



www.oskar-el.com

OSKAR - EL Ltd. is a company specialized in the area of power supply, power generation, process automation, control and monitoring of the technological processes in the industrial, electrical, infrastructure and environmental sector.

The organization has been a loyal partner on the Bulgarian and European market for 25 years already.



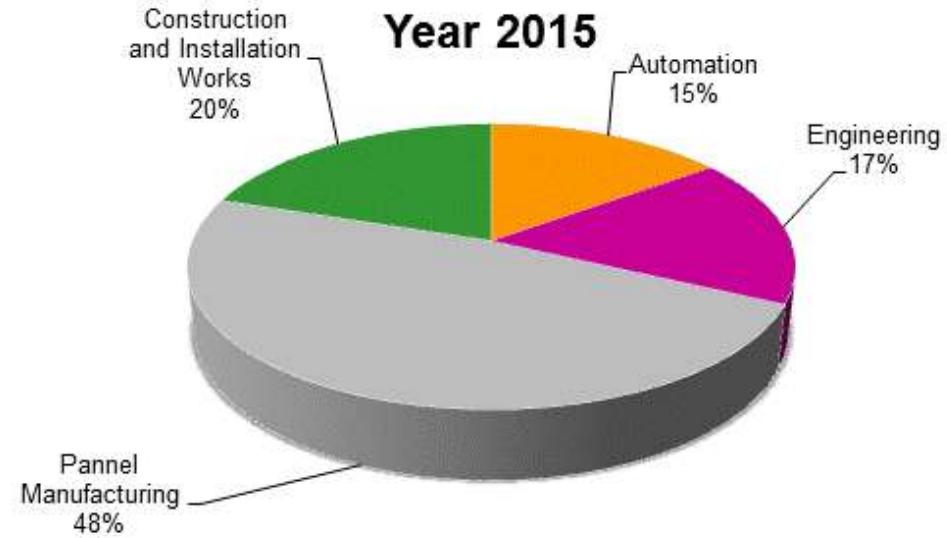
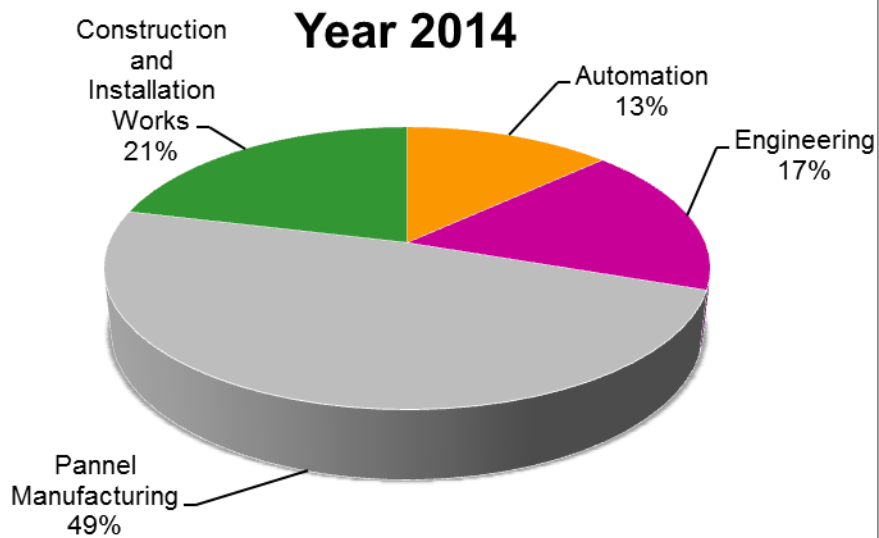
OSKAR - EL in numbers:

- Over 25 years loyal partner on the global market
- 110 employees
- Modern production facilities located on 7200 m²
- 60% of the products are for export for customers sites all over the world
- OSKAR-EL was awarded second place for 2015 by the German Bulgarian Chamber of Commerce and Industry (DBIHK)



OSKAR - EL IN NUMBERS - CONTINUED

Breakdown of Revenue by Activities



Quality Assurance and Quality Control

OSKAR - EL is certified under the ISO9001, ISO14001 and OHSAS18001

OSKAR – EL invested in a professional laboratory for calibration of equipment and tools and measuring the parameters of electrical installations and equipment.

