

# The European Commission's science and knowledge service

Joint Research Centre

# The drawing up and review of the EU BREFs:

Stakeholders' engagement for building consensus on issues related to industrial emissions

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### The JRC in the Commission

**President Jean-Claude Juncker** 

+ 7 VPs and 20 Commissioners

... DG Environment

**DG Climate Action** 

DG Agriculture and Rural Development

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**Commissioner Navracsics** 

Education, Culture, Youth and Sport

DG Joint Research Centre (JRC)

**Commissioner Moedas** 

Research, Science and Innovation

**DG Research and Innovation** 

## **Science for Policies**

→ JRC is the in-house science service of the European Commission

# **Policy for Science**





# EU regulatory framework on industrial emissions

**IED** (2010/75/EU) **Directive on Industrial Emissions** 

1 EU legislation

Use of Best Available
Techniques (BAT)
described in the BAT reference
documents (BREFs)

32 BREFs



Permits and Emission Limit Values (ELVs) based on BAT

~ 50000 (agro)industrial installations



### **Annex I to the IED**

### Wide range of industrial activities listed:

- Energy industries
- Production and processing of metals
- Mineral industries
   Cement, Lime, Glass, Ceramics
- Production of chemicals
- Waste management industries
   Several recovery or disposal operations
   Incineration
- Other' industries:

Pulp and paper, Textile processing, Tanning of hides and skins,

Intensive farming of pigs and poultry, Slaughterhouses and animal by-product processing, Food drink and milk processing, Surface treatment using organic solvents









# **Best Available Techniques (BAT)**

### **Best**

Most effective in achieving a high general level of protection of the environment as a whole

### **Available**

Developed on a scale to be implemented in the relevant industrial sector, under economically and technically viable conditions, advantages balanced against costs

# **Techniques**

The technology used and the way the installation is designed, built, maintained, operated and decommissioned





# **Products and impact**

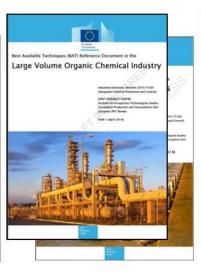
#### **32 BREFs**

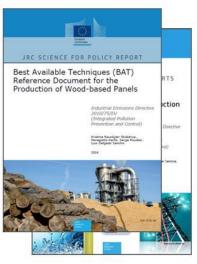
Best Available Techniques (BAT) reference documents (300-1300 pages each)

Cooperation with

~ 2100 industry experts

# Best Available Techniques (BAT) Reference Document for the Large Combustion Plants Secretary of the Combustion Plants Secretary of the Combustion Street (Bath) Secretary of the Combustion Street





### **BAT conclusions**

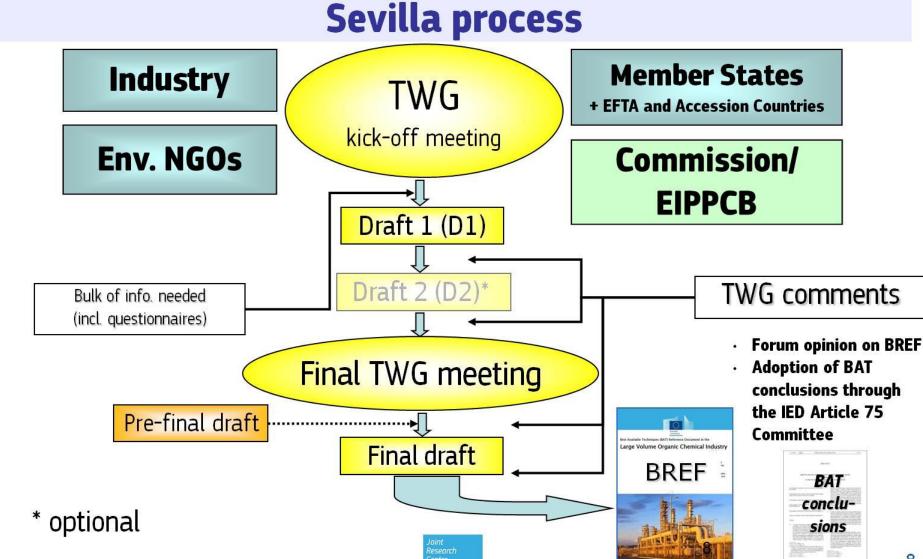
Consensual incl. industry
Voted on by Member States
Published in the OJ



- Driver for improved environmental performances
- Binding legal effects
- Level playing field







