

# Changes in the IIR

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## General

(excl. detailed parts below)

### 1.5 Key Sources

## 2 Trends

### 8.1 Recalculations

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">Chapter 8.1 - Recalculations</a>                            | 2025/04/04 14:03 | Jiexia Zheng     |
| <a href="#">Recalculations - Dioxines &amp; Furanes (PCDD/F)</a>        | 2025/04/02 14:36 | Robert Kludt     |
| <a href="#">Recalculations - Copper (Cu)</a>                            | 2025/04/02 14:35 | Robert Kludt     |
| <a href="#">Recalculations - Chromium (Cr)</a>                          | 2025/04/02 14:34 | Robert Kludt     |
| <a href="#">Recalculations - Arsenic (As)</a>                           | 2025/04/02 14:34 | Robert Kludt     |
| <a href="#">Recalculations - Mercury (Hg)</a>                           | 2025/04/02 14:33 | Robert Kludt     |
| <a href="#">Recalculations - Cadmium (Cd)</a>                           | 2025/04/02 14:33 | Robert Kludt     |
| <a href="#">Recalculations - Lead (Pb)</a>                              | 2025/04/02 14:32 | Robert Kludt     |
| <a href="#">Recalculations - Particulate Matter &lt;2.5µm</a>           | 2025/04/02 14:30 | Robert Kludt     |
| <a href="#">Recalculations - Total Suspended Particles (TSP)</a>        | 2025/04/02 14:28 | Robert Kludt     |
| <a href="#">Recalculations - Particulate Matter &lt;10µm</a>            | 2025/04/02 14:26 | Robert Kludt     |
| <a href="#">Recalculations - Sulphur Oxides</a>                         | 2025/04/02 14:13 | Robert Kludt     |
| <a href="#">Recalculations - Black Carbon (BC)</a>                      | 2025/04/01 11:22 | Michael Kotzulla |
| <a href="#">Recalculations - Polychlorinated Biphenyls (PCBs)</a>       | 2025/04/01 10:55 | Michael Kotzulla |
| <a href="#">Recalculations - Hexachlorobenzene (HCB)</a>                | 2025/04/01 10:55 | Michael Kotzulla |
| <a href="#">Recalculations - Polyaromatic Hydrocarbons 1 to 4</a>       | 2025/04/01 10:39 | Michael Kotzulla |
| <a href="#">Recalculations - Benzo[b]Fluoranthene</a>                   | 2025/04/01 10:34 | Michael Kotzulla |
| <a href="#">Recalculations - Benzo[a]Pyrene</a>                         | 2025/04/01 10:33 | Michael Kotzulla |
| <a href="#">Recalculations - Benzo[k]Fluoranthene</a>                   | 2025/04/01 10:32 | Michael Kotzulla |
| <a href="#">Recalculations - Indeno[1,2,3-c,d]Pyrene</a>                | 2025/04/01 10:32 | Michael Kotzulla |
| <a href="#">Recalculations - Selenium (Se)</a>                          | 2025/03/31 12:29 | Michael Kotzulla |
| <a href="#">Recalculations - Zinc (Zn)</a>                              | 2025/03/31 12:15 | Michael Kotzulla |
| <a href="#">Recalculations - Nickel (Ni)</a>                            | 2025/03/31 08:57 | Michael Kotzulla |
| <a href="#">Recalculations - Carbon monoxide (CO)</a>                   | 2025/03/29 12:53 | Michael Kotzulla |
| <a href="#">Recalculations - Non-Methane Volatile Organic Compounds</a> | 2025/03/26 14:21 | Michael Kotzulla |
| <a href="#">Recalculations - Nitrogen Oxides</a>                        | 2025/03/26 14:19 | Michael Kotzulla |
| <a href="#">Recalculations - Ammonia</a>                                | 2025/03/25 13:19 | Michael Kotzulla |

