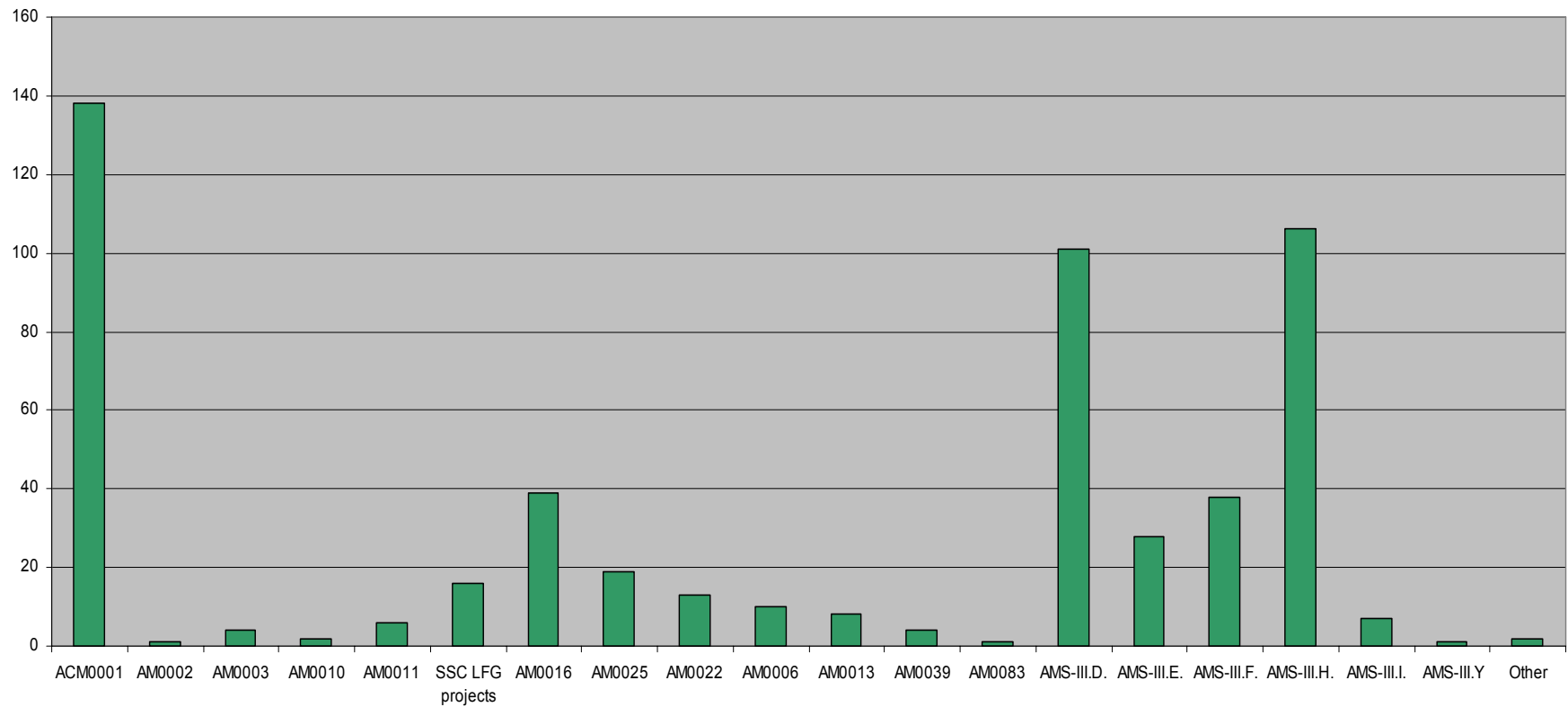
- Overview of main methodologies under Scope 13 and their use in Project activities
 - Overview of main Tools used in Scope 13
 - Overview of registered Project Activities & Performance
 - Overview of Issuance Performance
 - Overview verification event duration
 - Highlights & Lowlights
- What can we learn from the presented analysis?
Discussion for potential solutions?

