

The Physical and Financial Power Markets

Virtual Classroom by
ACADEMY

9 and 10 November 2022

Powered by

**NORD
POOL**



EURONEXT

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Academy

At Academy we aim at sharing **capital markets expertise** by turning it into world-class training courses and programmes covering every aspect of **financial markets**.

Key assets of our learning centre are our centrality in capital markets, and our **internal and external faculty**, made up of practitioners, academics, advisors and financial market specialists.

As an Exchange system, being at the centre of financial markets, we understand not just what happens now, but also what's changing - so we can design our courses to equip you for the world of today and tomorrow.

Management System Certificate

Academy Campus has met the management system standards UNI EN ISO 9001:2015, sector EA:37 since 2007.

The accreditation guarantees internationally recognised quality service standards and allows companies to apply for public funding to finance individual and company training projects.





Course Programme

Course background

Overview

The course is an introduction to Europe's leading short- and long-term power markets and also a good refresher, covering all major recent changes to the energy markets and potential future developments. Held in English, the course will unravel the complexity of the power market, whether you are a trader, investor or working in the back or front office.

Who should attend

Who participates

The training programme is addressed to:

- traders
- investors
- back office professionals
- front office professionals
- law makers and energy regulators
- students.

Faculty

Faculty

"The Physical and Financial Power Markets" sees **experts** from **Nord Pool, Statnett, AFRY, World Kinect Energy Services, Nord Pool Consulting** and **Montel** providing valuable insights and answers to the participants' questions. There will, as always, also be a guest presenter of a hot topic.

Organisational delivery details

Logistics

The course will be held in **English** and will be streamed in front of a live audience but with active interaction with all participants. If possible, participants will be admitted to attend physically at the Nord Pool's venue in Oslo.

Both days will be available online, streamed live from a venue in Oslo. A **live chat** is available, and the questions will be ready out loud to the energy experts during the presentations. Online material and tests will be available for all and distributed prior to the live streaming takes place; also other



interactive tools will be available, and all who have registered will receive all information needed to get access.

Please make sure you have **good internet connection**.

Nord Pool Digital Diploma: Test of knowledge

One week prior to the live-streamed presentations, all participants will get access to the online material which include acronyms and introductions to some of the basic concepts. Video recordings of previous hot topics are also included. The online material serves as a useful source of information about the finer details in the power markets, and also as an online test of knowledge. Pass the test and you will be rewarded with a **Digital Diploma**.

Agenda

Day 1: 9 November 2022

The physical power market 8:30 – 16:00 CET

08:30
Please log on

09:00
The Nord Pool power market model
The basics about the energy markets and its importance.
Development of the world's first international energy market.

Haakon Reiersen Leknes – Director
Nord Pool Academy

10:15
The role of the Transmission System Operator (TSO)
The TSOs' responsibilities, regulation and reserve markets.

Hans Bøhle Aarhus
Statnett - Norwegian TSO

11:00
European day-ahead markets SDAC part 1
The integration of Europe's power markets with one algorithm, Euphemia.

Detailing European day-ahead markets: PCR, MRC, SDAC (Elspot), system price, bidding areas, price areas, transmission allocation, transparency, market data, simple and advanced models and much more.

Hilde Rosenblad, Senior Adviser Public & Regulatory Affairs and previous head of Nord Pool Nordic and Baltic Operation
Nord Pool

12:00
An open challenge:

Guess a relevant day-ahead price ie System price (SYS) or specific area price before CET 12:42 using Mentimeter. You can ask absolutely anybody for help in guessing, or use online sources such as Nord Pool Power Data.

12:30-13:30 | Lunch

13:30
European day-ahead markets SDAC part 2

Euphemia: Trading day-ahead across Europe with new products and handling of transmission capacity.

Hilde Rosenblad, Senior Adviser Public & Regulatory Affairs and previous head of Nord Pool Nordic and Baltic Operation
Nord Pool

14:15
Granular certificates

A new marketplace guaranteeing that the origin of 24/7 carbon-free production will fulfil the 24/7 demand.

Camilla Vedeler, Business Analyst
Nord Pool

Coffee break

14:40

European intraday market: the road to XBID and onwards to SIDC

Intraday trading close to delivery across Europe is rising due to increased VRE power production and demand response.

