

Reported information on large combustion plants under the Energy Community Treaty

Information on the database structure and use

Version 2.2



Cover design: EEA

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Layout: EEA

Acknowledgments

The compilation of the database and this document was done by the European Environment Agency (EEA).

The dataflow is managed by Juan Calero (EEA), please refer to him for further enquiries (juan.calero@eea.europa.eu).

Version control

| Version number | Description | Date |
|----------------|---|---------------|
| 1.0 | First version drafted for the 2020 cycle | December 2020 |
| 2.0 | Second version with minor editing following the 2021 cycle | July 2021 |
| 2.1 | Minor editing, for publication with the data received in 2022 | July 2022 |
| 2.2 | Minor editing, for publication with the data received in 2023 | December 2023 |

About the database

This database contains plant-by-plant data on Large Combustion Plants (LCP) for the years 2018 to 2022 reported under the Energy Community Treaty, as implemented by Council Decision 2006/500/EC of 29 May 2006. The data include rated thermal input, annual energy input and emissions of SO₂, NO_x and dust. In addition, information on derogations under the provisions of the agreed legislation under the Treaty is provided.

As of 2023, member countries reporting to the database are: Bosnia and Herzegovina, Georgia, Moldova (from 2019), Montenegro, North Macedonia, Serbia, Ukraine and Kosovo¹.

¹ This designation is without prejudice to positions on status, and is in line with UNSCR 1244(1999) and the ICJ Opinion on the Kosovo declaration of independence.

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1 Content of the EEA dataservice entry

The EEA dataservice is the section of the EEA website where datasets are made available to the public. The permanent link to the dataset on large combustion plants from member countries of the Energy Community is as follows:

<https://www.eea.europa.eu/en/datahub/datahubitem-view/b37addc8-b60e-4304-ae49-eba5828a9163>

The link presents the location of the EEA's data hub where this data is. The dataset present at the top of the page is always the latest available. Users can also navigate to older versions using the relevant option in the fiche – “archived or restricted datasets” (see Figure 1). Figure 2 provides an overview of the various files that are offered in the fiche of the latest version of the dataset.

Figure 1 Option in the navigation panel to browse dataset versions

The screenshot displays two dataset entries in a list. The first entry, titled '2018-2021', is the current version. It features a title 'Reported information on large combustion plants under the Energy Community Treaty, 2022' and offers download options for 'Microsoft Access (.mdb, .accdb)' and 'Microsoft Excel (.xls, .xlsx)'. It was published on 8 Sep 2022 and covers the period 2018-2021. A 'Direct download' link is provided. The second entry, titled '2018-2020', is marked as 'Archived'. It has the title 'Reported information on large combustion plants under the Energy Community Treaty, 2021' and also offers download options for 'Microsoft Access (.mdb, .accdb)' and 'Microsoft Excel (.xls, .xlsx)'. It was published on 30 Sep 2021 and covers the period 2018-2020. A 'Direct download' link is also provided. The interface includes a navigation panel on the left with a vertical line indicating the selected version.

Figure 2 Overview of the content of the fiche of this dataset entry

The screenshot shows a file explorer interface for the dataset 'eea_t_lcp-energy-community_p_2018-2021_v01_r00'. The interface includes a header with the European Environment Agency logo and the dataset name. Below the header, there is a navigation bar with a home icon and a right arrow. The main content area displays a list of items, each with a checkbox on the left and a folder or file icon followed by its name. The items are: 'Name' (with a dropdown arrow), 'Documents' (with a folder icon), 'b8f8402b-860e-45b5-b247-cf951de3321f.xml' (with a document icon), 'LCPEnergy Community2022v2.2.accdb' (with a database icon), and 'LCPEnergy Community2022v2.2.xlsx' (with an Excel icon). At the bottom of the list, it states '1 folder and 3 files'.

| <input type="checkbox"/> | Name ▾ |
|--------------------------|--|
| <input type="checkbox"/> | Documents |
| <input type="checkbox"/> | ⟷ b8f8402b-860e-45b5-b247-cf951de3321f.xml |
| <input type="checkbox"/> | 📄 LCPEnergy Community2022v2.2.accdb |
| <input type="checkbox"/> | 📊 LCPEnergy Community2022v2.2.xlsx |