Overview Methodologies & Tools

- Main Methodologies:
 - **ACM0001** (AM002, AM003, AM010, AM0011) - LSC LFG
 - **AMS.III.H** Methane recovery in wastewater treatment
 - **AMS-III.D** Methane recovery in animal manure management systems
 - **AM0016** Greenhouse gas mitigation from improved animal waste management systems in confined animal feeding operations
 - **AMS-III.F.** Avoidance of methane emissions through composting
 - **AM0025** Avoided emissions from organic waste through alternative waste treatment processes
 - **AMS-III.E** Avoidance of methane production from decay of biomass through controlled combustion, gasification or mechanical/thermal treatment
 - **AMS-III.G** - SSC LFG
- Main Methodological Tools:
 - Tool to determine project emissions from flaring gases containing methane, EB28_Annex13
 - Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site, EB55_Annex18

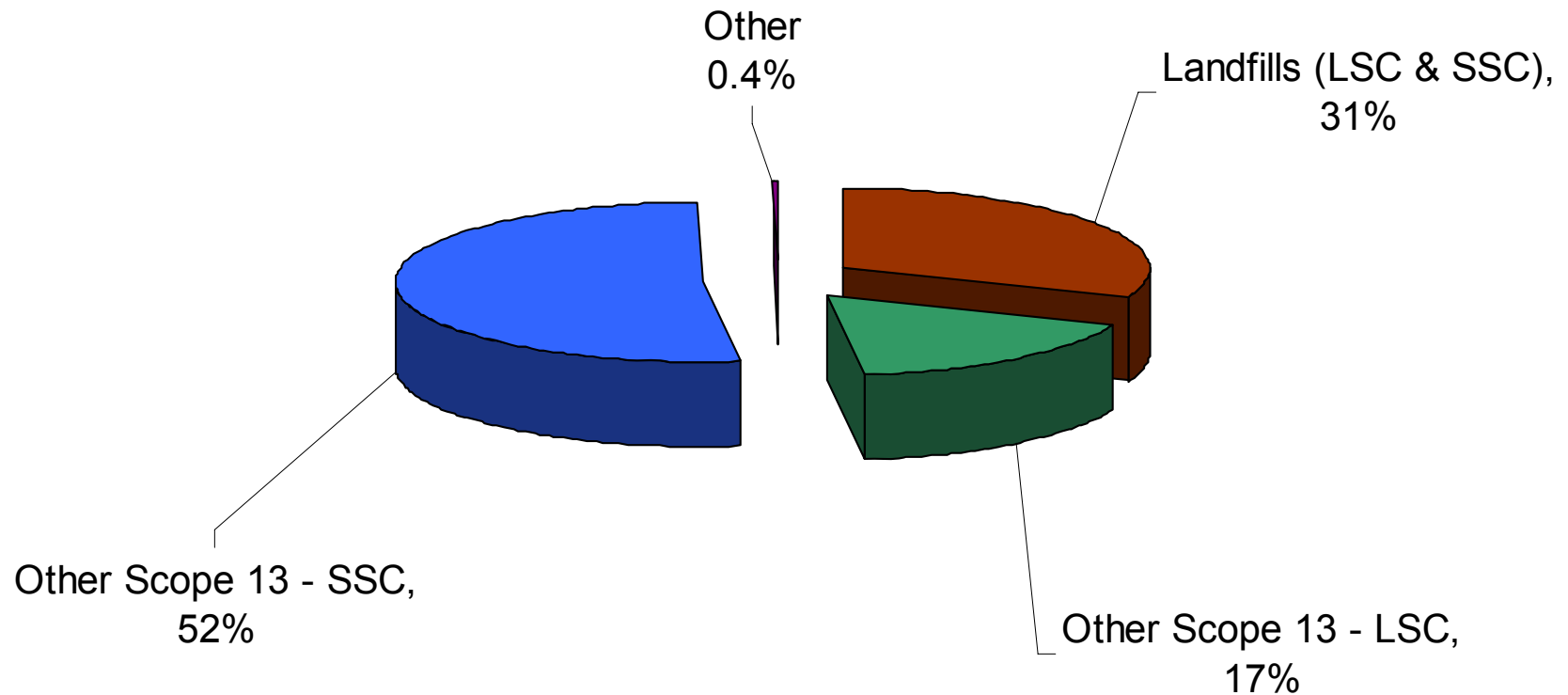
Applied Methodologies

Sector 13 Meth Breakdown



Scope 13 – registered Project Activities

Breakdown by project type



Scope 13 - Project Activities & Performance

- 544 projects* in Scope 13 are registered of which
 - **138** are using **ACM0001** [~25%] with
 - 56 projects without verification activity since the date of registration (41%), and
 - 82 projects with ongoing verification activities (59%)
 - **106** are using **AMS-III.H** with
 - 69 projects without verification activity since the date of registration (65%), and
 - 37 projects with ongoing verification activities (35%)
 - **101** are using **AMS-III.D** with
 - 53 projects without verification activity since the date of registration (52%), and
 - 48 projects with ongoing verification activities (48%)

