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# A new status for BREFs and BAT associated emission levels

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## The importance of BREFs



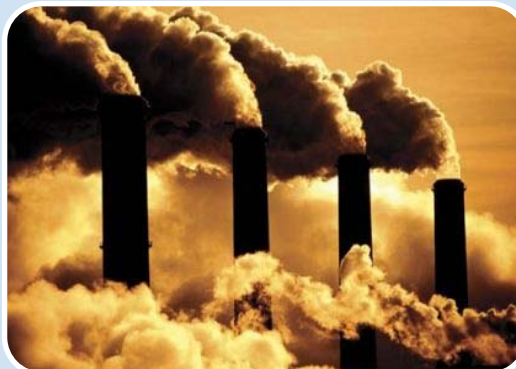
## New methodology to determine BAT-AELs

# BREFs basis for permit conditions



Technique

BAT –  
performance - ...



Emission

BAT-AEL



Control  
monitoring

Permit

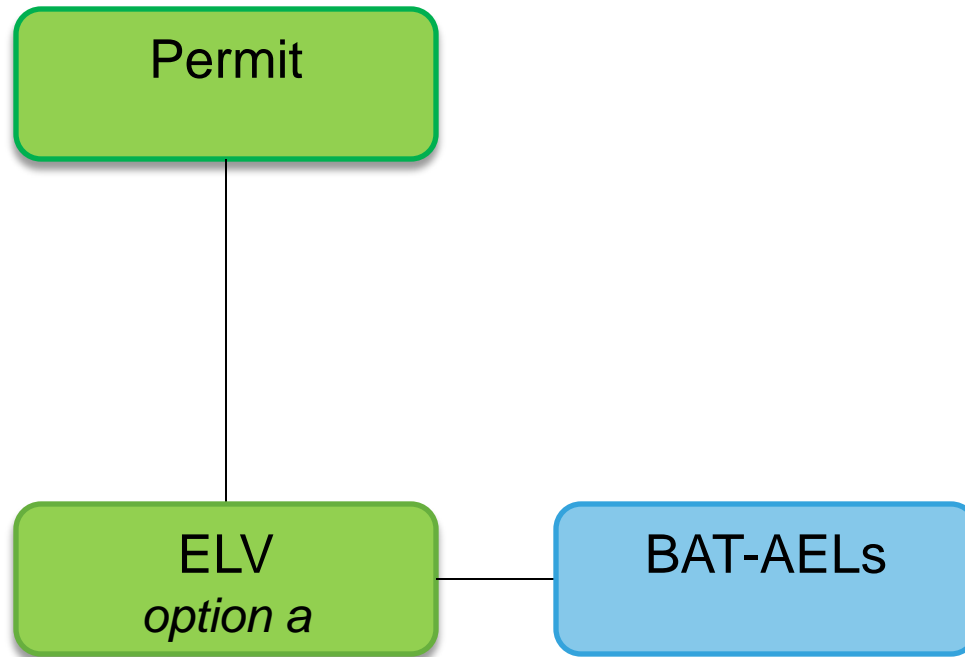
*art. 4:*  
installations, combustions plants,  
ect. must have a permit

ELV  
*emission limit  
values*

*art. 14:*  
permit conditions shall include  
ELVs

*art. 15.2:*  
*ELVs shall be based on BAT,  
without prescribing a technology*

*art. 15.3:*  
ELVs  $\leq$  the emission levels  
associated with the best  
available techniques



*art. 15.3 a:*

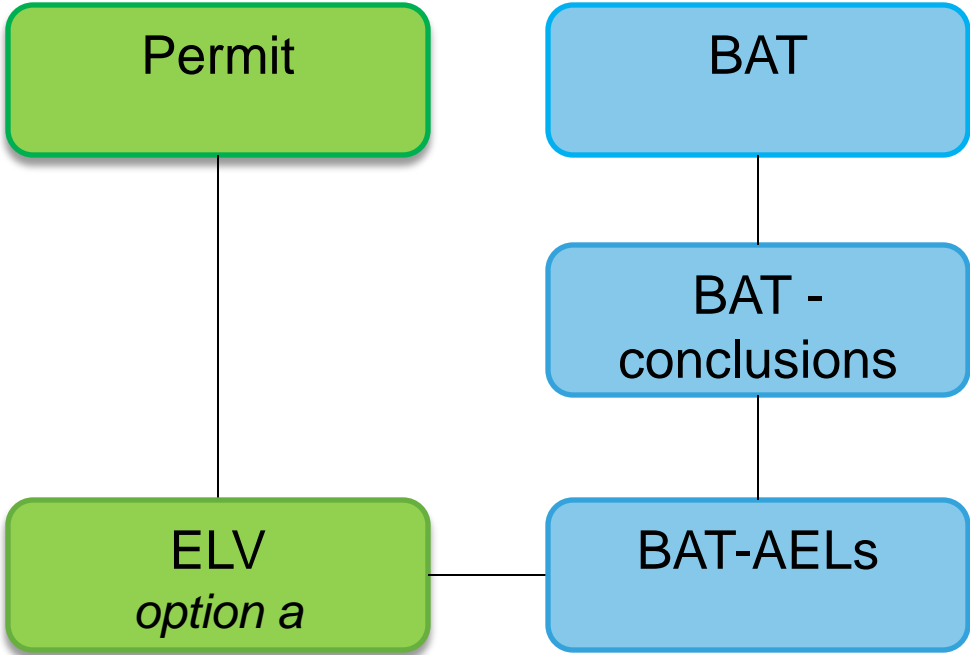
ELVs shall be expressed for the same or shorter periods of time and the same reference conditions as those BAT-AEL

*art. 3.12: definition BAT-AEL*

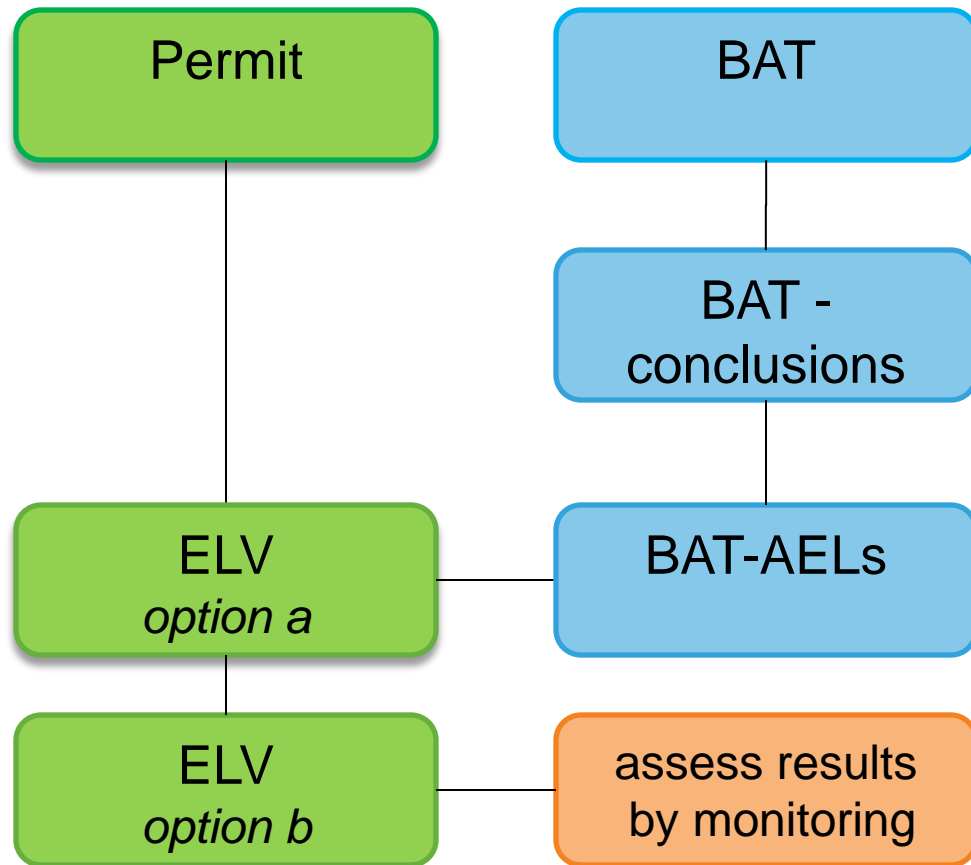
means the range of emission levels obtained under normal operating conditions using a best available technique or a combination of best available techniques, as described in BAT conclusions, expressed as an average over a given period of time, under specified reference conditions.

art. 13:  
BREF – Sevilla  
proces (cf. IPPC-dir)

art. 13.5 and .6:  
BAT-conclusions shall  
adopted – comitology  
procedure and shall  
be translated



art. 3.11:  
means a document containing the parts of a BAT reference document  
laying down the conclusions on best available techniques, their description,  
information to assess their applicability, the emission levels associated with  
the best available techniques, associated monitoring, associated  
consumption levels and, where appropriate, relevant site remediation  
measures