1 folder and 3 files

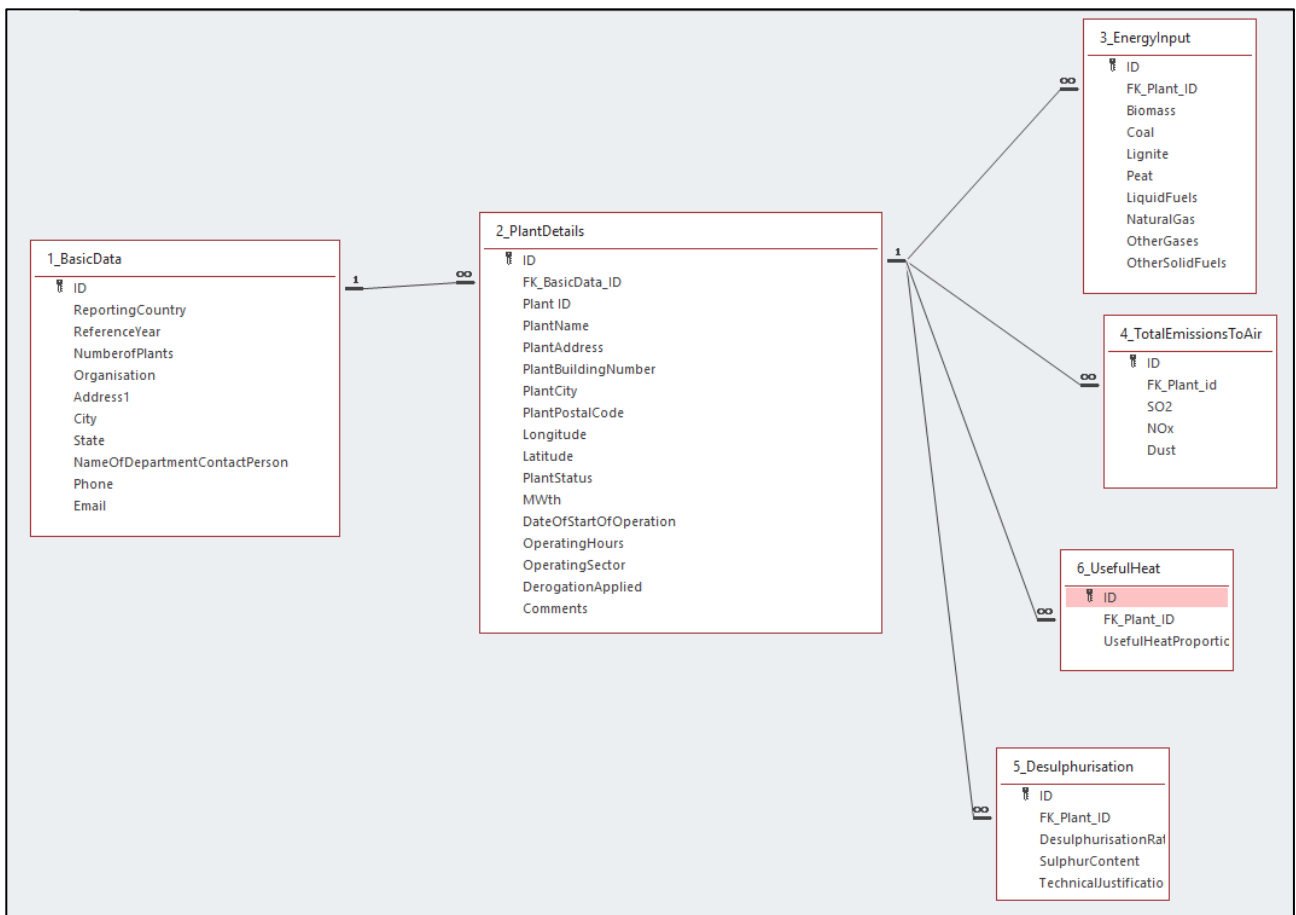
2 Complete MS Access™ database

The dataset is provided in its complete version in Microsoft Access™ data format. This section outlines the structure of the data, the interpretation of the data fields and the metadata of the file.

The data model

The database consists of six tables. Its structure is shown in the figure below. The table 1_BasicData contains one entry for each Member State and each year. The table 2_PlantDetails contains entries for each individual plant and year. Tables 3 to 6 contain corresponding entries for each plant and year included in table 2_PlantDetails.

