



# BOG3: Industry. Results of data consideration

Joint IEA/IPCC meeting - 15th Meeting of the EFDB Editorial Board

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Paris, France

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INTERGOVERNMENTAL PANEL ON climate change



# IPPU Experts and Literature

## 1 . Presentations by experts/data providers (Iron&Steel and Petrochemicals):

- Henk (Jan Hendrik) Reimink (WSA)
- Tan Ee San (Malaysia)
- Ekaterina Imshennik (Russian Federation)

## 2. Literature on Iron&Steel and Petrochemicals (*collected by TSU*)

- *please, see the next slide*

## 3. Other Materials

- Lime – Kendal Blanco Salas (Costa Rica) – Energy presenter at DM-15
- Cement – Tan Ee San (Malaysia) – IPPU presenter at DM-15

# IPPU Literature

## Iron and Steel

1. *Best Available Techniques (BAT) Reference Document for Iron and Steel Production*, Authors: Rainer Remus, Miguel A. Aguado Monsonet, Serge Roudier, Luis Delgado Sancho. European Commission, Joint Research Centre, Institute for prospective technological studies, 2013
2. *CO2 Emissions Data Collection User Guide, Version 7*, World Steel Association
3. *Industrial energy efficiency. Benchmarking Report for the Iron and Steel Sector*. Prepared by Austrian Energy Agency and Eng.Ayman Elzahaby. United Nations Industrial Development Organization (UNIDO), 2014
4. *CO2 emissions from China's iron and steel industry*. Wenqing Xu, Bin Wan, Tingyu Zhu, Mingpan Shao. *Journal of Cleaner Production* 139 (2016) 1504-1511. Available online 24 August 2016
5. *Material Flow Analysis of CO2 Emissions from Blast Furnace and Basic Oxygen Furnace Steelmaking Systems in China*. Wenqing Xu, Wanjie Cao, Tingyu Zhu, Yinjiao Li, and Bin Wan. *Steel Research int.* 86 (2015) No. 9.

# IPPU Literature

## Petrochemicals

6. *Energy technology transitions for Industry: Strategies for the next industrial revolution.* International Energy Agency, OECD/IEA, 2009
7. *Energy and GHG Reductions in the Chemical Industry via Catalytic Processes.* DECHEMA/IEA/ICCA, 2013
8. *Evaluation of emission and reduction of greenhouse gases from upstream petrochemical industry in Thailand, Premrudee Kanchapiya et al., Environment Protection Engineering, Vol. 41, 2015*
9. *Greenhouse Gas Emissions from New Petrochemical Plants. Background Information Paper for the Elaboration of Technical Notes and Guidelines for IDB Projects.* Tayeb Benchaita. Inter-American Development Bank. Environmental Safeguards Unit. TECHNICAL NOTE. No. IDB - TN - 562, July 2013
10. *DRAFT. Best Available Techniques (BAT) Reference Document in the Large Volume Organic Chemical Industry.* European Commission, Joint Research Centre, Directorate B – Growth and Innovation, Circular Economy and Industrial Leadership, European IPPC Bureau. Final Draft (February 2017).

# Results (1)

	Submitted	Accepted	Not Accepted	Pending
<b>Data providers</b>				
Henk Reimink (WSA)		1		4
Tan Ee San (Malaysia)	1	1		
Ekaterina Imshennik (Russia)	5	1		4
Kendal Blanco Salas (Costa Rica)	1		1	
<b>Literature</b>				
1				>5
2 – see Henk Reimink	-	-	-	-
3			Not accepted	
4		3		
5				>20
6			Not accepted	
7				>50
8			Not accepted	
9			Not accepted	
10				2

# Results (2)

- Literature on GHG emissions from industrial sector is commonly not peer-reviewed, it is mainly reports with a different focus and assumptions
- Some good publications contain energy (efficiency) data, aggregated data, LCA, BAT data, which is quite useful, but not suitable for the IPCC EFDB/Guidelines



**Thank you**



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