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IED BREF Update

BCCI HSE conference, Sofia March 28th, 2019

Stefan Drees, Cefic BREF Manager







Update on WGC BREF

BREF news

News from EU COM



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WGC BREF





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Status Data Collection

- On January 29th, JRC published the first draft report, updated set of data posted on Feb 13th,
- Deadline for submitting questionnaires extended to Feb. 28th, 2019
- JRC has received >700 non confidential Q's, >200 confidential Q's
- All non-confidential Q's are on Batis
- >> 300 charts produced by the JRC thus far
- All current charts and reports are tentative as there are still more questionnaires coming in



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ollection (tentative)



Number of Questionnaires

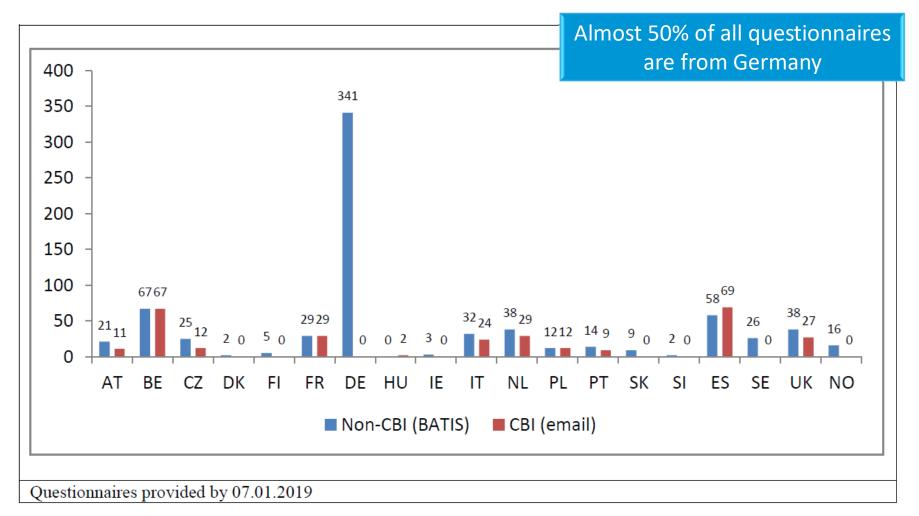
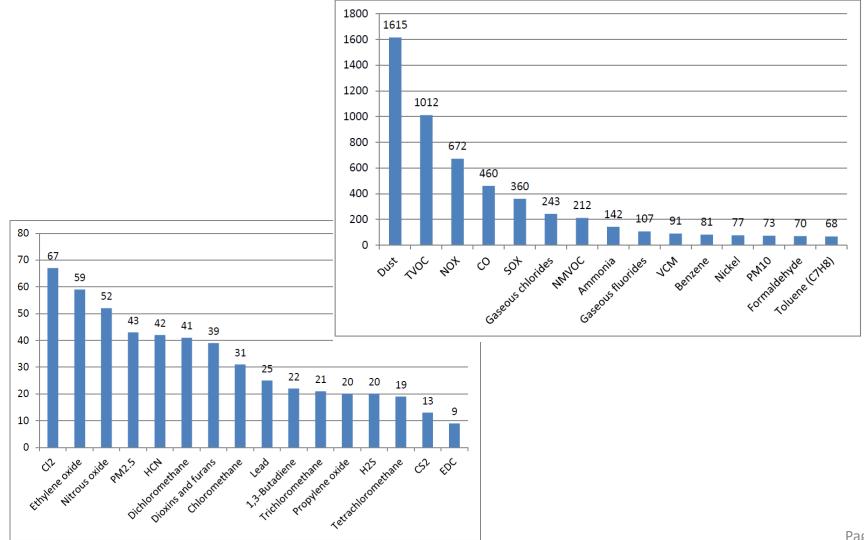


Figure 2-2 Number of questionnaires by Member State



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Unified Pages and Expanded Featuresental Issues (tentative)Number of channeled emission points







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Status Data Collection (tentative) Backup Information



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ollection (tentative) Number of IED Installations