Figure 3: Structure of the LCP database v1.1



The field “ID” in table 1_BasicData is the foreign key for table 2_PlantDetails. The field “ID” in table 2_PlantDetails is the foreign key for tables 3 to 6. All fields in the various tables are described below.

Tables and fields

The LCP database contains the following tables and fields:

Fields in Table 1_BasicData

| Field | Data Type | Description |
|-------------------------------|------------|--|
| ID | Autonumber | Key for this Table |
| Member State | Short Text | Two-letter ISO2 country code |
| Reference Year | Number | Year which the inventory refers to |
| NumberOfPlants | Number | Number of plants reported by reporting country in a given year |
| Organisation | Short text | Name of the organisation reporting the data |
| Address1 | Short text | Address of the organisation reporting the data |
| City | Short text | City of the organisation reporting the data |
| State | Short text | State or region address of the organisation reporting the data |
| NameOfDepartmentContactPerson | Short text | Department name or contact person at the organisation reporting the data |
| Phone | Short text | Phone number of the organisation reporting the data |
| Email | Short text | Email address of the organisation reporting the data |

Fields in Table 2_PlantDetails

| Field | Data Type | Description |
|---------------------|------------|--|
| ID | Autonumber | Key for table |
| FK_BasicData_ID | Number | Foreign Key linking each entry in Table 2_PlantDetails to the corresponding year and Reporting County in Table 1_BasicData |
| PlantID | Short Text | Identifier of the plant which stays the same over time. |
| PlantName | Short Text | Name of the Plant |
| PlantAddress | Short Text | Address of the Plant |
| PlantBuildingNumber | Short Text | Building number of the Plant |
| PlantCity | Short Text | City of the Plant |
| PlantPostalCode | Short Text | Postal code of the Plant |
| Longitude | Short Text | Geographical longitude of the Plant (in decimal degrees) |

| | | |
|------------------------|------------|---|
| Latitude | Short Text | Geographical latitude of the Plant (in decimal degrees) |
| PlantStatus | Short Text | StatusOfPlant |
| MWth | Number | Rated thermal input of the Plant (megawatts thermal – MWth) |
| DateOfStartOfOperation | Short Text | Date when the Plant started operating |
| OperatingHours | Number | Number of hours of the Plant |
| OperatingSector | Short Text | Name of the sector the Plant operates within |
| DerogationApplied | Short Text | If the plant is subject to a derogation |
| Comments | Short Text | Comments by the reporting authority |

Fields in **Table 3_EnergyInput**

| Field | Data Type | Description |
|-----------------|------------|---|
| ID | Autonumber | Key for this Table |
| FK_Plant_ID | Number | Foreign key, linking each entry in Table 3_EnergyInput to the corresponding plant in Table 2_PlantDetails |
| Biomass | Number | Total biomass energy input of the plant in the reporting year (TJ) |
| Coal | Number | Total coal energy input of the plant in the reporting year (TJ) |
| Lignite | Number | Total lignite energy input of the plant in the reporting year (TJ) |
| Peat | Number | Total peat energy input of the plant in the reporting year (TJ) |
| LiquidFuels | Number | Total liquid fuels energy input of the plant in the reporting year (TJ) |
| NaturalGas | Number | Total natural gas input of the plant in the reporting year (TJ) |
| OtherGases | Number | Total other gases energy input of the plant in the reporting year (TJ) |
| OtherSolidFuels | Number | Total other solid fuels input of the plant in the reporting year (TJ) |

Fields in **Table 4_TotalEmissionsToAir**

| Field | Data Type | Description |
|-----------------|------------|---|
| ID | Autonumber | Key for this table |
| FK_Plant_ID | Number | Foreign key, linking each entry in Table 4_TotalEmissionsToAir to the corresponding plant in table 2_PlantDetails |
| SO ₂ | Number | Total of SO ₂ emissions of the plant in the reporting year (t) |
| NO _x | Number | Total of NO _x emissions of the plant in the reporting year (t) |
| Dust | Number | Total of dust emissions of the plant in the reporting year (t) |

