



## EoD – CSV – Market Results Interface Specification

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*EEX Information Products*

## 1. Document History

| Version | Description     | Date       | Author           |
|---------|-----------------|------------|------------------|
| 001     | Initial Version | 2011/11/10 | Mathias Ponnwitz |

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### 3. List of Abbreviations

| Abbreviation | Explanation  |
|--------------|--|
| ASCII        | The American Standard Code for Information Interchange is a character-encoding scheme based on the ordering of the English alphabet.   |
| CEST         | Central European Summer Time   |
| CET          | Central European Time  |
| CR           | The carriage return (CR) is one of the control characters in ASCII code, Unicode or EBCDIC that commands a printer or other sort of display to move the position of the cursor to the first position on the same line. |
| CSV          | The Comma- separated values (CSV) file is used for the digital storage of data structured in a table of lists form.  |
| EBCDIC       | The Extended Binary Coded Decimal Interchange Code (EBCDIC) is an 8-bit character encoding (code page) used on IBM mainframe operating systems.  |
| EEX          | European Energy Exchange   |
| EUA          | European Union Emission Allowance  |
| FTP          | The File transfer protocol (FTP) is a standard network protocol used to exchange and manipulate files over a TCP/IP based network.   |
| IBM          | The International Business Machines Corporation (IBM) is a multinational computer technology and IT consulting corporation.  |
| ISO          | The International Organization for Standardization (ISO) is an international- standard- setting body composed of representatives from various national standards organizations.  |
| kWh          | The watt-hour, or kilowatt-hour, (symbol kW·h, kWh) is a unit of energy equal to 3,600,000 joules. Energy in watt-hours is the multiplication of power in watts and time in hours.                                     |
| LF           | A line feed (LF) or newline, also known as a line break or end-of-line (EOL) character, is a special character or sequence of characters signifying the end of a line of text.   |
| MW           | Mega Watt = 1.000.000 W (refer to W)   |
| MWh          | Mega Watt Hour = 1.000 kWh (refer to kWh)  |
| OTC          | Over- the- counter (OTC) trading is to trade financial instruments such as stocks, bonds, commodities or derivatives directly between two parties.   |
| W            | The watt (symbol: W) is a derived unit of power in the International System of Units (SI). It measures rate of energy conversion.  |
| XLS          | Excel format is the native format of Microsoft Excel. The files of this format usually have xls extension  |
| XML          | The Extensible Markup Language (XML) is used for the digital storage of structured data.   |

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## 4. Management Overview

To facilitate the energy markets and to support market participants EEX has traditionally been providing information products. These information products outline details about day-to-day market data as well as historical data. Market participants are able to get access to electronic data for all products of the spot and derivatives markets (i.e. electricity, natural gas, EUA and coal). Moreover transparency data about the energy market can be obtained.

In addition to the free data available on the EEX website, EEX provides its commercial information products in CSV, XLS as well as XML format on an FTP-server (<ftp://infoproducts.eex.com>). These files are designed for easy processing and can be used by customers for individual market analysis and any other further analytics.

This document describes in detail the CSV information products files generated out of the trading systems for all commodities traded at the EPEX Spot and the EEX.

## 5. Definitions

In the following chapter all needed definition will be made. In a first step all conventions will be defined and in a second step all elements. With the elements the lines will be constructed.

### 5.1. General File Design and File Naming

To provide the information a CSV file format will be used.

All lines are terminated with a carriage return <CR> and a line feed <LF>. The files can be viewed by using any simple text editor.

All lines start with a *line identifier* [*line identifier*] that specifies the type of data that follows. The lines are consisting of a number of *fields* [*field*]. A semicolon separates fields. The fields have different meanings in the context of a line as described in the following sections of this document. In summary a line is assembled like:

```
[line identifier];[field 1];[field 2]; ... ;[field n]<CR><LF>
```

The filename of each Information Product File will be created using a fixed scheme. By viewing the filename, the content of the file and the format an inference is possible.

Every CSV file will be created using the following scheme:

```
[BASE-NAME-CSV]_[PERIOD-MARK-CSV].csv
```

| Part of the filename | Description  |
|----------------------|--|
| PERIOD-MARK-CSV      | Scope of the file content: [YYYYMMDD] file contains data on basis of trading or delivery day |
| BASE-NAME-CSV        | unique file identifier, example: sarf  |

Table 1: File naming elements

### 5.2. Behaviour of File Creation

In general all files are generated at the time the data contained is published. These times can be found in the tables in chapter 6.

### 5.3. Definition of Used Data Types

The following table shows the used formats.

| Type        | Description   |
|-------------|---|
| <commodity> | Commodity that the file contains.<br>Example: Power |

|            |   |
|------------|---|
| <currency> | <p>Currency code – the currency of prices in the file.</p> <p>Please refer to ISO 4217 for a detailed description.</p> <p>Example: EUR</p>  |
| <date>     | <p>Date format – information of a point in time.</p> <p>Please note that all points in time are in CET/CEST.</p> <p>Please refer to ISO 8601 for a detailed description of the format used in XML. In CSV files, the German formatting is used: DD.MM.YYYY hh:mm:ss.</p> <p>Examples: 2009-11-17 (XML), 17.11.2009 (CSV)</p>                                  |
| <datetime> | <p>Date and time format – information of a point in time.</p> <p>Please note that all points in time are in CET/CEST.</p> <p>Please refer to ISO 8601 for a detailed description of the format used in XML. In CSV files, the German formatting is used: DD.MM.YYYY hh:mm:ss.</p> <p>Examples: 2009-11-17T01:00:00+01:00 (XML), 17.11.2009 01:00:00 (CSV)</p> |
| <integer>  | <p>The range of all natural numbers including the zero.</p>   |
| <real>     | <p>Floating-point number – all floating-point numbers will have a fraction with a denominator of ten.</p> <p>The German decimal point is used in the CSV format.</p> <p>Example: 1400.4 (XML), 1400,4 (CSV)</p>   |
| <string>   | <p>Alphanumeric string – used for text information.</p> <p>Example: Off-Peak</p>  |
| <time>     | <p>Time format – information of a time of the day.</p> <p>Please note that all times are in CET/CEST.</p> <p>The German formatting is used: hh:mm:ss.</p> <p>Example: 01:00:00</p>  |

Table 2: Definition of formats

## 5.4. Definition of Data Fields

The following table will define all used fields.

| Fieldname          | Format    | Description                    | Example |
|--------------------|-----------|--------------------------------|---------|
| [AreaAbbreviation] | <string>  | Abbreviation of a market area  | APG     |
| [AreaAlias]        | <string>  | Alias of the market area       | SGD0    |
| [AreaFlag]         | <integer> | Active flag of the market area | 1       |

