



Local Expertise in Global Commodity Markets

Markets & Services 2019

› eex group

EEX Group provides ...

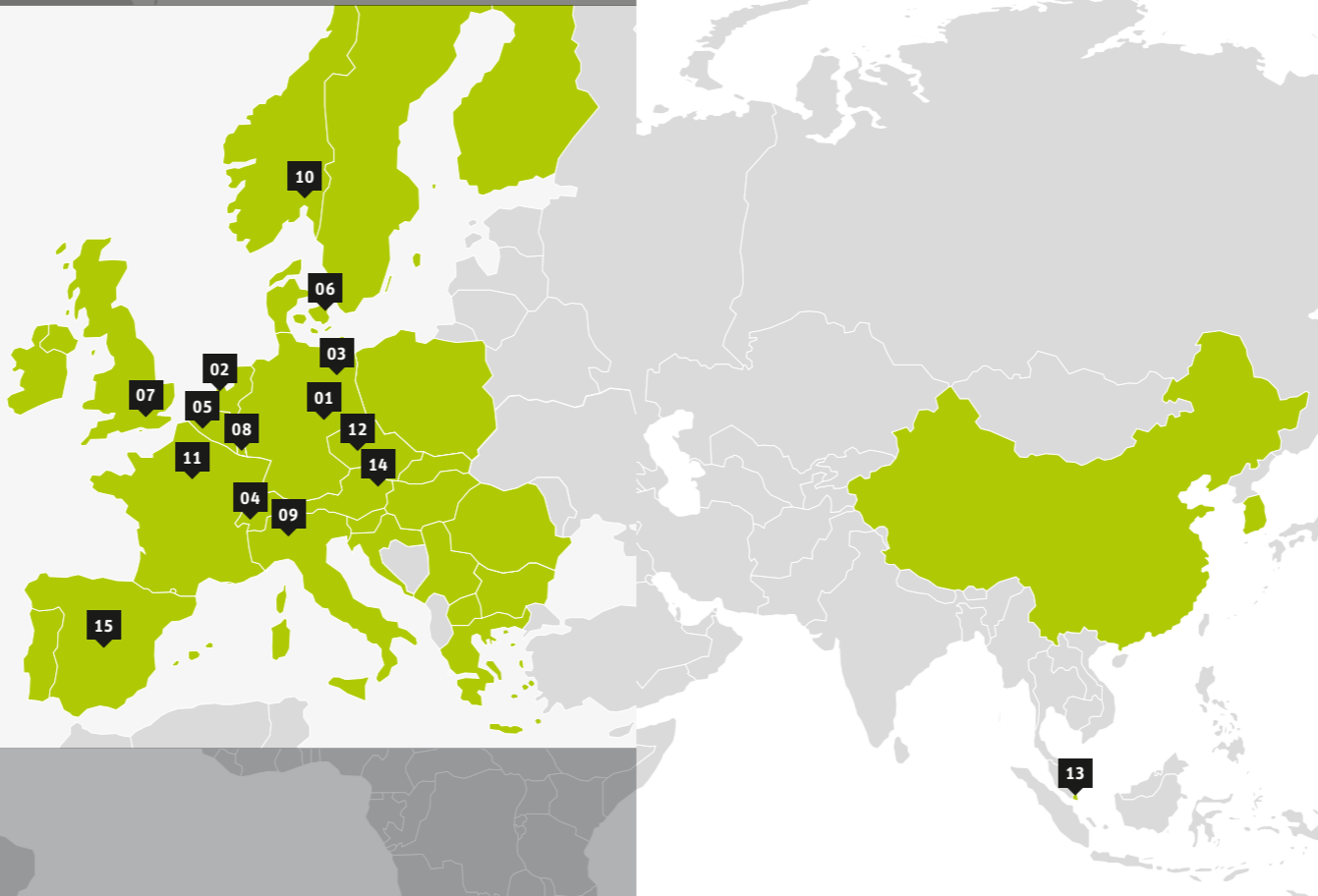
- › Exchange trading and Trade Registration services on a regulated and transparent market.
- › Access to trading in various market areas as well as products and services along the value chain.
- › A broad and diversified network of global trading participants.
- › Reduction of counterparty risk through clearing and settlement of transactions.
- › Market access via various front-ends and major Independent Software Vendor solutions.
- › Optimal support for customers on-site through 16 locations worldwide.