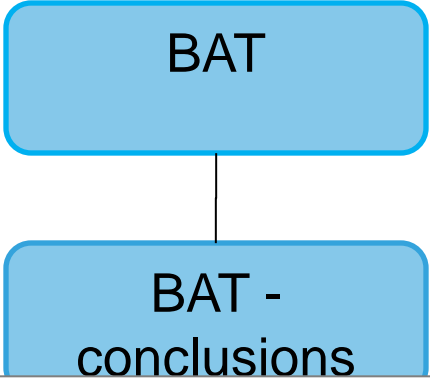
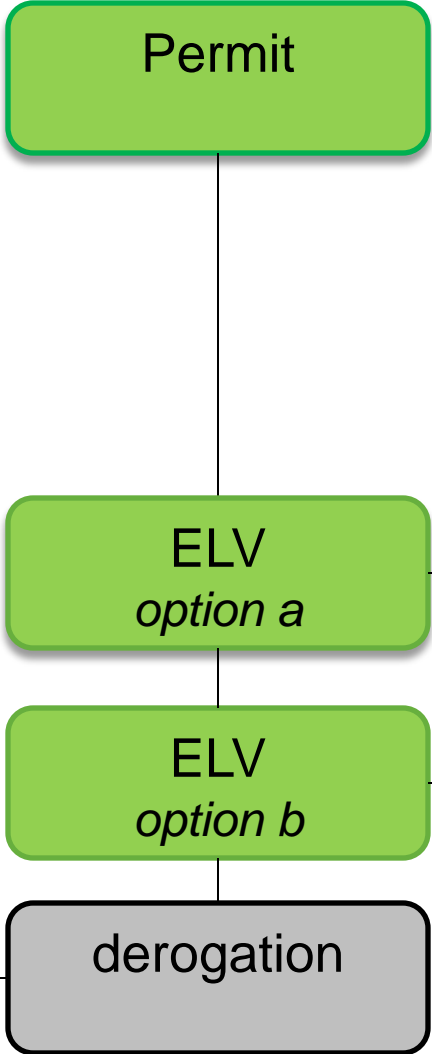
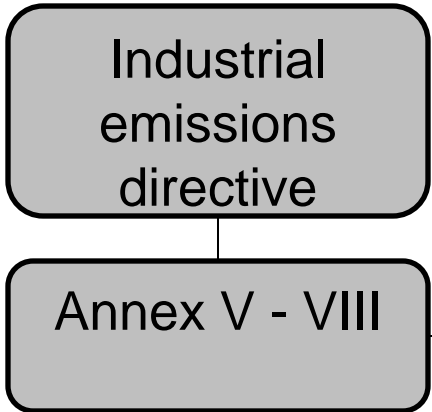
*art. 15.3b:*

setting different ELVs than those referred to under point (a) in terms of values, periods of time and reference conditions.

the competent authority shall, at least annually, assess the results of emission monitoring in order to ensure that emissions under normal operating conditions have not exceeded the BAT-AEL

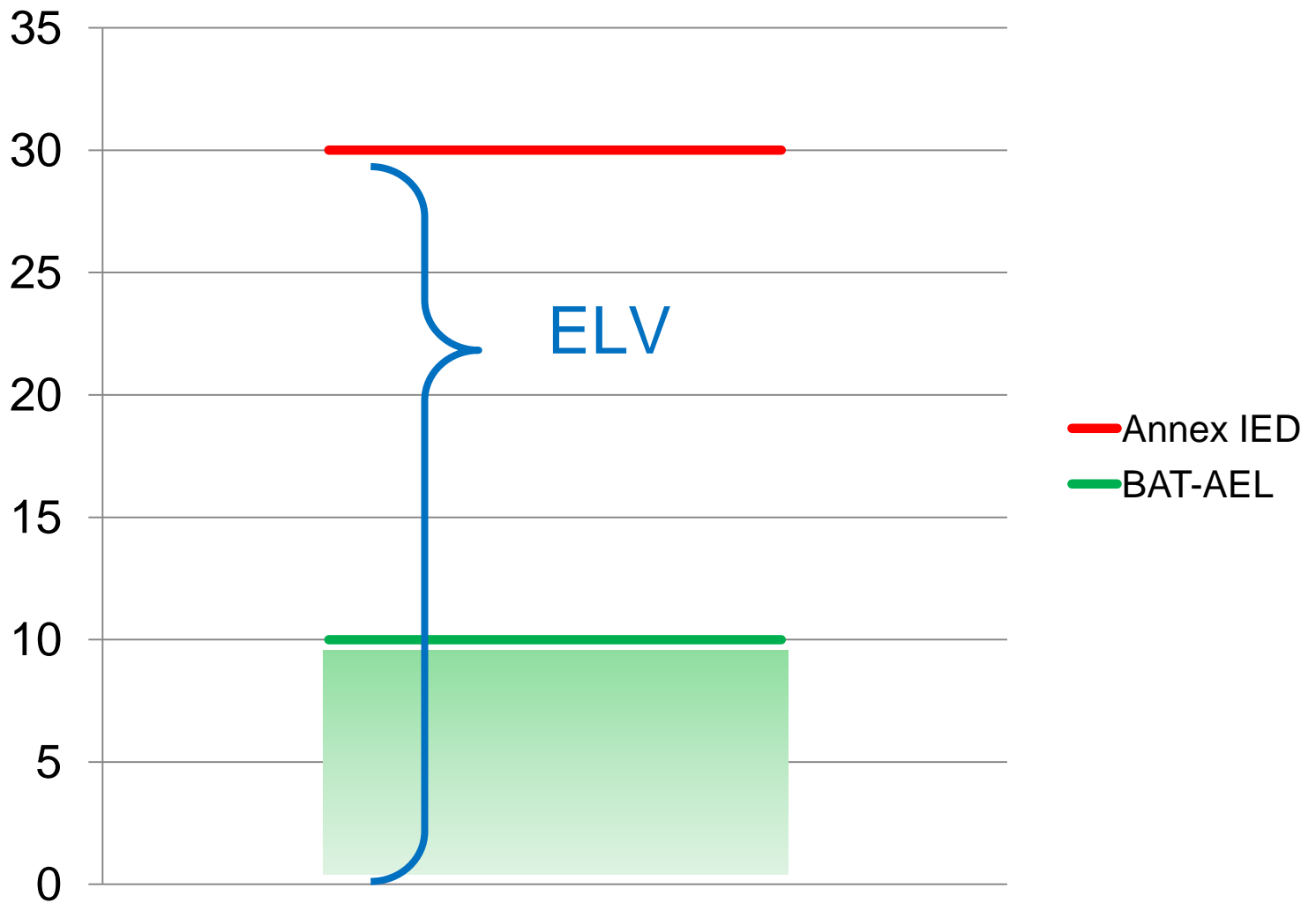
*art. 15.4:*  
 ELVs shall  $\leq$  emission limit values set out in Annexes V to VIII of the Directive

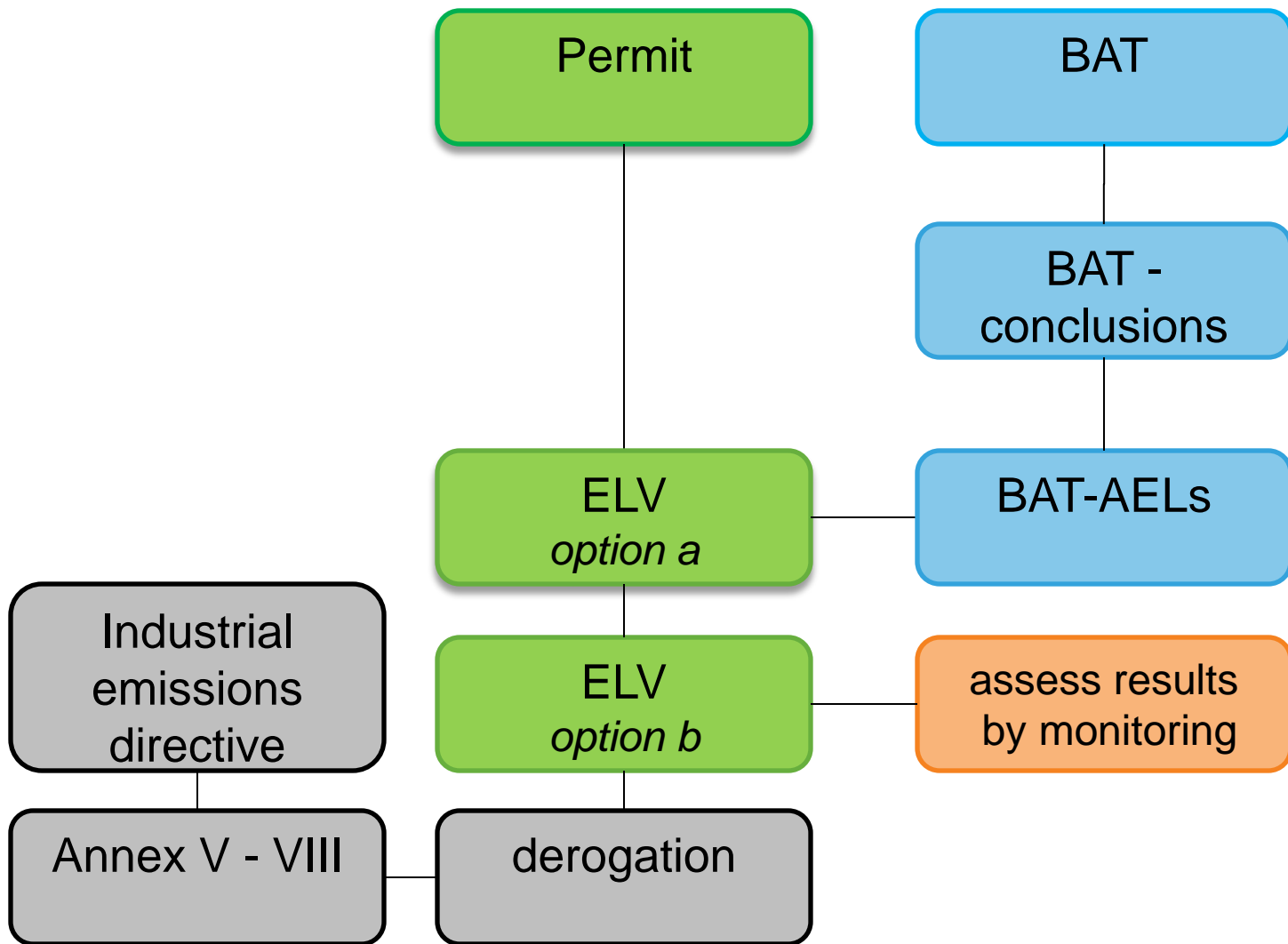
*the ELVs of Annexes V – VIII are independent of the sector an can be seen as the absolute limit for emissions*