Fields in **Table 5_Desulphurisation**

| Field | Data Type | Description |
|------------------------|------------|---|
| ID | Autonumber | Key for this table |
| FK_Plant_ID | Number | Foreign key, linking each entry in Table 5 to the corresponding plant in table 2_PlantDetails |
| DesulphurisationRate | Number | Desulphurisation rate (between 0 and 1). |
| SulphurContent | Number | SulphurContent of the fuel (between 0 and 1). |
| TechnicalJustification | Text | Technical justification of the non-feasibility of applying with the limit values. |

Fields in **Table 6_UsefulHeat**

| Field | Data Type | Description |
|----------------------|------------|---|
| ID | Autonumber | Key for this table |
| FK_Plant_ID | Number | Foreign key, linking each entry in Table 6 to the corresponding plant in table 2_PlantDetails |
| UsefulHeatProportion | Number | Proportion of useful heat (between 0 and 1). |

Emissions to air queries

The database also contains queries which combines tables 1, 2, and 4, in order to allow for a display of data from several tables. The query can be found under “Queries” – “AllCountriesEmissionsAIR”. There is a query per year (e.g. AllCoubtriesEmissionsAIR2021). These queries combinethe following fields: ReportingCountry – Reference year – PlantName – PlantID – Emissions (SO₂, NO_x, dust).

Energy input queries

Likewise, the database contains queries (one per year) combining tables 1, 2 and 3, with the following fields: ReportingCountry – Reference year – PlantName – PlantID – Energy inputs (biomass, coal, lignite, peat, other solid fuels, liquid fuels, natural gas, other gases).

Metadata

Reporting obligation: Summary of reporting on large combustion plants (LCP), Council Decision 2006/500/EC of 29 May 2006 on the conclusion by the European Community of the Energy Community Treaty <https://rod.eionet.europa.eu/obligations/794>

Temporal coverage: 2018-2022

Geographic coverage as per the treaty: Albania (no plants reported), Bosnia and Herzegovina, Kosovo¹, North Macedonia, Georgia, Moldova (plants reported since 2019), Montenegro, Serbia and Ukraine.

Units:

Total energy input, related to net calorific value: Terajoules per year

SO₂, NO_x and dust emissions: Metric tonnes per year

Rated thermal input: MWth

Desulphurisation rate: %

Sulphur content: %

Useful heat: %

3 User-friendly tables with yearly data

The user-friendly tables are an extract of the database containing the most relevant fields and provided in MS Excel™ format. It extracts the data for each year in an independent sheet. This presentation of the data is meant to help those users who are not familiar with Microsoft Access™. As depicted in Figure 4, the tab control at the bottom of the Excel™ window allows to browse the different years. The columns are filtered so that the user can e.g. define a specific set of countries or restrict the fuel type presented. The first tab of the extract is a README tab with the metadata of the dataset.

