

# NELIS

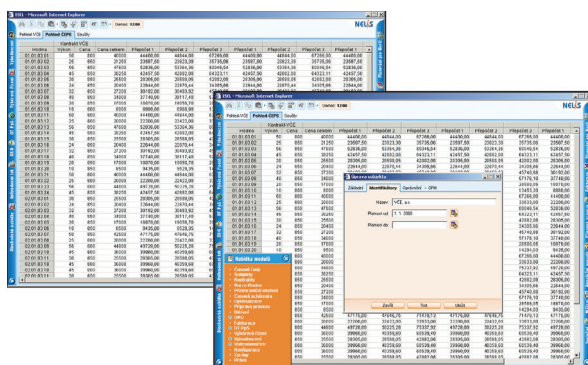
## Your Vision Coming True



As the Czech market opens up, greater requirements emerge for all involved entities, whether they are electricity producers or ancillary services providers, minor businesses or corporate giants, eligible or protected customers. To achieve market success, it is necessary to have as much information as possible, but also to be able to further process and analyse that information, providing a competitive edge while trading in electricity-related commodities.

UNICORN has designed and developed an information system called NELIS, addressing the issues of trading in electricity and ancillary services to its full extent. The system is designed mainly to meet the needs of independent producers; however, electricity traders or eligible customers, who may choose their providers, can use it as well.

Naturally, NELIS is integrated with all the neighboring systems: Damas, CDS/EMO ISS, EEX, and more.



The information system provides full support for the day-to-day activities of the producer or trader in the open market, including administration and optimisation of bilateral contract portfolio, participation in both long-term and short-term tenders, production resource optimisation, and more. The solution can be customized to meet the requirements of any operator: with proper parameterization it is possible to ensure efficient communication and data processing of production control systems.

### NELIS – A Powerful Business Instrument

The system gathers all the relevant information required for necessary decision-making and analyses, such as statistics of stock exchanges, EMOs, ČEPS, etc. The acquired data is then stored in time series. The system includes a robust computing tool or efficient processing and analyses of the time series.

Also, NELIS includes a robust analytical toolset by Artinel, to optimise tender bids or assess risks associated with the difference between production and consumption. The system supports trading in the organised short-term market (OKO), and in both long-term and short-term market with ancillary services.

### Benefits

#### > Comprehensiveness

Addressing the full scope of electricity trading business issues

#### > Compactness

Support for all common producer or trader processes, while maximizing the synergy of business activities

#### > Versatile

Information system designed for electricity producers, as well as for traders and eligible customers

#### > Well organised

Clear presentation of time series and other information in both textual and graphical form

#### > Integration

Automated data interchange with the Damas information system of CEPS, with CDS/EMO ISS, and with other external, as well as internal systems

#### > Reliability

Employs proved analytical tools by Artinel

#### > On-line accessibility

Internet/intranet access to the information system





## Technology

### > Database:

Oracle 9i

### > Application Server:

Apache

### > Development Platform:

J2EE

## Customer Profile

Electric energy producers and companies trading with this commodity belong to our costumers

## References

> International Power Opatovice, a.s.



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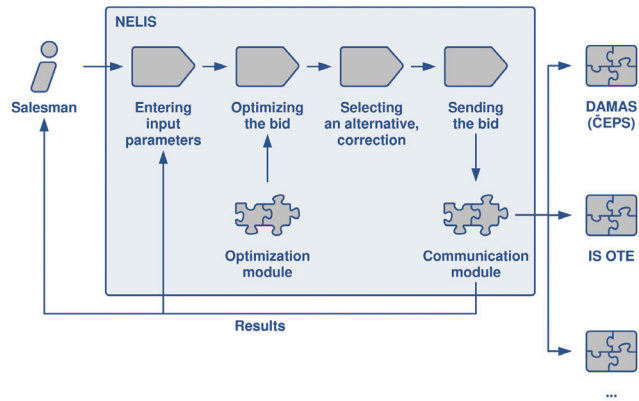
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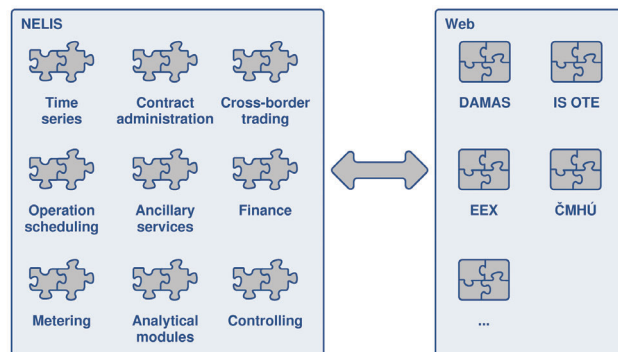
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The information system supports the entire process of participation in both long-term and short-term markets with electricity (CMK BK, OKO) and ancillary services (AnS tenders, AnS DaM). NELIS ensures preparation and optimisation of bids on the markets, sending the bids to the appropriate system, and processing the trading results; then, the results will be used as, among other things, input for optimising bids for interrelated markets in a time line, or for the same market on the next day.



The system consists of a number of specialized modules, each one addressing a certain area of the operator's business interests. The figure below shows the basis of a system structure.



## NELIS – Data Analysis Tool

Analytical functionality is an integral part of the system. Its essential task is to optimise the business strategy of an entity.

Analytical modules allow optimisation of bilateral contracts, tender bids or bids for day-ahead and intra-day electricity markets. If there are multiple bid alternatives, the evaluation process will select the most practical one. The assessment provided by NELIS is based mainly on the price range of alternatives, with regard to statistical data, distribution of available power in the day-ahead market with ancillary services and the OKO, and last but not least, the level of risk associated with the production-consumption difference. Another of the many analytical capabilities of the system is the assessment of deviations from a given purchase/sale schedule, determining what costs will be necessary to cover the customer's deviations, should the company assume responsibility for them.