OSKAR – EL invested in professional FAT facilities



CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

OSKAR-EL Ltd.
88 Evropeiski Pat Str., 2227 Bozhurishte
Bulgaria

has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:

BS EN ISO 9001:2008 EN ISO 9001:2008 ISO 9001:2008

The Quality Management System is applicable to:

**Design, manufacture, engineering and warranty and post warranty
service of control equipment for industrial processes.**

Approval
Certificate No: S0F6022822

Original Approval: 29th January 2015

Current Certificate: 29th January 2015

Certificate Expiry: 28th January 2018

Issued by Lloyd's Register EMEA branch for and on behalf
of Lloyd's Register Quality Assurance Limited



81A Bulgaria Blvd., 1404 Sofia, Registration number 121726037

For and on behalf of Registrar, Millersmead Office Village, Station Drive, Crowthorne, CV13 9FL, United Kingdom

The approval is issued only in accordance with the UKAS Assessment and Certification procedures and standards for UKAS.

The use of UKAS Assessment Mark indicates the holder is subject to the administrative controls of the UKAS Registrar (Certificate Number 001)

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

OSKAR-EL Ltd.
88 Evropeiski Pat Str., 2227 Bozhurishte
Bulgaria

has been approved by Lloyd's Register Quality Assurance
to the following Environmental Management System Standard:

BS EN ISO 14001:2004 EN ISO 14001:2004 ISO 14001:2004

The Environmental Management System is applicable to:

**Design, manufacture, engineering and warranty and post warranty
service of control equipment for industrial processes.**

Approval
Certificate No: S0F6022822A

Original Approval: 29th January 2015

Current Certificate: 29th January 2015

Certificate Expiry: 28th January 2018

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CERTIFICATE OF APPROVAL

This is to certify that the Occupational Health & Safety
Management System of:

OSKAR-EL Ltd.
88 Evropeiski Pat Str., 2227 Bozhurishte
Bulgaria

has been approved by Lloyd's Register Quality Assurance
to the following specification:

BS OHSAS 18001:2007

The Occupational Health & Safety Management System is applicable to:

**Design, manufacture, engineering and warranty and post warranty
service of control equipment for industrial processes.**

Approval
Certificate No: S0F6022822B

Original Approval: 29th January 2015

Current Certificate: 29th January 2015

Certificate Expiry: 28th January 2018

Issued by Lloyd's Register EMEA branch for and on behalf
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We are in the Process of implementation of Japanese system



5S Explanation



Sort

When in
doubt,
move it
out –
Red Tag
technique



Set in Order

A place
for
everything
and
everything
in its
place



Shine

Clean and
inspect
or
Inspect
through
cleaning



Standardize

Make up
the rules,
follow and
enforce
them



Sustain

Part of
daily work
and it
becomes
a habit



OSKAR – EL’S BIGGEST ASSET IS OUR PERSONNEL

- Our Team is highly qualified, Most of the team members possess individual certificates for competence in their respective areas
- Our Team is experienced in the installation of and in the commissioning of electric installations at complex production sites
- Our Team is young and motivated to learn and implement innovations, The process of studying and integrating new automated equipment is a routine practice
- OSKAR-EL’s Company policy and commitment is to maintain and improve personnel’s qualifications with regular trainings including trainings focused on Our Client’s projects



Breakdown of Employees by Departments

Department	Number of Employees
Engineering	
• Engineering and Offers	17
• Software support	4
Production	
• Electric installations	20
• Panel production	17
Logistics	5
Maintenance of electric installations MV and HV	19
Laboratory control type “C”	6
Management and Corporate Functions	19



Main activities of the Company:

Engineering

Automation

Electrical Panels Production

Electrical Installations, O&M





ENGINEERING



OSKAR – EI Ltd. provides design and construction of systems for electric control of machines and equipment of complex projects in the industry, power and water sectors, including:

- Analysis and development of conceptual, technical and detailed design
- Panels Manufacturing
- Factory Acceptance Tests (FAT)
- Construction, Installation and Commissioning
- Site Acceptance Tests (SAT) and participation in System Integration Testing (SIT)
- Automation
- Maintenance and monitoring during guarantee period
- Project management