Figure 4 Overview of the Excel sheet

| ReportingCountry | ReferenceYear | PlantName | Plant ID | Biomass (TJ) | Coal (TJ) | Lignite (TJ) | Peat (TJ) | Other S | Liquid Fuels (TJ) | Natural Gas (TJ) | Other Gases (t) | SO ₂ (t) | NO _x (t) | Dust (t) | | |
|------------------|---------------|---|---------------|--------------|-----------|--------------|-----------|---------|-------------------|------------------|-----------------|---------------------|---------------------|----------|-------|-----|
| BA | 2022 | TPP Gacko-1 | G-1 | 0.0 | 0.0 | 16373.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18545.0 | 2201.4 | 3648.8 | | |
| BA | 2022 | TPP Kakanj-5 | K-5 | 0.0 | 3124.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7609.0 | 695.0 | 6.0 | | |
| BA | 2022 | TPP Kakanj-6 | K-6 | 12.8 | 5987.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14745.0 | 1346.0 | 12.0 | | |
| BA | 2022 | TPP Kakanj-7 | K-7 | 0.0 | 14991.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36627.0 | 3344.0 | 31.0 | | |
| BA | 2022 | ICHPP Natron Hayat LUKO-4 | LUKO-4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1972.7 | 0.0 | 25.3 | 78.4 | 35.2 | | |
| BA | 2022 | TPP Stanari | Stanari_1 | 0.0 | 0.0 | 21828.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2098.3 | 1973.3 | 114.0 | | |
| BA | 2022 | TPP Tuzla-3 | T-3 | 0.0 | 870.6 | 2122.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2430.0 | 218.0 | 46.0 | | |
| BA | 2022 | TPP Tuzla-4 | T-4 | 6.0 | 4190.2 | 6481.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11207.0 | 1330.0 | 260.0 | | |
| BA | 2022 | TPP Tuzla-5 | T-5 | 0.0 | 4357.3 | 7262.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11979.0 | 1488.0 | 202.0 | | |
| BA | 2022 | TPP Tuzla-6 | T-6 | 17.5 | 8577.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13622.0 | 655.0 | 59.0 | | |
| BA | 2022 | TE Ugljevik | U-1 | 0.0 | 17448.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 85526.0 | 2692.0 | 869.0 | | |
| BA | 2022 | ICHPP Natron Hayat UKO-3 | UKO-3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| BA | 2022 | ICHPP Natron Hayat UKO-4 | UKO-4 | 0.0 | 849.1 | 1335.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1623.0 | 217.3 | 70.4 | | |
| GE | 2022 | LLC Georgian International Energy Corporation | GE0001 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2590.8 | 0.0 | 144.5 | 0.0 | | |
| GE | 2022 | Mtkvany Energy LLC | GE0002 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7624.7 | 0.0 | 423.3 | 0.0 | | |
| GE | 2022 | GPower LLC | GE0003 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 508.1 | 0.0 | 29.0 | 0.0 | | |
| GE | 2022 | LLC Gardabani TPP | GE0004 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8042.9 | 0.0 | 209.1 | 0.0 | | |
| GE | 2022 | LLC Gardabani TPP 2 | GE0005 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8061.7 | 0.0 | 314.8 | 0.0 | | |
| MD | 2022 | TERMOELECTRICA Centrala Electrică cu Termofid | LCP MD 000001 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2763.6 | 5174.7 | 0.0 | 1369.4 | 640.8 | 125.0 | |
| MD | 2022 | TERMOELECTRICA Centrala Electrică cu Termofid | LCP MD 000002 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 841.8 | 0.0 | 0.2 | 40.4 | 0.3 | |
| ME | 2022 | Thermal power plant "Pljevlja" | ME0001 | 0.0 | 0.0 | 14444.0 | 0.0 | 0.0 | 0.0 | 232.8 | 0.0 | 46504.0 | 3954.0 | 560.0 | | |
| MK | 2022 | ESM AD Skopje - REK Bitola (B1 + B2) | MK0001 | 0.0 | 0.0 | 26876.0 | 0.0 | 0.0 | 0.0 | 1140.0 | 0.0 | 111408.0 | 5328.0 | 3899.0 | | |
| MK | 2022 | ESM AD Skopje - REK Bitola (B3) | MK0002 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| MK | 2022 | ESM AD Skopje - REK Oslomej | MK0003 | 0.0 | 0.0 | 1918.0 | 0.0 | 0.0 | 0.0 | 144.7 | 0.0 | 2415.0 | 461.0 | 303.0 | | |
| MK | 2022 | TEC Negotino | MK0004 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4654.0 | 0.0 | 1508.0 | 565.0 | 79.4 | | |
| MK | 2022 | BEG - Toplana Istok | MK0005 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 384.6 | 0.0 | 0.0 | 19.5 | 0.4 | |
| MK | 2022 | BEG - Toplana Zapad | MK0006 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 185.0 | 0.0 | 0.0 | 3.8 | 0.2 | |