Martin Hergot Festøy, *Service owner XBID and Trading Advisor*

Nord Pool

15:15

Automated trades in the power market

With the help of API, there has been a rise of automated trades and it has an impact on the market.

Oscar Egnell, *Technical Account Manager*

Nord Pool

15:40

Kahoot! Fun recap from day 1

Haakon Reiersen Leknes, *Director*

Nord Pool Academy

16.00

End of day 1

Day 2: 10 November 2022

Financial and regulatory aspects of the power market

8:30 – 16:00 CET

08:30

Welcome to Day 2

Haakon Reiersen Leknes – *Director*
Nord Pool Academy

08:35

Recent updates from the European energy markets and the global drivers

Main price drivers, financial market, physical market, TSOs, new technology, politics on a national, regional, European and global level – and the different effects Covid-19 has had on the energy markets

Richard Sverrisson, *Editor in Chief*,
Montel and Morten Hegna Manager at Montel

9.15

Market Surveillance at Nord Pool

Introduction to REMIT, the role of Market Surveillance, national regulators and ACER and inside information versus transparency information. Introduction to Urgent Market Messages (UMM) system

Peder Grimstad Helset and **Ieva Linkeviciute**, *Market Surveillance Analysts*
Nord Pool

Coffee break

10:15

Risk management, clearing and settlement

The role of the central counterpart, clearing and settlement at Nord Pool.

Risk management at Nord Pool

Robert O'Doherty, *Senior Trading Adviser Nord Pool and Lars Rokkones*

Trading Adviser Nord Pool

10:55

Financial power market: Hedging power prices

Introduction to the financial market.

Standardised products including trading of EPAD.

Clearing and settlement for trades and clearing of OTC trades.

Sandro Olivieri, *Trading adviser*

Nord Pool

Charles Lapierre, *Key account Manager Central Europe*, Nord Pool, previous Trading Adviser at both Nord Pool and NASDAQ

12:10

A more complicated open challenge: The spread between Nordic (SYS) and German power tomorrow AKA The Einar Aas Bet before CET 12:42 using Mentimeter

12:30-13:30 | Lunch

13:30

Green finance: Voluntary and mandatory markets

Covering the major green markets and products, ranging from the world's largest carbon market (EU ETS), guarantees of origin (GO) and carbon offsets to feed in tariffs.

Trine Braathen, *Business Developer Environmental Markets*, World Kinect Energy Services

Coffee break

14:00

Corporate PPAs (Power Purchase Agreements)

Introduction to types of PPA, how to set up a corporate PPA and the risks involved with PPA.

Sergiu Maznic, *AFRY Management Consulting*

14:30

Hot topic: yet to be decided

15:15

Kahoot! and a brief summary of the two days

Haakon Reiersen Leknes – *Director Nord Pool Academy*

16:00 | End of course

Terms and conditions

The registration form is a legally binding agreement between Bit Market Services and the applicant (or the company the applicant works for) and is defined by the following conditions:

Virtual classroom schedule

9 and 10 November 2022

08:30 – 16:00 CET (both days)

Registration

The applicant can submit the registration form, duly filled out, to Academy 7 days prior to the course date via:

- **EMAIL** academy@euronext.com
- **WEB** [Academy website](#)

To register after this date, please contact the following phone number:

- **TEL +39 02 72426 086**

Participation will be confirmed in writing by the Academy administration.

Registration fee

The individual registration fee to the course is € 1,500 (+ VAT if applicable). The fee includes all presentations, online material and test.

If you choose to attend only one of the two days, the fee is EUR 1000.

Discounts

Multiple registrations - Discounts are available for multiple registrations of the same company. In particular:

- 25% discount to Nord Pool, Statnett, Montel, AFRY, World Kinect Energy Services and guest presenters' customers/members.
- Three or more participants: 10% discount on the total amount

Payment method

Fees must be paid:

- Upon receipt of the email from Academy confirming the applicant's registration (sent approximately 7 days prior to the course date)

or

- Upon receipt of the invoice from Bit Market Services S.p.A. (Academy is part of the Bit Market Services Company)

Payment must be made via **BANK TRANSFER** to:

BIT MARKET SERVICES S.p.A.