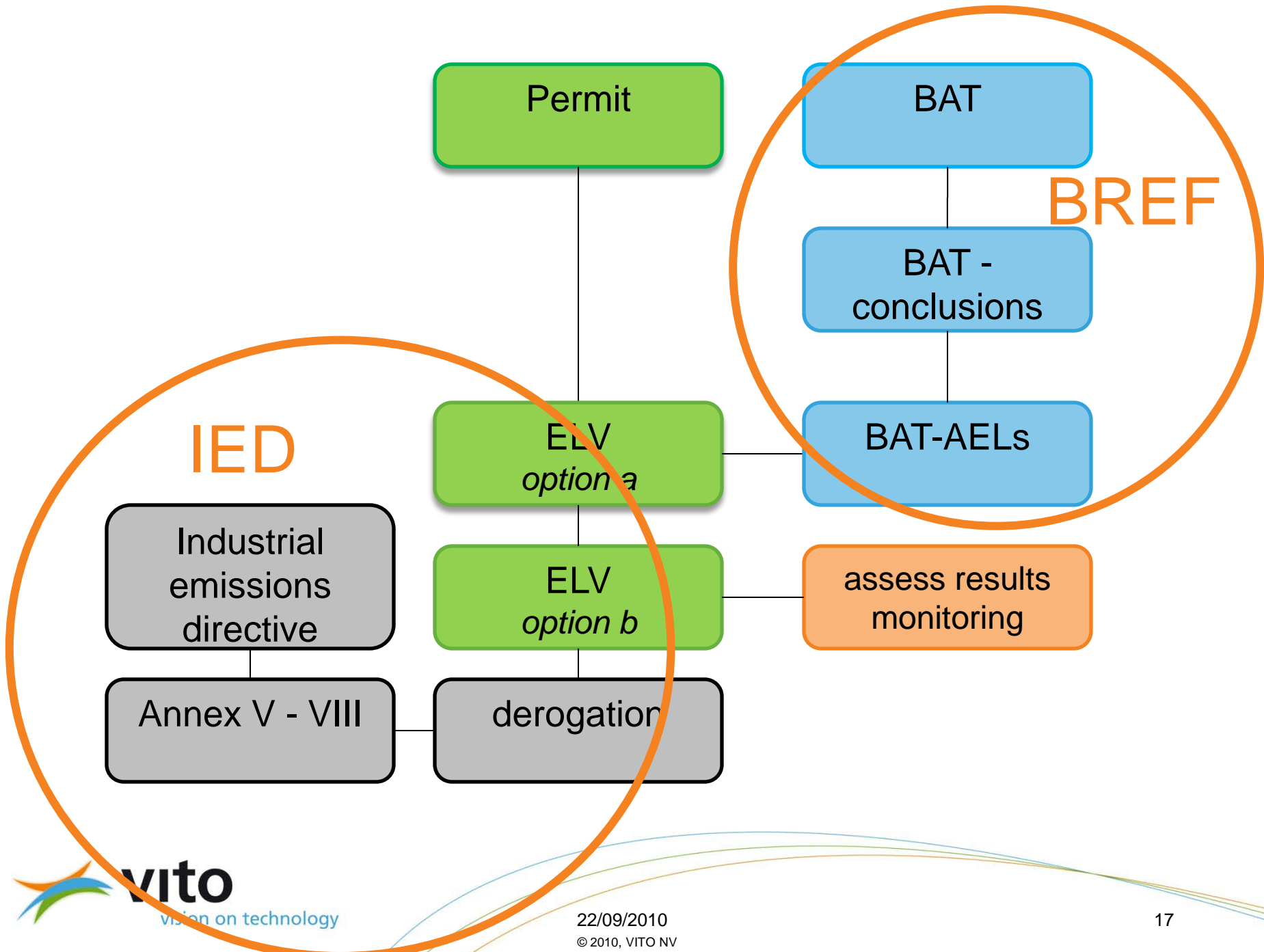


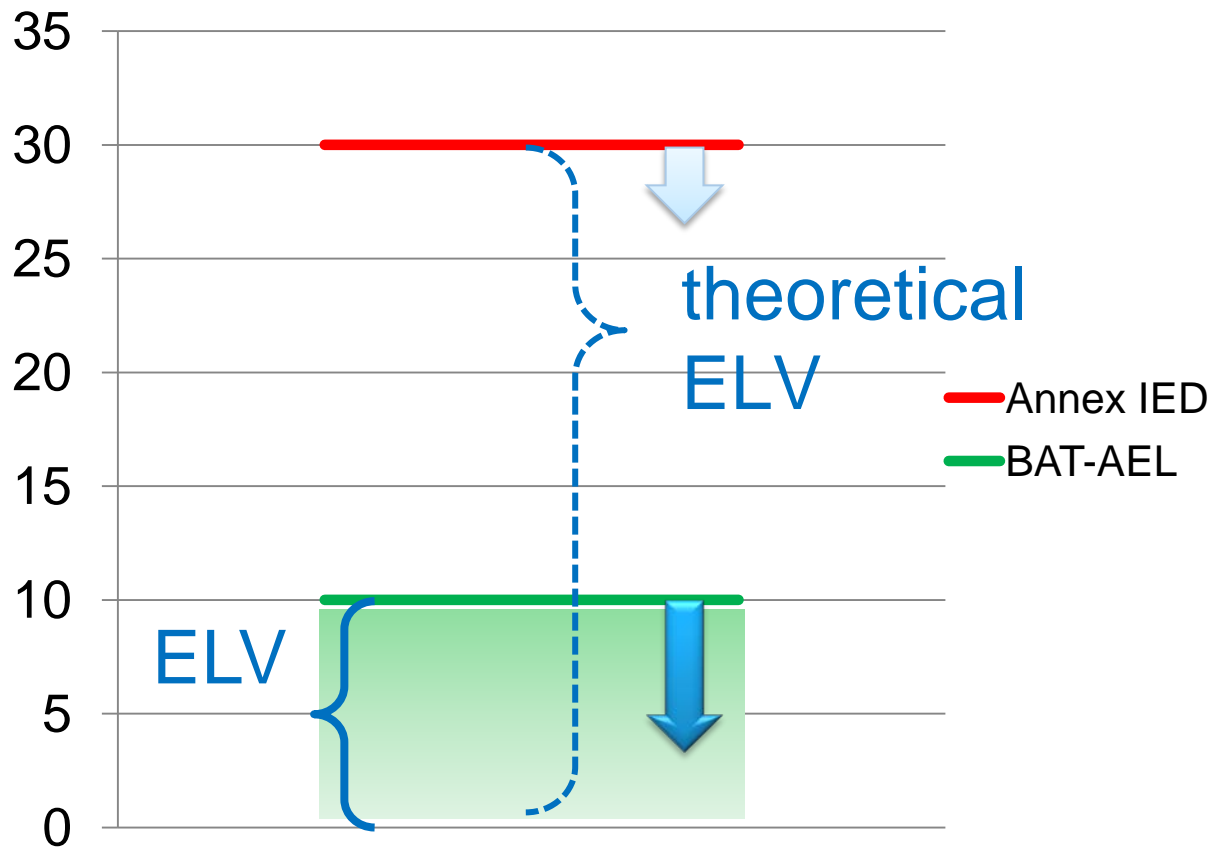
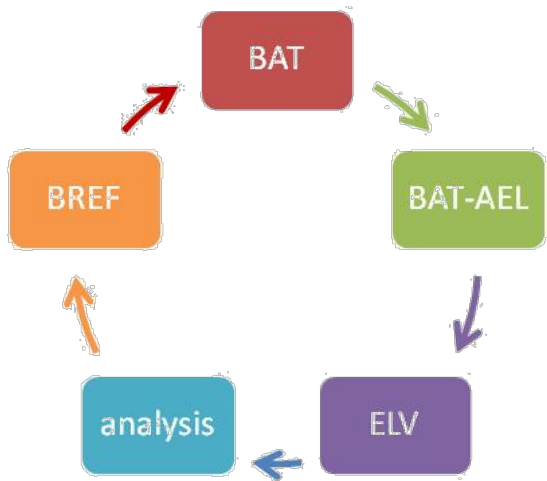
*art. 15.4*  
 derogation of (a) and (b): in specific cases, on the basis of an assessment of the environmental and economic costs and benefits taking into account the technical characteristics of the installation concerned, its geographical location and the local environmental conditions, set emission limit values

