

### **CONTROL OF PROGRESS**

# BEST AVAILABLE TECHNOLOGIES IN GENERAL

- 1. The European directive on operating permits
- 2. BAT reference documents (BREF) for sectors
- 3. IEA indicators on Energy Efficiency for 38 countries
- 4. Conclusion

## THE EUROPEAN DIRECTIVE ON OPERATING PERMITS

IPCC = Intergov. Panel ClimChange

EC = European Commission

MS = Member States

Industries (not all)

EC Directive 96/91:
Member states: permits for industry

https://www.iea.org/policies/1347-best-available-techniques-reference-documents-brefs-ipcc-directive

Permits based on BAT How? Parameters must be like BAT

The standards are responsibility of MS

EC organises communication MS

# BAT REFERENCE DOCUMENTS (BREF) FOR SECTORS

Integrated Pollution Prevention and Control (IPPC, not IPCC!).
Run by the EIPPCB in Sevilla (Spain) for organising information exchange of BAT

https://eippcb.jrc.ec.europa.eu/reference

https://eippcb.jrc.ec.europa.eu/reference/production-polymers

#### **Reference Documents**

The table below presents, in alphabetical order, the list of reference documents that have been drawn (or are planned to be drawn) as part of the <u>exchange of information</u> carried out in the framework of Article 13(1) of the Industrial Emissions Directive (IED, 2010/75/EU).

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Name	Code	Adopted/Published Document	Formal draft
Ceramic Manufacturing Industry	CER	BREF (08.2007)	
Common Waste Gas Treatment in the Chemical Sector	WGC		<u>D1 (11.2019)</u>
Common Waste Water and Waste Gas Treatment/Management Systems in the Chemical Sector	CWW	BREF BATC (06.2016)	
Economics and Cross- media Effects	ECM	REF (07.2006)	
Emissions from Storage	EFS	BREF (07.2006)	

#### BAT for polyvinyl chloride is

- to use appropriate storage facilities for the V prevent leaks and resulting air, soil and water
  - to store VCM in refrigerated tanks at atm
  - to store VCM in pressurised tanks at amb
  - to avoid VCM emissions by providing and/or
  - to avoid VCM emissions by providing to system or to appropriate vent treatment ex
- to prevent emissions from connections when u
  - use of vapour balance lines and/or
  - evacuation and treatment of VCM from c

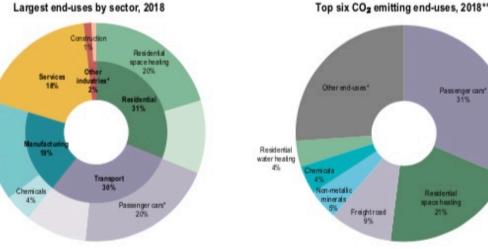
# IEA INDICATORS ON ENERGY EFFICIENCY FOR 38 COUNTRIES

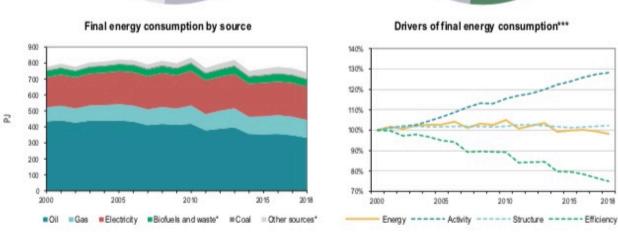
https://webstore.iea.org/energy-efficiency-indicators-2020-highlights

# SWITZERLAND Cross-sectoral overview Top six CO<sub>2</sub> emitting end-uses, 2018\*\*

Estimated cumulative energy savings

by sector, 2000-18\*\*\*





Estimated energy savings from efficiency\*\*\*

# **CONCLUSION**

- Goal setting in India similar?
  - Not year & limit but to KPI and BAT
- I have a newsletter with every 2 weeks a highlight on a BAT
- Opinion:
  - Energy Manager essential for maintaining focus on BAT
    - Hunting opportunities
    - Analysing potential results
    - Proposing in an appealing way to Decision Makers
    - Realising
    - Monitoring