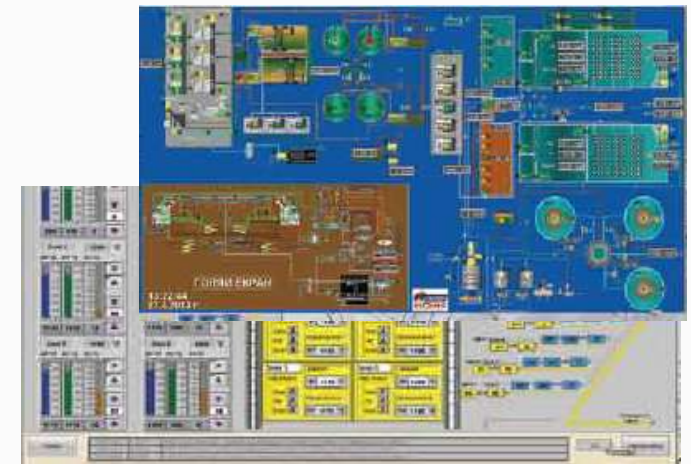
Automation



OSKAR – EI Ltd. provides its customers with development, design and implementation of systems for Instrumentation and Control (I&C) and automation in the production processes.

**Configuration and applied programming of PLC, SCADA systems.
Intensive development in the field of energy management systems.**

- Design solutions
- Schematic diagrams
- Software provision
- Installation construction
- Start-up and commissioning
- Operational documentation
- Post-warranty maintenance
- Remote Support and Monitoring





Panel Production



OSKAR – EI Ltd. offers its customers design and manufacturing of electrical panels for automation and control of various processes and industrial facilities for ferrous and non-ferrous metallurgy, mining, power sector, machine-building, water sector, specialized facilities.



Design and manufacturing of LV panels, including:

- Distribution panels
- Control and automation panels
- Panels for secondary commutation
- Prism panels
- Motor Control Centre (MCC)
- Specialized panels on assignment





Electrical Installations



OSKAR - EL performs a full range of services related to design and construction of electrical installations in buildings and facilities, including:

- Design of installations
- Construction of earthing and lightning protection installations
- Construction of power and lighting systems
- Construction of communication installations – Modbus, Profibus, Ethernet, optical traces
- Maintenance, repair and reconstruction of cranes
- Operation and Maintenance

Our specialists have extensive professional experience and possess all required personal certificates, including ATEX.





OUR PARTNERS





SIEMENS Westinghouse

Honeywell

ABB



Cluster
Mechatronics and
Automation



УНИВЕРСИТЕТ
ПО АРХИТЕКТУРА
СТРОИТЕЛСТВО
И ГЕОДЕЗИЯ



КАМАРА НА СТРОИТЕЛИТЕ В БЪЛГАРИЯ
BULGARIAN CONSTRUCTION CHAMBER



CCI FRANCE BULGARIE
ФБИК



БЪЛГАРСКА ТЪРГОВСКО-ПРОМИШЛЕНА ПАЛАТА



AHK

Deutsch-Bulgarische
Industrie- und Handelskammer
Германо-Българска
индустриално-търговска камара

**ADVANTAGE
AUSTRIA** 



Serbian Bulgarian
chamber of commerce



OUR CUSTOMERS







OUR PROJECTS





METALLURGY AND MINING



FRAMEWORK AGREEMENT FOR PRODUCTION OF PANELS

Completed „Turnkey“ projects:

- Upgrade of slag shaking line
- Reconstruction of Concentration plant
- Construction of installations in substations, Crushing plant, REDLER installations
- Construction of electrical installation in New Copper Refinery





CONSTRUCTION OF ELECTRICAL INSTALLATION IN NEW COPPER REFINERY

- Manufacturing of control boards
- Instrumentation and Control System Installation
- Construction of Electrical Installation for production processes
- SAT
- Commissioning and Start up of the system



COMPLETED „TURNKEY“ PROJECTS:

Construction of electrical installations in:

- New rolling mill
- Central laboratory
- Tunnel of the electric steel plant
- Service of bucket carriers
- Central warehouse
- Slab cutter

Construction of a new filter installation

Construction of electrical installation in hopper loading terminal and Furnace III





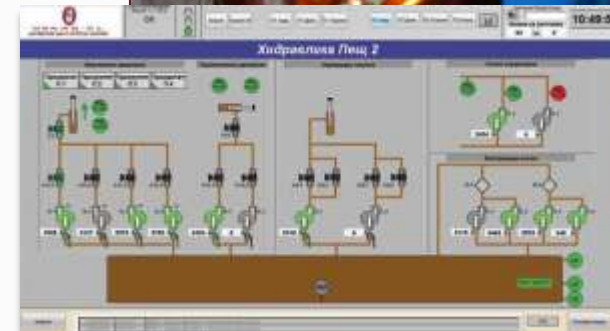
AUTOMATED TRANSPORTATION, WEIGHING AND LOADING OF BILLETS IN HEATING FURNACES

OSKAR EL performed replacement of the system for loading of billets into the existing heating furnaces (Furnace #1 and Furnace #2)

Arrangement of billets in the furnace following specified maps and transporting them to the exit of the furnace. Removing of the already heated metal and directing it towards the rolling modules.