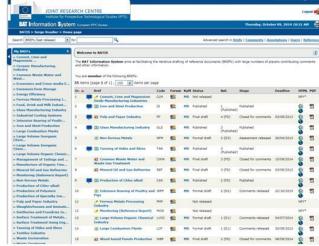


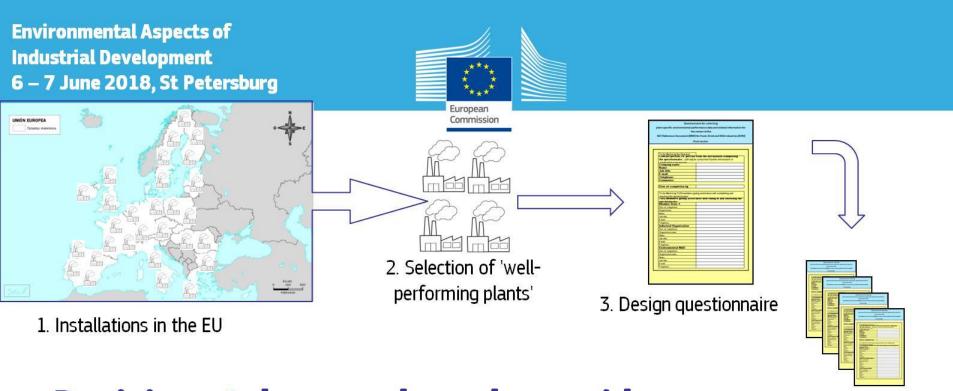
# Stakeholder Engagement

# Working method – JRC Dir. B EIPPCB-led process

- Bottom-up consensus-based approach from beginning to end
- For each BREF the techno-economic basis is researched, checked and validated with all relevant stakeholders (~80 to 230 experts: ~ half from industry)
- 2 large Technical Working Group meetings (3 to 7 days) with stakeholders are held to kick-off and conclude the work (up to 140 participants)
- Commenting rounds on draft BREFs (1000 – 8500 comments to respond to)
- TWG subgroups on complex issues
- Transparency: BATIS and publication of BREFs and BAT conclusions on the EIPPCB website

http://eippcb.jrc.ec.europa.eu





# Decisions taken are based on evidence 4. Collect plant-specific data



conclusions

5. Processing and analysis of data/info.

# Environmental Aspects of Industrial Development 6 – 7 June 2018, St Petersburg

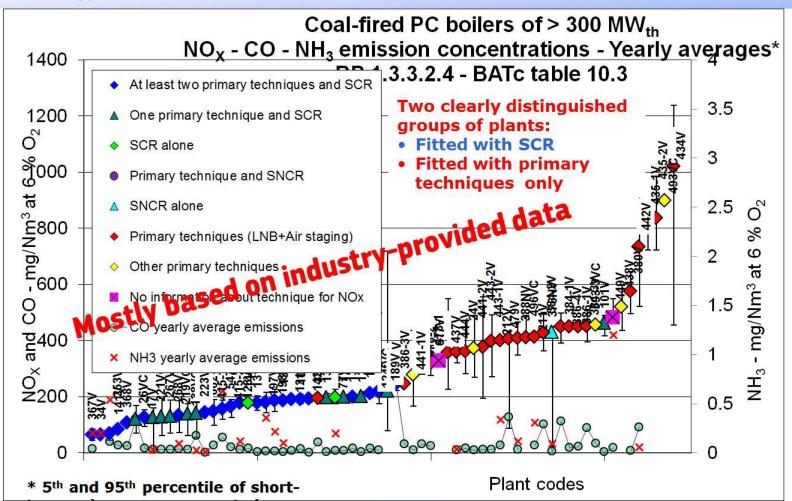






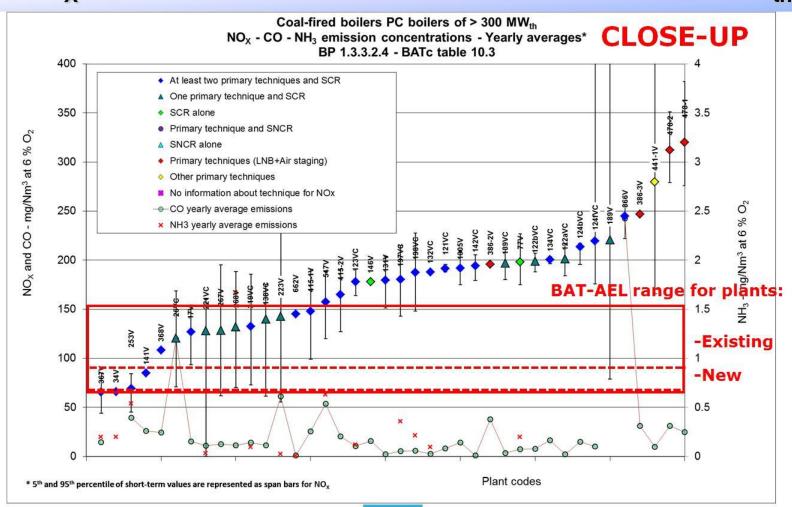


# NO<sub>X</sub> emissions from coal-fired PC boiler >300 MW<sub>th</sub>





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# State of play concerning BREF reviews

### 13 BAT conclusions already published:

➤ Iron and Steel (IS); Glass (GLS); Tanning of Hides and Skins (TAN); Cement, Lime and Magnesium Oxide (CLM); Chlor-Alkali (CAK); Pulp, Paper and Board (PP); Refining of Mineral Oil and Gas (REF); Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector (CWW); Wood-Based Panels (WBP); Non-ferrous Metals (NFM); Intensive Rearing of Poultry and Pigs (IRPP); Large Combustion Plants (LCP); Large Volume Organic Chemicals (LVOC)

### 1 BAT conclusion soon to be adopted:

Waste Treatment (WT)

### 7 (B)REFs being worked upon:

Monitoring of Emissions (ROM); Food, Drink and Milk (FDM); Waste Incineration (WI); Surface Treatment using Organic Solvents/Wood Preservation with Chemicals (STS); Ferrous Metals Processing (FMP); Common Waste Gas Treatment in the Chemical Sector (WGC); Textiles (TXT)





# Take aways

- Highly participatory, fact-based process + consensus
- Process evolved and matured over 20 years
- Still facing several challenges
  - Involvement of equipment suppliers
  - Confidentiality issues
  - Access to economic information
- Consensus that the process is fit for purpose
- Results as good as the information and efforts invested