## 8.2 Improvements

## 9 Projections

| Page   | Date             | User           |
|--|------------------|----------------|
| <a href="#">Additional measures that have not yet been implemented are assigned to the WAM scenario</a>  | 2025/04/04 12:51 | Andreas Eisold |
| <a href="#">Results - Overview</a>   | 2025/04/04 12:44 | Andreas Eisold |
| <a href="#">Recalculations</a>   | 2025/04/03 21:20 | Andreas Eisold |
| <a href="#">Calculation documentation</a>  | 2025/04/03 13:01 | Andreas Eisold |
| <a href="#">Measures that have already been implemented or measures whose implementation has been decided are assigned to the WM scenario.</a> | 2025/04/01 20:44 | Andreas Eisold |
| <a href="#">Reported Projections 2025 - Overview</a>   | 2025/03/31 16:12 | Andreas Eisold |
| <a href="#">Introduction</a>   | 2025/03/31 13:12 | Andreas Eisold |

## 10 Point Sources

## 11 Adjustments

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">Chapter 11 - Adjustments and Emissions Reduction Commitments</a> | 2025/04/01 15:28 | Michael Kotzulla |

## NFR 1 - Energy

separated by NFR

### Fuel Combustion - Energy Industries (NFR 1.A.1)

| Page   | Date             | User     |
|--|------------------|----------|
| <a href="#">1.A.1.a - Public Electricity And Heat Production</a>                 | 2025/04/03 11:17 | Özge Can |
| <a href="#">1.A.1.c - Manufacture Of Solid Fuels And Other Energy Industries</a> | 2025/03/28 10:32 | Özge Can |
| <a href="#">1.A.1.b - Petroleum Refining</a>                                     | 2025/03/28 10:27 | Özge Can |

### Fuel Combustion - Industry (NFR 1.A.2)

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">1.A.2.g viii - Stationary Combustion in Manufacturing Industries and Construction: Other</a>     | 2025/03/28 10:38 | Özge Can         |
| <a href="#">1.A.2.a - Stationary Combustion in Manufacturing Industries and Construction: Iron and Steel</a> | 2025/03/27 16:17 | Michael Kotzulla |

### Fuel Combustion - Transport (NFR 1.A.3)

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">1.A.3.e i - Other Transport: Pipeline Transport</a>                             | 2025/04/03 14:19 | Özge Can         |
| <a href="#">1.A.3.c - Transport: Railways</a>   | 2025/04/01 11:37 | Michael Kotzulla |
| <a href="#">1.A.3.b i - iv - Emissions from fuel combustion in Road Vehicles (OVERVIEW)</a> | 2025/03/28 10:09 | Michael Kotzulla |
| <a href="#">1.A.3.b - Transport: Road Transport</a>   | 2025/03/28 09:34 | Michael Kotzulla |
| <a href="#">1.A.3.d ii - National Navigation</a>  | 2025/03/28 09:29 | Michael Kotzulla |
| <a href="#">1.A.3.a ii (ii) - Domestic Civil Aviation: Cruise</a>                           | 2025/03/28 07:52 | Michael Kotzulla |
| <a href="#">1.A.3.b iii - Transport: Road Transport: Heavy Duty Vehicles and Buses</a>      | 2025/03/27 17:30 | Michael Kotzulla |
| <a href="#">1.A.3.a i (ii) - International Civil Aviation: Cruise</a>                       | 2025/03/27 16:22 | Michael Kotzulla |
| <a href="#">1.A.3.a i (i) - International Civil Aviation: LTO</a>                           | 2025/03/27 16:22 | Michael Kotzulla |
| <a href="#">1.A.3.a ii (i) - Domestic Civil Aviation: LTO</a>                               | 2025/03/27 16:20 | Michael Kotzulla |
| <a href="#">1.A.3.d i (i) - International maritime navigation</a>                           | 2025/03/27 13:23 | Michael Kotzulla |