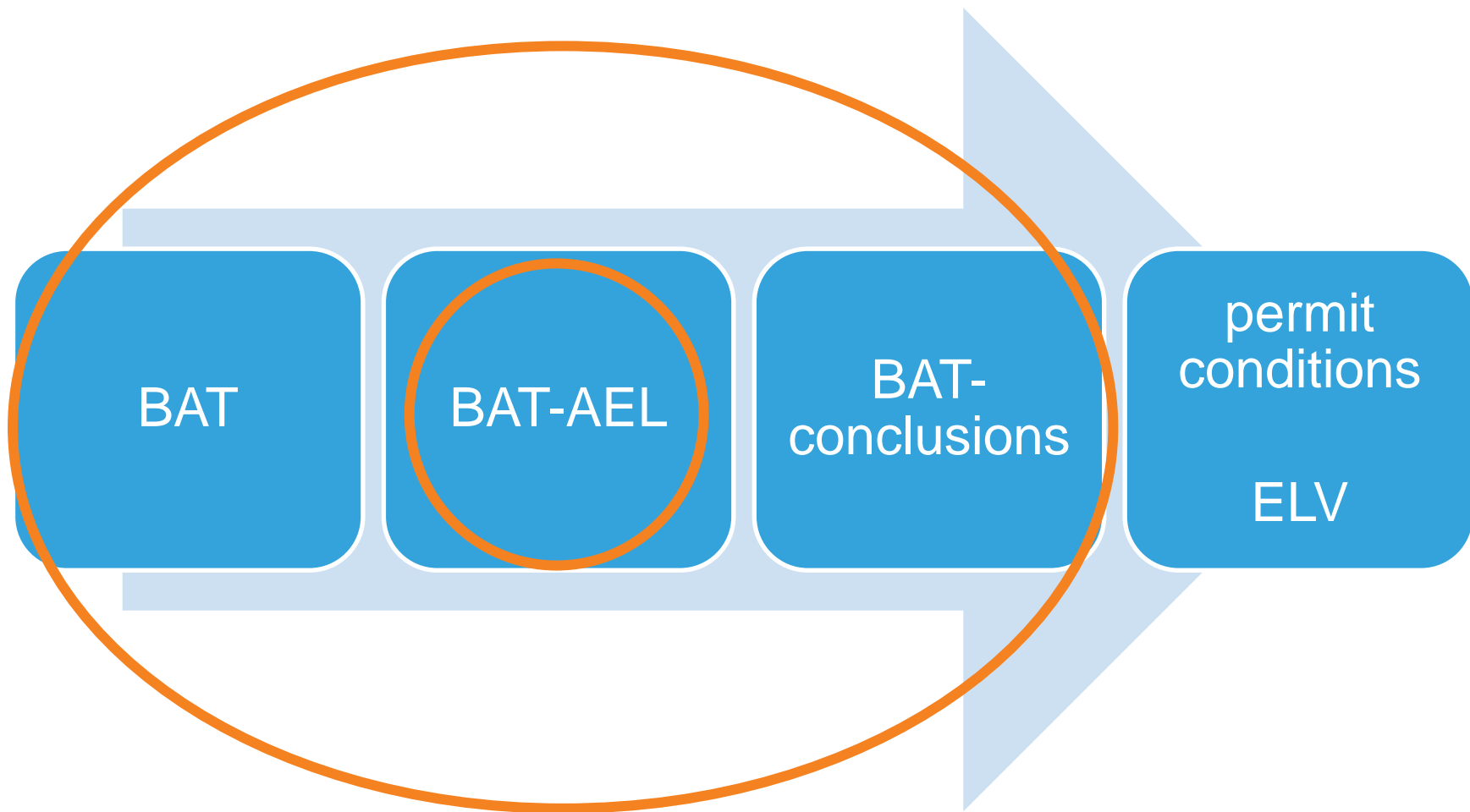






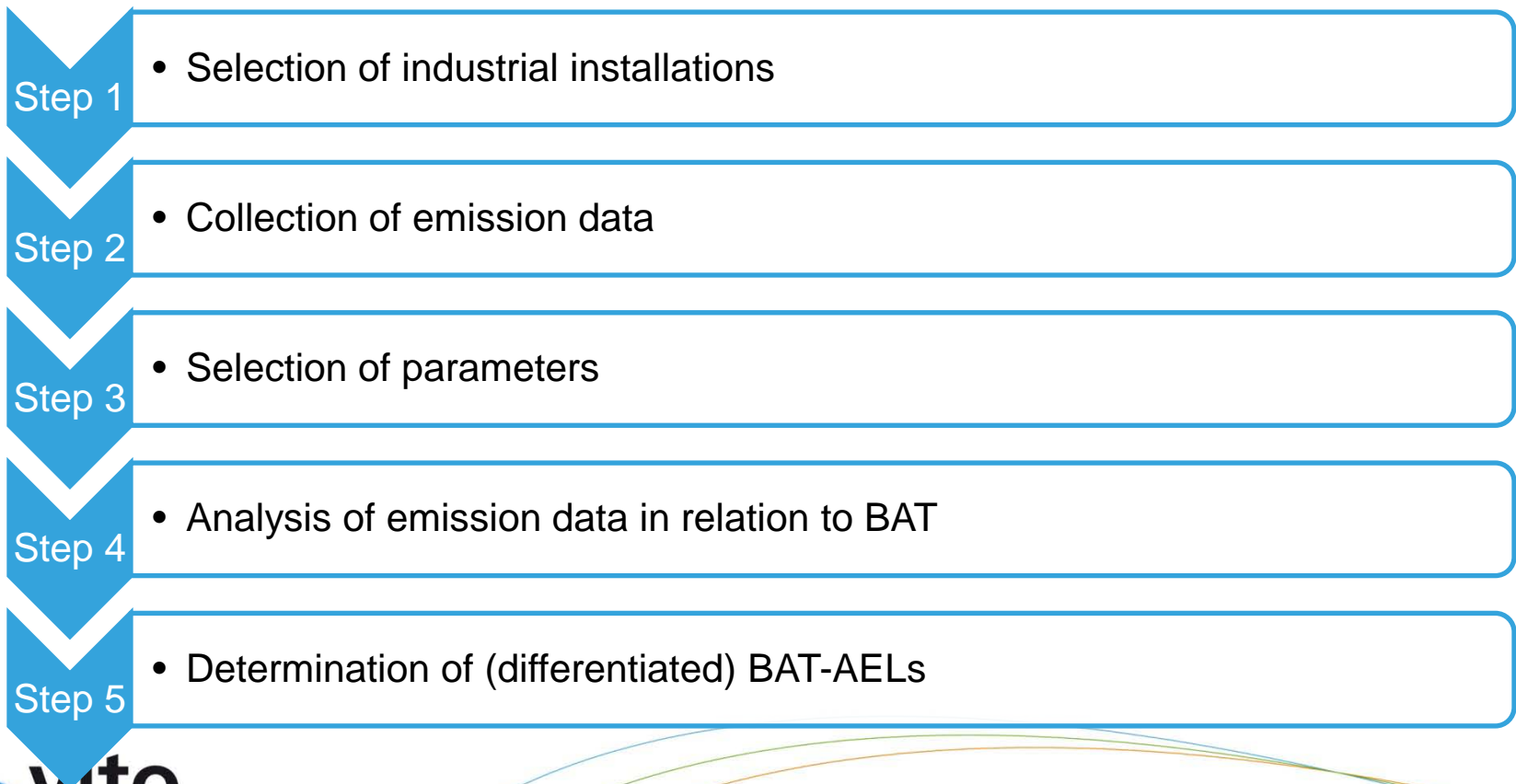


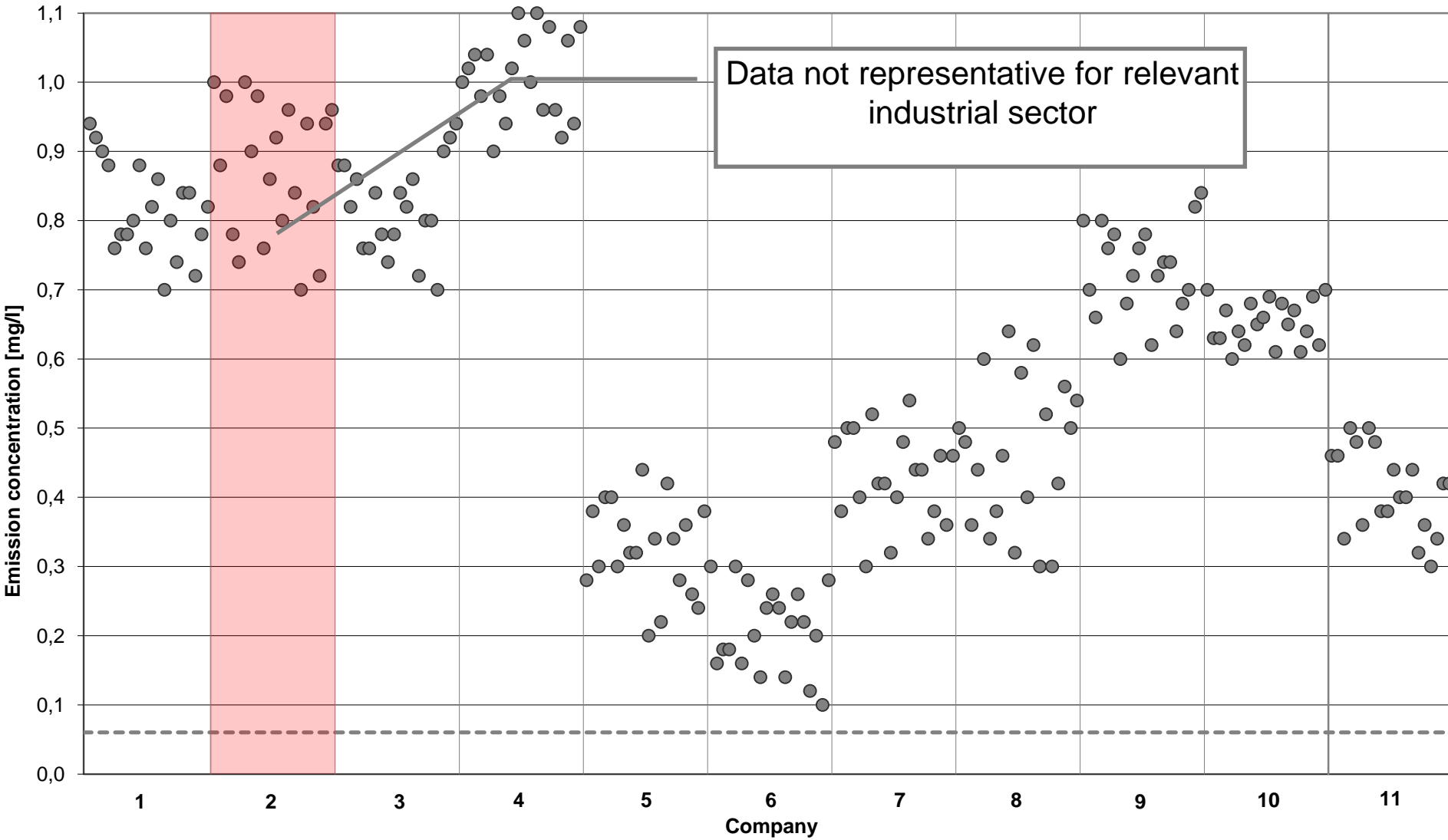




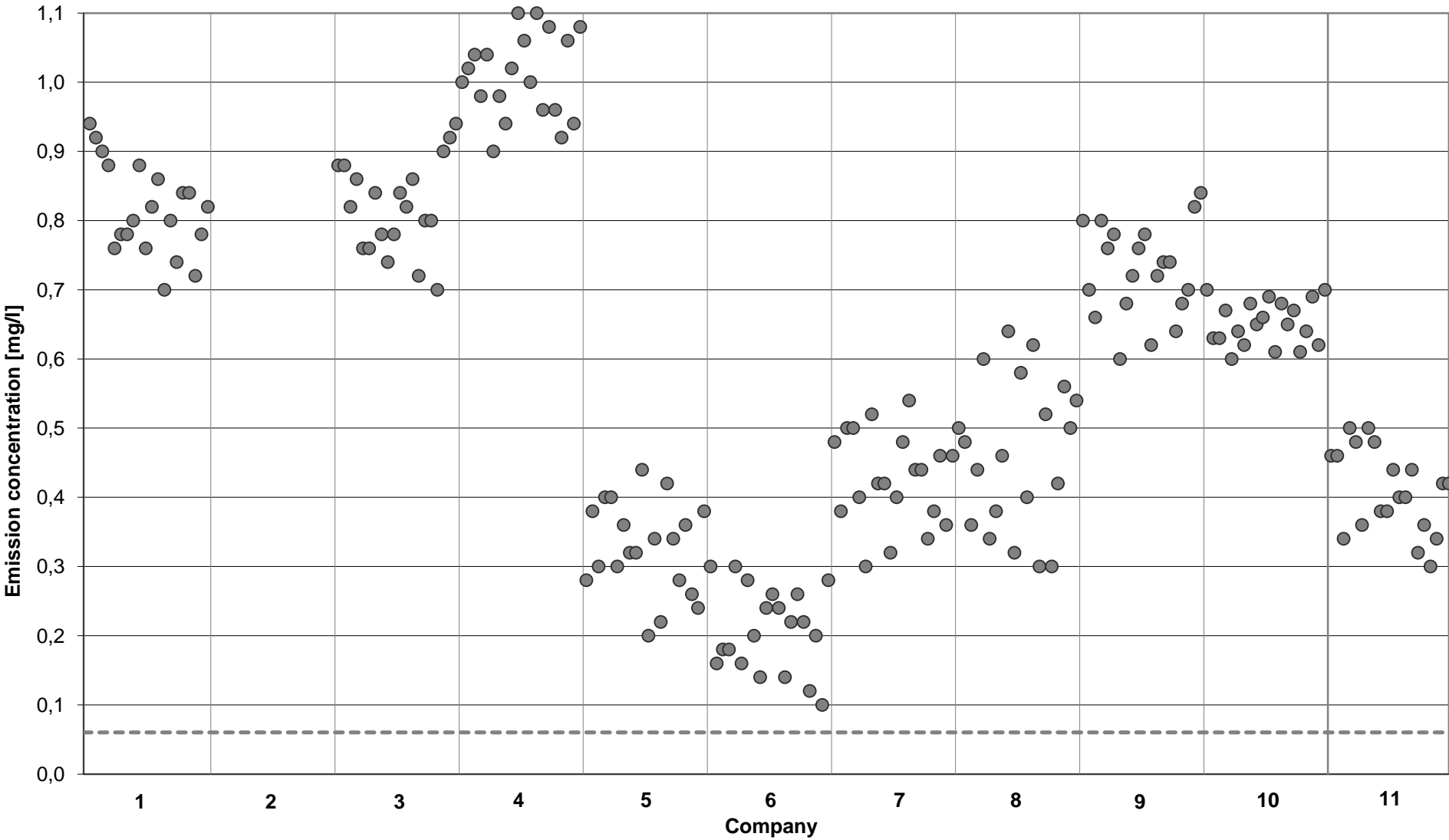
# Methodology for determining BAT-AELs

- » Stepwise methodology based on detailed analysis of existing emission data and background information
- » BATs are known



