

Welcome to Nord Pool Spot

The largest market for electrical energy in the world

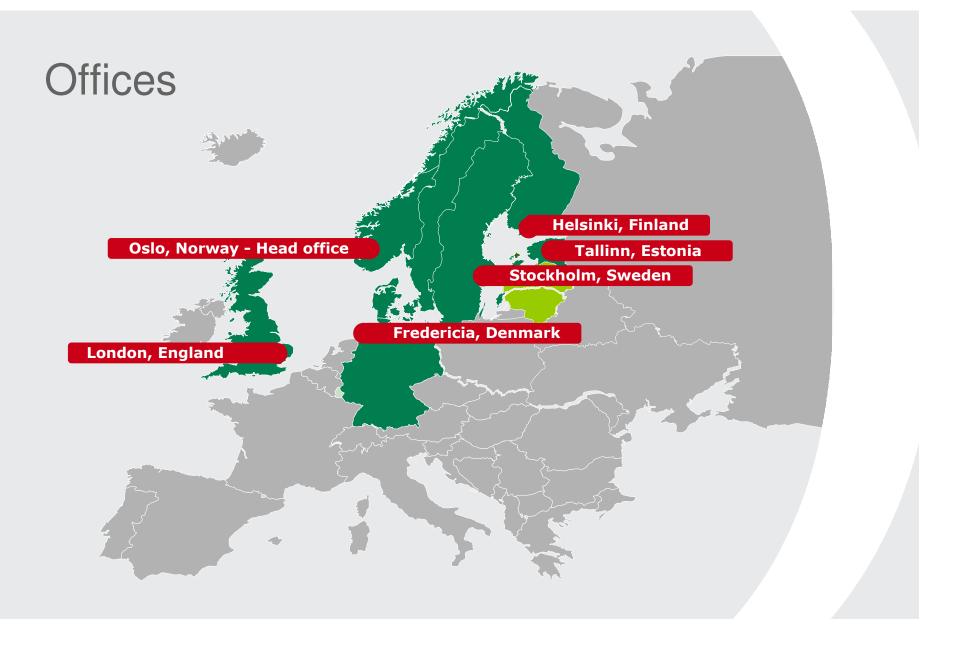


Our function?

- Provide a liquid market for electrical energy
- Provide information to the market
- Provide equal opportunities for all participants
- The central counter party in all trades guaranteeing settlement for trade







Our vision and mission

Vision: Nord Pool Spot will be the leading European exchange for electrical energy

Mission: We add value to our customers by providing price transparency and quoting reliable prices





Our business goals

- Nord Pool Spot will drive the development and integration of the European energy markets
- Nord Pool Spot will have profitable growth
- Nord Pool Spot will provide the preferred market place for customers in Europe
- Nord Pool Spot will be an efficient and customer driven organisation
- Nord Pool Spot will be a European organisation with high competence and strong team spirit





