

Submission to the Secretariat of the Minamata Convention on potential relevant sources of releases

Please find in the tables and graphical representation enclosed information on releases to water of mercury and mercury compounds from large point sources in EU-28 for 2016, extracted from the E-PRTR.

The activity codes in the table are those listed in Annex I to the [EU E-PRTR Regulation](#); summary descriptions are provided in the tables and graphical representation.

The E-PRTR can be accessed at <https://prtr.eea.europa.eu/#/home>. Data can be extracted from the E-PRTR using different search functionalities.

EU experts from the European Commission and the European Environment Agency nominated to the expert group on releases remain available to provide further information on this data and its collection methods.

Table 1 provides an overview of mercury and mercury compounds releases to water. Urban waste water treatment plants (UWWTPs) remain a large source of mercury pollution to waters. Whilst some source of mercury entering UWWTPs are still unknown, Table 2 provides an overview of the mercury and mercury compounds pollutant load transferred from industrial facilities to UWWTPs.

TABLE 1 - MERCURY & MERCURY COMPOUND RELEASES TO WATER (2016, E-PRTR)

Release per industrial activity	Quantity
1 Energy sector	639.98 kg
1.(a) Mineral oil and gas refineries	110.37 kg
1.(c) Thermal power stations and other combustion installations	528.06 kg
1.(f) Manufacture of coal products and solid smokeless fuel	1.55 kg
2 Production and processing of metals	79.64 kg
2.(e) Production of non-ferrous crude metals from ore, concentrates or secondary raw materials	43.35 kg
2.(b) Production of pig iron or steel including continuous casting	12.96 kg
2.(a) Metal ore (including sulphide ore) roasting or sintering installations	1.35 kg
2.(c) Processing of ferrous metals	8.45 kg
2.(f) Surface treatment of metals and plastics using electrolytic or chemical processes	13.53 kg
3 Mineral industry	130.27 kg
3.(b) Opencast mining and quarrying	5.38 kg
3.(e) Manufacture of glass, including glass fibre	4.84 kg
3.(c) Production of cement clinker or lime in rotary kilns or other furnaces	2.19 kg
3.(a) Underground mining and related operations	117.86 kg
4 Chemical industry	566.72 kg
4.(a) Industrial scale production of basic organic chemicals	264.76 kg
4.(b) Industrial scale production of basic inorganic chemicals	281.75 kg
4.(e) Industrial scale production of basic pharmaceutical products	15.5 kg
4.(d) Industrial scale production of basic plant health products and of biocides	2.21 kg
4.(c) Industrial scale production of phosphorous, nitrogen or potassium based fertilizers	2.5 kg
5 Waste and waste water management	1,224.3
5.(a) Disposal or recovery of hazardous waste	53.020 kg
5.(f) Urban waste-water treatment plants	1,102.46 kg
5.(g) Independently operated industrial waste-water treatment plants serving a listed activity	16.05 kg
5.(c) Disposal of non-hazardous waste	32.77 kg
5.(b) Incineration of non-hazardous waste included in Directive 2000/76/EC - waste incineration	20 kg
6 Paper and wood production processing	40.42 kg
6.(a) Production of pulp from timber or similar fibrous materials	24.53 kg
6.(b) Production of paper and board and other primary wood products	15.89 kg
9 Other activities	7.5 kg
9.(c) Surface treatment of substances, objects or products using organic solvents	7.5 kg
Total	2.69 t