The project is based on SIEMENS S7-300 controllers and Sinamics drives.

For the purpose of visualization WinCC SCADA software is installed.



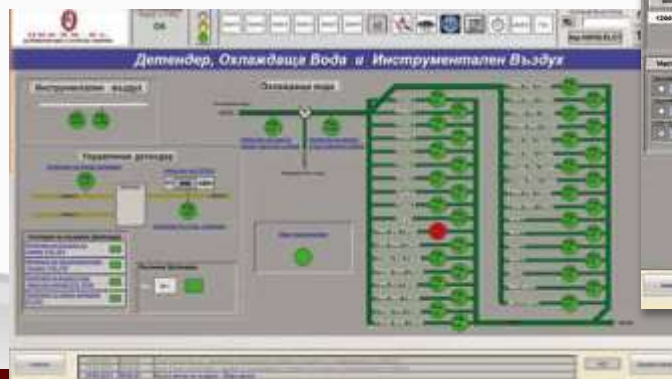
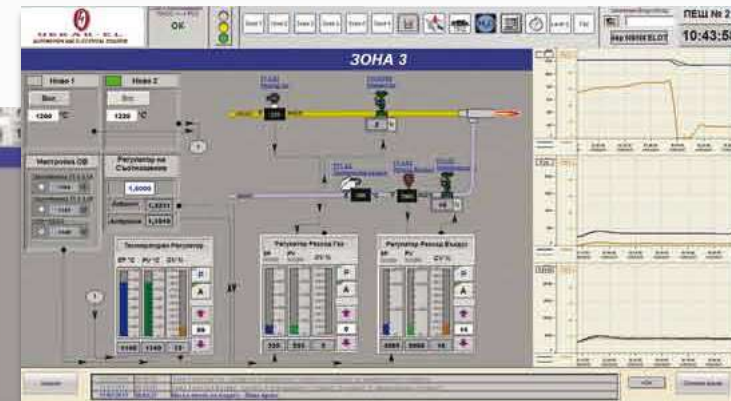
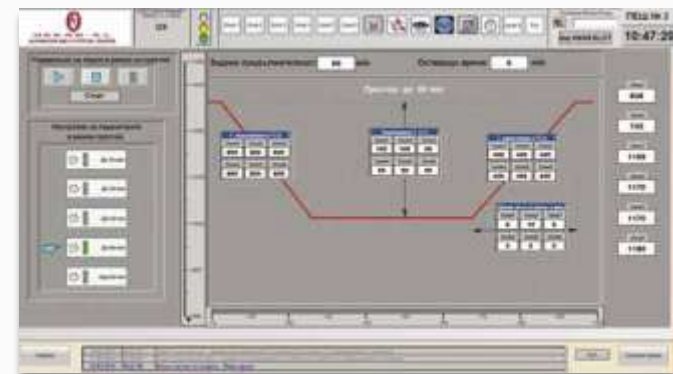


AUTOMATED CONTROL OF THE COMBUSTION IN FURNACE I AND FURNACE II

Replacement of the automated control of the combustion in Furnace I and Furnace II with their productivity up to 130 t/h. The automatic control assures achieving the preset values for each steel brands and required heating curves.

The project is based on SIEMENS S7-300 controllers and Sinamics drives.

For the purpose of visualization WinCC SCADA software is installed.