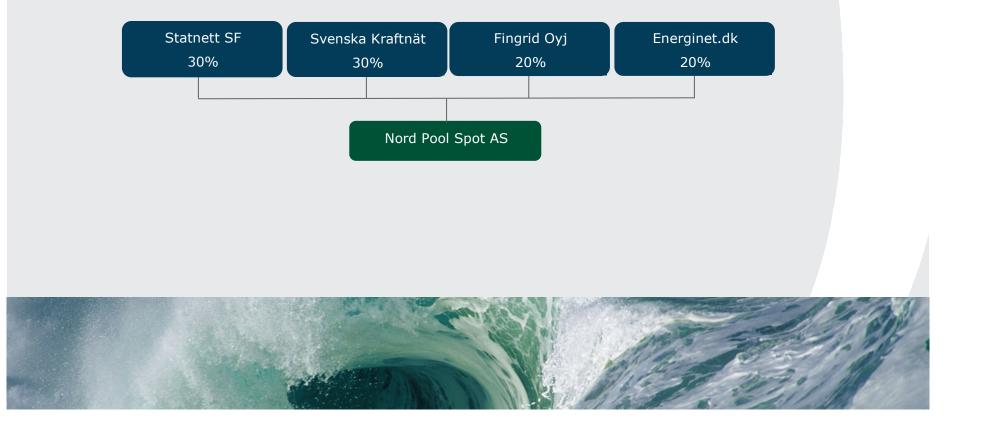
History

- **1991:** The Norwegian electricity market is deregulated
- 1993: Statnett Marked is established
- **1996:** A joint Norwegian-Swedish exchange is established and renamed to Nord Pool
- 1998: Finland joins the Nordic exchange
- **2000:** The Nordic market becomes fully integrated as Denmark joins the exchange
- 2002: Nord Pool Spot is established as a separate company
- 2005: Nord Pool Spot opens the Kontek bidding area in Germany
- 2009: Market coupling NPS and EPEX through EMCC launched.
- **2010:** Nord Pool Spot and NASDAQ OMX Commodities launch the UK market N2EX. Nord Pool Spot opens a bidding area in Estonia and delivers the technical solution for a new Lithuanian market place



Ownership

We are owned by the Nordic transmission system operators.



NORD POOL SPOT AS

Power exchange concept

Elspot-market

Auction - supply and demand cross. Mechanism for handling of constraints

Elbas-market

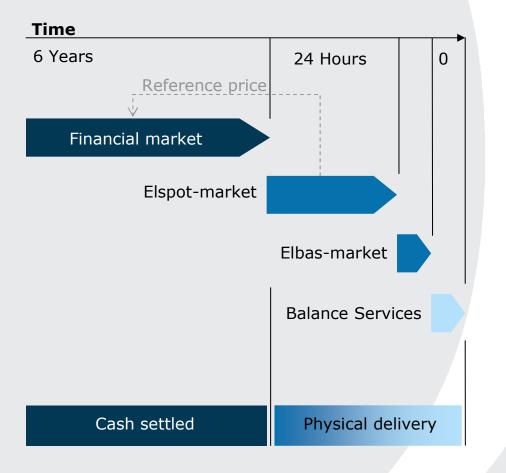
Continuous hourly market for balance adjustment

Balance services

Operated by transmission system operators

Financial market

Cash settled futures, forwards and options. Clearing services



Elspot

- The spot market for electrical energy and the cornerstone of Nordic trading
- Auction-based market for trading of electrical energy for delivery the next day
- Covers Norway, Sweden, Finland, Denmark and Estonia.
- 72 per cent of the total consumption of electrical energy in the Nordic countries is traded on the Elspot-market



Elbas

- Serves as an adjustment market for Finland, Sweden, Denmark, Norway and Germany
- Continuous intraday market for electrical energy where one-hour contracts are traded until one hour prior to delivery





Nord Pool Spot Electrical energy markets

ELSPOT Overview

- Product: Hourly contracts, physical delivery.
- Delivery period: All 24 hours through the next day (12-36 hours ahead in time).
- Type of trading: Auction trading. Accumulated bids and offers that form equilibrium point prices via an Implicit Auction that also reflects usage of a available transmission capacities between bidding areas.
- Trading days: All days through the year.
- Bidding: Bids and offers in standard exchange format (internet, EDIEL).
- Trade currencies: Euro, NOK, SEK, DKK.
- Price calculation: 1200 am every day.

ELBAS Overview

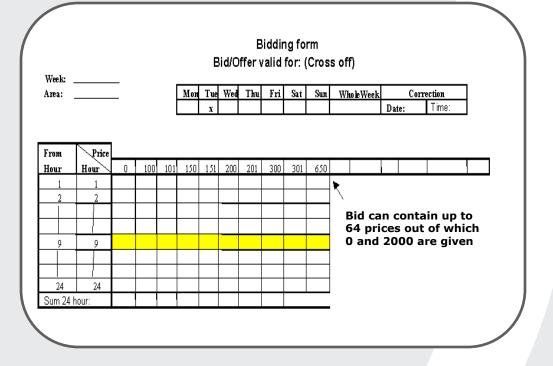
Product:	Hourly contracts, physical delivery.	
 Delivery period: 	All hours with Elspot price in present day and following day up to 60 minutes before delivery.	
 Type of trading: 	Continuous	
 Trading days: 	Every day through out the year 24h	