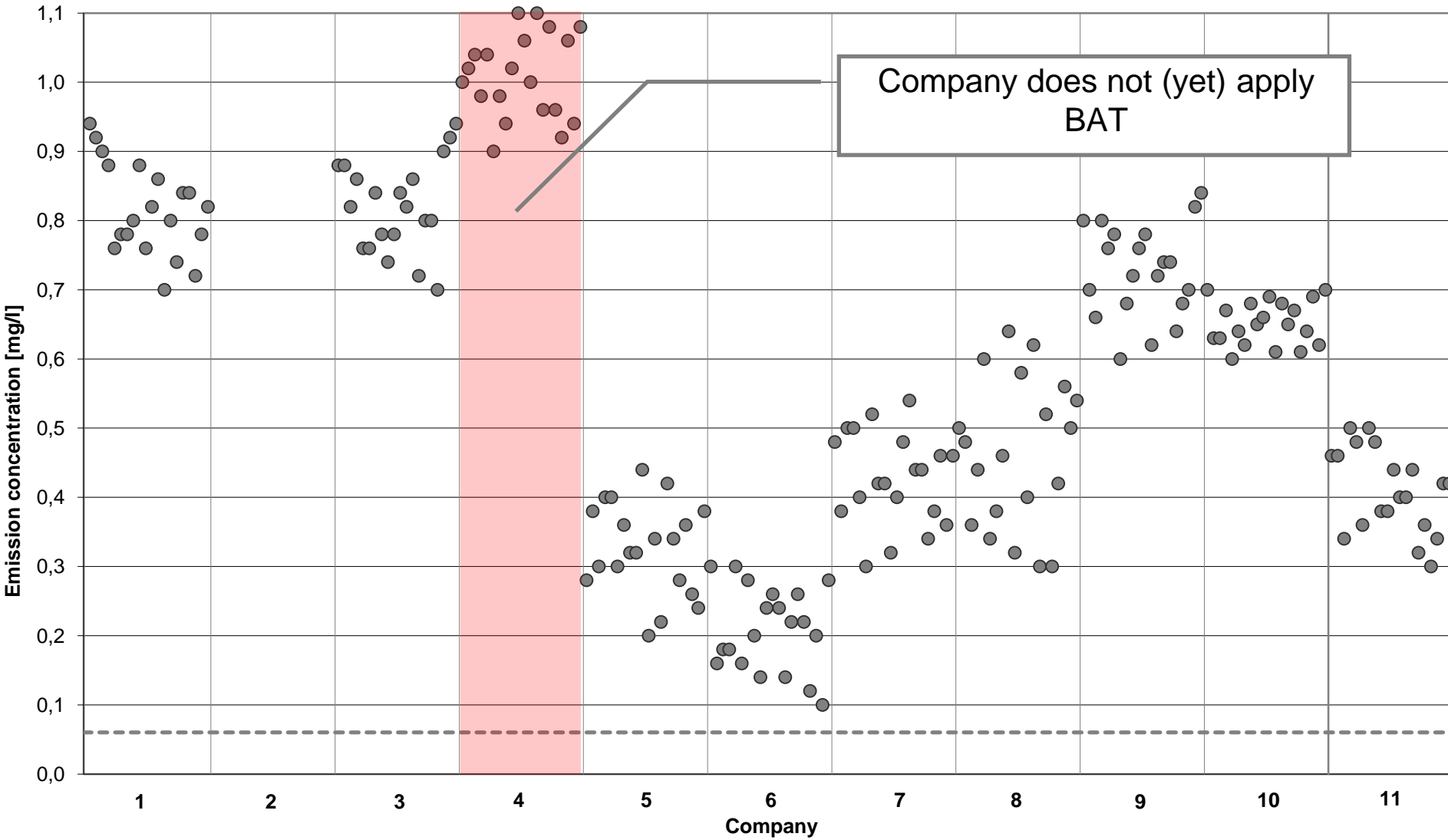


--- Environmental quality standard

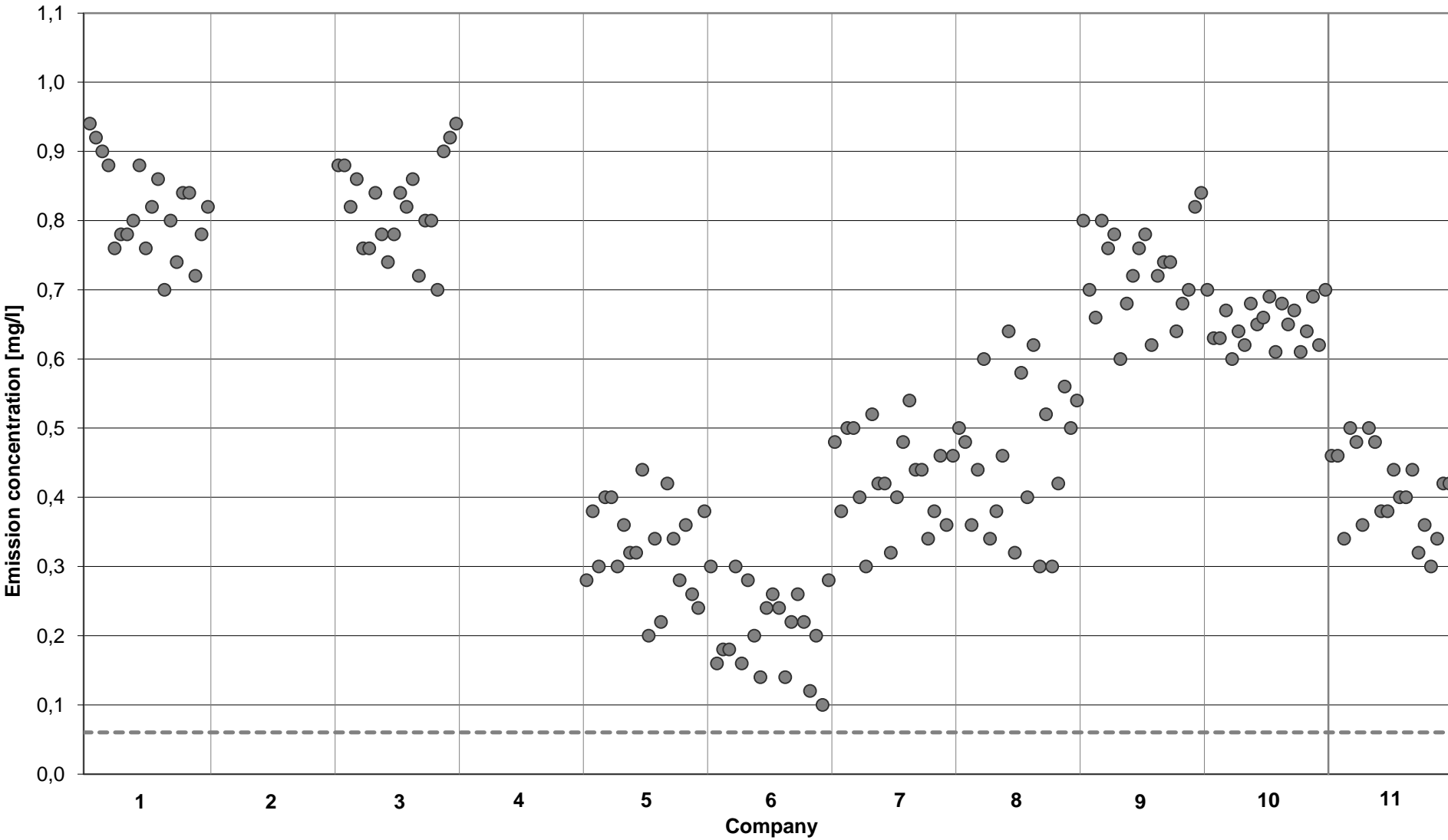


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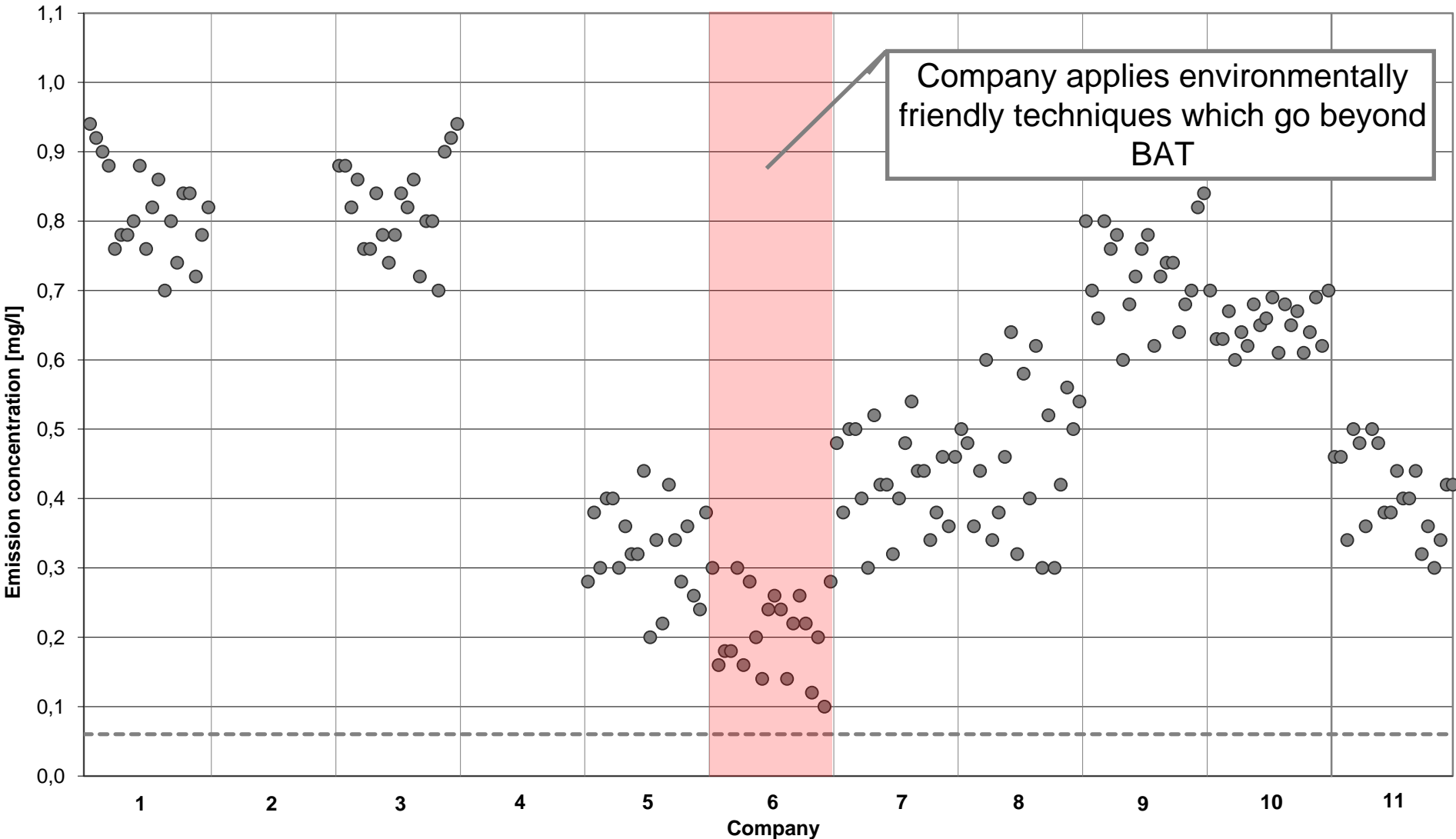