|   |                  |                  |
|---|------------------|------------------|
| <a href="#">1.A.3.b vii - Road Transport: Automobile Road Abrasion</a>                            | 2025/03/27 13:15 | Michael Kotzulla |
| <a href="#">1.A.3.b vi - Road Transport: Automobile Tyre and Brake Wear</a>                       | 2025/03/27 13:03 | Michael Kotzulla |
| <a href="#">1.A.3.b vi-vii - Road Transport: Automobile Tyre and Brake Wear and Road Abrasion</a> | 2025/03/27 12:55 | Michael Kotzulla |
| <a href="#">1.A.3.b v - Gasoline Evaporation</a>  | 2025/03/26 09:23 | Michael Kotzulla |
| <a href="#">1.A.3.b ii - Transport: Road Transport: Light Duty Vehicles</a>                       | 2025/03/25 11:27 | Michael Kotzulla |
| <a href="#">1.A.3.b i - Road transport: Passenger cars</a>  | 2025/03/24 09:50 | Michael Kotzulla |

**Fuel Combustion - Transport (NFR 1.A.4)**

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">1.A.4.c.i - Agriculture/Forestry/Fishing: Stationary</a>                             | 2025/03/28 10:39 | Özge Can         |
| <a href="#">1.A.4.b i - Residential: Stationary Combustion</a>                                   | 2025/03/28 10:39 | Özge Can         |
| <a href="#">1.A.4.c ii (a) - Off-road Vehicles and other Machinery: Agriculture</a>              | 2025/03/28 10:12 | Michael Kotzulla |
| <a href="#">1.A.4.a i - Commercial and Institutional: Stationary Combustion</a>                  | 2025/03/28 09:38 | Özge Can         |
| <a href="#">1.A.4 - Small Combustion: Mobile Sources (OVERVIEW)</a>                              | 2025/03/26 09:38 | Michael Kotzulla |
| <a href="#">1.A.4.c ii - Agriculture/Forestry/Fishing: Off-Road Vehicles and Other Machinery</a> | 2025/03/25 13:03 | Michael Kotzulla |

**Fuel Combustion - Transport (NFR 1.A.5)**

| Page   | Date             | User     |
|--|------------------|----------|
| <a href="#">1.A.5.a - Other, Stationary (including Military)</a> | 2025/03/28 11:47 | Özge Can |

**Fugitive Emissions (NFR 1.B)**

| Page   | Date             | User               |
|--|------------------|--------------------|
| <a href="#">1.B - Fugitive Emissions from fossil fuels</a> | 2025/04/02 08:54 | Christian Böttcher |
| <a href="#">1.B.2.b - Natural Gas</a>                      | 2025/04/02 08:28 | Christian Böttcher |
| <a href="#">1.B.2.c - Venting and Flaring</a>              | 2025/04/01 15:26 | Michael Kotzulla   |
| <a href="#">1.B.3 - Geothermal Energy</a>                  | 2025/04/01 15:24 | Michael Kotzulla   |
| <a href="#">1.B.1 - Solid Fuels</a>                        | 2025/03/28 11:15 | Michael Kotzulla   |
| <a href="#">1.B.2.a - Oil</a>                              | 2025/03/27 16:13 | Michael Kotzulla   |

**NFR 2 - Industrial Processes**

separated by NFR

**NFR 2.A - Mineral Industry**

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">2.A.6 - Other Mineral Products: Ceramics</a>           | 2025/04/03 11:21 | Michael Kotzulla |
| <a href="#">2.A.5.b - Construction and Demolition</a>              | 2025/04/03 11:21 | Michael Kotzulla |
| <a href="#">2.A.5.a - Quarrying &amp; Mining - Other Than Coal</a> | 2025/04/03 11:21 | Michael Kotzulla |
| <a href="#">2.A.3 - Glass Production</a>                           | 2025/04/03 11:20 | Michael Kotzulla |
| <a href="#">2.A.2 - Lime Production</a>                            | 2025/04/03 11:20 | Michael Kotzulla |
| <a href="#">2.A.1 - Cement Production</a>                          | 2025/04/03 11:19 | Michael Kotzulla |
| <a href="#">2.A - Mineral Industry (OVERVIEW)</a>                  | 2025/04/02 13:54 | Robert Kludt     |