More information: www.eex-group.com

EEX Group provides market platforms and clearing houses for energy and commodity products across the globe.



Local Expertise in Global Commodity Markets



A customer-centric approach

EEX Group provides local expertise
and fosters close customer contact
with 16 offices worldwide.

EEX Group Offices

- 01 Leipzig
- 02 Amsterdam
- 03 Berlin
- 04 Bern
- 05 Brussels
- 06 Copenhagen
- 07 London
- 08 Luxembourg
- 09 Milan
- 10 Oslo
- 11 Paris
- 12 Prague
- 13 Singapore
- 14 Vienna
- 15 Madrid
- 16 Washington D.C.

International Network

EEX Group connects over 600 participants
from 36 countries.

Product Portfolio

Power

EEX is the leading exchange platform in the European power market and as EEX Group (in conjunction with Nodal Exchange and EPEX SPOT), recorded the largest power trading volume worldwide in 2018.

The power spot market for Austria, Belgium, France, Germany, Great Britain, Luxembourg, the Netherlands and Switzerland is operated by EPEX SPOT. Power products which are settled on the same day (Intraday) or on the following day (Day-ahead) can be traded. The offer is supplemented by Trade Registration services.

On the power derivatives market of EEX, financial and physical futures on power can be traded for 17 European power markets across Europe. At EEX, traders have access to the most liquid financial power future contract in Europe – the Phelix-DE Future.

In the US power market, Nodal Exchange offers over 1,000 contracts across hundreds of unique locations, providing the world's largest set of electric power locational (nodal) futures contracts.

Natural Gas

The natural gas spot and derivatives markets of EEX Group are operated by Powernext under the "PEGAS" brand. The trading platform covers spot and derivatives market products for 12 gas hubs in 9 European countries. In addition, trading in location and time spreads is offered. Additionally, Nodal Exchange offers a Henry Hub natural gas contract.

In 2019, financially-settled LNG contracts will be introduced on the PEGAS platform.

Environmental Markets

EEX is the only exchange in Europe experienced in regular and large-scale primary market auctions for emission allowances on the spot market.

In cooperation with IncubEx, EEX runs a secondary market for continuous trading of EU ETS allowances (EUA, EUAA) and Kyoto credits (CER).

Nodal Exchange launched North American Environmental contracts to meet the growing need for this market. The offering includes emissions and renewable contracts.

Global Commodities

EEX Group launched the Global Commodities business to support and enable customers to trade and clear a broader portfolio of products from a global perspective via both EEX and our Singaporean arm, EEX Asia. The Group's offering comprises contracts on freight, fuel oil, iron ore and wood pellets.

Agricultural Products

The agricultural offering comprises financially settled derivatives contracts on dairy products (butter, skimmed milk powder, whey powder and liquid milk) and European processing potatoes. These products are available for order book trading and trade registration.

Clearing Services

Secured clearing and settlement of all transactions is provided by EEX Group's clearing houses; European Commodity Clearing (ECC) and Nodal Clear in the US.

Our clearing houses also assume clearing as well as physical and financial settlement of transactions concluded and registered for clearing on all partner exchanges.

Registry Services

Powernext offers registry solutions for Guarantees of Origin in France, as well as Capacity Guarantees for the French TSO RTE and the Energy Savings Certificate mechanism.

In 2018, EEX announced the 100% acquisition of Grexel Systems Oy, the leading energy certificate registry provider in Europe. The company currently operates 15 energy certificate registries in Europe.

Market Data Services

Market data services offer fast and robust data directly from the source via API, Desktop App, Excel Tools and SFTP.

EEX Group DataSource services provide access to data for all tradable commodities of the EEX Group exchanges, as well as transparency data.

European Commodity Clearing is the central clearing house for energy and related products in Europe.