| Fieldname              | Format     | Description  | Example                       |
|------------------------|------------|--|-------------------------------|
| [AuctionPrice]         | <real>     | Price result of the auction                                    | 12,36                         |
| [AuctionTime]          | <time>     | Time of the day the auction was held                           | 15:05:00                      |
| [AuctionTimestamp]     | <datetime> | Point in time the auction was held                             | 2010-03-01T08:13:31+01:00     |
| [AuctionVolume]        | <real>     | Volume auctioned   | 735450                        |
| [AveragePrice]         | <real>     | Average hour price of a delivery day                           | 34,15                         |
| [BestAskPrice]         | <real>     | Best Ask Price of the trading day                              | 42,67                         |
| [BestAskVolume]        | <real>     | Best Ask Volume of the trading day                             | 234568                        |
| [BestBidPrice]         | <real>     | Best Bid Price of the trading day                              | 12,07                         |
| [BestBidVolume]        | <real>     | Best Bid Volume of the trading day                             | 234568                        |
| [BlockAlias]           | <string>   | Alias of a block   | BL02                          |
| [BlockPriceN]          | <real>     | Block price  | 27,98                         |
| [Code]                 | <string>   | Time period code   | D                             |
| [Contract]             | <string>   | Code of a contract   | F1BM                          |
| [ContractVolume]       | <real>     | Volume traded for the contract in the product's commodity unit | 18,100                        |
| [CreationDate]         | <date>     | Date of creation of the file                                   | 17.11.2009                    |
| [CreationTime]         | <time>     | Time of creation of the file                                   | 01:00:00                      |
| [CreationTimestamp]    | <datetime> | Date and time of creation of the file                          | 2010-03-01T08:13:31.699+01:00 |
| [Currency]             | <currency> | Currency Code used for prices                                  | EUR                           |
| [DailyReferencePrice]  | <real>     | Daily reference price  | 22,90                         |
| [DeliveryDate]         | <date>     | Day of delivery of the traded commodity                        | 2010-03-01                    |
| [DeliveryHours]        | <integer>  | Number of hours of delivery                                    | 25                            |
| [DeliveryPeriod]       | <string>   | Delivery period of a future contract                           | 2010.01                       |
| [Execution]            | <string>   | Status of the execution of the block bids.                     | Y                             |
| [HighPrice]            | <real>     | Highest prices of the trading day                              | 128,91                        |
| [HourN]                | <real>     | Price for hour N of the day                                    | 23,78                         |
| [HourSpec]             | <string>   | Time in hh:mm format   | 22:00                         |
| [HourVolume]           | <real>     | Volume of an hour of the day                                   | 234568                        |
| [HourVolumeN]          | <real>     | Volume of hour N of the day                                    | 234568                        |
| [IntradayAuctionPrice] | <real>     | Price of the intraday auction                                  | 234568                        |

| Fieldname               | Format    | Description                                | Example    |
|-------------------------|-----------|--|------------|
| [IntradayAuctionVolume] | <real>    | Volume of the intraday auction             | 12,07      |
| [LastPrice]             | <real>    | Price of the last trade on the trading day | 45,95      |
| [LimitPrice]            | <real>    | Limit price for the block bid.             | 22,27      |
| [LowPrice]              | <real>    | Lowest price of the trading day            | 12,07      |
| [Market Area]           | <string>  | Name of the market area.                   | DE-1       |
| [Maturity]              | <string>  | Maturity of the contracts/products         | Jun10      |
| [NoOfTrades]            | <integer> | Total number of trades.                    | 25         |
| [NumberOfHour]          | <integer> | Nth of hour the day, 1...24                | 2          |
| [NumberOfLines]         | <integer> | The number of lines a file has in total.   | 135        |
| [OIContractVolume]      | <real>    | Open interest, volume                      | 28774161   |
| [OpenInterest]          | <integer> | Open interest, Number of contracts         | 38727      |
| [OpenPrice]             | <real>    | Price of the first trade                   | 42,67      |
| [Product]               | <string>  | Code of the product                        | O1BM       |
| [SettlementPrice]       | <real>    | Settlement price for the contract          | 42,67      |
| [Strike]                | <integer> | Strike of the option                       | 9000       |
| [TradedContracts]       | <integer> | Number of traded contracts                 | 58         |
| [TradingDate]           | <date>    | Date of Trading                            | 17.11.2009 |
| [Type]                  | <string>  | Type of the option                         | C          |
| [Underlying]            | <string>  | Underlying of the product                  | Jan11      |
| [Volume]                | <real>    | Volume traded for the contract             | 537189     |
| [VolumeBuy]             | <real>    | Volume buy for the hour and price          | 537189     |
| [VolumeOTC]             | <real>    | OTC Volume traded for the contract         | 537189     |
| [VolumeSell]            | <real>    | Volume sell for the hour and price         | 456879     |
| [VolumeSum]             | <real>    | Sum of the hourly volumes                  | 456879     |
| [Week]                  | <integer> | First week of delivery of a contract       | 50         |

Table 3: Definition of Fields

## 5.5. Specific Range Definition of Data Fields

Some of the Data Fields are limited in terms of allowed values. The allowed values are linked to specific meanings, which are displayed in the following table.

| Fieldname                                | Value    | Translation  |
|--|----------|--|
| [AreaActive]                             | 0        | inactive   |
|  | 1        | active   |
| [AreaAlias]                              | DE       | Phelix (Germany/Austria)                             |
|  | RWE0     | Amprion GmbH   |
|  | EON0     | Transpower Stromübertragungs GmbH                    |
|  | ENBW     | EnBW Transportnetze AG                               |
|  | VE00     | 50Hertz Transmission GmbH                            |
|  | APG0     | Austrian Power Grid AG                               |
|  | SGD0     | swissgrid ag   |
| [BlockAlias]<br><b>before 2010/09/28</b> | BL01     | Night  |
|  | BL02     | Morning  |
|  | BL03     | High Noon  |
|  | BL04     | Afternoon  |
|  | BL05     | Evening  |
|  | BL06     | Rush Hour  |
|  | BL07     | Baseload   |
|  | BL08     | Peakload   |
|  | BL09     | Off Peak I   |
|  | BL10     | Off Peak II  |
|  | BL11     | Business Hours                                       |
|  | BL12     | Offpeak  |
| [BlockAlias]<br><b>after 2010/09/28</b>  | BL06     | Off Peak II  |
|  | BL07     | Baseload   |
|  | BL08     | Peakload   |
|  | BL10     | Off Peak I   |
| [Code]                                   | D        | Daily  |
| [Commodity]                              | Power    | Electricity  |
|  | Gas      | Natural Gas  |
|  | Emission | Emission Allowances or Certified Emission Reductions |
|  | Coal     | Coal   |

| Fieldname     | Value  | Translation   |
|---------------|--|---|
| [Contract]    | Natural Gas - Spot – Continuous:<br>GND1<br>GND2<br>GWID<br>GWE1<br>GWE2<br>Other Products/Commodities:<br>You will find the shortcodes for the contracts of other commodities at the following <a href="#">Link</a> | Natural Gas - Spot – Continuous:<br>Next Day 1 MW<br>Next Day 10 MW<br>Withinday<br>Weekend 1 MW<br>Weekend 10 MW<br>Other Products/Commodities:<br>You will find the shortcodes for the contracts of other commodities at the following <a href="#">Link</a> |
| [Execution]   | Y<br>N   | Yes<br>No   |
| [Market Area] | DE-1<br>DE-AU<br>DE-AT<br>CH-1<br>CH<br>FR<br>GPL<br>NCG<br>TTF  | Germany/Austria<br>Germany/Austria<br>Germany/Austria<br>Switzerland<br>Switzerland<br>France<br>GASPOOL<br>NetConnect Germany<br>Title Transfer Facility   |
| [Type]        | C<br>P   | Call<br>Put   |

Table 4: Definition of Specific Ranges of Data Fields

## 6. Generated Files

### 6.1. Power - Spot - Intraday

#### 6.1.1. Intraday Results Blocks France File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Intraday trading block value results of the spot market for electricity for France. |
| <b>Displayed Period</b>              | All data since trading start.   |
| <b>Contained Data</b>                | Volumes, low prices, high prices, last prices, average prices, index prices         |
| <b>Generation Frequency and Time</b> | Daily (between 11:05pm and 11:45pm)   |
| <b>Data available since</b>          | 2007/07/11  |

Table 5: Characteristics of Intraday Results Blocks France File

##### 6.1.1.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | intraday_results_blocks_france.csv   |
| <b>Download Location</b> | FTP: <a href="ftp://infoproducts.eex.com/power/csv/spot_market/intraday/france/">ftp://infoproducts.eex.com/power/csv/spot_market/intraday/france/</a> |

Table 6: CSV File details of Intraday Results Blocks France File

No detail specification for this file available.