**NFR 2.B - Chemical Industry**

| Page  | Date             | User         |
|---|------------------|--------------|
| <a href="#">2.B.6 - Titanium Dioxide Production</a> | 2025/04/04 11:00 | Jiexia Zheng |
| <a href="#">2.B.7 - Soda Ash Production</a>         | 2025/04/02 16:09 | Robert Kludt |

### NFR 2.C - Metal Production

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">2.C.2 - Ferroalloys Production</a>      | 2025/04/02 13:34 | Michael Kotzulla |
| <a href="#">2.C.7.b - Nickel Production</a>         | 2025/04/02 13:20 | Michael Kotzulla |
| <a href="#">2.C.5 - Lead Production</a>             | 2025/04/02 13:18 | Jens Reichel     |
| <a href="#">2.C.6 - Zinc Production</a>             | 2025/04/02 13:18 | Jens Reichel     |
| <a href="#">2.C.3 - Aluminium Production</a>        | 2025/04/02 09:42 | Michael Kotzulla |
| <a href="#">2.C - Metal Industry (OVERVIEW)</a>     | 2025/04/01 17:11 | Michael Kotzulla |
| <a href="#">2.C.7.c - Other Metal Production</a>    | 2025/04/01 17:06 | Michael Kotzulla |
| <a href="#">2.C.7.a - Copper Production</a>         | 2025/04/01 15:40 | Michael Kotzulla |
| <a href="#">2.C.1 - Iron &amp; Steel Production</a> | 2025/03/27 18:33 | Jens Reichel     |

### NFR 2.D Other Solvent & Product Use

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">2.D - Solvent Use And Product Use (OVERVIEW)</a>         | 2025/04/04 14:53 | Jens Reichel     |
| <a href="#">2.D.3.i - Other Solvent Use</a>                          | 2025/04/03 08:14 | Michael Kotzulla |
| <a href="#">2.D.3.c - Asphalt Roofing</a>                            | 2025/04/02 16:11 | Robert Kludt     |
| <a href="#">2.D.3.b - Road Paving</a>                                | 2025/04/02 16:09 | Robert Kludt     |
| <a href="#">2.D.3.d - Coating Application</a>                        | 2025/04/02 15:45 | Michael Kotzulla |
| <a href="#">2.D.3.h - Printing</a>                                   | 2025/04/02 15:42 | Michael Kotzulla |
| <a href="#">2.D.3.g - Chemical Products</a>                          | 2025/04/02 15:42 | Michael Kotzulla |
| <a href="#">2.D.3.f - Dry Cleaning</a>                               | 2025/04/02 09:43 | Jens Reichel     |
| <a href="#">2.D.3.e - Degreasing</a>                                 | 2025/04/02 09:41 | Jens Reichel     |
| <a href="#">2.D.3.a - Domestic Solvent Use, including Fungicides</a> | 2025/04/02 09:19 | Jens Reichel     |

### NFR 2.G Other Product Use

| Page   | Date             | User             |
|--|------------------|------------------|
| <a href="#">2.G(c) - Use of Charcoal for barbecues</a> | 2025/04/03 09:35 | Michael Kotzulla |
| <a href="#">2.G(a) - Fireworks</a>                     | 2025/04/03 09:34 | Michael Kotzulla |
| <a href="#">2.G(b) - Other Product use: Tobacco</a>    | 2025/04/03 09:34 | Michael Kotzulla |
| <a href="#">2.G.4 - Use of Lubricants</a>              | 2025/04/03 09:31 | Michael Kotzulla |