MODERNIZATION OF THE SPEED, THE LOOPER AND TENSION CONTROL SYSTEM OF THE HOT ROLLING MILL

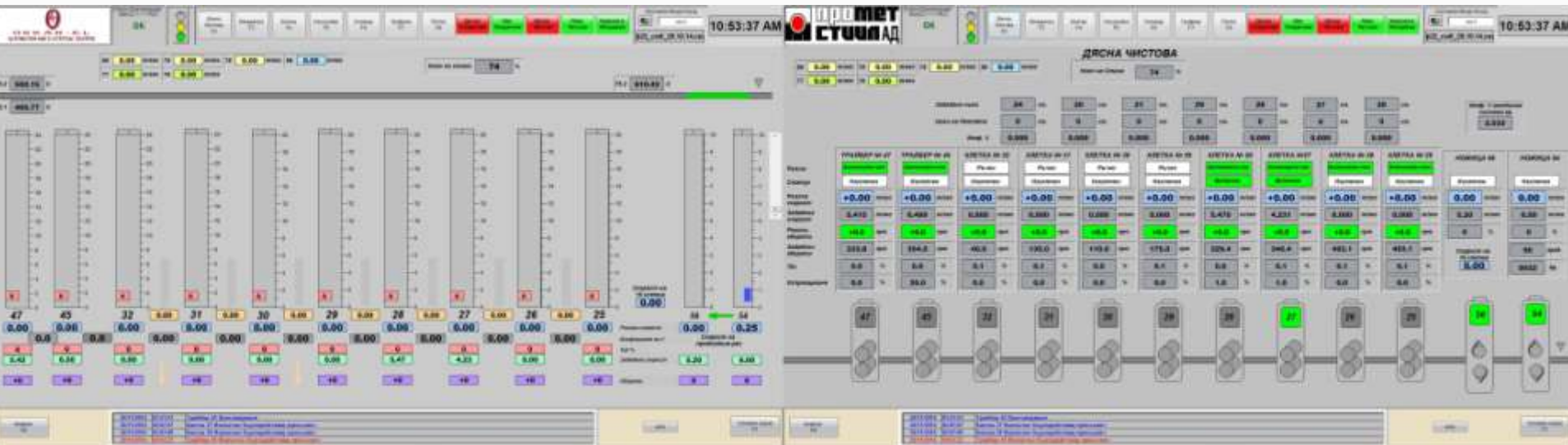
The hot rolling mill includes:

32 pcs rolling mill stands

8 pcs shears for cutting the billets, emergency shears and shears for the final products

6 pcs of supporting stands

The system assures looper and tension control between rolling mills





CHELOPECH MINING
ЧЕЛЮПЕЧ ДАЛУНИНГ

COMPLETED „TURNKEY“ PROJECTS:

- Modernization of mill control and excitation of synchronous motor
- Design and manufacture of MCC for underground backfill line
- Manufacturing and installation of MCC and construction of electrical installation in the filter press
- Modernization of the flotation plant
- Reconstruction of Ore-dressing plant





OIL AND GAS



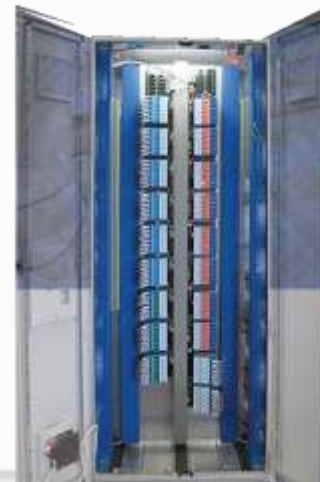
Honeywell[®]

APPROVED SUBCONTRACTOR AND SUPPLIER WORLDWIDE



Panel manufacturing for oil & gas projects:

- Marshaling cabinets
- Server cabinets
- PDP cabinets
- IRP cabinets
- FGS cabinets
- ESD consoles
- DCS cabinets
- System cabinets





PLC PANELS

Manufacturing of panels with programmable controllers, testing ,commissioning and startup.





Technip
take it further.



The Heat Tracing Specialists[®]

ABB



JOINT PROJECTS

RusVinil IKRA Project, Nizhny Novgorod, Russia:

- Heat tracing and lighting panels

AKAKUS oil projec, oil & gas platform Lybia:

- Marshaling cabinets
- Server cabinets
- IRP cabinets
- System cabinets





POWER GENERATION



UPGRADE OF INSTRUMENTATION & CONTROL SYSTEM IN AUXILIARY BUILDING 3

- Design
- Seismic Qualification of the equipment
- Assembly and Factory Testing of System HV
Cabinets and Consoles