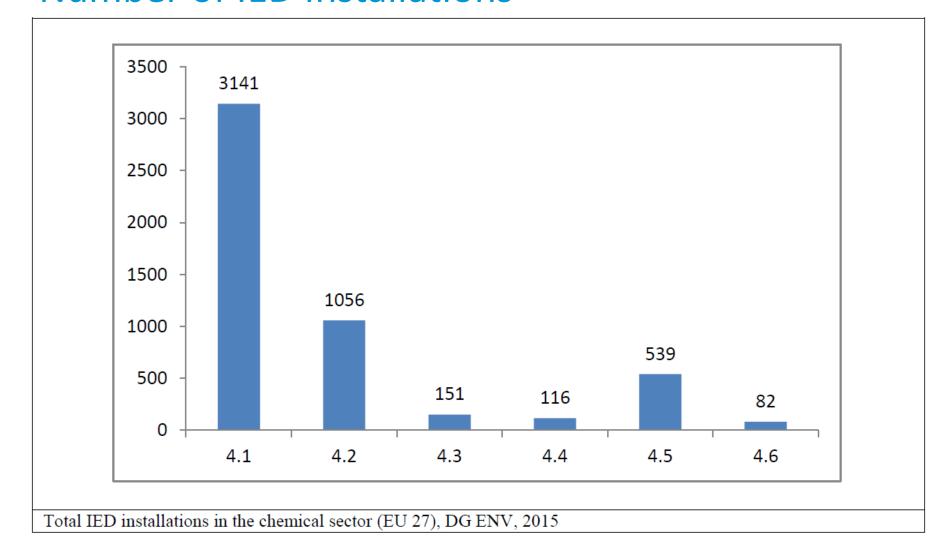


Figure 2-4 Number of IED installations by chemical IED activity

J



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Data (tentative) Typical Charts provided by JRC



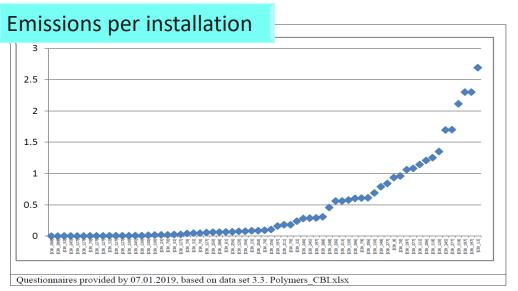
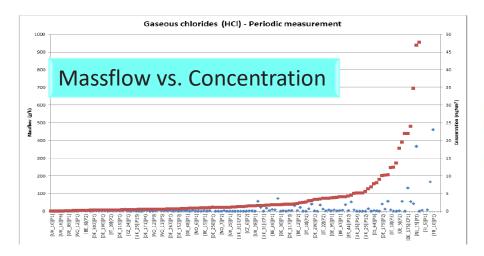
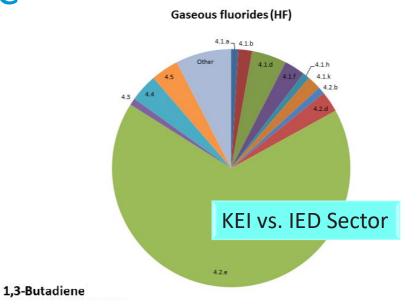
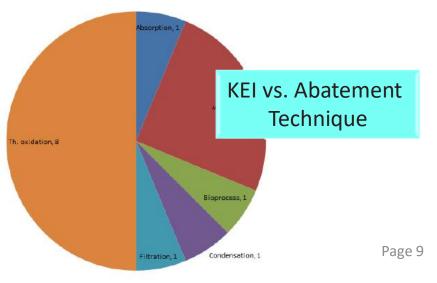


Figure 2-20 Polyolefins - specific TVOC emission loads (kg/t product)









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ons (tentative)



Number of Questionnaires

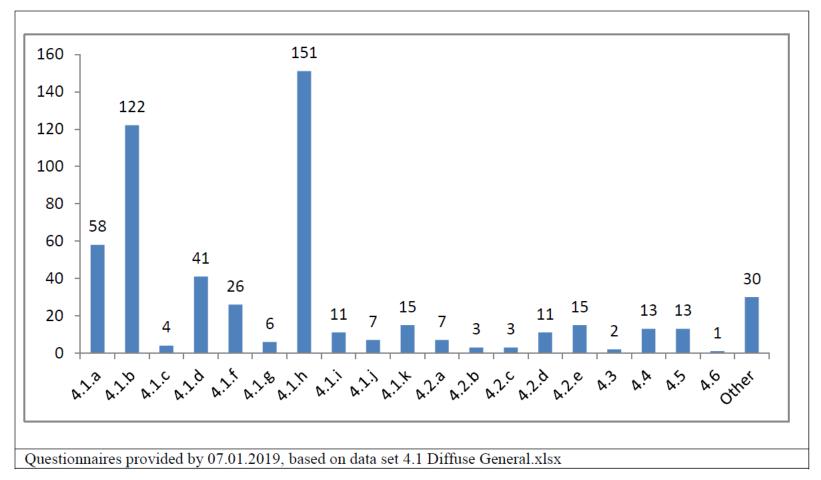


Figure 2-33 Diffuse emissions to air – number of units by main chemical IED activity