#### 6.1.2. Intraday Results Hours France File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Intraday trading hour value results of the spot market for electricity for France. |
| <b>Displayed Period</b>              | All data since trading start.  |
| <b>Contained Data</b>                | Volumes, low prices, high prices, last prices, average prices, index prices        |
| <b>Generation Frequency and Time</b> | Daily (between 11:05pm and 11:45pm)  |
| <b>Data available since</b>          | 2007/07/11   |

Table 7: Characteristics of Intraday Results Hours France File

### 6.1.2.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | intraday_results_hours_france.csv                                      |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/intraday/france/ |

Table 8: CSV File details of Intraday Results Hours France File

No detail specification for this file available.

### 6.1.3. Intraday Transactions France File

| Criterion                     | Description   |
|-------------------------------|---|
| Content                       | Intraday trading transaction value results of the spot market for electricity for France. |
| Displayed Period              | All data since trading start.   |
| Contained Data                | Volumes, prices   |
| Generation Frequency and Time | Daily (between 11:05pm and 11:45pm)   |
| Data available since          | 2007/07/11  |

Table 9: Characteristics of Intraday Transactions France File

#### 6.1.3.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | intraday_transactions_france.csv                                       |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/intraday/france/ |

Table 10: CSV File details of Intraday Transactions France File

No detail specification for this file available.

## 6.2. Power - Spot - Auction

### 6.2.1. Power Spot Market Auction Results File

| Criterion | Description |
|-----------|-------------|
|-----------|-------------|

|                                      |  |
|--------------------------------------|--|
| <b>Content</b>                       | Auction results of the spot market for electricity for bidding areas Germany/Austria, Switzerland and France (after 2010/09/28). |
| <b>Displayed Period</b>              | One delivery day.  |
| <b>Contained Data</b>                | Market areas, hour prices and volumes, block prices  |
| <b>Generation Frequency and Time</b> | daily, after the auction (between 12:30pm and 02:00pm)   |
| <b>Data available since</b>          | 2000/06/16   |

Table 11: Characteristics of Power Spot Market Auction Results File

### 6.2.1.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | sarf_[YYYYMMDD].csv<br>Example: sarf_20100224.csv   |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/auction/germany_austria/YYYYY/<br>FTP: ftp://infoproducts.eex.com/power/csv/spot_market/auction/switzerland/YYYYY/<br>FTP: ftp://infoproducts.eex.com/power/csv/spot_market/auction/france/YYYYY/ |

Table 12: CSV File details of Power Spot Market Auction Results File

#### Line description before 2010/09/28:

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br><br># DD.MM.YYYY : Prices and Turnover EPEX Energy Auction Market<br><br>#<br><br># Data type(ST);Delivery Date;Currency;Creation Time;Creation Date<br><br># Data type(BE);Alias;Text;Active<br><br># Data type(PR);Code;Alias;Hour1;Hour2;Hour3A;Hour3B;Hour4;Hour5;Hour6;Hour7;Hour8;<br>Hour9;Hour10;Hour11;Hour12;Hour13;Hour14;Hour15;Hour16;Hour17;Hour18;Hour19;<br>Hour20;Hour21;Hour22;Hour23;Hour24;Average<br><br># Data type(OM);Code;Alias;Hour1;Hour2;Hour3A;Hour3B;Hour4;Hour5;Hour6;Hour7;Hour8;<br>Hour9;Hour10;Hour11;Hour12;Hour13;Hour14;Hour15;Hour16;Hour17;Hour18;Hour19;<br>Hour20;Hour21;Hour22;Hour23;Hour24;Sum<br><br># Data type(BP);Code;Alias;Block1(EPEX-Night/H1-6);Block2(EPEX-Morning/H7-10); Block3(EPEX-High<br>Noon/H11-14);Block4(EPEX-Afternoon/H15-18);Block5(EPEX-Evening/H19-24);Block6(EPEX-Rush<br>Hour/H17-20);Block7(Baseload/H1-24);Block8(Peakload/H9-20);Block9(Off Peak I/H1-8);Block10(Off Peak<br>II/H21-24);Block11(Business/H9-16);Block12(Off-Peak/H1-8,H21-24) | 9         |

| Line Description  | Frequency |
|---|-----------|
| <p># Data type(AL);Number of Lines</p> <p>#</p>   |           |
| <p>Status line with Delivery Date, Currency, Create Time, Creation Date</p> <p><i>ST;[DeliveryDate];[Currency];[CreationTime];[CreationDate]</i></p> <p>ST;24.02.2010;EUR;12:58:08;23.02.2010</p>   | 1         |
| <p>Market Area Definition line Alias, Name and Active Flag</p> <p><i>BE;[AreaAlias];[AreaName];[AreaFlag]</i></p> <p>BE;RWE0;RWE;1</p>  | 7         |
| <p>Hour prices line with Market Area Alias, Hour Prices for Hours 1, 2, 3a, 3b, ..., 24, Average Hour Price for each Market Area defined in the Market Area definition line. The field of hour 3a is empty on the day change from CET to CEST. The field of hour 3b empty on all day except the day of change from CEST to CET.</p> <p><i>PR;[Code];[AreaAlias];[HourPrice1];[HourPrice2];[HourPrice3A];[HourPrice3B];[HourPrice4]; [HourPrice5];[HourPrice6];[HourPrice7];[HourPrice8];[HourPrice9];[HourPrice10];[HourPrice11]; [HourPrice12];[HourPrice13];[HourPrice14];[HourPrice15];[HourPrice16];[HourPrice17];[HourPrice18]; [HourPrice19]; [HourPrice20];[HourPrice21];[HourPrice22];[HourPrice23];[HourPrice24];[AveragePrice]</i></p> <p>PR;D;DE;29,99;28,99;25,95;;21,86;22,61;30,62;36,92;43,44;45,91;45,07;45,04;46,89;<br/>45,00;42,97;41,94;39,81;38,52;40,91;50,10;49,27;40,36;37,24;35,88;31,16;38,19</p>   | 7         |
| <p>Hour volumes line with Market Area Alias, Hour Volumes for Hours 1, 2, 3a, 3b, ..., 24, Daily Volume Sum for each market area codes DE and SGD0. The field of hour 3a is empty on the day change from CET to CEST. The field of hour 3b empty on all day except the day of change from CEST to CET.</p> <p><i>OM;[Code];[AreaAlias];[HourVolume1];[HourVolume2];[HourVolume3A];[HourVolume3B]; [HourVolume4];[HourVolume5];[HourVolume6];[HourVolume7];[HourVolume8];[HourVolume9]; [HourVolume10];[HourVolume11];[HourVolume12];[HourVolume13];[HourVolume14];[HourVolume15]; [HourVolume16];[HourVolume17];[HourVolume18];[HourVolume19];[HourVolume20];[HourVolume21]; [HourVolume22];[HourVolume23]; [HourVolume24];[VolumeSum]</i></p> <p>OM;D;SGD0;830,1;831,0;853,4;;764,5;763,6;834,2;753,0;735,2;925,9;857,6;936,5;886,4;845,9;660,1;751,8;794,<br/>7;785,7;795,9;950,3;909,7;869,4;657,1;565,3;733,0;19290,3</p> | 2         |
| <p>Block prices line with Period Code, Market Area Alias, Block 1 (EPEX-Night / Hours 1-6), Block 2 (EPEX-Morning / Hours 7-10), Block 3 (EPEX-High Noon / Hours 11-14), Block 4 (EPEX-Afternoon /</p>  | 7         |

| Line Description  | Frequency |
|---|-----------|
| <p>Hours 15-18), Block 5 (EPEX-Evening / Hours 19-24), Block 6 (EPEX-Rush Hour / Hours 17-20), Block 7 (Baseload / Hours 1-24), Block 8 (Peakload / Hours 9-20), Block 9 (Off Peak I / Hours 1-8), Block 10 (Off Peak II / Hours 21-24), Block 11 (Business / Hours 9-16), Block 12 (Off-Peak / Hours 1-8 and Hours 21-24).</p> <p><i>BP;[Code];[AreaAlias];[BlockPrice1];[BlockPrice2];[BlockPrice3]; [BlockPrice4];[BlockPrice5]; [BlockPrice6];[BlockPrice7];[BlockPrice8];[BlockPrice9];[BlockPrice10];[BlockPrice11];[BlockPrice12]</i></p> <p>BP;D;RWE0;26,67;42,84;44,98;40,30;40,67;44,70;38,19;44,29;30,05;36,16;44,08;32,09</p> |           |
| <p>Number of lines information line giving the total number of line in the CSV file</p> <p><i>AL;[NumberOfLines]</i></p> <p>AL;34</p>   | 1         |

