

KOMPETENCIE PRE PRIEMYSEL 4.0

▶ 2021/03/30

 IPESOFT®



Oblasti pôsobenia

AREA OF BUSINESS

IPESOFT is a leading provider of comprehensive IT solutions for energy and industrial companies.

IPESOFT delivers comprehensive solutions for all the entities in the electricity market - electricity manufacturers, operators of transmission and distribution systems, independent traders and energy consumers. IPESOFT solutions and applications provide powerful tools for real-time decision support to managers at all levels. Their benefits include effective and current information on the state of production or business process.

REAL-TIME TECHNOLOGIES

ESUMOP - an advanced real-time information system built on cloud server architecture. It helped you to create integrated solutions across the entire manufacturing enterprise, starting from process automation through comprehensive monitoring and control of manufacturing processes to MES manufacturing information systems with direct integration into enterprise information systems.

IPESOFT belongs to pioneers in the field of development of real-time information systems. Since its establishment in 1993, it deals with design and development of technological solutions allowing effective implementation of progressive ICT solutions that can be used in various areas of application. Many years of arduous efforts, creative capacity and experience help us develop unique software technologies and products. Company operations in recent years extend beyond the territory of the Slovak and Czech Republic.

The company's ambition is to become the leading European maker of progressive software technologies.

INDUSTRY

IPESOFT OMS - a comprehensive system for collecting manufacturing and technological data, development of production plans, real-time production management, production cost evaluation and balancing in conjunction with collection, planning, evaluation and balancing of energy data.

IPESOFT PM TOOLKIT - a system monitoring the efficiency of production lines, controlling material input and productivity and optimal utilization of technology, work force, etc. It collects, processes and evaluates data from the production line in real time. These data are then displayed to operators in a clear graphical form.

IPESOFT PM MANAGER - a control solution for PM tools, in large plants, using real-time monitoring of production lines. It allows monitoring of these facilities as if they were a single interconnected technological set.

TRADE IN ENERGY COMMODITIES

IPESOFT TELL - a system for trading energy commodities and comprehensive support for related activities. It provides tools for trading, risk management, clearing and settling. Front Office, Middle Office, Back Office.

TRANSPORT AND INFRASTRUCTURE

IPESOFT RMS - a system for railway carriers enabling prediction of fuel consumption and optimization of traffic service and accurate calculation of fuel and energy based on measuring, monitoring, evaluation and allocation of energy costs for locomotives in motion.

POWER

IPESOFT OMS - a comprehensive solution for collecting energy data, development of production plans, real-time production and energy management, energy cost evaluation and balancing in conjunction with collection, planning, evaluation and balancing of production and technological data.

IPESOFT EDA - a specialized database for collecting, processing and archiving of energy data in a mission database system. It is characterized by high performance, ability to work fast with extreme volumes of data and an integrated strong mathematical apparatus for operators with time series, statistical analysis and reporting.

IPESOFT THEM - a specialized solution designed for trading companies, which provides comprehensive tools for measuring, selecting, scheduling and billing production, distribution and consumption of fuel.

IPEESOFT® v krátkosti

- ▶ Založenie 1993 v Žiline
 - ▶ Cca. 100 IT vývojárov a konzultantov,
 - ▶ Viac ako 250 úspešných implementácií a dlhodobu-prevádzkovaných systémov,
 - ▶ Ročný obrat 8-10 mil. EUR

- ▶ Portfólio spoločnosti IPEESOFT:
 - ▶ Vysoko-špecializované SW produkty,
 - ▶ Konzultačné služby, štúdie, príprava projektov
 - ▶ Poskytovanie prevádzky a podpory komplexných IT systémov,
 - ▶ Vedecko-výskumná činnosť,
 - ▶ Certifikačná činnosť pre energetické zdroje

Kompetencie

- ▶ Riešenia prevádzkované 24/7/365 v biznis kritických procesoch,
- ▶ Unikátne know-how v oblasti vývoja a implementácie IT v reálnom čase
 - ▶ Vlastná real-time platforma D2000®
- ▶ Odborné znalosti a skúsenosti konzultantov pre projekty:
 - ▶ Priemysel 4.0,
 - ▶ Inteligentná energetika,
 - ▶ Smart doprava
- ▶ Dôraz na vlastnosti dodávaných riešení:
 - ▶ Stabilita a odolnosť voči poruchám,
 - ▶ Škálovateľnosť a podpora heterogénnych technológií a štandardov,
 - ▶ Flexibilita architektúry
- ▶ Kompatibilita s novými IT trendami,
- ▶ Riadenie a minimalizácia investičných, bezpečnostných a ekologických rizík
- ▶ Vlastná technológia IPESOFTE D2000®

Charakteristika riešení Priemysel 4.0

- ▶ Podpora vertikálnej integrácie
 - ▶ ... od fyzikálneho senzoru cez inteligentný zber az po finálnu akciu s využitím AI naprieč roznyimi IT systémami podniku
 - ▶ IoT a distribúcia inteligencie
 - ▶ Podpora spracovania „Big data“ aj s pomocou AI
- ▶ Využívanie horizontálnej integrácia prostredníctvom IT štandardov
 - ▶ SW, HW a infraštruktúra ako služba, cloud (SaaS, PaaS, IaaS)
- ▶ Správa životného cyklu digitálneho modelu výrobného procesu vrátane interakcií s okolím

Optimalizácia režimu uskladnenia plynu

System Information: D2000@HI (BASICx64) - Nafta - NAFTA, \\10.7.45.211 - NF - Lubomír Greif /RFNAFTA HS - [PZZP]

System Menu: Systém Otvor Topológia PZZP EDA EMS Pošta Nastavenia Konfigurácia Otkáz Pomoc

Stav procesov: OK 100% 0% 100%

Plan Summary:

| Plan | 14.08.2017 [SO2] TD_14_8_17 - SO2 | Aktuálny hlavný plán | Nasledujúci hlavný plán |
|---------|-----------------------------------|----------------------|-------------------------|
| Výpočet | 12.01.2018 11:14 | Optimal. 85,00 % | |
| TK SPP | 101 248 | Obch. Nom. 100,00 % | SPP --- ON --- % |
| Počet | 5 Iná 902 | Tech. Nom. 100,00 % | Iná --- TN --- % |

Trasy plánu - 12.01.2018 11:14

| Trasa | Mód | Režim |
|-------|--------|----------|
| 1 | Všedné | TK |
| 2 | Všedné | Samospád |
| 3 | Fašba | Samospád |

Farbenie trás

| Mód procesovania | Trasy | Režim | Tlakové úrovně | Trasy podľa tlaku | Skrtenie | Zaťaženie brán [Q] | Preťaženie | Nedisponibilita |
|------------------|-----------|-----------|----------------|-------------------|-----------|--------------------|------------|-----------------|
| [Control] | [Control] | [Control] | 5 | [Control] | [Control] | 90 % | [Control] | [Control] |

Legenda: Všedné (Red), Fašba (Yellow)

INTRADAY Plán:

| Zadatok | Typ | Názov | Uzavretý |
|----------|-----|------------|------------|
| 14.08.06 | D | TD_14_8_17 | Neuzavretý |
| 14.08.09 | I | Intr09 | Neuzavretý |

SELT - ETRM Energy Trading



Výrobný a energetický dispečing Continental Púchov