NORD POOL SPOT AS

Nord Pool Spot Elspot market

Hourly bidding

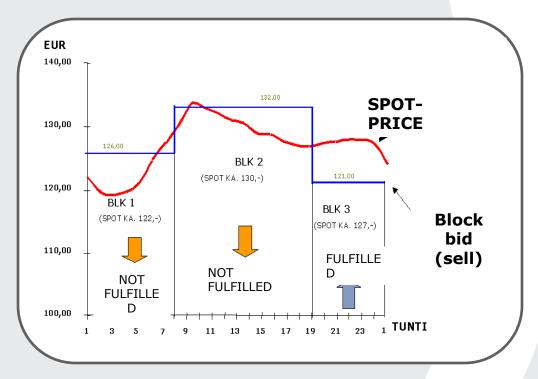
- The hourly bid is the basic type of Elspot market order
- The bid is used for both purchase and sale of power
- Each participant selects the range of price steps for the hourly bid individually.
- The bid may consist of up to 62 price steps in addition to the current ceiling and floor price limits set by Nord Pool Spot.



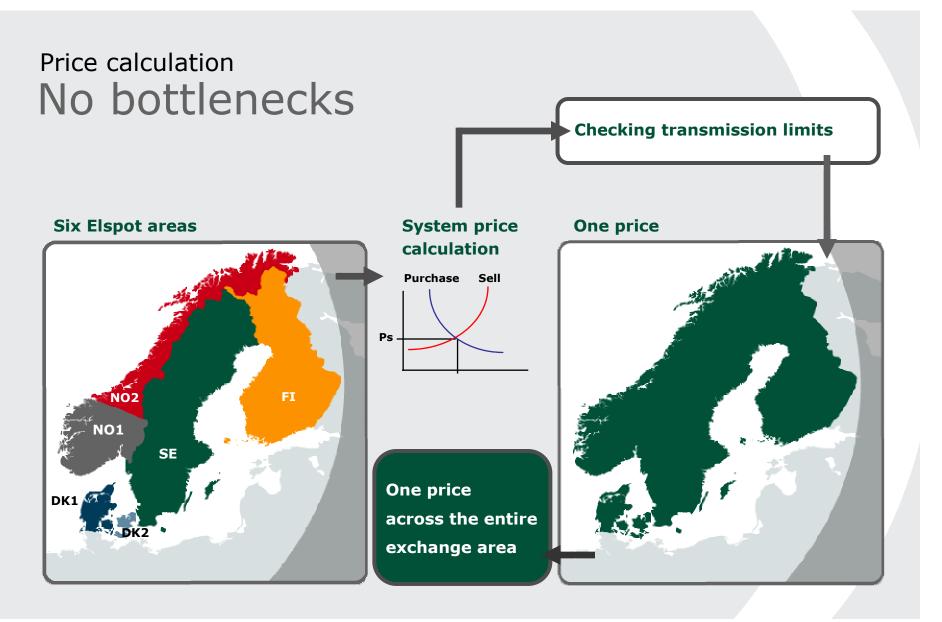
Nord Pool Spot Elspot market

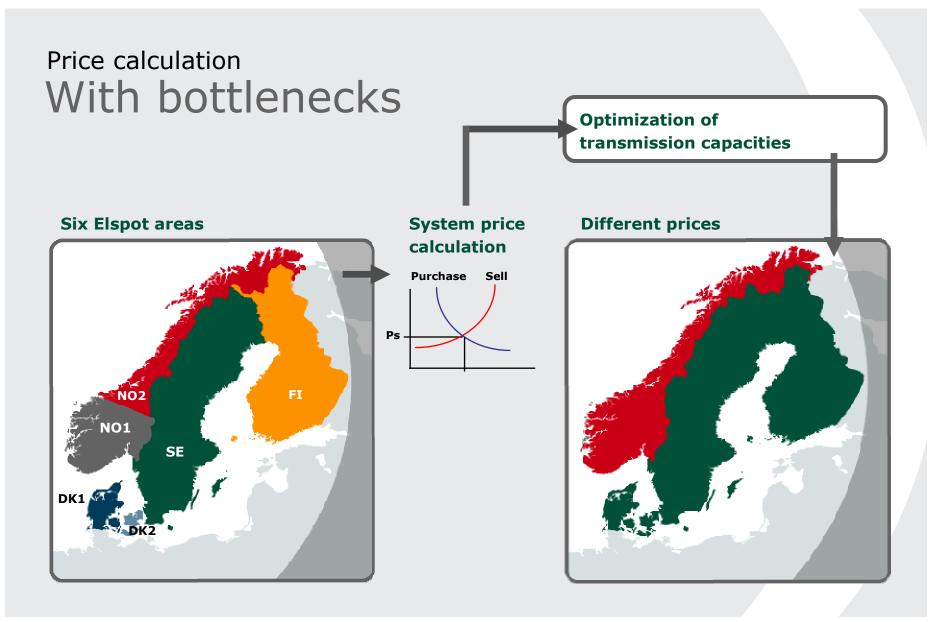
Block Bids

- The block bid gives the participant the opportunity to set an 'all or nothing' condition for all the hours within the block.
- The block bid is an aggregated bid for several hours, with a fixed price and volume throughout these hours.