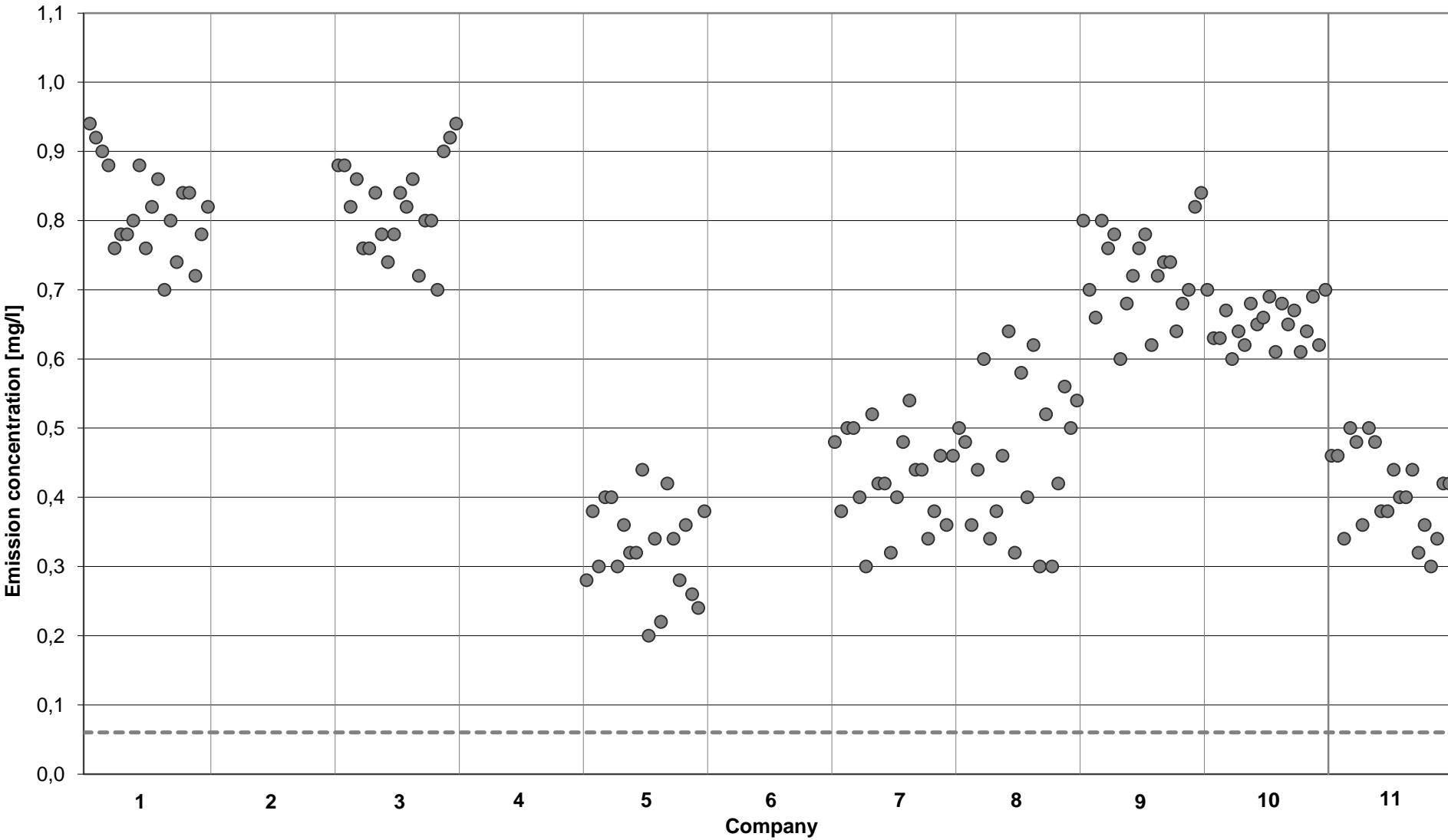


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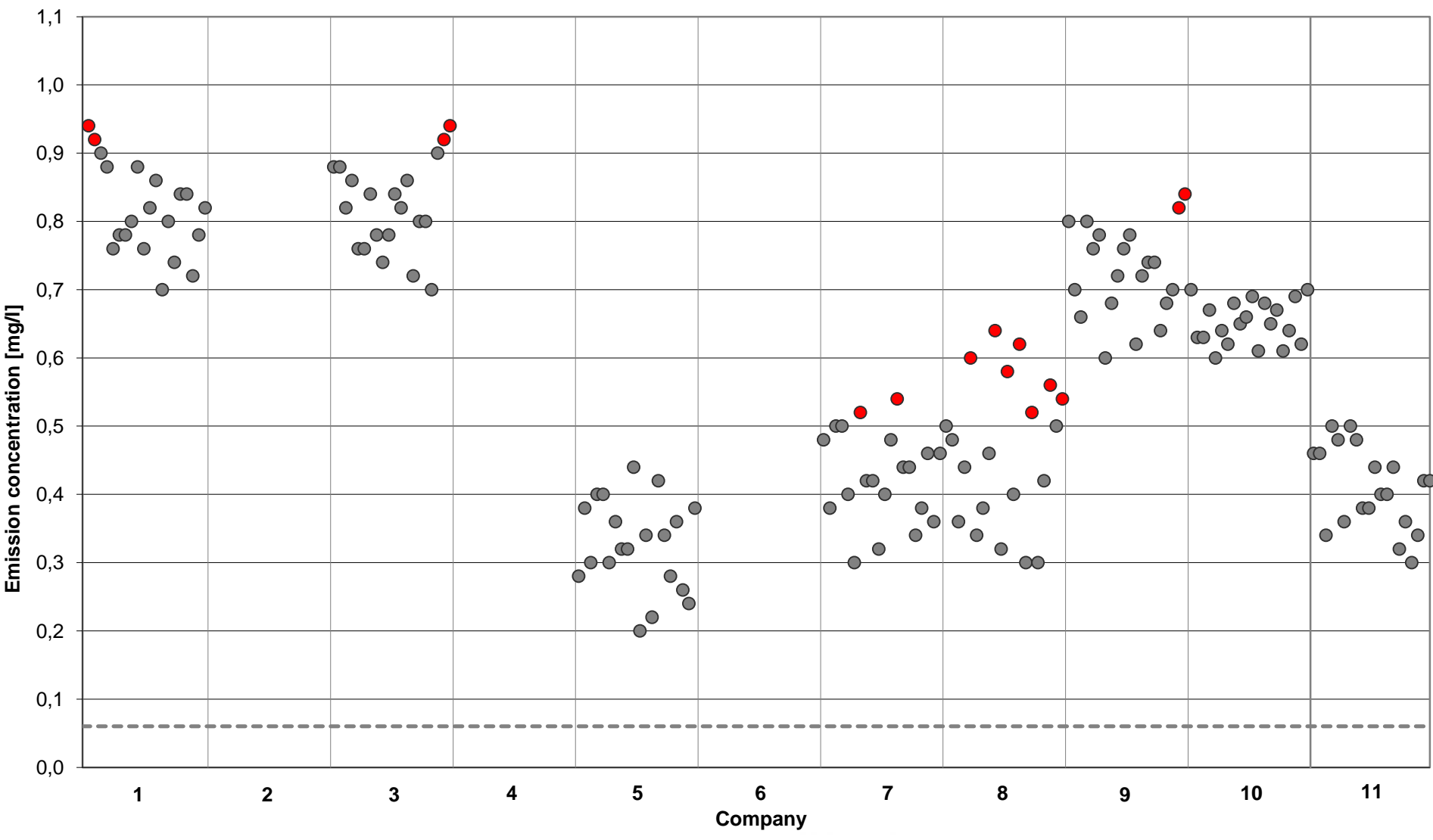


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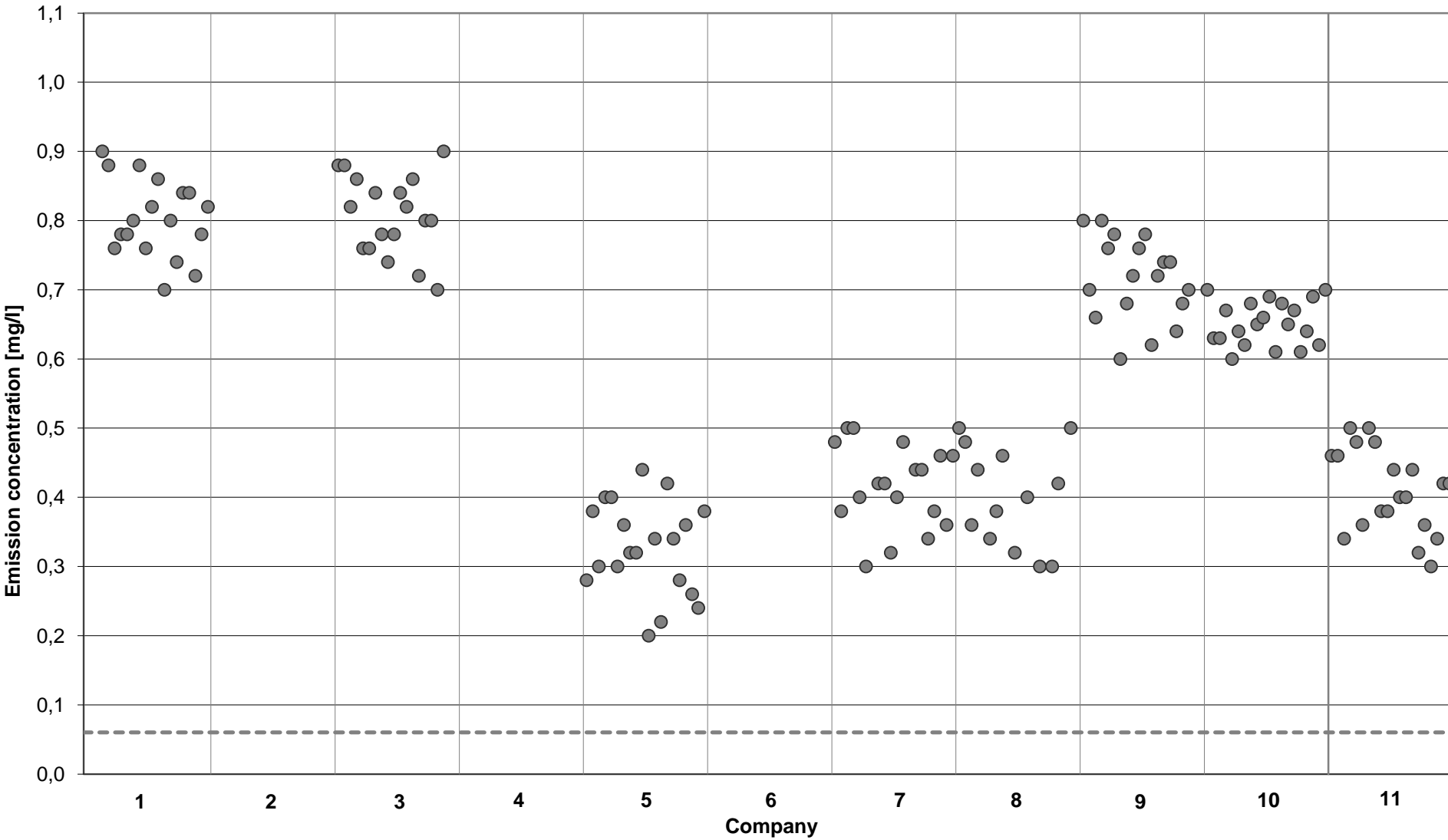




