Guidelines for estimation and measurement of emissions of Volatile Organic Compounds

2nd TFTEI meeting of 20 May 2016

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Agenda

- The demand,
- The context of the Gothenburg Protocol
- Organisation of the guidance and information available
- Next steps
Context of the guidelines

- **Gothenburg Protocol:**
  - Introduction of commitments for reduction of VOC emissions for Parties to the Convention in 2020
  - Mandatory Emission Limit Values (ELVs) for different activities (for VOCs, annex VI and annex XI)
  - Establishment of solvent management plans for activities using solvents covered by annex VI

- **Why to develop Guidelines**
  - VOC a complex pollutant: group of substances with different chemical properties, stack emissions and fugitive emissions, complex measurement…

Necessity to develop guidelines to facilitate the ratification of the Protocol by EECCA countries

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Types of ELVs present in annex VI of the Protocol

- **ELVs expressed as total organic carbon (TOC)**, which is a concentration of carbon in the gas stream, usually expressed in mg C per cubic meter (mg C/m³), in the standard conditions (STP), methane can be include or not,

- **ELVs related to one or several substances** which are assigned to specific risk phrases, expressed in mg of substances per cubic meter (mg VOC/m³) in the standard conditions (Article 5 of annex VI),

- **ELVs expressed as a total VOC emission, expressed in % of solvent input, or g VOC/unit of activity** (g VOC/m², g VOC/kg dry extract, …) for some activities using solvents or % of petrol throughput for activities related to storage and handling of petrol,

- **Fugitive emission of VOC expressed in % of solvent input or in other unit**

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Content of the guidelines developed

✓ Context and aim of the guidelines
✓ Types of ELVs implemented in annex VI
✓ VOC measurement techniques
✓ Solvent management plan
✓ Control of ELVs for some activities
✓ Summary of measurement methodologies for the different activities covered by annex VI
✓ Example of development of a solvent management plan

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Process of adoption of the guidelines

☐ Guidelines produced by TFTEI for the 33rd Executive Body meeting in December 2015 for endorsement
☐ Endorsement of the Guidelines not possible due to additional questions raised by a country
☐ A drafting group set up aimed to answer to additional questions from this country to be produced just after the EB (the TFTEI TS + Belgium)
☐ Progress to be presented at the 34th EB meeting of May 2016 for endorsement of the document at the next EB meeting of December 2016
☐ Questions not received on time but just after the EB meeting in May 2016
☐ Deadline still achievable

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New questions

- 25 questions addressed
- Request for additional explanations and details (fugitive and total VOC emissions provided as annual average, what are standard conditions, how to exclude methane…)
- Request for additional definitions of words used (Rate, Normal conditions…)
- Many questions of the solvent management plans
- …

In fact need for development of the pedagogy of the document

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New time schedule

- Treatment of the questions before September for submission to the next EB in December 2016.

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