- The participants can freely pick the start and stop hour of a block.
- The block bid is particularly useful in cases where the cost of starting and stopping power production is high. Also inflexible production, consumption and contracts can be handled efficiently with block bids.



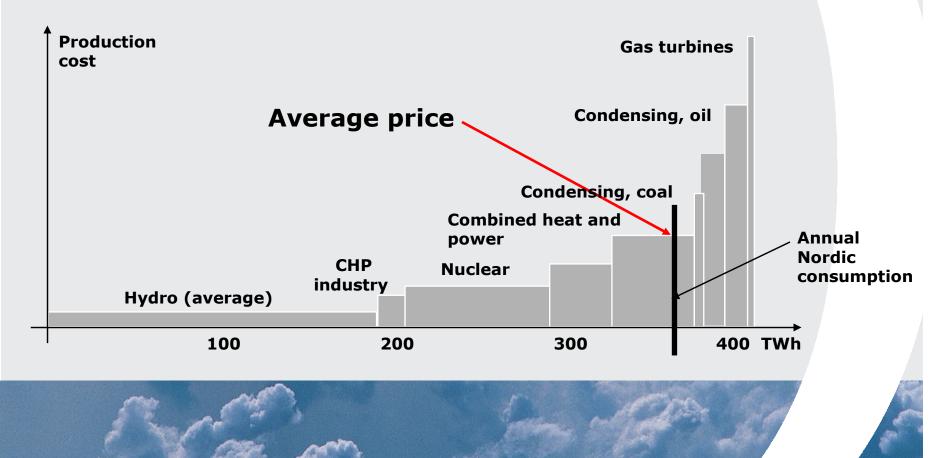








Theory Price determination



After market for Elspot Elbas market

- After market for Elspot
- Market areas available; Finland, Sweden, Denmark, Norway and Germany
- Automated control of transmission capacity
- Hourly contracts can be traded until 60 minutes before delivery hour
- Continuous trading 24/7
- Trading currency is Euro
- Market makers 24 hours per day