UPGRADE OF INSTRUMENTATION & CONTROL SYSTEM IN AUXILIARY BUILDING 3

- Project Management of the main activities implemented by OSKAR EL for Kozloduy NPP Auxiliary Building Instrumentation and Control system upgrade project
- Development of design documentation for the cabinets and the panels of the system;
- Manufacturing of the cabinets and the panels of the system;
- Support to the Main Contractor during the FAT of the system





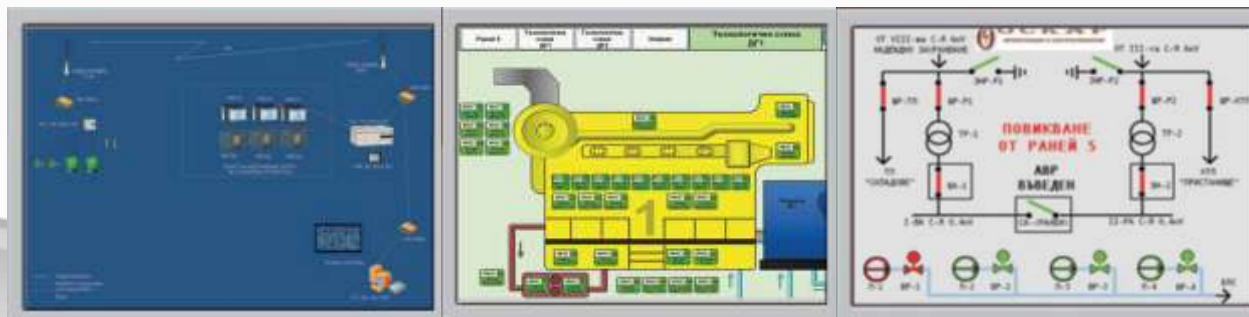
UPGRADE OF INSTRUMENTATION & CONTROL SYSTEM IN AUXILIARY BUILDING 3

- Participation in the development of part of the documents related to detailed design of the system
- Development of installation design of the system
- Installation activities during the replacement of the system
- Performance of the Metrology of Measuring Loops and Interface Testing
- Support to the Main Contractor during the SAT of the system
- Preparation of the documentation for turnover of the system to the client
- Development of the as built documentation



RADIO CONTROL OF BANK PUMPING STATION

- Engineering, manufacturing and commissioning of remote control and monitoring of the Pumping Station - Raney 5 - via wireless connection.
- Software development of SCADA system.
- The project was developed in the existing SCADA of the diesel generators.



220 KV OPEN SWITCHGEAR PANELS AND SAFETY MANAGEMENT SYSTEM

- The panels are designed to control the breakers of the transformers in 220 kV Open Switchgear panel. They contain equipment for remote control of the switches with displayed signaling position.



POWER PANELS FOR UNITS 5 AND 6

- The power panels are designed for power and protection and are assembled in accordance with the requirements of the modernization program for Units 5 and 6 at Kozloduy NPP.



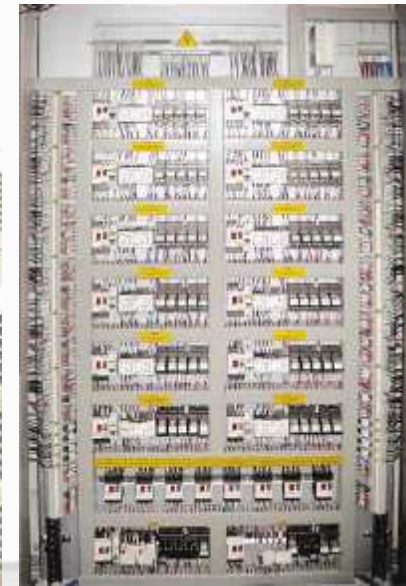


топлофикация
софия ЕАД

Топлина в твоя дом!

SOFIA TPP

- Design and manufacturing of switchboards and control panels
- On site installation
- Design of a SCADA system, based on programmable controllers (PLC's) и WinCC-SIEMENS