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ons (tentative)



VOC Emissions

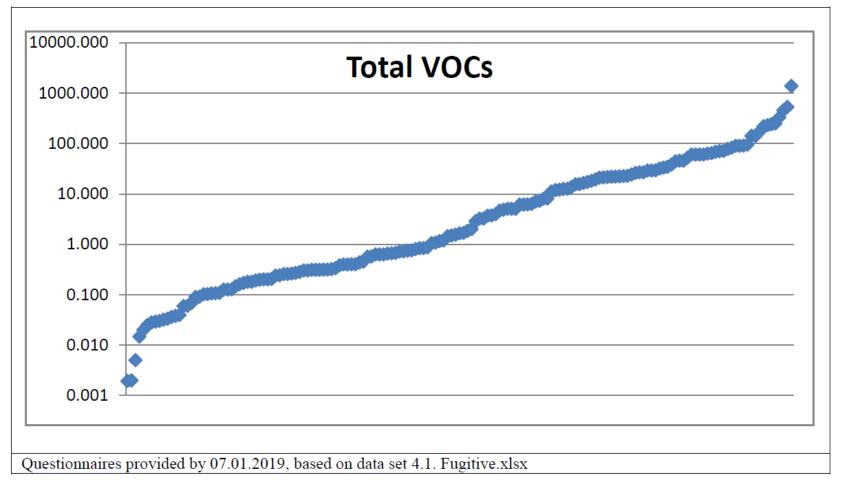


Figure 2-40 Fugitive emissions to air – Total VOCs (t/yr) by unit



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Input vs. Output (emissions)

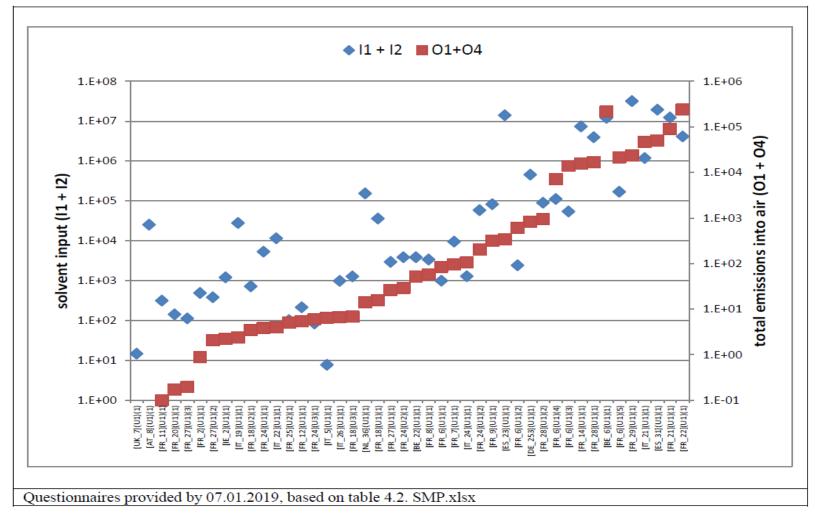


Figure 2-71 Solvent management plan - quantity of solvent input versus channelled (O1) and uncaptured (O4) emissions to air (kg/yr)



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Caretaker

Volunteers needed





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Typical tasks/questions

- Explaining why emissions are high (and low, e.g. lower end of the data collection)
- > Specificities which can explain outliers (both high and low emissions)
- Background information of the installation and the process, e.g.:
 - Last upgrade; specific situation of a site (e.g. raw materials, interlinkage with other units, permit requirements, quality requirements, customer demands, space restrictions, plant layout ...);
 - > Potentially confidential information (utilization, shutdowns, turnarounds ...)
- Cooperation across sector and amongst companies needed (where legally possible)
- ➤ → the caretaker has to be very familiar with the topic he/she is covering!!
- > Cefic, Plastics Europe and PetroChems will involve an external support.