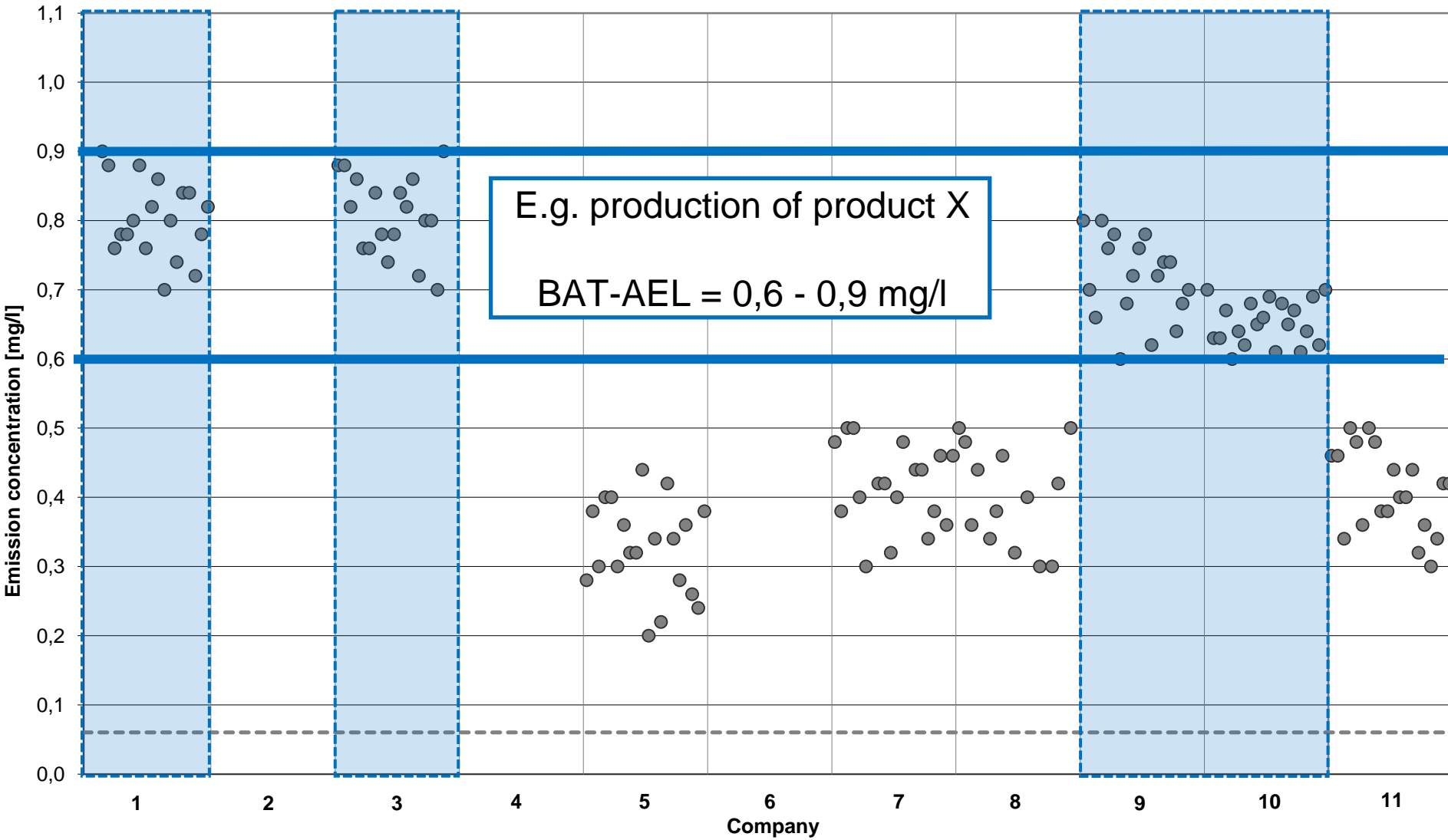
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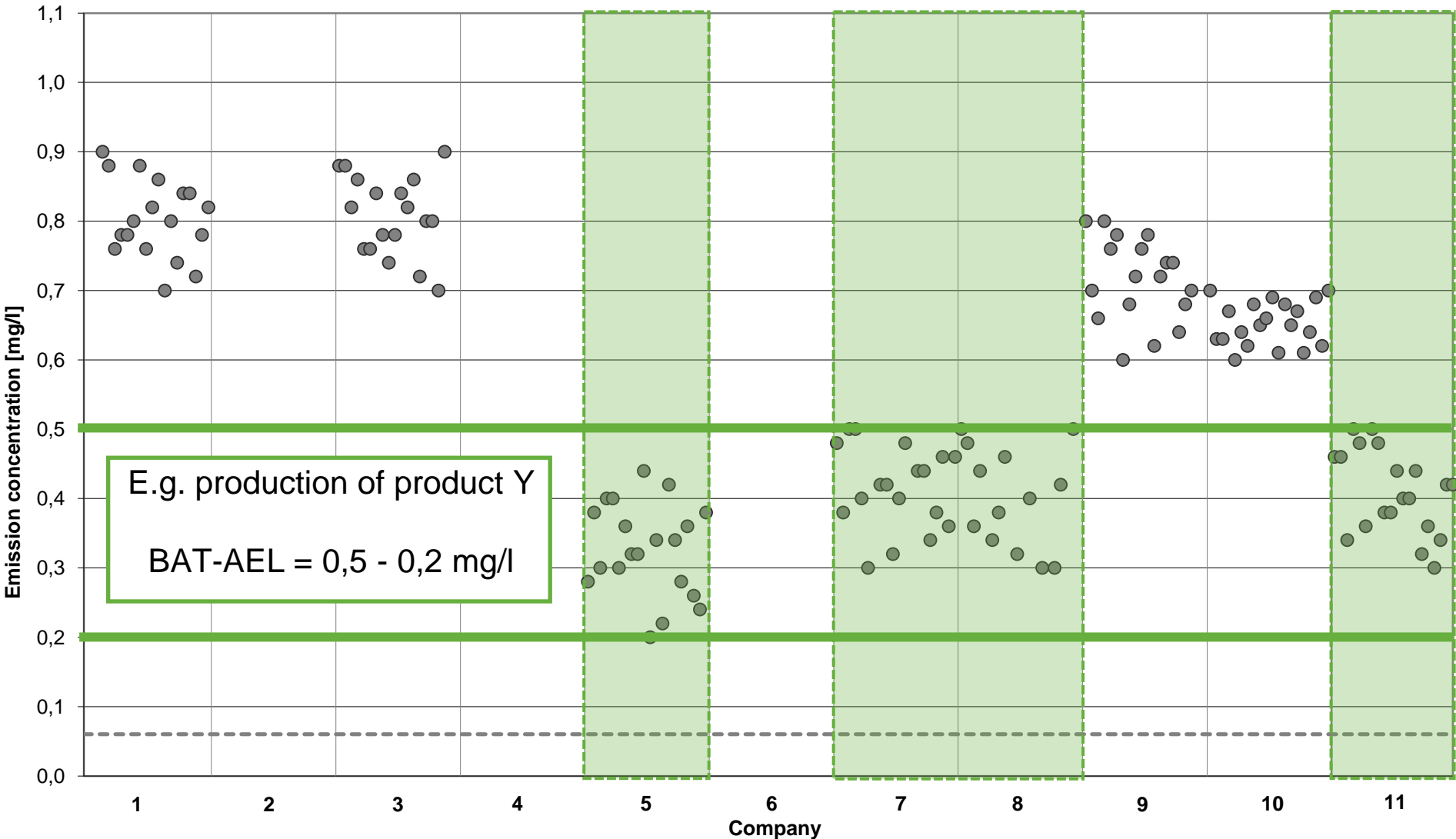
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----- Environmental quality standard



# Conclusions

- » Up to now: no clearly established and generally accepted methodology for determining BAT-AELs at sector level
- » Methodology developed:
  - » Will increase objectivity and transparency of BAT-AELs determination process
  - » Will increase level of consensus on BAT-AELs, thus ELVs
  - » Is also applicable for determining BAT-AELs for other environmental aspects (other than discharge of industrial waste water)

BREF with well founded BAT-AELs will lead to similar permit conditions and a better environment.