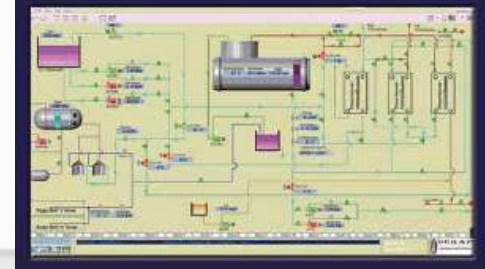
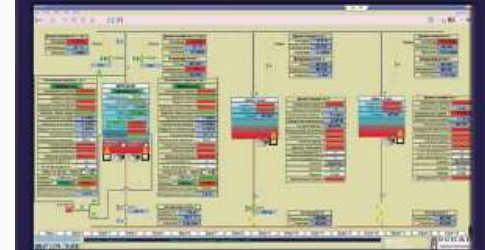
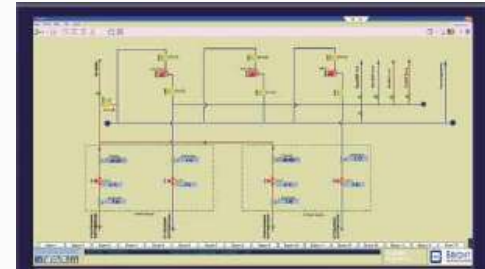




VARNA – DALKIA TPP

Automation and control of technological processes:

- Automation and control of the processes in the deaerator - pressure control and water level control.
- Automation and control of the makeup pumps, network pumps, softened water and dosing pumps.
- Automation and control of the boilers' combustion processes: maintaining the preset temperature in the heat distribution network, burner load control, monitoring of all protections and activation of the appropriate process at different alarm.
- Visualization and archiving of all events and processes





BANITE HPP - 4 MW

- Design, electrical installation, set-up and commissioning of the hydropower plant.
- We are currently working on a new hydropower plant to be installed on pontoon and floating bridges.





WATER SECTOR



COMPLETED „TURNKEY“ PROJECTS:

Complete design and construction of water treatment plants:

- Detailed final electrical design
- Design and manufacture of control panels
- Construction of electrical installations
- Instrumentation equipment mounting
- Startup and commissioning



COMPLETED „TURNKEY“ PROJECTS:

- WWTP SLIVEN
- WWTP KYUSTENDIL
- WWTP SMOLYAN
- WWTP LYULIAKOVO
- WWTP KOZLODUY
- WWTP RAKOVSKI
- DWTP GABROVO
- WWTP KRICHIM
- WWTP LUKOVIT
- WWTP KARDZHALI
- WWTP PARVOMAI



COMPLETED „TURNKEY“ PROJECTS:

- WWTP VRABEVO
- WWTP NEGOVAN
- WWTP SPANCHEVO
- WWTP NEGOVANTZI
- WWTP SATOVCHA
- WWTP GLOJENE
- WWTP HASKOVO



CURRENT PROJECTS :

- DWTP SHKABAJ, PRISHTINA, KOSOVO
- DWTP PLOVDIVTZI





OTHERS



ELECTRICAL INSTALLATIONS AND COMMISSIONING

Completed „turnkey“ projects:

- Electrical installation works in dry mixtures production plant and wet production plant.

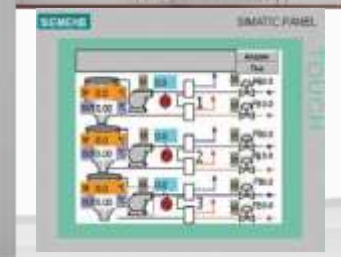




COMPLETED „TURNKEY“ PROJECTS:

DEVELOPMENT OF ION SYSTEM FOR ENERGY EFFICIENCY AND MONITORING IN NESTLE – SOFIA.

- Vizualization of all data and alarms.
- The system allows remote monitoring of all operating parameters in the plant.
- Automation, control and monitoring of all processes in the plant.





REFERENCES



A Letter of Reference

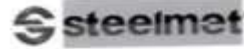
“Stomana Industry” AD has been working with “Oscar-EL” Ltd since the beginning of 2006. The substance of our partnership is the **engineering, production, delivery and installation of electric equipment**. Over the years we completed major projects such as:

- The complete electric installations and automation works for the **reception system, transfer and dosing of ferroalloys for the electric arc furnace and the bucket furnace**.
- Execution of a **new lighting of the main shops of the Steelmaking plant**. Production, delivery and mounting of **power supply and distribution electric panels, cabling and installation of more than 2000 industrial lighting fixtures**.
- Engineering and implementation of new control schemes, electrical works during the construction of the **New Long Products plant** our biggest project for 2007/2008.
- Reconstruction of the **Slab Caster Machine**
- Engineering and delivery of **electric drives for crane installations**. Electrical works for repair and reconstruction of overhead cranes in the **Sorting, Electrical Steelmaking plant, Thermo calibration and Flat products plant**.