Table 13: CSV Line types description of Power Spot Market Auction Results File (Line description before 2010/09/28)

#### Line description after 2010/09/28:

| Line Description  | Frequency |
|---|-----------|
| <p>Comment lines describing the file format</p> <p># DD.MM.YYYY : Prices and Turnover EPEX Energy Auction Market</p> <p>#</p> <p># Data type(ST);Delivery Date;Currency;Creation Time;Creation Date</p> <p># Data type(BE);Alias;Text;Active</p> <p># Data type(PR);Code;Alias;Hour1;Hour2;Hour3A;Hour3B;Hour4;Hour5;Hour6;Hour7;Hour8; Hour9;Hour10;Hour11;Hour12;Hour13;Hour14;Hour15;Hour16;Hour17;Hour18;Hour19; Hour20;Hour21;Hour22;Hour23;Hour24;Average</p> <p># Data type(OM);Code;Alias;Hour1;Hour2;Hour3A;Hour3B;Hour4;Hour5;Hour6;Hour7;Hour8; Hour9;Hour10;Hour11;Hour12;Hour13;Hour14;Hour15;Hour16;Hour17;Hour18;Hour19; Hour20;Hour21;Hour22;Hour23;Hour24;Sum</p> <p># Data type(BP);Code;Alias; Block7(Baseload/H1-24);Block8(Peakload/H9-20);Block10(Off Peak I/H1-8);Block6(Off Peak II/H21-24)</p> <p># Data type(AL);Number of Lines</p> <p>#</p> | 9         |
| <p>Status line with Delivery Date, Currency, Create Time, Creation Date</p> <p><i>ST;[DeliveryDate];[Currency];[CreationTime];[CreationDate]</i></p>  | 1         |

| Line Description   | Frequency |
|--|-----------|
| <p>ST;24.02.2010;EUR;12:58:08;23.02.2010</p>   |           |
| <p>Market Area Definition line Alias, Name and Active Flag</p> <p><i>BE;[Market Area];[Market AreaName];[AreaFlag]</i></p> <p>BE;FR;FRANCE;1</p>   | 7         |
| <p>Hour prices line with Market Area Alias, Hour Prices for Hours 1, 2, 3a, 3b, ..., 24, Average Hour Price for each Market Area defined in the Market Area definition line. The field of hour 3a is empty on the day change from CET to CEST. The field of hour 3b empty on all day except the day of change from CEST to CET.</p> <p><i>PR;[Code];[Market Area];[HourPrice1];[HourPrice2];[HourPrice3A];[HourPrice3B];[HourPrice4]; [HourPrice5];[HourPrice6];[HourPrice7];[HourPrice8];[HourPrice9];[HourPrice10];[HourPrice11]; [HourPrice12];[HourPrice13];[HourPrice14];[HourPrice15];[HourPrice16];[HourPrice17];[HourPrice18]; [HourPrice19]; [HourPrice20];[HourPrice21];[HourPrice22];[HourPrice23];[HourPrice24];[AveragePrice]</i></p> <p>PR;D;DE-AT;29,99;28,99;25,95;;21,86;22,61;30,62;36,92;43,44;45,91;45,07;45,04;46,89;<br/>45,00;42,97;41,94;39,81;38,52;40,91;50,10;49,27;40,36;37,24;35,88;31,16;38,19</p> | 7         |
| <p>Hour volumes line with Market Area Alias, Hour Volumes for Hours 1, 2, 3a, 3b, ..., 24, Daily Volume Sum for each market area codes DE and SGD0. The field of hour 3a is empty on the day change from CET to CEST. The field of hour 3b empty on all day except the day of change from CEST to CET.</p> <p><i>OM;[Code];[Market Area];[HourVolume1];[HourVolume2];[HourVolume3A];[HourVolume3B]; [HourVolume4];[HourVolume5];[HourVolume6];[HourVolume7];[HourVolume8];[HourVolume9]; [HourVolume10];[HourVolume11];[HourVolume12];[HourVolume13];[HourVolume14];[HourVolume15]; [HourVolume16];[HourVolume17];[HourVolume18];[HourVolume19];[HourVolume20];[HourVolume21]; [HourVolume22];[HourVolume23]; [HourVolume24];[VolumeSum]</i></p> <p>OM;D;CH;830,1;831,0;853,4;;764,5;763,6;834,2;753,0;735,2;925,9;857,6;936,5;886,4;845,9;660,1;751,8;794,7;<br/>85,7;795,9;950,3;909,7;869,4;657,1;565,3;733,0;19290,3</p>     | 2         |
| <p>Block prices line with Period Code, Market Area Alias, Block 7 (Baseload / Hours 1-24), Block 8 (Peakload / Hours 9-20), Block 10 (Off Peak I / Hours 1-8), Block 6 (Off Peak II / Hours 21-24)</p> <p><i>BP;[Code];[Market Area]; [BlockPrice7];[BlockPrice8];[BlockPrice10];[BlockPrice6]</i></p> <p>BP;D;FR;26,67;42,84;44,98;40,30</p>  | 7         |
| <p>Number of lines information line giving the total number of line in the CSV file</p> <p><i>AL;[NumberOfLines]</i></p>   | 1         |

| Line Description | Frequency |
|------------------|-----------|
| AL:34            |           |

Table 14: CSV Line types description of Power Spot Market Auction Results File (Line description after 2010/09/28)

## 6.2.2. Auction Spot Prices France File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Auction results of the spot market for electricity for bidding area France |
| <b>Displayed Period</b>              | All data since trading start.  |
| <b>Contained Data</b>                | hour prices  |
| <b>Generation Frequency and Time</b> | daily, after the auction (between 11:15am and 12:15pm)                     |
| <b>Data available since</b>          | 2005/04/22   |

Table 15: Characteristics of Auction Spot Prices France File

### 6.2.2.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | auction_spot_prices_france.csv   |
| <b>Download Location</b> | FTP: <a href="ftp://infoproducts.eex.com/power/csv/spot_market/auction/france/">ftp://infoproducts.eex.com/power/csv/spot_market/auction/france/</a> |

Table 16: CSV File details of Auction Spot Prices France File

No detail specification for this file available.

## 6.2.3. Auction Spot Volumes France File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Auction results of the spot market for electricity for bidding area France |
| <b>Displayed Period</b>              | All data since trading start   |
| <b>Contained Data</b>                | hour prices  |
| <b>Generation Frequency and Time</b> | daily, after the auction (between 11:15am and 12:15pm)                     |

---

**Data available since**

2005/04/22

Table 17: Characteristics of Auction Spot Prices France File

### 6.2.3.1. CSV

| Criterion         | Description   |
|-------------------|---|
| Filename          | auction_spot_volumes_france.csv                                       |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/auction/france/ |

Table 18: CSV File details of Auction Spot Prices France File

No detail specification for this file available.