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Timeline WGC







- Workshop data collection June 4/5th, Sevilla
- " Draft 1 "at the end of 2019" (S. Roudier)
- ["]Site visits: three companies in Southern France June 17-21st
- " Finalization of the BREF: 2021



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Other BREFs





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WI BREF

Waste Incineration





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Cefic's summary and view

- ^{*} Final Meeting April 2018. Six delegates from Cefic. Results mostly acceptable.
- ["] Split View Assessment was received on Sept 28th. SV's into which Cefic was involved were not considered favorably.
- ["] Comments were requested by Oct. 26th
- Cefic decided not to comment but to prepare for the discussion during the Art. 13 Forum.
- ["] On Nov 14th, five industry associations complained to DG ENV and JRC about e.g. measurement uncertainty, OTNOC (other then normal operating conditions) and EOT (effective operating time). Cefic did not co-sign.
- ["] Final draft issued on Dec. 14th, 2018.
- CEWEP and ESWET sent a letter to DG ENV/JRC on Dec. 29th, since the topic of measurement uncertainty was not reflected in Chapter 5 of the Final Draft.
- ["] Art 13 Forum was held on 27th, 2019. Cefic participated with three delegates
- ["] The Forum formed a positive opinion of the BREF
- ["] Art. 75 Committee will vote in June 2019



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STS BREF

Surface Treatment with Solvents





Update

reatment with Solvents) BREF

- ^{["] Final Meeting December 10-14th}
- "Lead by ESVOC, Cefic and other associations cooperated in preparation for the FM
- Industry has raised nine Split Views, Cefic is involved in two of them (monitoring of VOCs, rotogravure)
- "Evaluation of SV's issued on February 27th, one rejected, one partially accepted
- We currently prepare our comments.
- ["] Art. 13 Forum in June 2019





Short Summary

- Cefic was not following the WPC BREF but attended the Final Meeting in Sevilla
- BATc's were proposed which would have established a 'ban' on solvents and biocides. Cefic objected and the BAT 35 and BAT 36 were significantly rephrased. UK supported Cefic's position.
- "Surprisingly low participation of the industry sectors affected by this part of the BREF.



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TXT BREF

BREF on Textiles





Click Here to upgrade to Unlimited Pages and Expanded Features Cefic's summary and view



- Kick Off Meeting June 2018, Cefic attended. TXT is a 'chemical BREF in disguise'
- Based on the input by the BREF IT we focused on flame retardants and the general process of the TXT BREF.
 - ["] First BREF to use the Ricardo Approach for pre-selection of KEI's
- ["] Questionnaire Nov 15/16th, 2018, Cefic attended
- Some Cefic members are affected by this BREF as their processes are reaching into the scope of the TXT BREFs. They are informed via CIRFS (European man-made fibers association)
- ["] The TWG discussed three drafts of the questionnaire, the number of textile processing in the scope of the 3rd draft was vastly reduced.
- ["] Data collection has begun, Cefic only as observer



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SA BREF

Slaughterhouses and Animal Byproducts





rhouses) BREF



Scope

- 6.4 (a). Operating slaughterhouses with a carcass production capacity greater than 50 tonnes per day.
- 6.5. Disposal or recycling of animal carcases or animal waste with a treatment capacity exceeding 10 tonnes per day.
- > TWG reactivated, Call for initial positions sent on Dec 17, 2018
- Pre-selection of KEIs via Ricardo Study
- ➢ Cefic involved via gelatin sector (GME) → initial position submitted in February 2019
- Position of GME: the manufacture of gelatin is highly diverse, with very different raw materials, different processes and very different uses. Gelatin could be taken out of scope.