P.zza degli Affari, 6
20123 Milano

Tax code 06695270964

VAT number 10977060960

Deutsche Bank S.p.A.

Filiale via San Prospero, 2

20121 Milano

codice IBAN:

IT 22 B 03104 01600 000000 770114

SWIFT address DEUTITMMIL

Copy of the effected bank transfer must be emailed to Academy academy@euronext.com.

Invoice marked as paid will be mailed to the addresses indicated on the wire transfer.

Intellectual property rights

The Client acknowledges and agrees that the contents made available during the training (including, but not limited to, videos, pictures and texts) are property of Bit Market Services or are supplied by Bit Market Services in virtue of certain contractual arrangements with third parties and cannot be reproduced, distributed or used for

business purposes without the prior written consent of BIt Market Services or the entity having the relevant rights on the same.

Liability

Whilst every effort is made by BIt Market Services to ensure that the contents of the training (including, but not limited to, videos, pictures and texts) are accurate and up to date, BIt Market Services shall not be liable whatsoever for any inaccuracy or misleading information, nor for any consequential damage or expense or any loss of profit or any liability to third parties incurred as a result of reliance on such information, which is provided for educational purpose only. BIt Market Services total liability under this agreement shall be limited to the maximum amount represented by the Fees paid to the latter by the Client.

Traceability of financial flows

BIt Market Services and the Client assume all obligations regarding the traceability of the financial flows provided by Law 136/2010, as subsequently amended and implemented (the "Traceability Obligations").

In relation to the payments to be made pursuant to the present Contract, the Client, if it is a public contractor pursuant to decree law 163/2006 (Code of public contracts for works, services and supplies), to ensure the enforcement of Law 136/2010 and subsequent amendments, undertakes to communicate to BIt Market Services, by the form attached to the Contract, the identification bidding code (CIG) and, in case, the unique code of project (CUP).

In particular, in fulfilling the Traceability Obligations, BIt Market Services will communicate to the Client:

- (i) the bank accounts details to be used, also nonexclusively, for the payments to be made by the Client pursuant to the present Contract;
- (ii) the personal details and the fiscal code of the persons delegated to operate on them, indicating the relevant role and powers, within 7 (seven) days from the creation of the accounts above (or, in case of existing accounts, within 7 (seven) days from their first use in relation to the payments made by the Client).
- (iii) Any possible amendment of the information indicated in points (i) and (ii) above, will have to be

communicated by the Client within 7 (seven) days from occurrence.

Let it be understood that, save for possible derogations and partial exemptions to Law 136/2010, failure to use instruments suitable to permit the full traceability of the financial flows (for instance, bank or post transfer) and the failure to comply with any other Traceability Obligations, are ground to terminate the present Contract.

BIt Market Services undertakes, in particular, to inform the Client and the Prefecture (territorial office of the Government of the province where the Client has its registered office) if it becomes aware of breaches by its contractual counterparties, if any, in relation to the Traceability Obligations.

Cancellation Policy

According to article 1373 C.C., to withdraw from this contract applicants must send a written notice via email to academy@euronext.com:

- The fee will be fully refundable up to 7 working days prior to course date.
- A 50% refund will be provided for cancellations made during the 6 days leading to the course,
- Fees are non refundable for cancellations made 1 day prior to the course date.

Substitution of attendee (from the same company) may be made at any time.

Academy accepts requests to replace the course with another Academy course. The rescheduled training must take place within 12 months.

Changes to the program

BIt Market Services reserves the right to postpone or cancel the course and notify the participant via fax or email at least 1 week before the course date; in this case, the participant is entitled only to a full refund of the course fee. In addition, BIt Market Services is entitled to make changes to the programme and seat of the training and/or substitute the expected panellists with others with equal skills and competence.

Governing law and jurisdiction

The present agreement shall be governed by Italian law. The parties assign to the Court of Milan the exclusive

jurisdiction over any dispute arising out of the present agreement, this including – but not limited to – any

proceedings regarding the validity, the construction, the performance and/ or the termination of the agreement

Booking form

Please read the terms and conditions on the preceding page.

Fill out the form and send email to academy@euronext.com.