### NFR 2.H Pulp, Paper, Food

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">2.H.1 - Pulp and Paper Industry</a>       | 2025/04/03 11:18 | Michael Kotzulla |
| <a href="#">2.H.2 - Food &amp; Beverages Industry</a> | 2025/04/03 11:17 | Michael Kotzulla |

### NFR 2.I Wood Processing

### NFR 2.J POP Production

### NFR 2.K POP & HM Consumption

### NFR 2.M Other Production, Consumption, Storage, Transportation or Handling of Bulk Products

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">2.L - Other Production, Consumption, Storage, Transportation or Handling of Bulk Products</a> | 2025/03/27 11:55 | Michael Kotzulla |
| <a href="#">2.L(b) - Diffuse Emissions from Industrial Establishments</a>                                 | 2025/03/27 11:43 | Michael Kotzulla |
| <a href="#">2.L(a) - Handling of Bulk Products</a>  | 2025/03/27 11:42 | Michael Kotzulla |

## NFR 3 - Agriculture

| Page   | Date             | User         |
|--|------------------|--------------|
| <a href="#">Chapter 5 - NFR 3 - Agriculture (OVERVIEW)</a> | 2025/04/02 14:30 | Jana Niebuhr |

## NFR 5 - Waste

| Page  | Date             | User             |
|---|------------------|------------------|
| <a href="#">5.B.1 - Biological Treatment of Waste: Composting</a>                               | 2025/04/03 10:25 | Michael Kotzulla |
| <a href="#">5.E.2 - Other Waste: Building and Car Fires</a>                                     | 2025/04/03 10:20 | Michael Kotzulla |
| <a href="#">5.C.2 - Open Burning of Waste</a>   | 2025/04/03 08:29 | Robert Kludt     |
| <a href="#">5.C.1.b v - Cremation</a>   | 2025/04/02 16:20 | Robert Kludt     |
| <a href="#">5.D.2 - Industrial Wastewater Handling</a>  | 2025/03/27 16:30 | Michael Kotzulla |
| <a href="#">5.D.1 - Domestic &amp; Commercial Wastewater Handling</a>                           | 2025/03/27 16:30 | Michael Kotzulla |
| <a href="#">5.B.2 - Biological Treatment of Waste: Anaerobic Digestion at Biogas Facilities</a> | 2025/03/27 16:29 | Michael Kotzulla |
| <a href="#">5.A - Biological Treatment of Waste: Solid Waste Disposal on Land</a>               | 2025/03/27 16:28 | Michael Kotzulla |

## NFR 11 - Natural Sources

# Page Tools

### Orphans

| # | ID                                |
|---|-----------------------------------|
| 1 | <a href="#">iir:xxxxxxxxxxxxx</a> |

### Wanted

| # | ID  | Links                              |
|---|---|------------------------------------|
| 1 | <a href="#">general:projections:adjustments</a>               | 6 : <a href="#">Show backlinks</a> |
| 2 | <a href="#">general:adjustments:adjustment_de-a</a>           | 4 : <a href="#">Show backlinks</a> |
| 3 | <a href="#">general:adjustments:adjustment_de-b</a>           | 4 : <a href="#">Show backlinks</a> |
| 4 | <a href="#">general:adjustments:adjustment_de-c</a>           | 4 : <a href="#">Show backlinks</a> |
| 5 | <a href="#">general:adjustments:adjustment_de-d</a>           | 4 : <a href="#">Show backlinks</a> |
| 6 | <a href="#">sector:natural_sources:forest_fires:start</a>     | 3 : <a href="#">Show backlinks</a> |
| 7 | <a href="#">sector:natural_sources:start</a>                  | 3 : <a href="#">Show backlinks</a> |
| 8 | <a href="#">sector:other_and_natural_sources:forest_fires</a> | 3 : <a href="#">Show backlinks</a> |
| 9 | <a href="#">appendices:appendix5_additional_information</a>   | 1 : <a href="#">Show backlinks</a> |