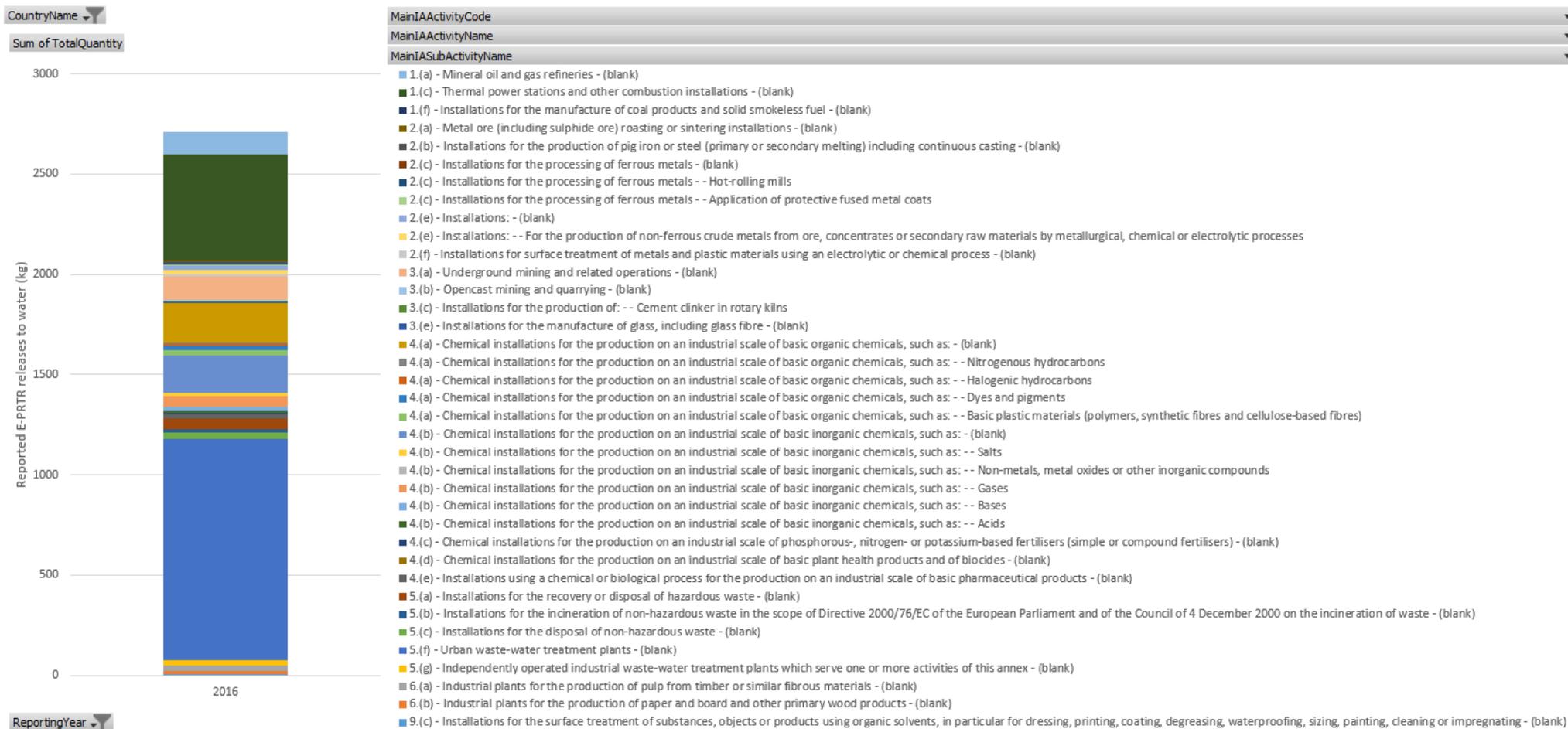


FIGURE 1 MERCURY AND MERCURY COMPOUND RELEASES TO WATER (2016, E-PRTR)

TABLE 2 - MERCURY AND MERCURY COMPOUND POLLUTANT LOAD TRANSFERRED FROM INDUSTRIAL FACILITIES TO UWWTPS (2016, E-PRTR)

Transfer per industrial activities	Quantity
1 Energy sector	19.9 kg
1.(d) Coke ovens	13.8 kg
1.(a) Mineral oil and gas refineries	6.15 kg
2 Production and processing of metals	1,150 kg
2.(b) Production of pig iron or steel including continuous casting	1.97 kg
2.(f) Surface treatment of metals and plastics using electrolytic or chemical processes	3.40 kg
2.(e) Production of non-ferrous crude metals from ore, concentrates or secondary raw materials	1,143 kg
3 Mineral industry	1.10 kg
3.(e) Manufacture of glass, including glass fibre	1.10 kg
4 Chemical industry	232 kg
4.(c) Industrial scale production of phosphorous, nitrogen or potassium based fertilizers	1.57 kg
4.(a) Industrial scale production of basic organic chemicals	214 kg
4.(b) Industrial scale production of basic inorganic chemicals	11.1 kg
4.(e) Industrial scale production of basic pharmaceutical products	5.09 kg
5 Waste and waste water management	465 kg
5.(a) Disposal or recovery of hazardous waste	22.6 kg
5.(f) Urban waste-water treatment plants	6.00 kg
5.(b) Incineration of non-hazardous waste included in Directive 2000/76/EC - waste incineration	50.8 kg
5.(d) Landfills (excluding landfills closed before the 16.7.2001)	379 kg
5.(g) Independently operated industrial waste-water treatment plants serving a listed activity	1.10 kg
5.(c) Disposal of non-hazardous waste	5.31 kg
6 Paper and wood production processing	4.30 kg
6.(b) Production of paper and board and other primary wood products	4.30 kg
8 Animal and vegetable products from the food and beverage sector	2.87 kg
8.(b) Treatment and processing of animal and vegetable materials in food and drink production	2.87 kg
9 Other activities	15.5 kg
9.(a) Pre-treatment or dyeing of fibres or textiles	13.5 kg
9.(c) Surface treatment of substances, objects or products using organic solvents	2.00 kg
Total	1.89 t