- > Clearing assures the fulfilment of each contract concluded or registered on the exchanges, providing security for the customers.
- > Managing risk is an essential function of ECC, a central counterparty (CCP) licensed under strict European financial market regulations for CCPs ('EMIR').
- > In addition, ECC holds the status as a Recognised Clearing House (RCH) in Singapore, regulated by the Monetary Authority of Singapore (MAS).

3,923.5^{TWh}

electric power volume cleared by ECC in 2018



Clearing & Settlement Services

Physical settlement (delivery)

Financial settlement (payment)

Risk management services

Straight-Through Processing

Reporting services

> ecc

ECC – Clear Benefits

- > ECC has a unique level of expertise in the physical settlement of grid-bound energy (power & natural gas) and energy related products (emission allowances).
- > Customers benefit from cross-margining effects across different partner exchanges and commodities.
- > In addition to clearing for exchange transactions, ECC offers Straight-Through Processing (STP) services for Trade Registration.

www.ecc.de

> nodalclear

Nodal Clear is the US clearing house of EEX Group.

- > Serves as central counterparty for all Nodal Exchange transactions.
- > Nodal Clear is a derivatives clearing organisation (DCO) regulated by the US Commodity Futures Trading Commission (CFTC).
- > Employs a tailored portfolio margining methodology that appropriately margins contracts and provides superior capital efficiencies.
- > Currently accepts cash and letters of credit in US Dollars (USD) as market collateral.
- > Straight-Through Processing (STP) service for Trade Registration.

www.nodalexchange.com/nodal-clear

1,038.6^{TWh}

electric power volume cleared by Nodal Clear in 2018

How to become a trading participant?

- ✓ **Admission by the respective exchange**
- ✓ **Recognition by the clearing house**
- ✓ **Technical connection**

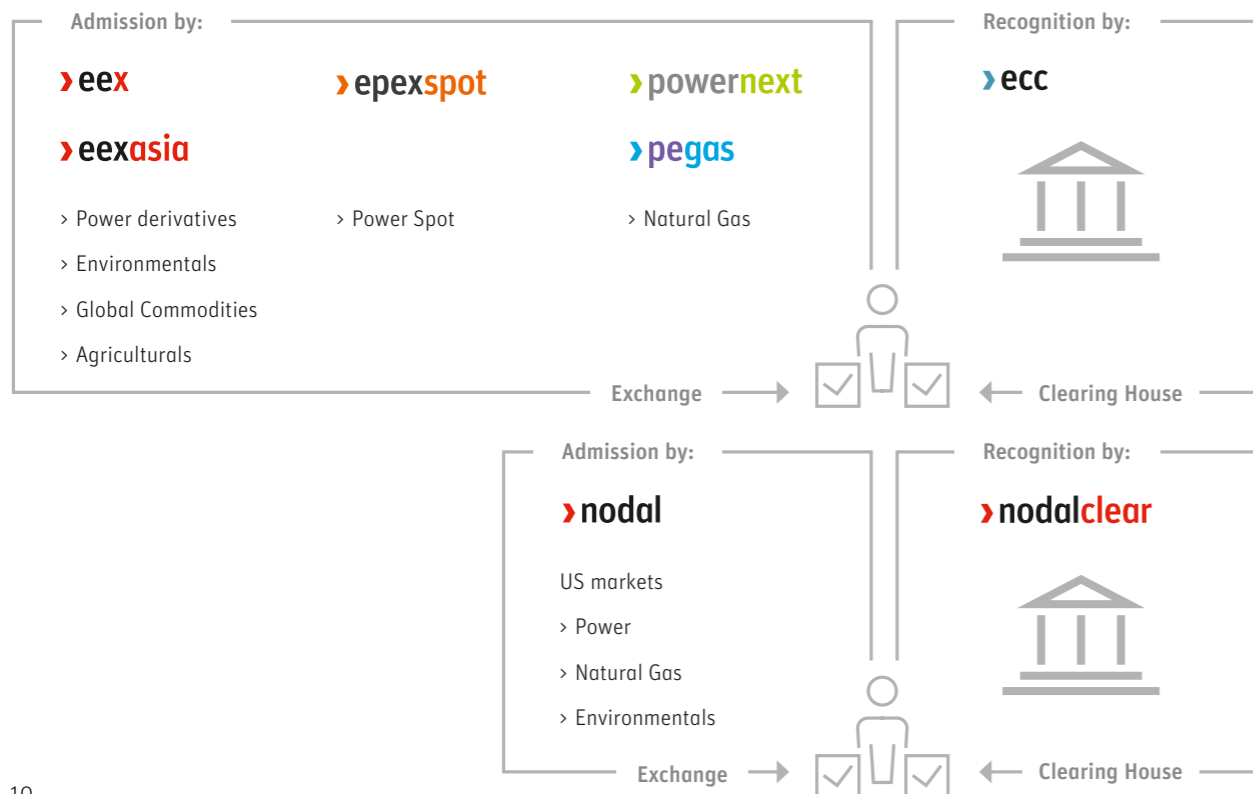
In order to trade on EEX Group markets, companies need to pass the admission process at the respective exchange.