While working on the above projects, “Oscar-EL” Ltd employees **observed the internal regulations** of “Stomana Industry” AD as well as the **health and safety requirements** for electric installations works.

The production quality of “Oscar-EL” Ltd is high and **executed at professional level**, in line with European and Bulgarian standards. The company used certified materials and technologies. Looking back over the projects completed together, we can **recommend “Oscar-EL” Ltd as a reliable partner**, fulfilling its contractual obligations.

General Utilities Manager
Dipl.Eng. Assen Poljanec



REFERENCE

On March 31, 2005, STEELMET AD, opened its own office building on Vatspárov Blvd., near the EXPO 2000 Centre in the city of Sofia. Having presented the best bid as regards price, delivery terms and quality, the company OSCAR-EL LTD. won the bid for delivery of electrical equipment and manufacturing of electrical control panels and was commissioned. During the term of the contract, the company, OSCAR-EL LTD. manufactured and delivered 1 main switchboard and 21 control panels intended for various purposes.

OSCAR-EL LTD. designed, manufactured and delivered the control panels required for the extension of the plants of STEELMET AD.

The panels are made at a high professional level in strict adherence to the requirements and design rules. The equipment was from companies of proven good reputation and quality. The panels are reliable and work without failure. During the implementation of the contract, the experts from OSCAR-EL LTD. acted in a competent, professional and flexible manner and kept the fulfillment of their commitment within the deadlines.

Another service we required of OSCAR-EL LTD involved the delivery of electrical equipment and other equipment with the brand of Schneider Electric. OSCAR-EL LTD. is an engineering partner and a specialized distributor of the brand. With its competitive prices and fast delivery deadlines, OSCAR-EL LTD. is to be preferred to the other distributors of the brand. Where urgent deliveries are required, OSCAR-EL LTD. responds promptly and reacts quickly to the needs of the customer.

In consideration of the correctness and professionalism of the experts of OSCAR-EL LTD., STEELMET AD has made this company one of its main partners.

Technical Director of Steelmet AD
(Engineer Assen Angelov)

May 10, 2005
Sofia



“АЕЦ - КОЗЛОДУЙ” - ЕАД, гр. Козлодуй
ЕЛЕКТРОПРОИЗВОДСТВО - 2

A letter of Recommendation

We have been working with “Oscar-EL” Ltd since March 2003 starting with the contract for the upgrade of projector machine panels of 5 and 6 Reactor pressure vessels. Today the complete installation and start up of the control system for panel 6 reactor pressure vessel is finished. It has been functioning safely since Feb 2004. Work continues on the installation works for the system of 5th reactor pressure vessel system. The project for the “Upgrade of Projector machine of reactor pressure vessels panel 6” comprises of the following activities:

1. Engineering of new control systems for the projector machines based on new requirements for control regulations
2. Specification of new control panels, equipped with electrical components meeting modern requirements for reliability, accuracy and safety, ergonomic design and technology.
3. Production delivery and installation of electric panels
4. Installation of the electric control panels.
5. Putting into exploitation of regulators and process-monitors to reach reliable compliance of signals from already functioning controls with new high technology regulators; setting, functional tests and start up of the system.
6. Preparation of the necessary technical documentation in the required scope: installation and exploitation instructions, maintenance and repair, cable and clamp journals, detailed electrical circuit schemes, electrical equipment specification in paper and electronic format.

The project for the “Upgrade of Projector machine of reactor pressure vessels panel 5” is currently being implemented in strict compliance with the agreed milestones.

The quality of the electric panels' production is in line with quality standards of European manufacturers, corresponding to the technical requirements and our internal norms and regulations. The control and electrical components used are of highest quality, reliable and certified for the functioning of the equipment. “Oscar-EL” achieved a high level of understanding and efficient communication with our Control and Management Systems specialists during the collaboration. It guaranteed the effective problem solutions and the accuracy in meeting deadlines.

The contracts covering complete engineering works by “Oscar-EL” Ltd are of great technological and functional quality. On basis of this work experience we affirm that “Oscar-EL” Ltd fulfil their contractual obligations accurately, reliably and in compliance with all specific safety requirements of NPP Kozloduy PLC

20.05.2004

Chief Engineer
D. Angelov



**THANK YOU FOR YOUR
ATTENTION**

OSKAR-EL LTD

Factory and Head Office

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