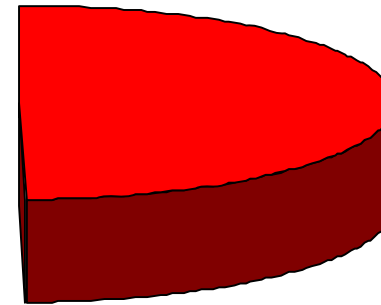
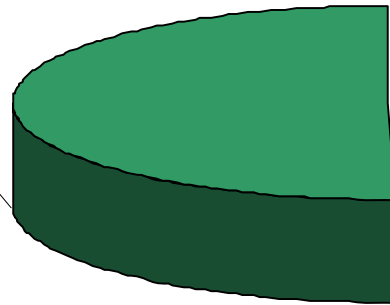
Scope 13 - Project Activities & Performance

- 544 projects* in Scope 13 are registered of which
 - **39** are using **AM0016**
 - 1 project without verification activity since the date of registration (3%),
 - 38 projects with open verification events (97%)
 - **38** are using **AMS-III.F** with
 - 30 projects without verification activity since the date of registration (79%),
 - 8 projects with ongoing verification activities (21%)
 - **28** are using **AMS-III.E** with
 - 11 projects without verification activity since the date of registration (39%),
 - 16 projects with ongoing verification activities (61%)
 - **19** are using **AM0025** [~3.5%] with
 - 17 projects without verification activity since the date of registration (89%),
 - 2 projects with ongoing verification activities (11%)

Scope 13 – Projects ongoing vs. lying idle

Scope 13 Breakdown of Registered Project Activities

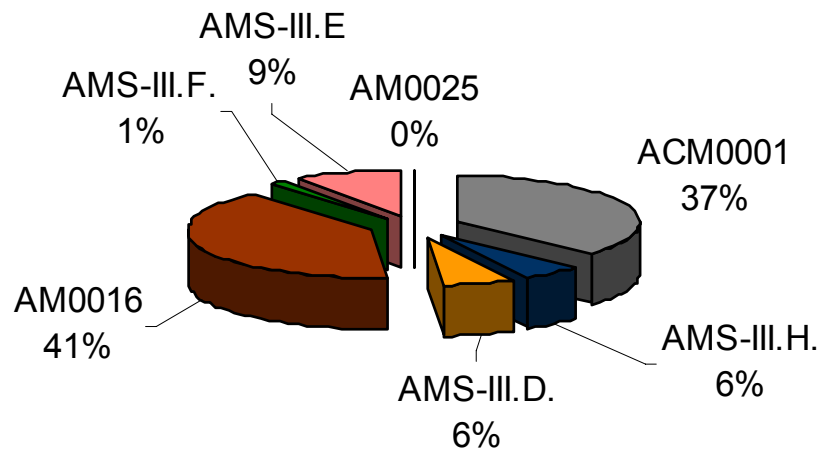
Number of projects with ongoing verification/verified, 50% (274 projects)



Number of projects with no verification activity since registration, 50% (270 projects)