Proper settlement and collateralisation of transactions require the recognition by the respective clearing house.



E-Learning

EEX Group exchanges offer various training courses which are available through high quality media.



Technical access to trading at EEX Group

Available trading and clearing front-ends:

- > Eurex Clearing GUI
- > Eurex T7 GUI
- > EEX TT Screen
- > M7 Auction
- > Trayport Joule Front End
- > EPEX SPOT Trader Client
- > Gas Direct Screen
- > Nodal LiveTrade
- > Nodal T7 Trading Platform (powered by CQG)
- > ISV (third-party front-ends)

EEX Group provides multiple connectivity options to access its markets via a number of front-ends. Each access type is designed for simplicity and compatibility with the Trayport systems or in-house solutions. Depending on the individual requirements, customers can select the right solution from various front-end alternatives. Connection is possible via VPN, internet or leased line according to individual requirements.

Market Data Services

EEX Group DataSource is the high-speed connection to EEX Group market data and to transparency data for the energy market.



Regulatory Services

Our reporting services offer EEX Group customers a single point of contact for collecting, submitting and monitoring trading data across different regulations.

We support customers in fulfilling MiFID II/MiFIR, EMIR, REMIT, EU Transparency Regulation and MAR reporting obligations.

Our Services

- > Market data for Power, Natural Gas, Environmental Markets, Agricultural Markets, Global Commodities.
- > EEX transparency data cover the markets for Power, Natural Gas, Environmental Products and Renewables.
- > Additional services are offered, such as ad-hoc messages.
- > Customised indices & settlement prices.
- > Various connectivity alternatives are available providing real-time, delayed and end-of-day data.
- > State-of-the-art API, Desktop App, Excel Tools and SFTP.

Our services are
easy to use
and available
24/7.

Facility and Business Inside Information

The EEX Transparency Platform is an effective solution for the timely disclosure and forwarding of inside information for all market participants.

The EEX Transparency Platform is the central platform which fulfills disclosure obligations as required by REMIT, MAR and EU Transparency, across various commodities in Europe.

www.eex-transparency.com

Reporting Services

- > REMIT transaction reporting for trading participants (EEX, EPEX SPOT, Powernext).
- > EMIR trade reporting for clearing and non-clearing members.
- > MiFID II/MiFIR Position and Transaction Reporting.

www.eex.com > **Regulatory Reporting Services**

Interested in power spot market data?

Subscribe at EPEX SPOT:

www.epexspot.com > **Market Data > Purchase Market Data Products**

Subscribe to EEX Group DataSource!

Receive access to robust market and transparency data:

www.eex.com > **Shop**



EEX Group operates exchange markets and supports anonymous and fully electronic trading, providing first level support to trading participants.

Market Operation Services are the heart of exchange trading.

The Market Operation departments of EEX Group are the heart of the exchanges. They operate the platforms on which trading participants can buy and sell energy and commodity products. The Market Operation teams are the first point of contact for all questions relating to day-to-day business, products and trading systems. The mission is to ensure fair market prices and to prevent wrong market signals.