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The Future







The current Round of BREF Reviews

12th Art. 13 Forum (Nov 27th, 2018) :

- > ONE combined LVIC BREF following the WGC BREF
- NO further chemical BREFs in this round of reviews (e.g. no POL, OFC, SIC BREF)



The next Round of BREF Reviews



12th and 13th Art. 13 Forum :

- Members (incl Cefic) favor work on EFS (Emissions from Storage) BREF, some the ICS (Industrial Cooling Systems)
- Less support (Cefic: no) for the ENE (Energy Efficiency) or the ECM (Economics and Cross Media Effects)
- > No clear opinion on combination of ICS and ENE (Cefic: against)
- Cefic provided written response
- Several members suggested a workshop



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Art 13 Forum Membership

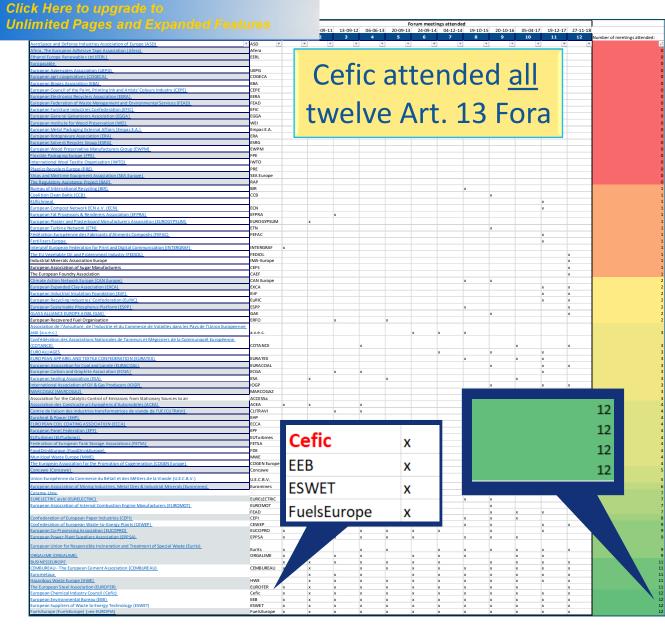






- The members of the Art. 13 Forum form an opinion of a BREF, upon which the Art. 75 Committee votes
- Only members of the this Forum may nominate members to the TWG (Technical Working Group)
- ["] Cefic is a member of the Forum since the beginning.
- In the 13th Forum (February 27th, 2019) DG ENV asked for proposals how to deal with the increasing number of associations.





Your complimentary



11 attended one meeting 9 attended three meetings 10 attended four meetings 13 attended five to nine meetings 9 attended eleven or twelve meetings

meetings



European Commission

Complete

T





- Since the number of BREFs discussed in the Forum increased, the number of association naturally increases as well
- " Participation of stakeholders in such Fora is a positive sign of interest in the work of the DG ENV
- Why divide the Forum into regular members and those who only attend for a certain BREF? DG ENV should ask all whether they want to continue their participation.
- "But if the Forum is split, Cefic sees itself in the group of regular members.
- " IEA members (Industrial Emissions Alliance) will respond individually.



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News from EU COM

IED Evaluation 2019





the IED / Context / Status



- ["] DG ENV had verbally announced an **evaluation of the IED** in fall of 2018
- ["] Publication of the evaluation roadmap on Nov 6th, 2018
- ["] Presentation at the Art. 13 Forum on Nov. 27th, 2018



First steps taken by CEFIC and VCI

- ^{*} Inform and consult Members / align with Industrial Emissions Alliance (IEA)
 - On Nov 28th, IEA agreed that members will send individual responses
 - Industry: EWWG, ESPP, ACEA, CEWEP, Eurofer, Business Europe, VCI, ESWET, EURACOAL, Cembureau,
 Intergraph, EUCORPO, Cefic, Fuels Europe, EXCA, HWE, Ceramunie, EUROMOT, ECCA, EurEau, CIFF, EuRIC,
 - Others: EEB, Sweden, Austria
- Final position were shared via <u>central public consultations portal</u> by 4th of December.
- The evaluation will be 'looking backwards'. This is NOT about improving the IED (yet).



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Summary of industry responses

he IED

- Evaluations must be based on the best available data = pre-conditions to design fitfor-purpose directive
- ["] Premature evaluations may only paint a distorted picture of the expected status quo.
- ["] Timeline which has been suggested contradicts the report on the "implementation of the [IED] ..", which DG ENV published in Dec. 2017.
 - Report states that "... to early to see the practical results of the change to the IED ..." (report, pg. 12)
- Are sufficient data available to allow for an accurate analysis?
- We agree with the conclusion of DG ENV that 50% of the installations have already been reviewed, but this does not mean, conclusions have already been implemented
- \rightarrow All this leads to question the timeliness of the IED
- Cefic Subteam has been established