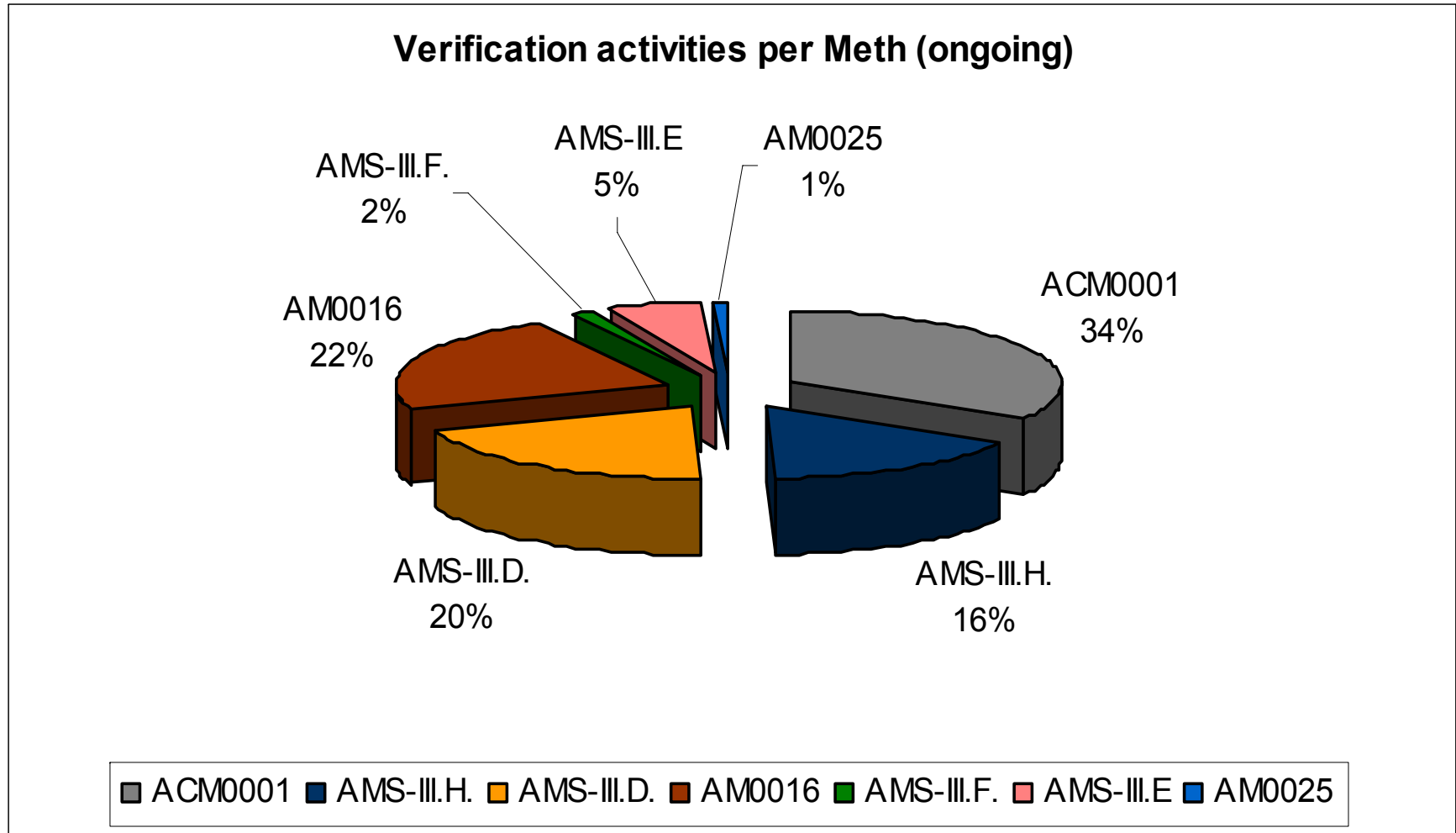
Scope 13 – Verification activities

**Verification activities per Meth
(closed & issued)**



■ ACM0001 ■ AMS-III.H. ■ AMS-III.D. ■ AM0016 ■ AMS-III.F. ■ AMS-III.E ■ AM0025

Scope 13 – Verification activities



Scope 13 - Issuance Performance

Scope 13 verification events :

- 371 events were closed and issued CERs
- 255 events are currently open
 - **ACM0001** with
 - 136 verification events resulting in successful Issuances of 13,686,347 CERs
 - 82 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under ACM0001 is 15.9%
 - **AMS-III.H.** with
 - 21 verification events resulting in successful Issuances of 676,685 CERs
 - 40 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under AMS-III.H. is 12.4%

Scope 13 - Issuance Performance

- **AMS-III.D.** with
 - 23 verification events resulting in successful Issuances of 366,189 CERs
 - 52 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under AMS-III.D. is 6.6%