### 6.2.4. Block Bid Overview File

| Criterion                     | Description   |
|-------------------------------|---|
| Content                       | Auction block bid overview of the spot market for electricity for the bidding areas Germany/Austria and Switzerland |
| Displayed Period              | One delivery day  |
| Contained Data                | Execution of the block bids, limit prices, volumes, market areas  |
| Generation Frequency and Time | daily (between 03:30pm and 04:30pm)   |
| Data available since          | 2009/12/17 (only CSV format)<br>2010/09/28 (only XML format)  |
| Data available until          | 2010/09/27 (only CSV format)  |

Table 19: Characteristics of Block Bid Overview File

### 6.2.4.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | bbof_[YYYYMMDD].csv<br>Example: bbof_20100308.csv                      |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/block_bids/YYYY/ |

Table 20: CSV File details of Block Bid Overview File



## 6.2.5. Power Spot Auction Price Curve File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Aggregated price curve of the spot market for electricity for the bidding areas Germany/Austria and Switzerland |
| <b>Displayed Period</b>              | One delivery day  |
| <b>Contained Data</b>                | Market areas, hours, prices, volume buy, volume sell  |
| <b>Generation Frequency and Time</b> | daily (between 03:30pm and 04:30pm)   |
| <b>Data available since</b>          | 2004/01/01 (only CSV format)<br>2010/08/28 (only XML format)  |
| <b>Data available until</b>          | 2010/09/27 (only CSV format)  |

Table 22: Power Spot Auction Price Curve File

### 6.2.5.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | psapc_[YYYYMMDD].csv<br>Example: psapc_20100308.csv  |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/price_curves/germany/YYYY/<br>FTP: ftp://infoproducts.eex.com/power/csv/spot_market/price_curves/switzerland/YYYY/ |

Table 23: CSV File details of Power Spot Auction Price Curve File

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Daily Manual Auction Bid Ask Curves<br>#<br># Data type(ST);Delivery Date;Currency;Creation Time;Creation Date<br># Data type(DA);Market Area;Hour;Price;Volume Buy;Volume Sell<br># Data type(AL);Number of Lines<br># | 6         |
| Status line with Delivery Date, Currency, Create Time, Creation Date<br>ST;[DeliveryDate];[Currency];[CreationTime];[CreationDate]   | 1         |

| Line Description  | Frequency |
|---|-----------|
| ST;08.03.2010;EUR;15:30:13;07.03.2010   |           |
| Market Area Definition line Alias, Name and Active Flag<br><i>DA;[Market Area];[NumberOfHour];[HourN];[VolumeBuy];[VolumeSell]</i><br>DA;CH-1;01;0000,00;3666,60;268,20 | 1...n     |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;34  | 1         |

Table 24: CSV Line types description of Power Spot Auction Price Curve File

## 6.2.6. Auction Aggregated Curves France File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Aggregated price curve of the spot market for electricity for the bidding area France. |
| <b>Displayed Period</b>              | One delivery day.  |
| <b>Contained Data</b>                | Hours, prices, volumes, sale or purchase   |
| <b>Generation Frequency and Time</b> | daily, after the auction (between 12:15pm and 01:15pm)                                 |
| <b>Data available since</b>          | 2005/04/22   |

Table 25: Characteristics of Auction Aggregated Curves France File

### 6.2.6.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | auction_aggregated_curves_france_[YYYYMMDD].csv<br>Example: auction_aggregated_curves_france_20100308.csv |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/price_curves/france/                                |

Table 26: CSV File details of Auction Aggregated Curves France File

No detail specification for this file available.

## 6.3. Power - Spot - Continuous

### 6.3.1. Continuous Results Blocks France File

| Criterion                     | Description  |
|-------------------------------|--|
| Content                       | Continuous trading (block values) data of the spot market for electricity for the bidding area France. |
| Displayed Period              | All data since trading start.  |
| Contained Data                | Hours, volumes, low prices, high prices, last prices, average prices                                   |
| Generation Frequency and Time | daily (between 11:40am and 12:40pm)  |
| Data available since          | 2007/07/12   |
| Data available until          | 2010/05/06   |

Table 27: Characteristics of Continuous Results Blocks France File

#### 6.3.1.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | continuous_results_blocks_france.csv                                     |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/continuous/france/ |

Table 28: CSV File details of Continuous Results Blocks France File

No detail specification for this file available.

### 6.3.2. Continuous Results Hours France File

| Criterion                     | Description   |
|-------------------------------|---|
| Content                       | Continuous trading (hour values) data of the spot market for electricity for the bidding area France. |
| Displayed Period              | All data since trading start.   |
| Contained Data                | Hours, volumes, low prices, high prices, last prices, average prices                                  |
| Generation Frequency and Time | daily (between 11:40am and 12:15pm)   |
| Data available since          | 2007/07/12  |
| Data available until          | 2010/05/06  |

Table 29: Characteristics of Continuous Results Hours France File

### 6.3.2.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | continuous_results_hours_france.csv                                      |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/continuous/france/ |

Table 30: CSV File details of Continuous Results Hours France File

No detail specification for this file available.

### 6.3.3. Continuous Transactions France File

| Criterion                     | Description  |
|-------------------------------|--|
| Content                       | Continuous trading (transactions) data of the spot market for electricity for the bidding area France. |
| Displayed Period              | All data since trading start.  |
| Contained Data                | Volumes, prices  |
| Generation Frequency and Time | daily (between 11:40am and 12:40pm)  |
| Data available since          | 2007/07/12   |
| Data available until          | 2010/05/06   |

Table 31: Characteristics of Continuous Transactions France File

#### 6.3.3.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | continuous_transactions_france.csv                                       |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/spot_market/continuous/france/ |

Table 32: CSV File details of Continuous Transactions France File

No detail specification for this file available.

## 6.4. Power - Futures

### 6.4.1. Power Futures Market Results File

| Criterion                     | Description  |
|-------------------------------|--|
| Content                       | Derivatives Market trading results for Phelix Power Futures, German Power Futures and French Power Futures |
| Displayed Period              | One trading day.   |
| Contained Data                | Contract's volumes in MWh and price information in Euro.   |
| Generation Frequency and Time | Every exchange trading day, between 06:00pm and 09:00pm  |
| Data available since          | Phelix Power Futures: 2002/07/01<br>German Power Futures: 2002/07/01<br>French Power Futures: 2005/08/29   |

Table 33: Characteristics of Power Futures Market Results File

#### 6.4.1.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | fmr_[YYYYMMDD].csv<br>Example: fmr_20100301.csv                            |
| Download Location | FTP: ftp://infoproducts.eex.com/power/csv/derivatives_market/futures/YYYY/ |

Table 34: CSV File details of Power Futures Market Results File

#### Line description before 2010/12/13:

| Line Description | Frequency |
|------------------|-----------|
|------------------|-----------|

| Line Description  | Frequency |
|---|-----------|
| <p>Comment lines describing the file format</p> <p># DD.MM.YYYY : Prices/Volumes for EEX Eurex</p> <p>#</p> <p># Data type(ST);Trading Date;Currency;Creation Time;Creation Date</p> <p># Data type(PR);Contract;Delivery Period;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume</p> <p># Data type(OT);Contract;Delivery Period;Contract Volume;Traded Contracts;Volume;No of Trades</p> <p># Data type(AL);Number of Lines</p> <p>#</p>        | 7         |
| <p>Status line with Trading Date, Currency, Create Time, Creation Date</p> <p><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i></p> <p>ST;24.02.2010;EUR;12:58:08;23.02.2010</p>   | 1         |
| <p>Price and volume results lines for all contracts with Contract code, Delivery Period, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume</p> <p><i>PR;[Contract];[DeliveryPeriod];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]</i></p> <p>PR;F1BM;Mar10;743;38727;28774161;38,97;38,75;39,00;38,75;39,00;723;537189</p> | n         |
| <p>OTC results line for all contracts</p> <p><i>OT;[Contract];[DeliveryPeriod];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i></p> <p>OT;F1BM;Mar10;743;600;445800;16</p>  | n         |
| <p>Number of lines information line giving the total number of line in the CSV file</p> <p><i>AL;[NumberOfLines]</i></p> <p>AL;277</p>  | 1         |

Table 35: CSV Line types description of Power Futures Market Results File (Line description before 2010/12/13)

## Line description after 2010/12/12:

Introduction of the column “Week” in the line “PR” and “OT”.

| Line Description   | Frequency |
|--|-----------|
| <p>Comment lines describing the file format</p> <p># DD.MM.YYYY : Prices/Volumes for EEX Eurex</p> <p>#</p> <p># Data type(ST);Trading Date;Currency;Creation Time;Creation Date</p> <p># Data type(PR);Contract;Delivery Period;Week;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume</p> <p># Data type(OT);Contract;Delivery Period;Week;Contract Volume;Traded Contracts;Volume;No of Trades</p> <p># Data type(AL);Number of Lines</p> <p>#</p>       | 7         |
| <p>Status line with Trading Date, Currency, Create Time, Creation Date</p> <p><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i></p> <p>ST;24.02.2010;EUR;12:58:08;23.02.2010</p>  | 1         |
| <p>Price and volume results lines for all contracts with Contract code, Delivery Period, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume</p> <p><i>PR;[Contract];[DeliveryPeriod];[Week];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]</i></p> <p>PR;F1BM;Mar10;9;743;38727;28774161;38,97;38,75;39,00;38,75;39,00;723;537189</p> | n         |
| <p>OTC results line for all contracts</p> <p><i>OT;[Contract];[DeliveryPeriod];[Week];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i></p> <p>OT;F1BM;Mar10;9;743;600;445800;16</p>  | n         |
| <p>Number of lines information line giving the total number of line in the CSV file</p> <p><i>AL;[NumberOfLines]</i></p> <p>AL;277</p>   | 1         |

Table 36: CSV Line types description of Power Futures Market Results File (Line description after 2010/12/12)

## 6.5. Power - Futures - Options

### 6.5.1. Power Options Market Results

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Derivatives Market trading results for Phelix Power Options |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in MWh and price information in Euro.    |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm     |
| <b>Data available since</b>          | 2004/11/08  |

Table 37: Characteristics of Power Options Market Results File

#### 6.5.1.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | omrf_[YYYYMMDD].csv<br>Example: omrf_20100301.csv                          |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/power/csv/derivatives_market/options/YYYY/ |

Table 38: CSV File details of Power Options Market Results File

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br><br># DD.MM.YYYY : Prices/Volumes for EEX Eurex Options<br><br>#<br><br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br><br># Data type(PR);Product;Maturity;Type;Strike;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume;Underlying<br><br># Data type(OT);Product;Maturity;Type;Strike;Contract Volume;Traded Contracts;Volume;No of Trades;Underlying<br><br># Data type(AL);Number of Lines<br><br># | 7         |

| Line Description  | Frequency |
|---|-----------|
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.02.2010;EUR;12:58:08;23.02.2010  | 1         |
| Price and volume results lines for all contracts with Contract code, Delivery Period, Type, Strike, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume<br><i>PR;[Product];[Maturity];[Type];[Strike];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume];[Underlying]</i><br>PR;O1BY;Jul10;C;3300;720;0;0;4,141;0,000;0,000;0,000;0,000;0;0;Jan11 | n         |
| OTC results line for all contracts<br><i>OT;[Product];[Maturity];[Type];[Strike];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades];[Underlying]</i><br>OT;O1BY;Jul10;C;3300;780;6;4680;1;Jan11   | n         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;277   | 1         |

Table 39: CSV Line types description of Power Options Market Results File

## 6.6. Natural Gas - Spot - Continuous

### 6.6.1. Gas Spot Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Spot Market trading results for NCG, GASPOOL and TTF Natural Gas  |
| <b>Displayed Period</b>              | One trading day, the two delivery day traded as One-Day-Ahead and Two-Days-Ahead                              |
| <b>Contained Data</b>                | Contract's, volumes in MWh, daily reference prices and price information in Euro for the previous trading day |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 10:00am and 11:00am   |

Data available since | 2007/07/02

Table 40: Characteristics of Gas Spot Market Results File

6.6.1.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | gscrf_[YYYYMMDD].csv<br>Example: gscrf_20110530.csv                  |
| Download Location | FTP: ftp://infoproducts.eex.com/gas/csv/spot_market/continuous/YYYY/ |

Table 41: CSV File details of Gas Spot Market Results File

Line description before 2011/05/30:

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br><br># DD.MM.YYYY : Prices and Turnover EEX continuous Gas Spot Market<br><br>#<br><br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br><br># Data type(PR);Product ID;Delivery Date;Delivery Hours;Open Price;Max Price;Min Price;Settlement Price;Daily Volume;Number of Trades<br><br># Data type(AL);Number of Lines<br><br># | 6         |
| Status line with Trading Date, Currency, Create Time, Creation Date<br><br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br><br>ST;24.02.2010;EUR;12:58:08;23.02.2010   | 1         |
| Price and volume results lines for all contracts with Contract code<br><br><i>PR;[Contract];[DeliveryDate];[DeliveryHours];[OpenPrice];[HighPrice];[LowPrice];[SettlementPrice];[Volume];[NoOfTrades]</i><br><br>PR;H3B4;25.02.10;24;12.85;12.85;12.70;12.90;480;2   | n         |

| Line Description   | Frequency |
|--|-----------|
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;14 | 1         |

Table 42: CSV Line types description of Gas Spot Market Results File (Line description before 2011/05/30)

### Line description after 2011/05/29:

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices and Turnover EEX continuous Gas Spot Market<br>#<br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br># Data type(IL);Delivery Date;Market Area;Daily Reference Price<br># Data type(PR);Commodity ID;Market Area;Delivery Date;Delivery Hours;Open Price;Max Price;Min Price;Last Price;Daily Volume;Number of Trades<br># Data type(AL);Number of Lines<br># | 6         |
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.03.2011;EUR;18:58:08;24.03.2011  | 1         |
| Daily reference prices for the different market areas<br><i>IL;[DeliveryDate];[Market Area];[DailyReferencePrice]</i><br>IL;24.03.11;NCG;21.97  |           |
| Price and volume results lines for all contracts with commodity code and market area<br><i>PR;[Contract];[Market Area];[DeliveryDate];[DeliveryHours];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[Volume];[NoOfTrades]</i><br>PR;GND1;NCG;25.03.11;24;22.30;25.40;21.70;23.45;24;12   | n         |

| Line Description   | Frequency |
|--|-----------|
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;14 | 1         |

Table 43: CSV Line types description of Gas Spot Market Results File (Line description after 2011/05/29)

## 6.6.2. Gas Spot Market Settlement Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Spot Market settlement prices for NCG, GASPOOL, TTF Natural Gas |
| <b>Displayed Period</b>              | One trading day   |
| <b>Contained Data</b>                | Contract's and settlement prices in Euro.                       |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm         |
| <b>Data available since</b>          | 2011/05/30  |

Table 44: Characteristics of Gas Spot Market Settlement Results File

### 6.6.2.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | gscsf_[YYYYMMDD].csv<br>Example: gscsf_20110530.csv  |
| <b>Download Location</b> | FTP: <a href="ftp://infoproducts.eex.com/gas/csv/spot_market/continuous/YYYY/">ftp://infoproducts.eex.com/gas/csv/spot_market/continuous/YYYY/</a> |

Table 45: CSV File details of Gas Spot Market Settlement Results File

| Line Description | Frequency |
|------------------|-----------|
|------------------|-----------|

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Settlement Prices Continuous Gas Spot Market<br>#<br># Data type(ST);Trading Date;Currency;Creation Time<br># Data type(PR);Commodity ID;Market Area;Delivery Date;Delivery Hours;Settlement Price<br># Data type(AL);Number of Lines<br># | 6         |
| Status line with Trading Date, Currency, Create Time<br>ST;[TradingDate];[Currency];[CreationTime]<br>ST;30.05.2011;EUR;18:58:08  | 1         |
| Price and volume results lines for all contracts with commodity code and market area<br>PR;[Contract];[Market Area];[DeliveryDate];[DeliveryHours];[SettlementPrice]<br>PR;GND1;NCG;30.05.11;24;22.30   | n         |
| Number of lines information line giving the total number of line in the CSV file<br>AL;[NumberOfLines]<br>AL;14   | 1         |

Table 46: CSV Line types description of Gas Spot Market Settlement Results File

## 6.7. Natural Gas - Futures

### 6.7.1. Gas Futures Market Results File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Derivatives Market trading results for NCG and GASPOOL Natural Gas Futures |
| <b>Displayed Period</b>              | One trading day.   |
| <b>Contained Data</b>                | Contract's volumes in MWh and price information in Euro.                   |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm                    |

Data available since | 2007/07/02

Table 47: Characteristics of Gas Futures Market Results File

6.7.1.1. CSV

| Criterion         | Description  |
|-------------------|--|
| Filename          | gfmrf_[YYYYMMDD].csv<br>Example: gfmrf_20100301.csv              |
| Download Location | FTP: ftp://infoproducts.eex.com/gas/csv/derivatives_market/YYYY/ |

Table 48: CSV File details of Gas Futures Market Results File

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices/Volumes for EEX Gas Futures<br>#<br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br># Data type(PR);Contract;Delivery Period;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume<br># Data type(OT);Contract;Delivery Period;Contract Volume;Traded Contracts;Volume;No of Trades<br># Data type(AL);Number of Lines<br>#  | 7         |
| Status line with Trading Date, Currency, Create Time, Creation Date<br>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]<br>ST;24.02.2010;EUR;12:58:08;23.02.2010  | 1         |
| Price and volume results lines for all contracts with Contract code, Delivery Period, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume<br>PR;[Contract];[DeliveryPeriod];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]<br>PR;GOBM;Mar10;743;841;624863;12.88;12.95;12.95;12.95;10;7430 | n         |

| Line Description  | Frequency |
|---|-----------|
| OTC results line for all contracts<br><i>OT;[Contract];[DeliveryPeriod];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i><br>OT;G2BQ;Apr10;0;0;0;0 | n         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;277                                       | 1         |

Table 49: CSV Line types description of Gas Futures Market Results File

## 6.8. Emission Rights - Spot - Continuous

### 6.8.1. Emission Spot Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Spot Market trading results for European Emission Allowances            |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in t CO <sub>2</sub> and price information in Euros. |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 05:30pm and 06:30pm                 |
| <b>Data available since</b>          | 2005/03/09  |

Table 50: Characteristics of Emission Spot Market Results File

#### 6.8.1.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | esmrf_[YYYYMMDD].csv<br>Example: esmrf_20100301.csv                     |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/carbon/csv/spot_market/continuous/YYYY/ |

Table 51: CSV File details of Emission Spot Market Results File

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices and Turnover of the EEX EUA Spot Market<br>#<br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br># Data type(PR);ProductID;Intraday Auction Price;Intraday Auction Volume;Settlement Price;Total Volume;OTC Volume;Number of Trades<br># Data type(AL);Number of Lines<br># | 6         |
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.02.2010;EUR;12:58:08;23.02.2010  | 1         |
| Price and volume results lines for all contracts with Contract code, Intraday Auction Price, Intraday Auction Volume, Settlement Price, Total Volume, OTC Volume, Number of Trades<br><i>PR;[Contract];[IntradayAuctionPrice];[IntradayAuctionVolume];[SettlementPrice];[Volume];</i><br><i>[OTCVolume];[NoOfTrades]</i><br>PR;P1E2;12,66;0;12,59;0;0;0           | n         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;277   | 1         |

Table 52: CSV Line types description of Emission Spot Market Results File

## 6.9. Emission Rights - Spot - Auction

### 6.9.1. Emission Spot Auction Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | EUA Primary Auction results for Second Period European Carbon Spot Market |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in EUA and price information in Euro.                  |
| <b>Generation Frequency and Time</b> | On the day of auctions, between 03:15pm and 04:15pm                       |
| <b>Data available since</b>          | 2010/01/05  |

Table 53: Characteristics of Emission Spot Auction Market Results File

#### 6.9.1.1. CSV

| Criterion                | Description  |
|--------------------------|--|
| <b>Filename</b>          | esamrf_[YYYYMMDD].csv<br>Example: esamrf_20100301.csv                |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/carbon/csv/spot_market/auction/YYYY/ |

Table 54: CSV File details of Emission Spot Auction Market Results File

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices and turnover EEX EUA derivatives auction market<br>#<br># Data type(ST);Trading Date;Auction Time;Currency;Creation time;Creation date<br># Data type(PR);Contract;Auction Price;Auction Volume<br># Data type(AL);Number of lines<br># | 6         |

| Line Description  | Frequency |
|---|-----------|
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[AuctionTime];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.02.2010;11:05:03;EUR;12:58:08;23.02.2010 | 1         |
| Price and volume results lines for all contracts with Auction Time, Contract, Auction Price, Auction Volume<br><i>PR;[Contract];[AuctionPrice];[AuctionVolume]</i><br>PR;T2PA;12.81;570000.0            | 1         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;9   | 1         |

Table 55: CSV Line types description of Emission Spot Auction Market Results File

## 6.10. Emission Rights – Futures - Futures

### 6.10.1. Emission Futures Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Derivatives Market trading results for European Carbon and Certified Emission Reduction Futures |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in t CO <sub>2</sub> and price information in Euros.                         |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm   |
| <b>Data available since</b>          | 2005/09/29  |

Table 56: Characteristics of Emission Futures Market Results File

#### 6.10.1.1. CSV

| Criterion | Description |
|-----------|-------------|
|-----------|-------------|

|                          |   |
|--------------------------|---|
| <b>Filename</b>          | efmrf_[YYYYMMDD].csv<br>Example: efmrf_20100301.csv                         |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/carbon/csv/derivatives_market/futures/YYYY/ |

Table 57: CSV File details of Emission Futures Market Results File

| Line Description  | Frequency |
|---|-----------|
| <p>Comment lines describing the file format</p> <p># DD.MM.YYYY : Prices/Volumes for EEX Emission Futures</p> <p>#</p> <p># Data type(ST);Trading Date;Currency;Creation Time;Creation Date</p> <p># Data type(PR);Contract;Delivery Period;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume</p> <p># Data type(OT);Contract;Delivery Period;Contract Volume;Traded Contracts;Volume;No of Trades</p> <p># Data type(AL);Number of Lines</p> <p>#</p> | 7         |
| <p>Status line with Trading Date, Currency, Create Time, Creation Date</p> <p><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i></p> <p>ST;24.02.2010;EUR;12:58:08;23.02.2010</p>   | 1         |
| <p>Price and volume results lines for all contracts with Contract code, Delivery Period, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume</p> <p><i>PR;[Contract];[DeliveryPeriod];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]</i></p> <p>PR;F2EA;Dec10;1000;4823;4823000;12,77;0,00;0,00;0,00;0,00;0,00;0</p>              | n         |
| <p>OTC results line for all contracts</p> <p><i>OT;[Contract];[DeliveryPeriod];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i></p> <p>OT;F2EA;Dec10;0;0;0</p>  | n         |

| Line Description  | Frequency |
|---|-----------|
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br><br>AL;277 | 1         |

Table 58: CSV Line types description of Emission Futures Market Results File

## 6.11. Emission Rights - Futures - Auction

### 6.11.1. Emission Futures Auction Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | EUA Primary Auction results for Second Period European Carbon Futures |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in EUA and price information in Euro.              |
| <b>Generation Frequency and Time</b> | On the day of auctions, between 03:15pm and 04:15pm                   |
| <b>Data available since</b>          | 2010/01/06  |

Table 59: Characteristics of Emission Futures Auction Market Results File

#### 6.11.1.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | efamrf_[YYYYMMDD].csv<br>Example: efamrf_20100301.csv                       |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/carbon/csv/derivatives_market/auction/YYYY/ |

Table 60: CSV File details of Emission Futures Auction Market Results File

| Line Description | Frequency |
|------------------|-----------|
|------------------|-----------|

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br><br># DD.MM.YYYY : Prices and turnover EEX EUA derivatives auction market<br><br>#<br><br># Data type(ST);Trading Date;Currency;Creation time;Creation date<br><br># Data type(PR);Auction Time;Contract;Delivery Period; Auction Price;Auction Volume<br><br># Data type(AL);Number of lines<br><br># | 6         |
| Status line with Trading Date, Currency, Create Time, Creation Date<br><br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br><br>ST;24.02.2010;EUR;12:58:08;23.02.2010   | 1         |
| Price and volume results lines for all contracts with Auction Time, Contract, Delivery Period, Auction Price, Auction Volume<br><br><i>PR;[AuctionTime];[Contract];[DeliveryPeriod];[AuctionPrice];[AuctionVolume]</i><br><br>PR;15:05;F2EA;Dec-2010;12.81;570000  | 1...4     |
| Number of lines information line giving the total number of line in the CSV file<br><br><i>AL;[NumberOfLines]</i><br><br>AL;9  | 1         |

Table 61: CSV Line types description of Emission Futures Auction Market Results File

## 6.12. Emission Rights - Futures - Options

### 6.12.1. Emission Options Market Results File

| Criterion                            | Description  |
|--------------------------------------|--|
| <b>Content</b>                       | Derivatives Market trading results for Second Period European Carbon Options |
| <b>Displayed Period</b>              | One trading day.   |
| <b>Contained Data</b>                | Contract's volumes in EUA and price information in Euro.                     |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm                      |
| <b>Data available since</b>          | 2008/04/14   |

Table 62: Characteristics of Emission Options Market Results File

#### 6.12.1.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | eomrf_[YYYYMMDD].csv<br>Example: eomrf_20100301.csv                         |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/carbon/csv/derivatives_market/options/YYYY/ |

Table 63: CSV File details of Emission Options Market Results File

| Line Description   | Frequency |
|--|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices/Volumes for EEX Emission Options<br>#<br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br># Data type(PR);Contract;Delivery Period;Type;Strike;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume<br># Data type(OT);Contract;Delivery Period;Type;Strike;Contract Volume;Traded Contracts;Volume;No of Trades<br># Data type(AL);Number of Lines<br># | 7         |

| Line Description   | Frequency |
|--|-----------|
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.02.2010;EUR;12:58:08;23.02.2010   | 1         |
| Price and volume results lines for all contracts with Contract code, Delivery Period, Type, Strike, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume<br><i>PR;[Contract];[DeliveryPeriod];[Type];[Strike];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]</i><br>PR;O2PE;Dec10;C;2200;1000;0;0;0,142;0,000;0,000;0,000;0,000;0;0 | n         |
| OTC results line for all contracts<br><i>OT;[Contract];[DeliveryPeriod];[Type];[Strike];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i><br>OT;O2PE;Dec10;C;3300;780;6;4680;1  | n         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;277  | 1         |

Table 64: CSV Line types description of Emission Options Market Results File

## 6.13. Coal - Futures

### 6.13.1. Coal Futures Market Results File

| Criterion                            | Description   |
|--------------------------------------|---|
| <b>Content</b>                       | Derivatives Market trading results for ARA and RB Coal Futures  |
| <b>Displayed Period</b>              | One trading day.  |
| <b>Contained Data</b>                | Contract's volumes in tons and price information in US dollars. |
| <b>Generation Frequency and Time</b> | Every exchange trading day, between 06:00pm and 09:00pm         |
| <b>Data available since</b>          | 2006/05/02  |

Table 65: Characteristics of Coal Futures Market Results File

#### 6.13.1.1. CSV

| Criterion                | Description   |
|--------------------------|---|
| <b>Filename</b>          | cfmrf_[YYYYMMDD].csv<br>Example: cfmrf_20100301.csv                       |
| <b>Download Location</b> | FTP: ftp://infoproducts.eex.com/coal/csv/derivatives_market/futures/YYYY/ |

Table 66: CSV File details of Coal Futures Market Results File

| Line Description  | Frequency |
|---|-----------|
| Comment lines describing the file format<br># DD.MM.YYYY : Prices/Volumes for EEX Coal Futures<br>#<br># Data type(ST);Trading Date;Currency;Creation Time;Creation Date<br># Data type(PR);Product;Delivery Period;Contract Volume;Open Interest;OI Contract Volume;Settlement Price;Open Price;High Price;Low Price;Last Price;Traded Contracts;Volume<br># Data type(OT);Contract;Delivery Period;Contract Volume;Traded Contracts;Volume;No of Trades<br># Data type(AL);Number of Lines<br># | 7         |

| Line Description   | Frequency |
|--|-----------|
| Status line with Trading Date, Currency, Create Time, Creation Date<br><i>ST;[TradingDate];[Currency];[CreationTime];[CreationDate]</i><br>ST;24.02.2010;EUR;12:58:08;23.02.2010   | 1         |
| Price and volume results lines for all contracts with Contract code, Delivery Period, Contract Volume, Open Interest, Open Interest Contract Volume, Settlement Price, Open Price, High Price, Low Price, Last Price, Traded Contracts and Volume<br><i>PR;[Contract];[DeliveryPeriod];[ContractVolume];[OpenInterest];[OIContractVolume];[SettlementPrice];[OpenPrice];[HighPrice];[LowPrice];[LastPrice];[TradedContracts];[Volume]</i><br>PR;FT4M;Mar10;743;38727;28774161;38,97;38,75;39,00;38,75;39,00;723;537189 | n         |
| OTC results line for all contracts<br><i>OT;[Contract];[DeliveryPeriod];[ContractVolume];[TradedContracts];[Volume];[NoOfTrades]</i><br>PR;FT4M;Mar10;743;3071;2281753;42,00;41,50;42,00;41,50;41,75;27;20061  | n         |
| Number of lines information line giving the total number of line in the CSV file<br><i>AL;[NumberOfLines]</i><br>AL;277  | 1         |

Table 67: CSV Line types description of Coal Futures Market Results File

## 7. Example Files

### 7.1. CSV Examples

You can find the CSV example files on the website at <http://www.eex.com/en/Download/Documentation/Information%20Interface> as ZIP file (Market-ResultsCSVExamples\_YYYYMMDD.zip).

| File                            | Format                                       |
|---------------------------------|--|
| CSV/Examples/cfmr_20100105.csv  | Coal Futures Market Results File             |
| CSV/Examples/efamr_20100106.csv | Emission Futures Auction Market Results File |
| CSV/Examples/efmr_20100105.csv  | Emission Futures Market Results File         |
| CSV/Examples/eomr_20100105.csv  | Emission Options Market Results File         |
| CSV/Examples/esamr_20100105.csv | Emission Spot Auction Market Results File    |
| CSV/Examples/esmr_20100105.csv  | Emission Spot Market Results File            |
| CSV/Examples/fmr_20101206.csv   | Power Futures Market Results File            |
| CSV/Examples/gfmr_20100105.csv  | Gas Futures Market Results File              |
| CSV/Examples/gscr_20110504.csv  | Gas Spot Market Results File                 |
| CSV/Examples/gscsf_20110512.csv | Gas Spot Market Settlement Results File      |
| CSV/Examples/omr_20100506.csv   | Power Options Market Results                 |
| CSV/Examples/sar_20100826.csv   | Power Spot Market Auction Results File       |

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