

The Gothenburg Protocol and its guidance documents

Presented by
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Presentation Outline

1. Basic obligations
2. Reporting obligations
3. ELVs
4. Timescale
5. Adjustment procedures
6. Guidance documents

Presentation Outline

1. Basic obligations

Basic obligations (art. 3)

1. **Parties having a commitment in annex II shall reduce and maintain their emissions in accordance with the timescale of this annex (2020) (Art 3.1)**
2. According to the timescale of annex VII, Parties :
 - **Shall apply ELVs for new stationary sources specified in annex IV (Sulphur), V (NO_x), VI (VOCs) and annex X (Particulate matter) (art 3.2) (Different emission reduction strategies may be applied if they achieve equivalent overall emissions (art 3.2))**
 - **Shall apply ELVs for existing stationary sources specified in annex IV (Sulphur), V (NO_x), VI (VOCs) and annex X (Particulate matter) insofar it is technically and economically feasible (art 3.3)**

Basic obligations (art. 3)

2. According to the timescale of annex VII, Parties :
- Shall apply **ELVs for fuels and new mobiles sources** **annex VIII** (art 3.5)
 - Should apply **Best Available Techniques for mobile sources and stationary sources** covered by annexes IV, V, VI and X (art 3.6) and (as it considers it appropriate) **measures to control black carbon** (guidance document)
 - Shall apply, insofar it is technically and economically feasible, **ELVs for VOC content of products** annex XI (art 3.7)
 - Shall apply **control measures for ammonia** specified in annex IX
 - Should apply **Best Available Techniques for preventing ammonia emissions** (art. 3.8) (guidance document)

Basic obligations (art. 3)

2. According to the timescale of annex VII, Parties :
 - Shall develop and maintain **emission inventories and projections** for SO₂, NO_x, NH₃, VOC and PM (art 3.11 ter)
 - Should **actively participate in programmes on the effects of air pollution** on health and the environment (art 3.11 quarter)

Presentation Outline

1. Basic obligations
2. Reporting obligations

Reporting obligations (art. 7)

Each Party :

1. Shall report **information on the measures** that it has taken to implement the Protocol (art 7.1 (a))
2. Shall report the **Levels of emissions** (art 7.1 (b)):
 - **Levels of emissions** using at the minimum the methodologies and the temporal and spatial resolution specified by the steering body of EMEP
 - **Levels of emissions in the reference year** using the same methodologies
 - **Projected emissions**
 - Provide an **Informative Inventory Report (IIR)**

Reporting obligations (art. 7)

Each Party :

6. Should report on its **air pollution effects programmes on human health and the environment and atmospheric and monitoring and modeling programmes** (art 7.1 (b bis))
7. Should report the **emissions and projections of black carbon** (art 7.1 (d))
8. Shall provide relevant **information on ambient concentrations and deposition of sulphur and nitrogen compounds as well as black carbon, VOC and ozone** (art 7.3 (a))
9. Shall **provide nitrogen budgets**, nitrogen use efficiency and nitrogen surplus and their improvement (art 7.3 (b))

10.

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3. ELVs

ELVs

- **Two new annexes : annex X on ELVs for PM and annex XI on ELVs on the VOC content of products**
- **ELVs for stationary sources revised for SO_x, NO_x, VOC**
(Based on Best Available Technique Achievable Emission Levels (upper range))
- **ELVs for mobile sources revised**
- For NH₃, Parties shall apply control measures listed in annex IX

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1. Basic obligations
2. Reporting obligations
3. ELVs
4. Timescales

Timescales (annex VII)

Annex	Pollutant	Time scale
Annex II	Reduction commitment for SO ₂ , NO _x , NH ₃ , VOC and PM	2020
Annex IV	SO ₂	Existing sources : One year after the date of entry into force for the Party in question or 31/12/2020 whichever the latest New sources : One year after the date of entry into force
Annex V	NO _x	
Annex VI	VOC	
Annex X	PM	
Annex VIII		Date of entry into force of the protocol for the Party in question or dates associated with the measures specified in annex VIII
Annex XI	VOC in products	One year after the date of entry into force for the Party in question

Timescales (annex II, annex VII) for Parties becoming Party to the Protocol between the 01/01/2013 and the 31/12/2019

Annex	Pollutant	Time scale
Annex II	Reduction commitment for SO ₂ , NO _x , NH ₃ , VOC and PM	Commitment for those new Parties
Annex IV	SO ₂	Existing sources : 15 years after the date of entry into force for the Party in question New sources : One year after the date of entry into force
Annex V	NO _x	
Annex VI	VOC	
Annex X	PM	
Annex VIII		5 years after the entry into force of the protocol for the Party in question
Annex XI	VOC in products	5 years after the entry into force of the protocol for the Party in question

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4. Timescales
5. Adjustment procedures

Adjustments (art. 13)

Each Party :

1. May propose an **adjustment on its emission reduction commitments and its emission inventories** (proposal must include supporting documentation and shall be reviewed as specified in decision 2012/12)
2. Adjustments shall be submitted to the executive secretary of the commission, who shall communicate them to all Parties. Parties shall discuss the proposed adjustments at the next session of the EB.
3. Adjustments shall be adopted by consensus of the Parties

Decision 2012/12 provides rules to be observed to propose an adjustment to emission inventories and to emission reduction commitments

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Guidance documents

5 guidance documents associated to the Protocol aimed to help Parties to achieve their obligations

- Guidance document on **economic instruments** to reduce emissions of regional air pollutants (Revised by the EG on economic inst.)
- Guidance document on **national nitrogen budgets** (developed by TFRN)
- Guidance document on **preventing and abating ammonia emissions from agricultural sources** (revised by TFRN)
- Guidance document on **control techniques for emissions of sulphur, NO_x, VOC, Dust (including PM₁₀, PM_{2,5} and black carbon) for stationary sources** (revised by EGTEI)
- Guidance document on **control techniques for mobile sources** (being revised)

The new **guidance document on stationary sources** provides information on control techniques for sulphur, NO_x, VOCs, Dust (including PM₁₀ and PM_{2.5} and black carbon) (including the solvent content of products) and is based upon an activity oriented approach :

Chapter I: Introduction

Chapter II: General issues for the pollutants

Chapter III: General issues for sulphur emissions

Chapter IV: General issues for NO_x emissions

Chapter V: General issues for VOC emissions

Chapter VI: General issues for dust (PM, Black carbon)

Chapter VII: Sectoral chapters (42 subchapters)

Guidance document on mobile sources being revised by the European Commission

- Study carried out by IIASA and EMISIA
- Guidance document should be available by early 2015
- A presentation of the study scheduled during the next EGTEI meeting (6 June, Brussels)
- A guidance document which will be discussed in an EGTEI sub group (first meeting : October?)

Reference EGTEI

The works of EGTEI are regularly published on the official Expert Group Web Site:

http://www.citepa.org/forums/egtei/egtei_index.htm

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Thank you for your attention !