| IED Evaluation Team | | 1 |
|---------------------|------------|---------|
| | | |
| Drees | Stefan | |
| Reinold | Andreas | |
| Wiechmann | Benjamin | |
| Dalebout | Emile | |
| Frank | Markus | I |
| Moritz | Christoph | I |
| Stingl | Thomas | I |
| Hess | Monika | I |
| Tietz | Cornelia | I |
| Caroly | Celine | I |
| Cassaghi | Pier-Luigi | I |
| Debeuckelaere | Serge | |
| Walters | Pete | Page 36 |



f the IED – Next Steps



- A 12-week online public consultation to be launched in late
 2019 in 23 official EU languages.
- ["] Targeted interviews with representatives of Member States', industry associations, civil society, and other key stakeholders. Target groups and representatives will be identified based on a stakeholder mapping (→ "Cefic is a major stakeholder and will be included")
- A workshop to ensure that stakeholder views are correctly understood. First firm date: May 22nd, 2019



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aluation of the IED



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tps://ec.europa.eu/info/law/better-regulation/initiatives/ares-2018-4758971_en



STAFF WORKING DOCUMENT

Industrial emissions - evaluating the EU rules

| • | In preparation | About this in | nitiative | | | | | | | |
|---|--|--|--|------------------------------------|--|--|--|--|--|--|
| | UPCOMING | Summary | Summary EU rules on industrial emissions aim to prevent or reduce pollution and waste generation from certain large industrial installations. This evaluation will assess how the EU rules are working and whether they benefit the public and industry. | | | | | | | |
| | Roadmap | | | | | | | | | |
| | | Торіс | Environment | | | | | | | |
| | FEEDBACK: UPCOMING | Type of act | Staff working document | | | | | | | |
| þ | Public consultation | Category | Evaluation | | | | | | | |
| | Consultation period Second quarter 2019 | Roadmap | | During several occasions (HAZBREF | | | | | | |
| | FEEDBACK: UPCOMING | | | Workshop, OECD BAT Workshop) | | | | | | |
| | Commission adoption | FEEDBACK: UPCOMING | | DG ENV proclaimed the start of the | | | | | | |
| | | Туре | | evaluation of IED in 2019 | | | | | | |
| | | Evaluation and Fitness C More about roadmaps. | Check Roadmap | | | | | | | |



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⁴ the IED – Cefic position



With particular view onto the chemical Sector, we note:

- ⁷ The majority of chemical installations is covered by the WGC BREF for which the data collection has just begun; the implementation of conclusions of the LVOC BREF is still ongoing. The evaluation of the sector for large inorganic chemicals has not even been started.
- ^{*} The WGC BREF will not be finished before 2021 and as such, BATs will not be fully implemented before 2025;
- ["]Hence, an evaluation starting now cannot consider the implementation in the majority of chemical plants in Europe.
- ["] It would be unwise to neglect the input of one of the largest industrial sectors in Europe.

With regards to the overall BREF Process:

- ["] The BREF process has significantly improvement in the most recent years (better frontloading; increased and improved workshops and data collection) but we are just beginning the reap the fruits of these improvements
- Some essential questions, e.g. the derivation of BAT-AELs are still not answered (in fact it was put on hold as long as the court case on the LCP BREF continues).

Conclusion:

VCI/Cefic suggest to postpone the evaluation until most of the IED sites in Europe have implanted decisions concluded under the auspices of the IED



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HAZBREF





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bject Unlimited Pages and Cefic's summary and view

HAZBREF: Hazardous Industrial chemicals in the IED BREF IED: Instrial Emissions Directive Water/Waste Framework Diretives POP: Persistent Organic Pollutants HELCOM: Helsinki Commision (Baltic Marine Environment Protection Commission)

- Kick Off Meeting in Helsinki, March 19/20, 2018
- Project seems to strive for significant overlap between IED and e.g. Waste FD, Water FD, POP Regulation, REACH and HELCOM
- Workshop WP3, Berlin September 25, 2018
 - // Report on WP3 ("Policy Improvement") /No input from Industry requested
 - In parts harsh statements about DG ENV/EIPPCB (e.g: "Lack of knowledge and mutual information" between DG's, EIPPCB and ECHA)
- In parts strong critique by DG ENV \rightarrow Report on WP3 under revision; revised version expected by Jan/Feb 2019
- Next workshop in Talinn, May 21/22, 2019, Cefic will attend
- Results of the HAZBREF can have a bearing on the IED evaluation



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Ricardo Study on Key Environmental Issues (KEIs)





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ental Issues (KEIs) Study by Ricardo



- In order to streamline the BREF process, better frontloading is required
- Pre-selection of KEIs is an essential part to save time
- In 2017 DG ENV contracted Ricardo to find a way
- Industry was involved but input was not much considered
- // Results applied for the next four BREFs (TXT, SA, SF (Smitheries and Foundries) and CER (Ceramics))
- // Cefic critiqued the focus on literature and the lack of data/quantifiable input
- However, the pre-selection has its merits!



