

# The Future of Best Available Techniques in Industrial Pollution Prevention and Control

8 November 2023

14:00-16:00 CET





# Meeting rules

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## Online participation

- Please switch off your camera and make sure that your microphone is muted.
- You can send your questions at any time during the talk using the chat box. We will address as many as possible during the Q&A portion of the webinar.

## In-person participation

- **When not speaking**, please make sure your microphone is off.
- **When you wish to intervene**, please ask for the floor by pressing the microphone switch (right side). A **green** light will turn on.
- Please wait for the Chair to give you the floor. When you are given the floor, the light will turn **red** (showing your microphone is now on).
- **After speaking**, please switch off your microphone again.



# What are the Best Available Techniques (BAT)?

Advanced and proven techniques

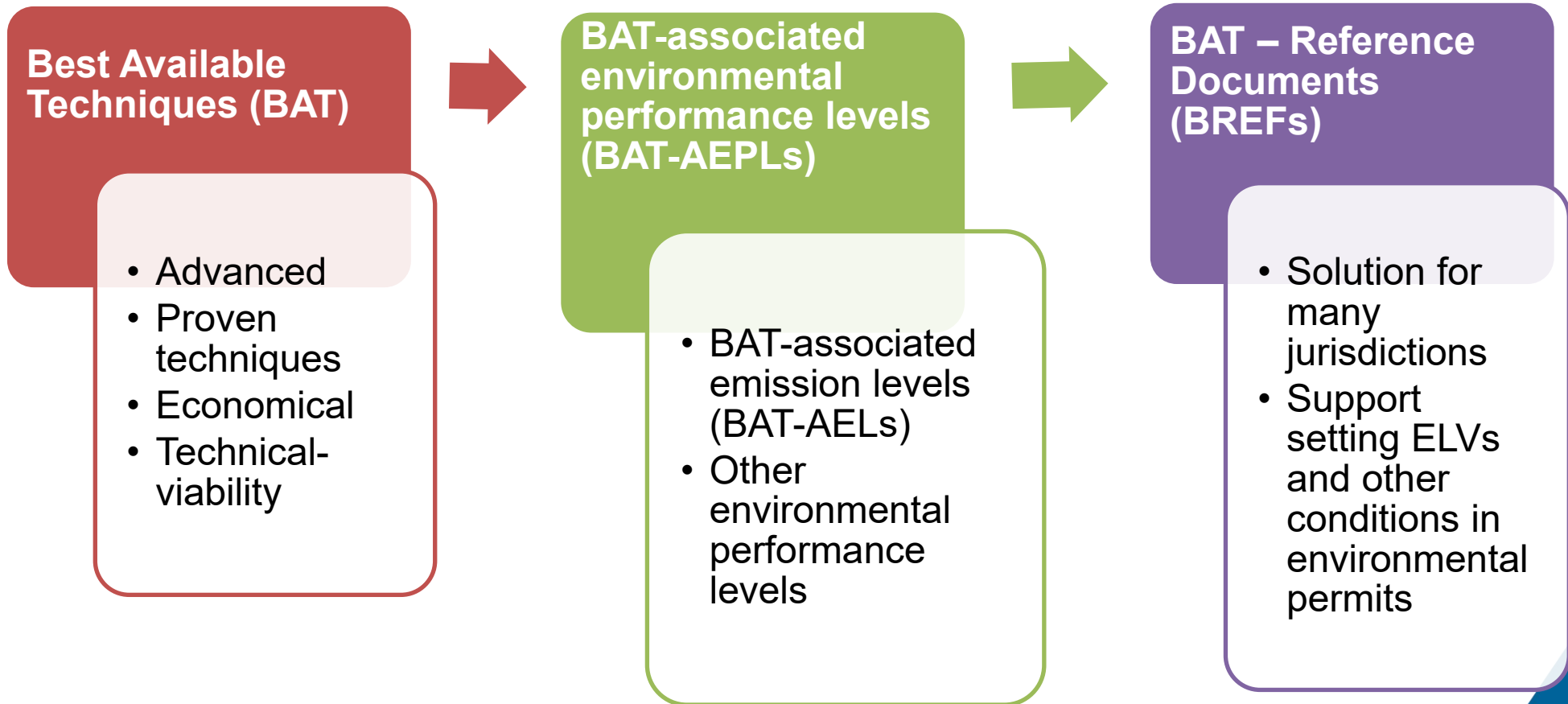


## BAT-based environmental permit

- Emission limit values (ELVs)
- Technical and management requirements
- Monitoring – emissions/consumption/waste generation