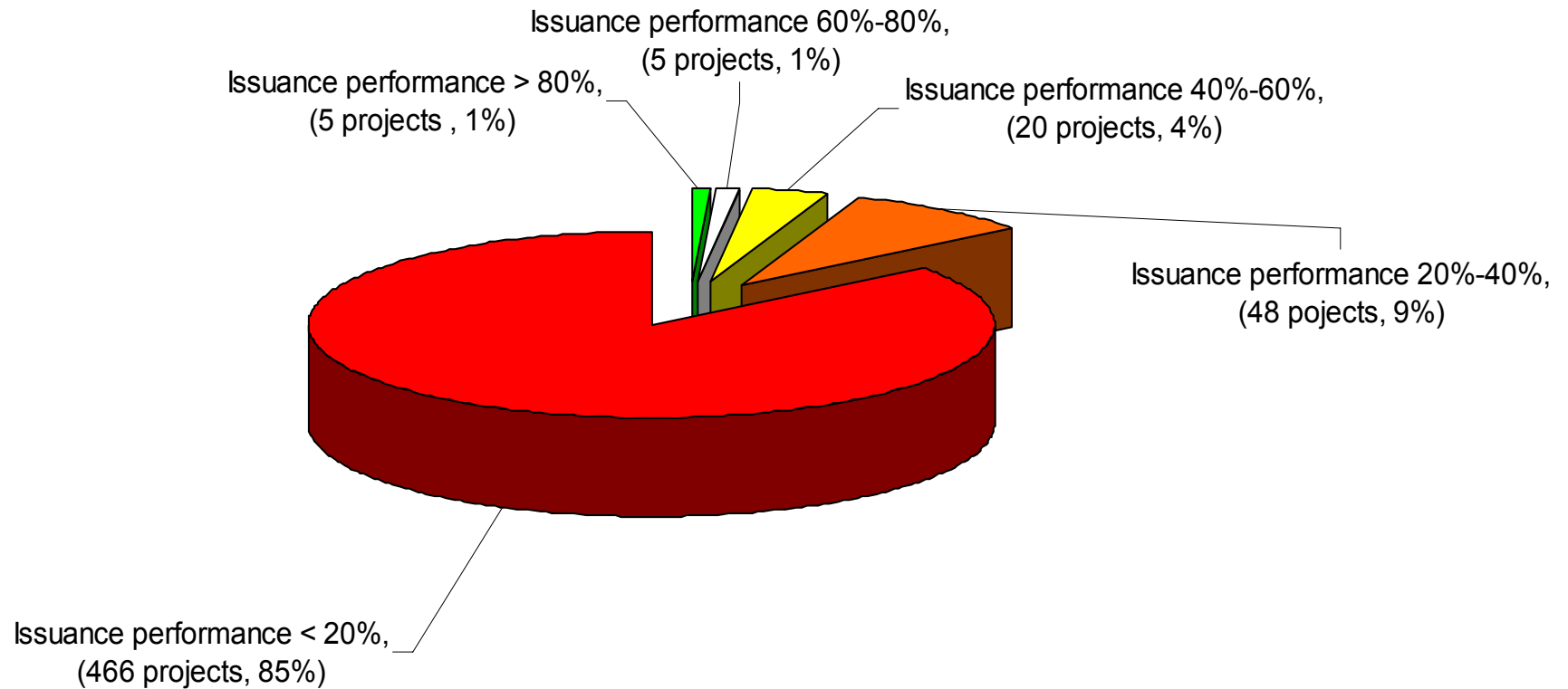
- **AM0016** with
 - 151 verification events resulting in successful Issuances of 3,172,417 CERs
 - 57 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under AM0016 is 21.2%