Enex - ELEX ile Trade C	1 - Ville - ustomer	09:28 CE Messag		t Report	s Identif	fication :	Settings	Help	_	
Price Information										
FIN SWE DK1 DK2										
Instrument	Market Information				Trade Information					
ld	BQty	Bid	Ask	AQty	Last	LQty	High	Low	Turn	
PH01011220	10	24,00	26,00	10	25,00	10	25,00	21,00	192	
PH02011220	8	25,00	26,00	10	25,90	45	25,90	22,00	213	
PH03011220	1	22,10	26,00	10	23,10	1	25,90	22,40	203	
PH04011220	20	21,60	26,00	7	26,00	3	26,00	21,00	206	1
PH05011220	5	23,00	26,00	3	26,00	4	26,00	21,00	231	1
PH06011220	7	24,00	26,50	3	26,40	10	26,50	23,00	267	
PH07011220	1	25,10	27,50	20	26,00	10	28,00	24,00	361	1
PH08011220	15	37,70	39,10	21	39,10	3	40,00	37,40	270	1
PH09011220	40	38,50	38,90	11	39,50	8	40,00	37,70	281	1
PH10011220	40	36,10			45,00	20	45,00	35,10	301	
PH11011220	2	34,20	44,00	5	43,00	20	45,00	34,80	348	
PH12011220	11	40,00	44,00	20	40,00	10	45,00	34,90	333	1
PH13011220	2	36,10	40,00	15	43,00	20	43,00	37,20	275	
PH14011220	2	36,10	39,00	8	39,00	12	39,00	37,00	237	
PH15011220	30	35,20	42,00	20	38,00	2	39,00	36,00	205	
PH16011220	1	48,10	70,00	10	70,00	40	70,00	50,70	225	1
PH17011220	2	53,10	73,00	50	60,00	20	60,00	55,00	150	
PH18011220	1	48,10	73,00	50	56,00	10	56,00	49,90	150	
PH19011220	2	33,10	45,40	50	42,50	10	42,50	35,30	112	
PH20011220	30	30,00	45,00	50	32,00	20	35,00	30,70	160	
PH21011220	5	24,20	32,00	8	32,00	12	32,00	25,20	184	
PH22011220	50	24,00	29,00	8	29,00	12	29,00	24,50	152	
PH23011220	5	21,10	35,00	50	28,00	20	28,00	23,30	170	
PH24011220	15	22,50	35,00	50	28,00	20	28,00	22,70	170	
larket Messag	e: 03.1	2.2001 09	9:13:57					Rea	id Ref	res



Reporting and settlement Physical markets

All trades will be transferred automatically to clearing at Nord Pool Spot

Delivery

Nord Pool Spot and participant sends Elspotand/or Elbas- net positions to system operator

- Monetary transactions
 Invoice / Credit note every banking day
- Collateral call Based on a rolling net position for the last 7-9 days of trade





Nord Pool Spot Membership categories

Exchange participant

Trading and clearing representative

Clearing customer

Entity having entered into participant agreement with Nord Pool Spot AS for principal trading

Entity having entered into participant agreement with Nord Pool Spot AS for principal trading and client trading

An entity that has been approved by Nord Pool Spot AS to have its trades subject to clearing with Nord Pool Spot AS, when represented by a trading and clearing representative





EUR 1 250

EUR 10 000

EUR 2000

Nord Pool Spot Trading fees

Annual fee

- Direct participants Elspot & Elbas* EUR 15 000
- Trading & clearing representative Elspot & Elbas* EUR 15 000
- Direct participants Elbas only
 EUR 10 000
- Clearing customers Elspot & Elbas
- Additional area/portfolio**
- View only license Elbas

Variable trading fee

- Elspot EUR/MWh 0.03
 - Elbas EUR/MWh 0.08

** Companies bidding in more than one area. In this context, Norway or Denmark is considered as one Elspot area. The fee also applies to every additional internal portfolio in Elspot within an area under a direct participant or clearing customer.





^{*} One annual fee covers both Elspot and Elbas

Nord Pool Spot Special offers

Gross bidding

- Agreement available for Elspot direct participants
- The participant undertakes to carry out gross bidding for all sales and purchase portfolios
- No entrance fee for this agreement
- The agreement will include one free charge portfolio for gross bidding purposes
- Gross volume fee of 0.0025 €/MWh with a yearly ceiling

Small customers

- Direct participants at Elspot can waive the annual fee and pay a higher variable fee of €/MWh 0.13
- There is a 3 000 €/year floor for the sum of volume fees in a calendar year



NORD POOL SPOT AS

Nord Pool Spot Our customers Elspot



Customer overview

Nord Pool Spot Elspot	311
Direct participants	111
Trading and clearing representatives	7
Clearing customers	193