# How to present BAT?





# Benefits of BAT-based permitting






- as highlighted by the OECD's Expert Group

-  Improvements to human health and the environment
-  An integrated and holistic approach to environmental protection
-  Technologically driven emission levels
-  Multi-stakeholder dialogue
-  Level playing field for industry
-  Cost-effective upgrade of industrial installations
-  Flexibility in implementation of techniques





# Potential **challenges** of BAT-based permitting – as highlighted by the OECD's Expert Group

-  A time-consuming process
-  Limited value chain perspective
-  Lack of transparency
-  Interpretational challenges for permitting authorities
-  Access to adequate data for effectiveness evaluation



# The OECD Expert Group on BAT

- Established in 2015 – increased *tenfold* in size since
- ~150 members from 40+ countries and organisations
  - OECD member and non-member governments
  - Intergovernmental organisations
  - Environmental NGOs
  - Industry associations
- One face-to-face meeting and one webinar per year
- A fruitful platform for the exchange of best practices, review of OECD research, etc.





# Objectives of the BAT project

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- Exchange best practices across countries that already have a BAT-based permitting system
- Provide guidance to countries that seek to adopt a BAT-based approach for the first time
- Achieve progress towards the SDGs, notably Target 12.4 on the environmentally sound management of chemicals







# Deliverables of the OECD's BAT project (2016-2024)



## Phase I (2016-2018)

- Act. 1 - Policies on BAT or Similar Concepts Across the World (2017)*
- Act. 2 - Approaches to Establishing BAT Around the World (2018)*
- Act. 3 - Measuring the Effectiveness of BAT Policies (2019)*



## Phase II (2019-2021)

- Act. 4 - BAT guidance document (2020)
- Act. 5 - Study on value chain aspects of determining BAT (2021)
- Act. 6 - Cross-country comparison of selected BREFs (2022)



## Phase III (2022-2024)

- Act. 7 - Cross-country comparison of selected BREFs (P.2)
- Act. 8 - Capacity building workshops
- Act. 9 - A global study on identifying emerging technologies for potential BAT determination



# International BAT guidelines

- World Bank Group  
62 EHS Industry Sector Guidelines
- Minamata Convention  
~8 BAT/BEP\* guidelines
- Stockholm Convention  
18 BAT guidelines



**WORLD BANK GROUP**

**IFC** | International  
Finance Corporation



Stockholm Convention  
on **persistent organic  
pollutants (POPs)**

\*Best Environmental Practices



# List of BREF website

## List of Best Available Techniques Reference Documents by sectors and activities covered by each jurisdiction

The table below outlines available Best Available Techniques Reference Documents (BREFs) and guidance material from different jurisdictions according to industrial sectors. Readers should keep in mind that sectors can be categorised and defined slightly differently across countries.

Search by sector: [Agriculture](#) - [Forestry](#) - [Food](#) - [Gas & Oil](#) - [Mining](#) - [Non-ferrous metals](#) - [Iron & Steel](#) - [Chemicals](#) - [Cement](#) - [Paper & Pulp](#) - [Power Plants](#) - [Manufacturing](#) - [Construction Materials](#) - [Others in industry](#) - [Infrastructure](#) - [Waste](#) - [Others](#)

Sector	European Union BREFs and BAT Conclusions	The Russian Federation: BREFs	Korea: BREF	All US, NESHAP, HSPS and Industrial Effluent Guidelines	People's Republic of China: Guidelines on Available Technologies for Pollution Prevention and Control (GATPPCs)	India: Comprehensive Industry Documents (COINDs)	International Finance Corporation's 5IFC EHS Guidelines <a href="#">*Learn more about IFC</a>
Agriculture	<ul style="list-style-type: none"><li>Intensive Rearing of Poultry or Pigs - Available in <a href="#">English</a>, <a href="#">Arabic</a>, <a href="#">Chinese</a> and <a href="#">Russian</a></li></ul>	<ul style="list-style-type: none"><li>Intensive rearing of pigs</li><li>Intensive rearing of poultry</li></ul>	N/A	<ul style="list-style-type: none"><li>Aquaculture (Water)</li></ul>	<ul style="list-style-type: none"><li>Livestock and Poultry Farms</li></ul>	<ul style="list-style-type: none"><li>Cotton Gin Industry</li></ul>	<ul style="list-style-type: none"><li>Poultry Production</li><li>Annual Crop Production</li><li>Perennial Crop Production</li><li>Aquaculture</li><li>Mammalian Livestock Production</li></ul>

<https://www.oecd.org/chemicalsafety/risk-management/best-available-techniques-reference-documents-by-sectors-and-activities.htm>



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Any questions or follow-up:  
[ehs.contact@oecd.org](mailto:ehs.contact@oecd.org)

<https://www.oecd.org/chemicalsafety/risk-management/best-available-techniques.htm>