| MK | 2022 | Rafinerija OKTA - Procesna Instalacija | MK0007 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| MK | 2022 | Rafinerija OKTA - Energetika | MK0008 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| RS | 2022 | EPS, Termoelektrana Nikola Tesla A, A1-A3 | RS0001 | 0.0 | 0.0 | 37017.7 | 0.0 | 0.0 | 0.0 | 1032.3 | 0.0 | 38463.1 | 4752.1 | 1738.2 | | |
| RS | 2022 | EPS, Termoelektrana Nikola Tesla A, A4-A6 | RS0002 | 0.0 | 0.0 | 58849.7 | 0.0 | 0.0 | 0.0 | 965.5 | 0.0 | 68650.7 | 9172.6 | 663.1 | | |
| RS | 2022 | EPS, Termoelektrana Nikola Tesla B, B1-B2 | RS0003 | 0.0 | 0.0 | 73913.3 | 0.0 | 0.0 | 0.0 | 1951.1 | 0.0 | 73012.4 | 8499.7 | 1020.0 | | |
| RS | 2022 | EPS, Termoelektrana Nikola Tesla B, Pomocna k | RS0004 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 174.9 | 0.0 | 7.1 | 2.9 | 0.3 | | |
| RS | 2022 | EPS, Termoelektrana Kostolac A, A1 | RS0005 | 0.0 | 0.0 | 8261.4 | 0.0 | 0.0 | 0.0 | 108.6 | 0.0 | 19281.8 | 1449.4 | 456.3 | | |
| RS | 2022 | EPS, Termoelektrana Kostolac A, A2 | RS0006 | 0.0 | 0.0 | 13536.8 | 0.0 | 0.0 | 0.0 | 77.4 | 0.0 | 22409.7 | 2156.6 | 307.6 | | |
| RS | 2022 | EPS, Termoelektrana Kostolac B, B1-B2 | RS0007 | 0.0 | 0.0 | 48118.9 | 0.0 | 0.0 | 0.0 | 186.2 | 0.0 | 36560.3 | 4014.2 | 497.7 | | |
| RS | 2022 | EPS, Termoelektrana toplana Novi Sad | RS0008 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8381.7 | 0.0 | 3.4 | 1370.7 | 3.5 | |
| RS | 2022 | EPS, Toplana Vreoci, Kolubara Prerada | RS0009 | 0.0 | 0.0 | 1498.8 | 0.0 | 0.0 | 0.0 | 17.9 | 0.0 | 2828.6 | 143.4 | 215.2 | | |
| RS | 2022 | NIS, Energana Novi Sad | RS0010 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 115.1 | 0.0 | 0.3 | 12.0 | 0.0 | |
| RS | 2022 | NIS, Atmosferska destilacija II | RS0011 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.5 | 0.0 | 241.9 | 1126.6 | 15.4 | 26.5 | 0.9 |
| RS | 2022 | NIS, Energana Pancevo | RS0012 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 497.0 | 863.9 | 0.0 | 54.7 | 194.5 | 8.1 | |
| RS | 2022 | EPS, Termoelektrana - TE Morava | RS0013 | 0.0 | 2775.4 | 3989.9 | 0.0 | 0.0 | 0.0 | 133.9 | 0.0 | 33183.4 | 1580.3 | 124.8 | | |
| RS | 2022 | EPS, Termoelektrana - TE Kolubara A3 2 | RS0014 | 0.0 | 0.0 | 1056.8 | 0.0 | 0.0 | 0.0 | 85.9 | 0.0 | 2291.7 | 74.2 | 564.8 | | |
| RS | 2022 | EPS, Termoelektrana - TE Kolubara A3 5 | RS0015 | 0.0 | 0.0 | 2939.0 | 0.0 | 0.0 | 0.0 | 167.3 | 0.0 | 5659.8 | 470.1 | 164.1 | | |
| RS | 2022 | EPS, Termoelektrana - TE Kolubara A3 1 | RS0016 | 0.0 | 0.0 | 1223.3 | 0.0 | 0.0 | 0.0 | 88.5 | 0.0 | 3261.8 | 172.8 | 588.5 | | |
| UA | 2022 | Zuivska TPP, power units 1-4 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Prydniprovsk TPP, power unit 8 | 10.1 | 0.0 | 2054.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.7 | 0.0 | 1825.0 | 229.9 | 509.7 | |
| UA | 2022 | Prydniprovsk TPP, power unit 9 | 10.2 | 0.0 | 6266.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.0 | 0.0 | 6281.7 | 1034.3 | 80.6 | |
| UA | 2022 | Prydniprovsk TPP, power unit 10 | 10.3 | 0.0 | 7596.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.3 | 0.0 | 7779.2 | 1384.2 | 91.0 | |
| UA | 2022 | Makiivka Metallurgical plant CHP | 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Avdiivka Coke plant CHP | 101 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Mariupol CHP-1 | 102 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Mariupol CHP-2 | 103 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Mariupol CHP-3 | 104 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Sumy Machinery plant CHP | 105 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 719.8 | 0.0 | 0.0 | 58.7 | 0.0 | |
| UA | 2022 | Perovomaisk EnergoChemProm CHP | 106 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Simferopol CHP | 107 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Sevastopol CHP | 108 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Saky CHP | 109 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| UA | 2022 | Prydniprovsk TPP, power units 11, 12 | 11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |