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**EEX Group DataSource
SFTP - User Guide**

09.01.2023
Leipzig

Version 005

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1. Document History

Version	Description	Date	Author
001	initial version	25.6.2021	Hans Niklas Heil, Thomas Haupt
002	Update to whitelisting for IP addresses	17.9.2021	Thomas Haupt
003	Updated information on Archived data under point 5.2.2. Added section 4.6. Introduction and Decommissioning of files	16.11.2021	Thomas Haupt
004	A note to 6.2.4 Gas Spot results: removal of IL lines as of 30 th December 2022	29.12.2022	Daniel Köhler
005	Review	09.01.2023	Daniel Köhler

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2. 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
CER	Certified Emission Reductions
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 Emission Allowances
EUAAs	European Aviation Allowances
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)
p	pence
SFTP	The Secure File Transfer Protocol (also SSH File Transfer Protocol) is a network protocol that provides file access, file transfer, and file management functionalities over any reliable data stream. The EEX FTP (sftp.datasources.eex-group.com) uses the Secure File Transfer Protocol

ST	Short tonnes
thm	Therms
UTC	Coordinated Universal Time, (French Temps universel coordonné)
TradeReg	Service provided by the exchange which enables the trading participants and the trade registration participants to conclude transactions through registration by mutual agreement or to have over-the-counter transactions registered. Products for which trade registration is offered are usually specified in the Contract Specifications of the exchange and in the Trade Registration Contract Specifications.
VTP	Virtual Trading Point
W	The watt (symbol: W) is a derived unit of power in the International System of Units (SI). It measures rate of energy conversion
XLSX	Excel format is the native format of Microsoft Excel. The files of this format usually have xlsx extension
XML	The Extensible Markup Language (XML) is used for the digital storage of structured data

3. Management Overview

To facilitate the energy markets and to support market participants EEX providing EEX Group DataSource, formerly referenced to as Info-Products. The EEX Group DataSource outlines details about day-to-day market data, historical data as well as indices, fundamental supply and demand details of power and natural gas. Subscribers can access electronic data for a variety of products of the spot and derivatives markets (e.g. power, natural gas, environmentals & agricultural). Furthermore, transparency data (i.e. fundamental energy production and consumption) relating to the energy market is published.

In addition to the data freely available at the websites of EEX and EEX Gas, EEX Group DataSource provides its commercial offering of computer readable files in both CSV and XLSX format hosted on an sFTP-server (datasource.eex-group.com). Additionally, transparency data can be obtained in csv file format.

The files are designed for easy processing and can be used by customers for market analysis, pricing and any other analytics. The published CSV files are mainly stored in daily files, which enable electronic platforms to integrate data easily. Excel files mostly provide annual information to give a quick overview and analysis. This document describes the CSV files in detail.

Files are published daily after the market is closed and data is completed. Updates after the initial file creation can happen, if necessary, based on corrections or additional content becoming available after initial creation.

All detailed information about the actual contract specifications can be found at the EEX website under the following location: <https://www.eex.com/en/markets/trading-ressources/contract-details-product-codes>

Data which is licensed for internal purposes can be ordered via the EEX Group online shop.

If you want to publish or redistribute the data as part of your own services to your customers, a Vendor-License is needed. For a Vendor-License please contact us directly at datasource@eex-group.com to discuss your needs and coverage requirements.

In the following chapters the files and their contents will be described. First, all conventions will be defined, hence included data formats are introduced. Later in the document the actual data elements included in each file type are defined.

4. General remarks

This document will provide you with a high-level overview and technical specifications for our sFTP. details on path; files and what information a file contains is not included in this specification. You can find this level of detail in *DataSource sFTP files overview and specification.xlsx* which is available in the same download location as this file.

4.1 Exchange trading days at EEX and EEX Gas

Detailed calendars with all the specific holidays are provided on EEX homepage under <https://www.eex.com/en/markets/trading-ressources/calendar> or under <https://www.eex-group.com/en/markets/trading-calendar> which contains additional information.

All EEX derivatives Products and Emission Spot

Exchange days are all normal working days (Monday to Friday) except for holidays – the general days that will be repeated holidays each year are listed below.

Holidays at EEX
New Year – 1st January
Good Friday
Easter Monday
Labour Day – 1st May
Christmas Eve – 24th December
Christmas Day – 25th December
Boxing Day – 26th December
New Year's Eve – 31st December

Natural Gas data provided via the EEX Gas Platform

Exchange days are all normal working days (Monday to Friday) except for holidays – the general days that will be repeated holidays each year are listed below.

Holidays at EEX Gas (Futures)
New Year – 1st January
Good Friday
Easter Monday

Labour Day – 1st May
Early May Bank Holiday – first Monday of May
Spring Bank Holiday – last Monday of May
Summer Bank Holiday – last Monday of August
Christmas Day – 25th December
Boxing Day – 26th December

Holidays at EEX Gas (SPOT)
New Year – 1st January
Good Friday
Easter Monday
Early May Bank Holiday – first Monday of May
Spring Bank Holiday – last Monday of May
Summer Bank Holiday – last Monday of August
Christmas Day – 25th December
Boxing Day – 26th December

4.2 sFTP server access

You require a dedicated sFTP tool to access the sFTP server like WinSCP (<https://winscp.net/>) or filezilla (<https://filezilla-project.org/>).

For accessing the sFTP server, please use the provided log-in data.

Username (EEX_XXXX) and password were sent to all migrated customers from mis.eex.com in February 2019 and will be sent to new customers within the next 2 working days after placing the order.

- Server: datasource.eex-group.com
- Port: 22
- Username: EEX_XXXX
- Password: password

Important Notice: Please remember to select the encoded protocol “sftp” and to adjust your proxy and firewall settings.

4.3 IP Adresses

The domain `sftp://datasource.eex-group.com` can be routed to IP addresses within following ranges.

- 159.100.199.0/24
- 45.126.246.0/24
- 159.100.207.0/24
- 206.155.48.0/24
- 161.38.176.0/24

Please refrain from using the IP addresses directly. The domain will be routed to one of the IP addresses to balance the load of the servers!

4.4 Creation Time

All files are created within 3 hours after close of trading. For the majority of files this means they are created till 9pm CE(S)T, which is 7pm UTC in summertime and 8pm UTC in wintertime. In case of updates, files can be republished.

4.5 Sample files

Sample files are available under <https://www.eex.com/en/market-data/eex-group-datasource/sftp-server>

4.6 Introduction and Decommissioning of files

After the 1.1.2022 the EEX will not provide csv files for new introduced products and indices. Customer can use the xlsx formatted data and also have the possibility to subscribe to one of our Realtime DataSource products in our [webshop](#).

Any planed changes to our data will be communicated clearly with our DataSource circulars. We recommend to all customers to subscribe to the Circulars through our [webshop](#). The DataSource circulars are available in the news section on our homepage as well. Details on Introduction, Changes or decommissioning of files, or their content, can be found in *DataSource sFTP files overview and specification.xlsx* which is available in the same download location as this file.

4.7 Good to know

- Publish unadjusted Open interest. No open interest is generated if there are 2 Trade registration trades which appear in case of 2 customers under one Broker/NCM swap their positions. Trades and volume under the trades are published but there is no open interest generated. Examples can be found in *PowerFutureHistory_JP_Tokyo_2021.xlsx* for FOBM on the 2.2.2021.

Trading Day	EEX Japan Tokyo Power Base Month Future										
	Instruments				Settlement				Trade Registration		
	Product	Maturity	Delivery Start	Delivery End	Lot Size	Settlement Price	Open Interest Volume	Open Interest Lots	Traded Lots	Traded Volume	Number of Trades
2021-02-04	FOBM	2021-02	2021-02-01	2021-02-28	672 MWh	9,85 JPY/kWh	48,384 MWh	72			
2021-02-04	FOBM	2021-03	2021-03-01	2021-03-31	744 MWh	7,95 JPY/kWh	17,112 MWh	23			
2021-02-04	FOBM	2021-04	2021-04-01	2021-04-30	720 MWh	6,61 JPY/kWh					
2021-02-04	FOBM	2021-05	2021-05-01	2021-05-31	744 MWh	6,61 JPY/kWh					
2021-02-04	FOBM	2021-06	2021-06-01	2021-06-30	720 MWh	7,13 JPY/kWh					
2021-02-04	FOBM	2021-07	2021-07-01	2021-07-31	744 MWh	8,91 JPY/kWh					
2021-02-04	FOBM	2021-08	2021-08-01	2021-08-31	744 MWh	9,35 JPY/kWh					
2021-02-03	FOBM	2021-02	2021-02-01	2021-02-28	672 MWh	10,25 JPY/kWh	48,384 MWh	72			
2021-02-03	FOBM	2021-03	2021-03-01	2021-03-31	744 MWh	8,15 JPY/kWh	17,112 MWh	23			
2021-02-03	FOBM	2021-04	2021-04-01	2021-04-30	720 MWh	6,97 JPY/kWh					
2021-02-03	FOBM	2021-05	2021-05-01	2021-05-31	744 MWh	6,97 JPY/kWh					
2021-02-03	FOBM	2021-06	2021-06-01	2021-06-30	720 MWh	7,45 JPY/kWh					
2021-02-03	FOBM	2021-07	2021-07-01	2021-07-31	744 MWh	8,76 JPY/kWh					
2021-02-03	FOBM	2021-08	2021-08-01	2021-08-31	744 MWh	9,19 JPY/kWh					
2021-02-02	FOBM	2021-02	2021-02-01	2021-02-28	672 MWh	10,25 JPY/kWh	48,384 MWh	72	2	1,344 MWh	1
2021-02-02	FOBM	2021-03	2021-03-01	2021-03-31	744 MWh	8,15 JPY/kWh	17,112 MWh	23			
2021-02-02	FOBM	2021-04	2021-04-01	2021-04-30	720 MWh	6,69 JPY/kWh					
2021-02-02	FOBM	2021-05	2021-05-01	2021-05-31	744 MWh	6,69 JPY/kWh					
2021-02-02	FOBM	2021-06	2021-06-01	2021-06-30	720 MWh	7,17 JPY/kWh					
2021-02-02	FOBM	2021-07	2021-07-01	2021-07-31	744 MWh	8,76 JPY/kWh					
2021-02-02	FOBM	2021-08	2021-08-01	2021-08-31	744 MWh	9,19 JPY/kWh					
2021-02-01	FOBM	2021-02	2021-02-01	2021-02-28	672 MWh	9,50 JPY/kWh	48,384 MWh	72			
2021-02-01	FOBM	2021-03	2021-03-01	2021-03-31	744 MWh	8,50 JPY/kWh	17,112 MWh	23			
2021-02-01	FOBM	2021-04	2021-04-01	2021-04-30	720 MWh	6,96 JPY/kWh					
2021-02-01	FOBM	2021-05	2021-05-01	2021-05-31	744 MWh	6,96 JPY/kWh					
2021-02-01	FOBM	2021-06	2021-06-01	2021-06-30	720 MWh	7,87 JPY/kWh					

- Negative settlement prices are not displayed (Power Futures only); field will be left blank.
- Monthly Power Futures-> last day of the month is at least 2 days after the last business day (trading day) the last settlement price will be amended on the next business day
- Trade cancellations and amendments are taken into account if done on the same trading day Trade cancellations and amendments are not taken into account if done at any other date than the trading date.
- Short term derivatives (Days, Weeks and Weekends) that expire the month after the last trading day (e.g. DB32 – German Day Future), are shown with the maturity of the delivery month (e.g. 2019-06 for the June contract) instead of the maturity of the expiry month (e.g. 2019-07) as is it intended and set up in the trading system.
- In case just spread trade trades per contract took place on a trading day, the field “Timestamp Last Price” will be entered without having the according price and without the further three time stamps and prices.
- So called dummy values are settlement prices that are calculated for technical reason but are not meant to be published. These values of 0,01 and 0,001 are filtered out and won't be included in the file. Currently, all settlement prices with such values are filtered out – in rare cases even correctly settled prices at 0,01 or 0,001 – the field will be left blank.
- Fields Open, High, Low, Last in Future Result files do not take legs of spread trades into account.
- Spread Trades are not available. Currently we are unable to match the legs of spread trades. The only way to match them at the moment is via trade time stamp. This has the risk that we show a trade as a spread which is actually 2 individual trades that are performed at the same time.

5. Definitions

In the following chapter all needed definitions will be made. In a first step all conventions will be defined and in a second step all elements.

5.1 Definition of Used Data Types

The following table shows the used formats.

Type	Description
<date>	Date format – information of a point in time Please refer to ISO 8601 for a detailed description of the format used in XML. In CSV files, the following format is used: YYYY-MM-DD Examples: 2009-11-17
<datetime>	Date and time format – information of a point in time Please note that all points in time are in local time CE(S)T. Please refer to ISO 8601 for a detailed description of the format used. Example: 2018-08-01T16:53:45
<integer>	The range of all natural numbers including the zero
<float>	Floating-point number – all floating-point numbers will have a fraction with a denominator of ten. Example: 1400.4
<string>	Alphanumeric string – used for text information Example: Off-Peak
<period>	A format like YYYY-MM that denotes the maturity of a contract – not a native data type, but a construct/format

5.2 Definition of Data Fields

The following table will define all used fields.

Fieldname	Description	Format	Example
Auction Name	Name of the auction	<string>	EU
Auction Price	Price result of the auction	<float>	12,36
Auction Time	Time of the day the auction was held	<time>	15:05:00
Auction Volume	Volume auctioned	<integer>	735450
Average Price	Average hour price of a delivery day	<float>	34,15

Fieldname	Description	Format	Example
Code	Code of the product (Detailed information may be found in the contract detail file)	<string>	O1BM
Lot Size	Volume traded for the contract in the product's commodity unit	<integer>	18100
Country Revenue	Revenue per country of the auction	<integer>	AT:318600
Cover Ratio	Cover ratio of the auction	<float>	3,46
Daily Reference Price	Daily reference price	<float>	22,90
Delivery Date	Day of delivery of the traded commodity	<date>	2010-03-01
Delivery End	Delivery end date of a contract	<date>	2014-03-01
Delivery Period	Delivery period of a future contract	<period>	2010-01
Delivery Start	Delivery start date of a contract	<date>	2014-03-01
Execution	Status of the execution of the block bids.	<string>	Y
Front Contract	Front contract of the index (YYYY-MM)	<period>	2017-08
Hour	Specific Hour	<string>	04-05
High Price	Highest prices of the trading day	<real>	128,91
Index	Specific Index ELIX, EGIX, ECarbix, monthly Index, APDD	<string>	
Index Type	Indicates if it is the arithmetic average price of all daily values for a given front month contract or the daily index (day or month)	<date>	
Last Price	Price of the last trade on the trading day	<real>	45,95
Limit Price	Limit price for the block bid.	<real>	22,27
Long Name	Plain text of the product code	<string>	Phelix-DE Base Month Future
Low Price	Lowest price of the trading day	<real>	12,07
Market Area	Name of the market area (Detailed information may be found in the contract specification).	<string>	CH
Maturity	Maturity of the contracts/products (Displays Month in which the delivery starts.)	<period>	2017-04
Maximum Bid	Maximum bid of the auction	<float>	6,00
Mean Price	Mean price of the auction	<float>	5,54

Fieldname	Description	Format	Example
Median Price	Median price of the auction	<float>	5,54
Minimum Bid	Minimum bid of the auction	<float>	5,54
Number of Trades	Total number of trades per trading day	<integer>	25
Number of Lines	The number of lines a file has in total.	<integer>	135
Open Interest Contracts	Open Interest as number of contracts	<integer>	234568
Open Interest Lots	Open Interest as number of contracts/lots (Number of traded lots). The number is a value of the previous day until the 23.09.11.2019. From the 23.09.11.2019 onwards the open interest reflects the current day value.	<integer>	234568
Open Interest Volume	Open Interest lots multiplied by lot size.	<integer>	234568
Open Price	Price of the first trade at an exchange market or the first registered traded price within business hours of ECC for trade registration (OTC).	<float>	42,67
Price (Index)	Market based reference price. The price is calculated	<float>	42,38
Product	Code of the product	<string>	O1BM
Settlement Price	A settlement price is determined for each individual contract which can be traded continuously or Trade Registration on EEX Power Derivatives and on the EEX Derivatives and Spot Markets every day.	<float>	42,67
Standard Deviation of Bid Volume Per Bidder	The standard deviation of bid volume per bidder	<integer>	15
Strike	Strike price of the option	<float>	45,5
Traded Lots	Number of traded contracts/lots	<integer>	58
Trade Date	Date of Trading	<date>	2014-09-20
Traded Volume	Traded Contracts multiplied by contract volume	<integer>	4200
Timestamp High Price	Timestamp of trade with the highest price of the day	<date><time>	2017-06-14T13:45:00

Fieldname	Description	Format	Example
Timestamp Low Price	Timestamp of trade with the lowest price of the day	<date><time>	2017-06-14T11:45:00
Timestamp Last Price	Timestamp of last trade of trading day	<date><time>	2017-06-14T16:45:00
Timestamp Open Price	Timestamp of first trade at an exchange market or the first registered traded price within business hours of EEC for trade reg. (OTC)	<date><time>	2017-06-14T10:45:00
Total Amount of Bids	Total amount of bids of the auction	<integer>	8174000.00
Total Number of Bids	Total number of bidders of the auction	<integer>	16
Total Number of Successful Bidders	Number of successful bidders of the auction	<integer>	12
Total Revenue	Total revenue of the auction	<float>	11050700
Type	Type of the option: call (C) or put (P)	<string>	C
Underlying	Underlying contract of the product (Detailed information may be found in the contract specification)	<string>	F1BQ
Volume	Volume traded for the contract	<integer>	537189

5.3 Notes on Data

Data publication acts according following guidelines:

The instruments for days, weeks and months are published throughout the time of delivery.
For days of a weekend, weeks and weekends the instruments are additionally published the next working day after delivery.
Quarters, seasons and years are not published throughout delivery.

5.4 Archived Data

All data published prior to 2019 can be found under the 'Archive' folders. This archived data does not match the files and specifications outlined in this documentation but instead follow former specifications relevant to these files.

Please note that the data in the Archive folders represents the complete available history. If data is not available in this Archive folders the data is not available, and it is also not possible to fill possible data gaps that occurred in the past.

6. CSV files

6.1 Definitions and General File Design

This document deals with the CSV file formatted information service. All lines are terminated with a carriage return <CR> and a line feed <LF>. The files can be viewed by using any text editor.

All lines start with a *line identifier* that specifies the type of data that follows. The lines are consisting of a number of *fields* (One field or several fields?) 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 described as a list of fields in the order they are presented in the file:

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

6.2 File Layouts

6.2.1 General Remarks

This chapter provides the CSV templates that are used for several commodities. For example, futures are generally the same in terms of the information clients need to be able to process the data correctly. For this reason, they share a similar “template” in terms of the file format. So below are the lists of file formats that are used to provide data.

The first line of each file is the description line that is unique per file. Example: # Prices/Volumes of EEX Power Future Market Austria.

Each of the possible layouts is described below in the respective chapters 5.2 to 5.16.

6.2.2 Futures Results

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes of EEX Power Future Market Germany # # Data type(ST);Trading Date;Creation Time # Data type(PR);Product;Long Name;Maturity;Delivery Start;Delivery End;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Settlement Price;Unit of Prices;Lot Size;Traded Lots;Number of Trades;Traded Volume;Open Interest Lots;Open Interest Volume;Unit of Volumes # Data type(OT);Product;Long Name;Maturity;Delivery Start;Delivery End;Lot Size;Traded Lots;Number of Trades;Traded Volume;Unit of Volumes # Data type(AL);Number of Lines #	7

Line Description	Frequency
Status line with Trading Date, Creation Time <i>ST;Trading Date;Creation Time</i> ST;2019-02-01;2019-02-04T01:23:08Z	1
Price and volume results lines for all contracts <i>PR;Product;Long Name;Maturity;Delivery Start;Delivery End;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Settlement Price;Unit of Prices;Lot Size;Traded Lots;Number of Trades;Traded Volume;Open Interest Lots;Open Interest Volume;Unit of Volumes</i> PR;DEB2;Phelix-DE Base Week Future;2019-02;2019-02-04;2019-02-10;52,5;2019-02-01T08:26:33Z;52,5;2019-02-01T08:26:33Z;51,25;2019-02-01T12:50:16Z;51,75;2019-02-01T15:16:57Z;51,63;EUR/MWh;168;135;7;22680;2561;430248;MWh	1-n
Trade Registration results line for all contracts <i>OT;Product;Unit;Delivery Period;Delivery Start;Delivery End;Contract Volume;Traded Volume;Traded Contracts;Number of Trades</i> OT;DB02;Phelix-DE Base Day Future short-term;2019-02;2019-02-02;2019-02-02;24;325;13;7800;MWh	1-n
Total number of lines containing information in the CSV file <i>AL;Number of Lines</i> AL;277	1

6.2.3 Option Results

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes of EEX Power Option Market France # # Data type(ST);Trading Date;Creation Time # Data type(PR);Product;Long Name;Underlying;Maturity;Delivery Start;Delivery End;Type;Strike;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Settlement Price;Unit of Prices;Lot Size;Traded Lots;Number of Trades;Traded Volume;Open Interest Lots;Open Interest Volume;Unit of Volumes # Data type(OT);Product;Long Name;Underlying;Maturity;Delivery Start;Delivery End;Type;Strike;Lot Size;Traded Lots;Number of Trades;Traded Volume # Data type(AL);Number of Lines #	7
Status line with Trading Date, Creation Time <i>ST;Trading Date;Creation Time</i> ST;2019-01-21;2019-01-21T18:36:26Z	1
Price and volume results lines for all contracts <i>PR; Product;Long Name;Underlying;Maturity;Delivery Start;Delivery End;Type;Strike;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Settlement Price;Unit of Prices;Lot Size;Traded Lots;Number of Trades;Traded Volume;Open Interest Lots;Open Interest Volume;Unit of Volumes</i> PR;O7BM;French Base Month Option;F7BM;2019-02;2019-02-01;2019-02-28;C;66;;;;;;;;;;4,213;EUR/MWh;672;;;;;;;;;MWh	1-n
OTC results line for all contracts <i>OT;Product;Long Name;Underlying;Maturity;Delivery Start;Delivery End;Type;Strike;Lot Size;Traded Lots;Number of Trades;Traded Volume</i> OT;O7BM;French Base Month Option;F7BM;2019-04;2019-04-01;2019-04-30;P;53,5;720;;;;;;;;;MWh	1-n
Total number of lines containing information in the CSV file <i>AL;Number of Lines</i> AL;277	1

6.2.4 Gas Spot Market Results

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes of PEGAS Spot Market GASPOOL # # Data type(ST);Trading Date;Creation Time # Data type(PR);Market Area;Product;Long Name;Delivery Start;Delivery End;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Unit of Prices;Number of Trades;Traded Lots;Traded Volume;Unit of Volumes # Data type(SP);Market Area;Long Name;Delivery Start;Delivery End;Settlement Price;Unit of Prices # Data type(IL);Market Area;Long Name;Delivery Start;Delivery End;Settlement Price;Unit of Prices # Data type(AL);Number of Lines #	7
Status line with Trading Date, Creation Time ST; Trading Date;Creation Time ST;2019-05-13;2019-05-14T01:15:12Z	1
Results line for EGSI Index IL;Market Area;Market Area;Long Name;Delivery Start;Delivery End;Settlement Price;Unit of Prices IL;GPL;EGSI;2019-05-14T04:00:00Z;2019-05-15T03:59:59Z;14,339;EUR/MWh	1-n
Results line for Settlement Price products Market Area;Long Name;Delivery Start;Delivery End;Settlement Price;Unit of Prices SP;GPL;DAY 1 MW;2019-05-14T04:00:00Z;2019-05-15T03:59:59Z;14,387;EUR/MWh	1-n
Results line for trade data Market Area;Product;Long Name;Delivery Start;Delivery End;Open Price;Timestamp Open Price;High Price;Timestamp High Price;Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Unit of Prices;Number of Trades;Traded Lots;Traded Volume;Unit of Volumes PR;GPL;GWID;WITHIN-DAY;2019-05-13T13:00:00Z;2019-05-14T03:59:59Z;14,525;2019-05- 13T09:23:05Z;14,7;2019-05-13T09:36:10Z;14,525;2019-05-13T09:23:05Z;14,525;2019-05- 13T09:52:04Z;EUR/MWh;8;534;8010;MWh	1-n
Total number of lines containing information in the CSV file AL;Number of Lines AL;16	1

Please note: from 30th December 2022 onwards the “IL” lines (Results line for EGSI Index) will be removed from the file.

6.2.5 Emission Primary Auction Results

Line Description	Frequency
<p>Comment lines describing the file format</p> <p># Prices/Volumes of EEX Emission Primary Market Auction</p> <p>#</p> <p># Data type(ST);Auction Date;Creation Time</p> <p># Data type(PR);Time;Auction Name;Contract;Status;Auction Clearing Price;Minimum Bid;Maximum Bid;Mean;Median;Unit Of Prices;Auction Volume;Total Volume Of Bids Submitted;Number Of Bids Submitted;Number Of Successful Bids;Average Number Of Bids Per Bidder;Average Bid Size;Average Volume Bid Per Bidder;Standard Deviation Of Bid Volume Per Bidder;Average Volume Won Per Bidder;Standard Deviation Of Volume Won Per Bidder;Cover Ratio;Total Number Of Bidders;Number Of Successful Bidders;Total Revenue</p> <p># Data type (CR);Time;Auction Name;Austria (AT);Belgium (BE);Bulgaria (BG);Cyprus (CY);Czech Republic (CZ);Germany (DE);Denmark (DK);Estonia (EE);Greece (EL);Spain (ES);Finland (FI);France (FR);Croatia (HR);Hungary (HU);Ireland (IE); Innovation Fund (IF);Italy (IT);Lithuania (LT);Luxembourg (LU);Latvia (LV); Modernization Fund (MF); Malta (MT); Netherlands (NL); Poland (PL);Portugal (PT); Romania (RO); Sweden (SE); Slovenia (SI); Slovakia (SK)</p> <p># Data type(AL);Number of Lines</p> <p>#</p>	7
<p>Status line with Publishing Date, Creation Time</p> <p><i>ST;Auction Date;Creation Time</i></p> <p><i>ST;2017-06-14;2017-06-14T19:45:00Z</i></p>	1
<p>Results line for Emission products</p> <p><i>PR;Time;Auction Name;Contract;Status;Auction Clearing Price;Minimum Bid;Maximum Bid;Mean;Median;Unit Of Prices;Auction Volume;Total Volume Of Bids Submitted;Number Of Bids Submitted;Number Of Successful Bids;Average Number Of Bids Per Bidder;Average Bid Size;Average Volume Bid Per Bidder;Standard Deviation Of Bid Volume Per Bidder;Average Volume Won Per Bidder;Standard Deviation Of Volume Won Per Bidder;Cover Ratio;Total Number Of Bidders;Number Of Successful Bidders;Total Revenue</i></p> <p><i>PR;2019-05-13T07:00:19Z;EU;T3PA;Successful;25,25;13,5;31;24,97;25,19;EUR/tCO2;2495000;4412500;86;36;3,74;51308;191848;232370;146765;182599;1,77;23;17;6299875019943820</i></p>	1-n
<p>Results line for Country products</p> <p><i>CR;Time;Auction Name;Austria (AT);Belgium (BE);Bulgaria (BG);Cyprus (CY);Czech Republic (CZ);Germany (DE);Denmark (DK);Estonia (EE);Greece (EL);Spain (ES);Finland (FI);France (FR);Croatia (HR);Hungary (HU);Ireland (IE);Italy (IT);Lithuania (LT);Luxembourg (LU);Latvia (LV);Malta (MT);Netherlands (NL);Poland (PL);Portugal (PT);Romania (RO);Sweden (SE);Slovenia (SI);Slovakia (SK)</i></p>	1-n

Line Description	Frequency
CR;09:00:00;19900000;486720;884520;800280;37440;1226160;435240;241020;1207440; 3009240;582660;1909440;163800;524160;327600;3360240;191880;42120;93600;35100; 1170000;613080 ;1600560;308880;154440;538200	
Total number of lines containing information in the CSV file <i>AL; Number of Lines</i> AL;12	1

6.2.6 Emission Spot Secondary Market Results

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes of EEX Emission Secondary Spot Market # # Data type(ST);Trading Date;Creation Time # Data type(PR);Market Area;Product; Maturity; Long Name;Open Price;Timestamp Open Price;High Price;Timestamp High Price; Low Price;Timestamp Low Price;Last Price;Timestamp Last Price;Settlement Price;Unit of Prices;Lot Size;Traded Lots;Number of Trades;Traded Volume;Unit of Volumes # Data type(OT);Market Area;Product; Maturity; Long Name; Number of Trades;Traded Volume;Lot Size;Traded Lots;Unit of Volumes # Data type(AL);Number of Lines #	7
Status line with Publishing Date, Creation Time <i>ST; Trading Date; Creation Time</i> ST;2017-06-14;2017-06-14T19:45:00Z	1
Results line for Secondary Emission products <i>PR; Market Area; Product; Long Name; Open Price; Timestamp Open Price; High Price; Time Stamp High Price; Low Price; Timestamp Low Price; Last Price; Timestamp Last Price; Settlement Price; Unit Of Prices; Lot Size; Traded Lots; Number Of Trades; Traded Volume; Unit Of Volumes</i> PR;EU;EAAC;EU Aviation Allowance;5,19;2017-06-14T10:45:00Z;5,25; 2017-06-14T13:45:00Z;5,17;2017-06-14T11:45:00Z;5,17;2017-06-14T16:45:00Z;5,13; EUR/tCO2;5;50;tCO2	
OTC results line for Secondary Emission products	1-n

Line Description	Frequency
<i>OT; Market Area; Product; Long Name; Number Of Trades; Traded Volume; Lot Size; Traded Lots; Unit Of Volumes</i> OT; EU;EUSP;EU Emission Allowance;0;0;0;0;tCO2	
Total number of lines containing information in the CSV file <i>AL; Number Of Lines</i> AL; 11	1
Total number of lines containing information in the CSV file <i>AL; Number Of Lines</i> AL;19	

6.2.7 Agricultural Index Results

Line Description	Frequency
Comment lines describing the file format # Prices for Skimmed Milk Powder Index # # Data type(ST); Publishing Date; Creation Time # Data type(IL); Reference Week; Index; Price; Unit # Data type(AL);Number of Lines #	7
Status line with Publishing Date, Creation Time ST; Publishing Date; Creation Time ST;2015-12-16;2015-12-16T13:10:18Z	1
Results line for Agricultural products IL; Reference Week; Index; Price; Unit IL;Week 51/15;IADS;1673;EUR/t	1-n
Total number of lines containing information in the CSV file AL;Number Of Lines AL;12	1

6.2.8 ECarbix Results

ECarbix is an emission spot market index

Line Description	Frequency
Comment lines describing the file format # ECarbix Prices/Volumes for Emission Spot Market # # Data type(ST);Trading Date;Creation Time # Data type(ID);Index Type;Price;Unit of Prices;Traded Volume;Unit of Volumes # Data type(AL);Number of Lines #	7
Status line with Publishing Date, Creation Time <i>ST; Trading Date; Creation Time</i> ST;2017-06-14;2017-06-14T19:45:00Z	1
Results line for Ecarbix products <i>ID; Index Type; Price; Unit of Prices; Traded Volume; Unit of Volumes</i> IL;Day;5,16;EUR/tCO2;4505000;tCO2	1-n
Total number of lines containing information in the CSV file <i>AL; Number of Lines</i> AL;2	1

6.2.9 EGIX Results

EGIX is a natural gas future market index

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes for EGIX # # Data type (ST);Trading Date;Creation Time # Data type (ID);Index Type;Market Area;Front Contract;Price;Unit of Prices # Data type (AL);Number of Lines #	7
Status line with Publishing Date, Creation Time <i>ST; Trading Date; Creation Time</i> ST;2018-03-21;2018-03-21T12:34:41Z	1
Results line for EGIX products	1-n

Line Description	Frequency
<i>ID; Index; Area; Unit; Front; Contract; Price; Traded Volume</i> ID;Day;DE;2017-08;15.374;EUR/MWh;0;MWh	
Total number of lines containing information in the CSV file <i>AL; Number of Lines</i> AL;21	1

6.2.10 KWK Index Results

KWK Index is a power spot market index

Line Description	Frequency
Comment lines describing the file format # Prices and Volumes of European Gas Index # # Data type(ST); Creation Time # Data type(IL);Index Type; Period; Price; Unit of Prices # Data type(AL);Number of Lines #	7
Status line with Publishing Date, Creation Time <i>ST; Creation Time</i> ST;2017-06-14T19:45:00Z	1
Results line for KWK products <i>IL; Index Type; Period; Price; Unit Of Prices</i> ID;Index Type;Period;Price;Unit of Prices	1-n
Total number of lines containing information in the CSV file <i>AL; Number Of Lines</i> AL;9	1

6.2.11 APDD Results

Average Price of Delivery Day (APDD) is a natural gas spot market index

Line Description	Frequency
Comment lines describing the file format # Prices/Volumes of PEGAS Average Price of Delivery Day GASPOOL # # Data type(ST);Delivery Day;Creation Time	7

Line Description	Frequency
# Data type(IL);Market Area;Timestamp;Marginal Buy Price;Marginal Sell Price;Weighted Average Price;Unit of Price;Volume # Data type(AL);Number of Lines #	
Status line with Publishing Date, Creation Time <i>ST; Delivery Day; Creation Time</i> ST; 2018-07-23;2018-07-23T13:21:08Z	1
Results line for PEGASI products <i>IL; Market Area; Timestamp; Marginal Buy Price; Marginal Sell Price; Weighted Average Price; Unit Of Price; Volume</i> IL;GPL;2018-07-20T01:55:02Z;22,336;EUR/MWh;250848	1-n
Total number of lines containing information in the CSV file <i>AL; Number Of Lines</i> AL;284	1

7. XLSX

7.1 General Remarks

This chapter provides a brief overview over the XLSX files. You will find a detailed specification in *DataSource sFTP files overview and specification.xlsx* which is available in the same download location as this file.

The XLSX files are considered history files which contain not only a single trading day, but a history of several trading days combined.

XLSX files for

- Options display a period of 1 calendar month
- Agricultural indices display the complete history of the index
- All other products display a period of one calendar year at a maximum.

The XLSX files are all build in a similar way and follow a common template for Futures and Options:

- First tab: contains an overview on all traded products in the open market
- Second tab: contains an overview on all traded products in the OTC (trade registration) market.
- Each additional tab provides detailed information for each instrument.

Other files have individual templates and details can be viewed under *DataSource sFTP files overview and specification.xlsx*.