Nord Pool Spot Our customers Elbas



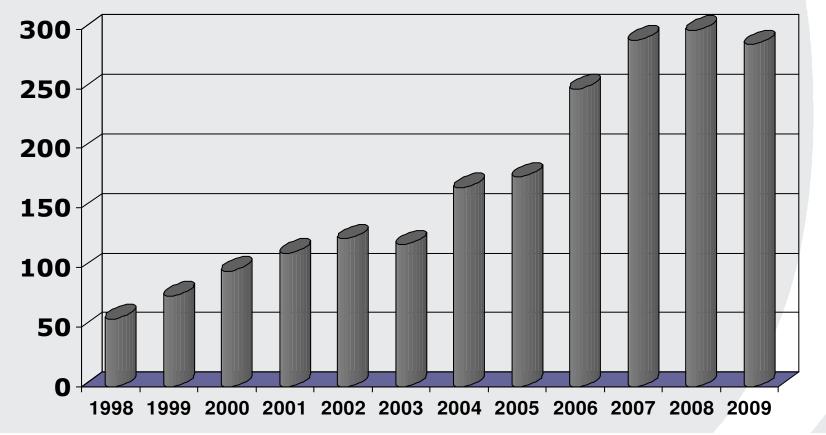
Customer overview

Clearing customers	13
Trading and clearing representatives	2
Direct participants	68
Nord Pool Spot Elbas	84

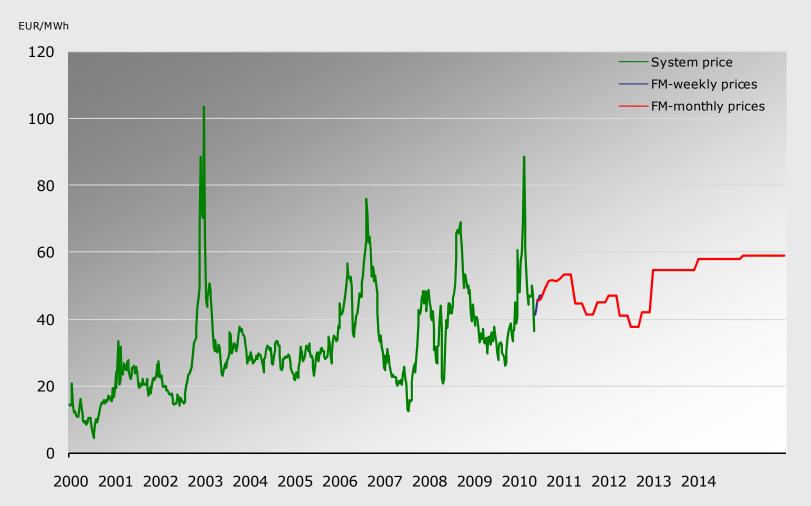
From 1998 to 2009 Trust proven by successful volume development

TWh

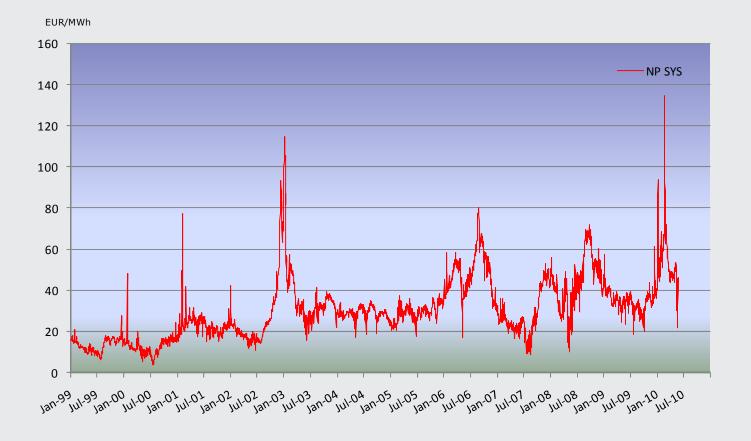
Volume 2009 287 TWh



Prices at Nord Pool



System price Daily average 1999 - 2010



NORD POOL SPOT AS

European exchanges for electrical energy **OVERVIEW**



	2007 TWh	2008 TWh	2009 TWh
Nord Pool Spot	291	298	287
EEX	123	146	-
ΑΡΧ	21	25	
PowerNext	44	52	-
EPEX Spot	-	-	196