For further information +39 02 72426086 – academy@euronext.com

The physical and financial power markets

Online virtual classroom, 9 and 10 November 2022

COURSE FEE

Individual		<input type="checkbox"/> € 1,500 (+VAT if applicable)
Individual (only one day)		<input type="checkbox"/> € 1,000 (+VAT if applicable)
Nord Pool members*	25% discount	<input type="checkbox"/> € 1,125 (+VAT if applicable)
3 or more Participants	10% discount	<input type="checkbox"/> € (+VAT if applicable)

* Nord Pool, Statnett, Montel, AFRY, World Kinect Energy Services and guest presenters' customers/members

PARTICIPANT INFORMATION

Name and Surname

Jop title

Company

Email

Phone

Job Field			Knowledge level of the subject	
<input type="checkbox"/> General Management	<input type="checkbox"/> ICT	<input type="checkbox"/> Tax	<input type="checkbox"/> Basic	
<input type="checkbox"/> HR, Organisation and Development	<input type="checkbox"/> Legal	<input type="checkbox"/> Finance	<input type="checkbox"/> Intermediate	
<input type="checkbox"/> Administration and Control	<input type="checkbox"/> R&D	<input type="checkbox"/> Risk Management	<input type="checkbox"/> Advanced	
Nature of business				
<input type="checkbox"/> Listed/unlisted company	<input type="checkbox"/> Bank	<input type="checkbox"/> Advisory	<input type="checkbox"/> Energy	
<input type="checkbox"/> Lawyer	<input type="checkbox"/> Investment Bank	<input type="checkbox"/> Private Equity	<input type="checkbox"/> Funds	
Company Address				
Street	N.	Zip code	City	Country

BILLING INFORMATION

The invoice must be addressed to:

Company name/Participant name and surname

VAT number

Department

Billing reference name

Street

N.

Zip code

City

Country

Phone

Email

ELECTRONIC INVOICE (IF APPLICABLE)

According to the Italian Law no. 205 of 27.12.2017 and to Provision no. 89757 of 30.4.2018 of the Italian TAX Authority and subsequent amendment and/or integrations, the Client duly holder of an Italian VAT code/Tax identification code) provides with:

Certified Email Address (PEC):

Or Recipient Code:

In order to receive the electronic invoice through the Italian Exchange System (SDI) according to the above information

Phone

Email

SPLIT PAYMENT (IF APPLICABLE)

According to the art. 17-ter of the Italian D.P.R. no. 633/72 (as subsequently amended and implemented), the Client (duly holder of an Italian VAT code/Tax identification code) declares that:

is subject to the "Split Payment" VAT regime is not subject to the "Split Payment" VAT regime

and undertakes to communicate any change of such regime.

PRIVACY

By signing this booking form I declare that I have read the informative document regarding the processing of personal data on the Bit Market Services S.p.A.'s website (<http://www.borsaitaliana.it/varie/privacy-bims/privacy-bims.en.htm>) and I accept the General Terms and Conditions of the service.

In addition to the declaration above, by ticking the relevant box I also inform that (*please tick the chosen box*):

I DO

I DO NOT

authorize Bit Market Services S.p.A. to gather and to process my personal data for the purpose of "direct marketing", by sending advertising material, direct sales and promotion of products and services of Bit Market Services S.p.A., carrying out market research, marketing communications, also using data subject's name for publicity carried out through automated means of contact such as e-mail, fax messages, mms or sms.

I DO

I DO NOT

authorize the communication/the transfer of the personal data for the purposes of direct marketing by third parties - even outside the European Community - included the other companies of the Euronext Group, as well as third parties referred to in point c) of the informative document regarding the processing of personal data (<http://www.borsaitaliana.it/varie/privacy-bims/privacy-bims.en.htm>).

Signature and company seal

Date:

Academy

Comprehensive, quality education is fundamental for the development and growth of the economy. As part of a leading exchange system at the centre of European capital markets, Academy's main objective and activity is turning capital markets expertise into world-class training courses and programmes and making them relevant to the wider financial community of today and of tomorrow. Key Academy assets are our centrality in capital markets, and our internal and external faculty, made up of practitioners, academics, advisors and financial market specialists. Interactive and innovative learning methods make all Academy programmes an inspiring experience.

CONTACTS

academy@euronext.com
+39 02 72426 086



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