Scope 13 - Issuance Performance

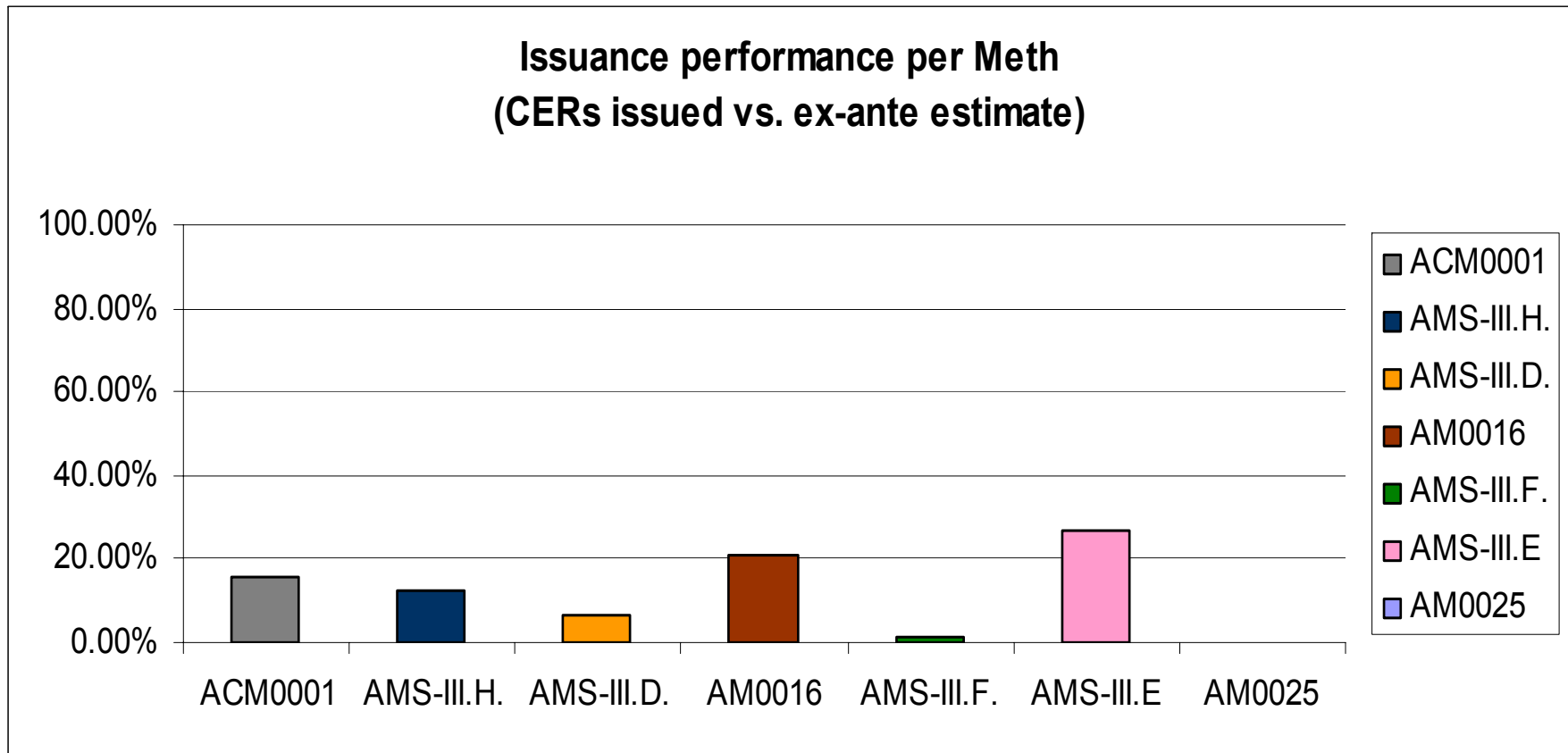
- **AMS-III.F.** with
 - 5 verification events resulting in successful Issuances of 23,999 CERs
 - 4 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under AMS-III.F. is 1.3%
- **AMS-III.E.** with
 - 35 verification events resulting in successful Issuances of 4,317,935 CERs
 - 14 verification events are currently open
 - compared to the theoretical potential based on ex-ante PDD estimates Issuance performance of Project activities registered under AMS-III.E. is 27.1%
- **AM0025** with
 - 2 verification events are currently open— 0 CERs issued