Commodities

Power

- > Intraday
- > the Netherlands
- > Market
- > Market
- > Tender
- > Future
- > Great Britain
- > Trade
- > New in
- > Deriva
- > ERCOT
- > Option
- > "Energy"

4,962 TWh

traded on the EEX Group power markets in 2018

Natural Gas

- > Spot
- > France
- > Austria
- > Deriva
- > Henry

Key partner for Day-Ahead market coupling of

20

power spot markets

Environmental

- > Spot
- > (EU E)
- > Spot p
- > US env
- > and S

1,963 TWh

traded on the PEGAS natural gas markets in 2018

60,251

contracts traded in agricultural commodities in 2018

Global

- > Future
- > Future
- > Future
- > Future

More than 600

Trading participants from 36 countries

More than 200

Emissions Auctions (EUA + EUAA) in 2018

Agriculture

- > Future
- > Future

Commodity Products for Trading and Clearing

Power

- > Intraday and Day-ahead products for Austria, Belgium, France, Germany, Great Britain, Luxembourg, the Netherlands and Switzerland.
- > Market coupling services to Transmission System Operators.
- > Market operation services to power exchanges (HUPX, SEEPEX and SEMOpx).
- > Tender services in the Czech Republic.
- > Futures and trade registration services for Germany, Austria, France, Italy, Spain, the Netherlands, Belgium, Switzerland, Great Britain, the Nordics, Poland, the Czech Republic, Slovakia, Hungary and Romania.
- > Trade registration services for Greek power.
- > New in 2019: Futures and trade registration services for Bulgaria, Serbia and Slovenia, as well as order book trading for Greece.
- > Derivatives products in North America including on-peak and off-peak power for locations within ISO-NE, NYISO, PJM, MISO, ERCOT, SPP and CAISO as well as Mid-C.
- > Options for Germany, Austria, France, Italy and Spain, as well as options for selected power locations in North America.
- > “Energiewende” products: Intraday Cap Futures and Wind Power Futures.

Natural Gas

- > Spot and derivatives products as well as trade registration services for Germany (GASPOOL, NCG market areas), France (PEG Nord, TRS), the Netherlands (TTF), Belgium (ZTP, ZEE), Great Britain (NBP), Denmark (ETF), Austria (CEGH) and the Czech Republic (CEGH CZ).
- > Derivatives products and trade registration services for Italy (PSV).
- > Henry Hub Natural Gas.

Environmental Markets

- > Spot and derivatives products for secondary trading in emission allowances (EU Emission Allowances – EUA; EU Aviation Allowances – EUAA; Certified Emission Reductions – CER).
- > Spot primary market auctions for Emission Allowances (EUA, EUAA) for 27 EU member states.
- > US environmental products: Futures and Options for Carbon Emission Allowances, Renewable Energy Certificates and SO₂/NO_x emission allowances.

Global Commodities

- > Futures and Options on freight rates.
- > Futures on fuel oil.
- > Futures and Options on iron ore.
- > Futures on wood pellets.

Agricultural Products

- > Futures on butter, skimmed milk powder, whey powder and liquid milk (exchange trading and trade registration).
- > Futures on European processing potatoes (exchange trading and trade registration).



We ensure on-site
customer support across
all our offices.

Imprint

Published by:
European Energy Exchange AG
Augustusplatz 9
04109 Leipzig, Germany

Photography:
Jürgen Jeibmann Photographik

As of January 2019

EEX Group provides market platforms for energy and commodity products across the globe. The offering of the group comprises contracts for Energy, Environmentals, Freight, Metals and Agriculturals.

With high specialisation and local presence in their core markets, the companies of EEX Group answer the needs of their customers, providing tailor-made solutions and easy market access. The synergetic, integrated group portfolio is completed by two clearing houses (ECC & Nodal Clear) which ensure proper clearing and settlement of trading transactions.

www.eex-group.com

EEX Group is part of Deutsche Börse Group.



EEX Group provides market platforms and clearing houses for energy and commodity products across the globe.

› eex group

› eex

› ecc

› epexspot

› powernext

› pegas

› pxe

› nodal

› nodalclear

› eexasia