



الوكالة الوطنية للتحكم في الطاقة
Agence Nationale pour la Maîtrise de l'Energie
National Agency for Energy Conservation

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Industrial Processes And Product Use (IPPU), 2010

Dessau 18, 11, 2014
HAMZA Akram



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Categories

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- **2.A - Mineral Industry**
- **2.B - Chemical Industry**
- **2.C - Metal Industry**
- **2.D - Non-Energy Products from Fuels and Solvent Use (6)**
- **2.F- Product Uses as Substitutes for Ozone Depleting Substances**



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Sub-categories

Mineral industry	Activity data	Tier	Data source
Ciment production	Carbonate quantity + clinker production	3	7 production site
Glass production	Carbonate quantity + national production	3,2	1 site, National institute of statistics
Lime Production	Carbonate quantity	3	1 site
Ceramic production	Chemical composition of raw material+ national Production	2,3	National agency for environment protection+ National Institute of statistics
Brick production			



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Chemical Industry	Activity data	Tier	Data source
Nitric acid	Acid production+ sepecific emission facteur	3	1 site
Sulfuric acid	Acid production+ sepecific emission facteur+Production technology (single or double absorption)		
Metallurgical industry	Activity data	Tier	Data source
Steel production	Material processes falling in oven, Production of steel, Carbon content	2	1 site



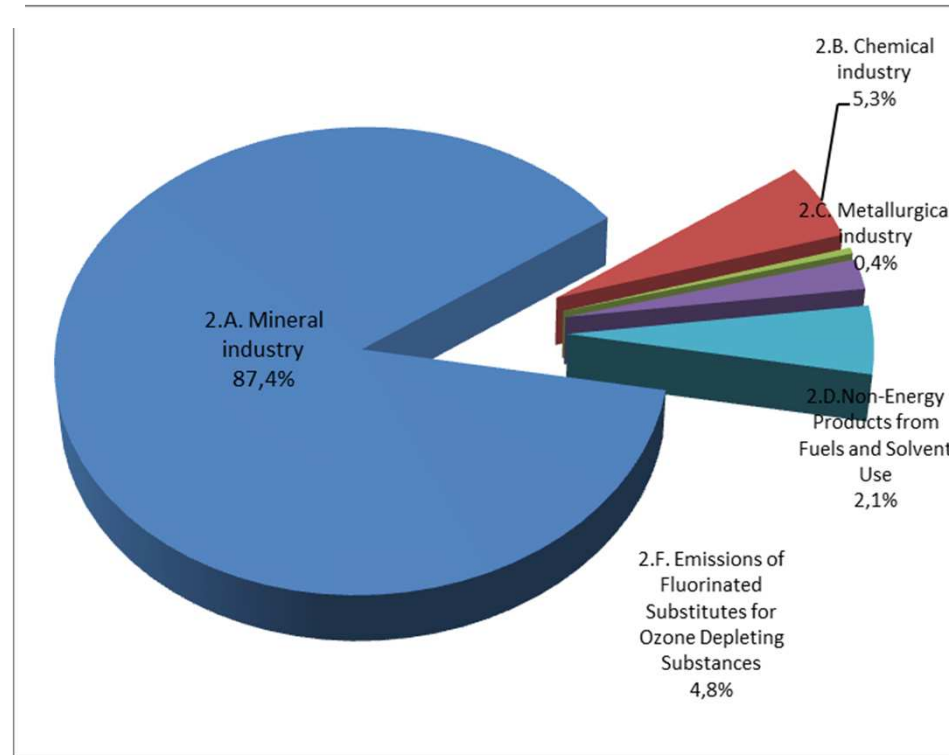
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Sub-categories

Non Energy Use of product	Activity data	Tier	Data source
Lubricant	Lubrificant consumption	1	Ministry of industry
Grease	Grease consumption	1	National institute of statistics
Solvent	Import, export	1	National institute of statistics
Bitumen	Road asphaltting, roof asphaltting	1	Ministry of industry
Waxes and paraffins	Import, export	1	National institute of statistics
Substitutes for ozone deleting Substances	Activity data	Tier	Data source
SAO	Import and export hfc-134a+ R404	1	National institute of statistics, National agency for environment protection

Results



- Cement production sites have produced about 7 million tons of clinker in 2010, generating 3.6 million tons of CO₂, excluding energy (**73% of IPPU emissions**) .
- The ceramic industry is largely dominated by brick, which is the source of about 700 kt of CO₂ emissions (**14% of IPPU emissions**)

Results

Categories	(Gg)			
	NOx	CO	NMVO Cs	SO2
2 - Procédés Industriels et Utilisation des Produits	0,199	0,196	25,874	41,304
2.A - Industrie Minérale	-	-	-	-
2.B - Industrie Chimique	0,184	-	-	41,297
2.C - Industrie Métallurgique	0,015	0,196	0,005	0,007
2.D - Utilisation non énergétique des produits provenant des combustibles	-	0,000	25,868	-

- 38% of NMVOC Tunisian emissions
- 52% of Sulfur dioxide Tunisian emissions
- CH4,NOX,CO emissions resulting from IPPU are insignificant.

- ❖ Improve the data collection process especially for manufacturing companies of bricks and ceramics.
- ❖ Create a working group with manufacturers and importers to refine the distribution of F-gas usage.
- ❖ Establishment of a permanent data exchange system with private sector to collect the necessary data.

Thank you for your attention