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ental Issues (KEIs)



Study by Ricardo

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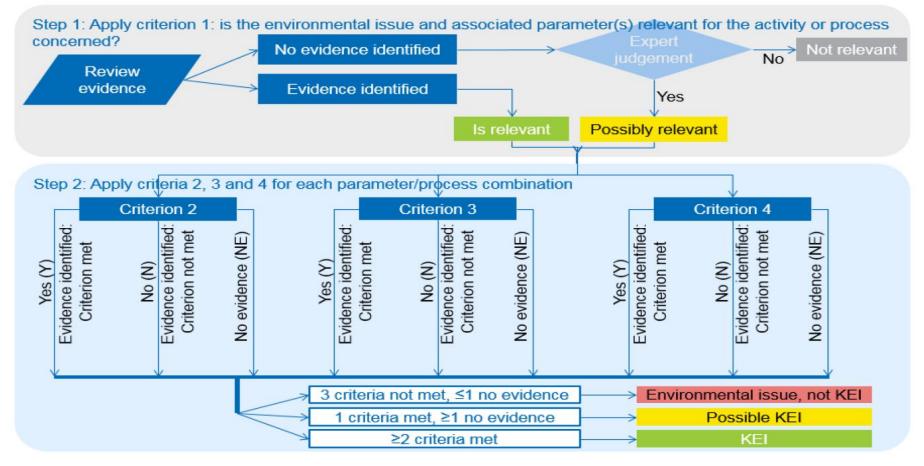
Ricardo Study

Criterion 1: are the environmental issues and associated parameters <u>relevant</u> for the activity or process concerned?

Criterion 2: Is the industrial process and its pollution and consumption a significant part of industrial pollution and consumption in the EU, currently or trending?

Criterion 3: the potential for identifying new or additional techniques that would further significantly reduce pollution; and

Criterion 4: the potential for defining BAT-AELs and BAT-AEPLs that would significantly improve the level of protection for the environment.





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ition Unlimited Pages and Expanded Features Ricardo Study – Example: TXT BREF

| Environmental issue | Parameter | Spinning Preparation for cotton fibres | Fellmongering | Spinning Preparation for wool fibres | Production of man- made filaments & fibres | Retting | Spinning | Winding, reeling and covering | Yarn steaming, setting, moistening and coating | Texturising, bulking and crimping | Doubling and twisting |
|------------------------|-------------------------------|--|---------------|---|---|---------|----------|-------------------------------|---|-----------------------------------|-----------------------|
| | Amines | | | | | | | | | | |
| | Ammonia | | r339 | | | | | | | | |
| | Asbestos | | | | | | | | | | |
| | Biologicallyactive substances | | | | | | | | | | |
| | Carbon monoxide | r318 | | r318 | | | r318 | | | r318 | r318 |
| | Chlorine and its compounds | | | | | | | | | | |
| | Cyanides | | | | | | | | | | |
| | Dust | r107 | | r345 | | | r345 | | | | |

Partial excerpt only!



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ition **Ricardo Study**



Suggested KEI classification for parameters relevant for spinning C2 C3 Issue C4 Proposal Parameter Root cause Possible Carbon Monoxide C2 KEI Mineral oil lubricants (r107: NE NE (that may contain PAH) Possible p3) Odour KEI C2 (r350: Possible Dust NE NE table KEI Emissions to air 3) Dioxins and furans Various auxiliaries NE NE NE Not KEI Substances and mixtures which have been proven or are C2 C4 suspected to possess Mineral oil lubricants (r107: (r300: KEI carcinogenic or mutagenic (that may contain PAH) p3) p54) properties (di-isocyanates, N, Ndimethylacetamide) NE Polychlorinated biphenyls NE NE Not KEI C2 Possible (r107: NE NE VOCs various KEI p3)

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