

Guidelines for estimation and measurement of emissions of Volatile Organic Compounds

2nd TFTEI meeting of 20 May 2016

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2 nd TFTEI meeting - 20 May 2016

Agenda



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□ The demand,

- □ The context of the Gothenburg Protocol
- □ Organisation of the guidance and information available
- □ Next steps

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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
- □ <u>Why to develop Guidelines</u>
- ✓ 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

 \checkmark 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,

 \checkmark 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,

 \checkmark Fugitive emission of VOC expressed in % of solvent input or in other unit





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Content of the guidelines developed



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

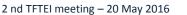
- 25 questions addressed
- Request for additional explanations and details (fugitive and total VOC emissions provided as annual average, what are standard conditions, how to exclude methane...)
- □ Request for additional definitions of words used (Rate, Normal conditions...)
- □ Many questions of the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