Scope 13 – Issuance Performance

Overview of issuance performance

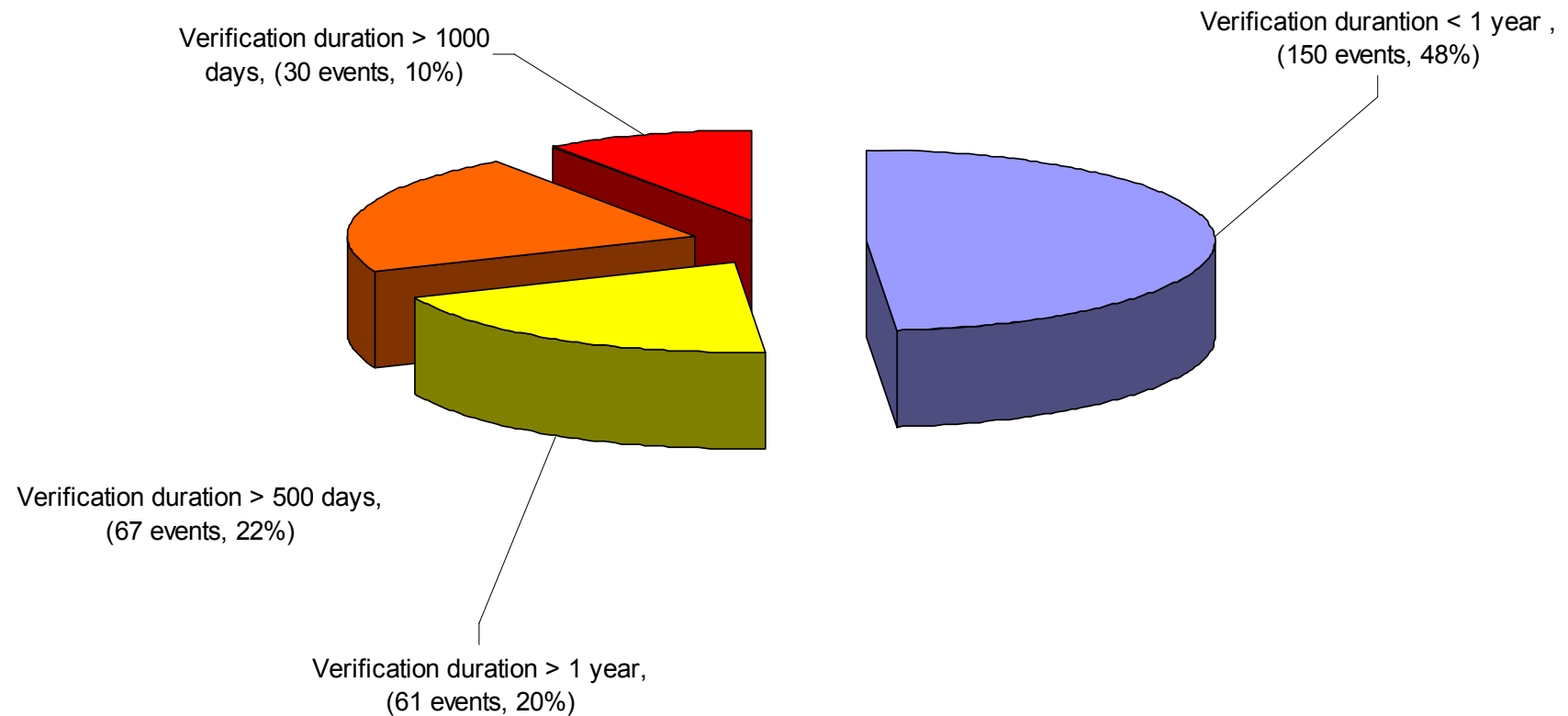


Scope 13 – Issuance Performance



Duration of verifications in Scope 13

Duration of open verifications



Highlights & Lowlights

- Highlights
 - AMS-III.E shows the best Issuance performance rate out of all Methodologies applied in Scope 13, unexpectedly since this is a complex project type
 - The most successful project activity issued already over 3 million CERs and thereby represents > 13% of Issuance success for all activities under Scope 13
- Lowlights
 - With an overall Issuance performance of 15.8% Scope 13 project activities are the lowest performing technology scope in the CDM
 - Despite harmonisation of CDM standards verification activities and technology scope remains complex and take long time

What can we learn?

Potential solutions

- Case studies

- ↳ Can high performing project activities help least performing projects? What can be learnt and transferred?


- ↳ Do case studies on lowest/slowest performing projects bring new insight on what prevents projects from failing?

- Potential solutions

- ↳ Can CDM draw upon existing regulatory requirements (e.g., Technical Instructions on Air Quality Control – TA Luft) to standardise instrumentation and measurement techniques?

- ↳ Can methodologies and Tools be further harmonised (e.g., consistent parameter titles, measurement approaches, etc.)?

- ↳ Can existing Clarifications which apply to several meth and/or technology scopes be stored in a “CDM technology_wiki” for easy referencing?



Thank you very much for your attention!

If you wish to discuss contents of this presentation in more detail, or shall you have any questions, please do not hesitate to contact me.

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