



Oil and Gas Drilling



Customer
RUDIS DRILLING COMPANY
Country
Ukraine
Industry
Oil & Gas Drilling
System Integrator
SOLITON
Application
IGSS - 200 objects
Data
Number of drilling sites
3 - all located in Ukraine
Number of oikk wells
25
Reserve
9,1 million oil barrels
Volume extracted per day
500 oil barrels

RUDIS DRILLING COMPANY has three large oil & gas drilling sites located in Ukraine. The huge requirements for productivity brings up the question of qualitative & reliable preparation and transportation of extracted gas

Safety demands in this field are extremely high. The IGSS system was implemented for centralized control and audit of a gas preparation plant.

RUDIS DRILLING COMPANY shares 50% of drilling rights with UKRGASDOBYCHA Company. In 2005, RUDIS was taken over by United Kingdom drilling company Cardinal Resources Plc. It's total oil reserves amounts to 27.5 million barrels and a total productivity of 1131 oil barrels per day.

The Challenge

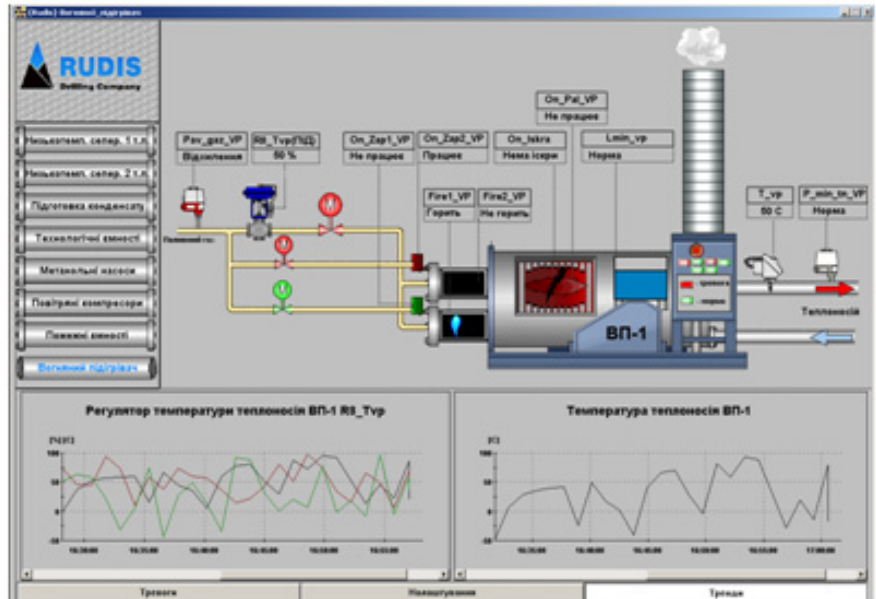
Extremely severe demands for safety and reliability

Any slipping spark, wrong or delayed process command can result in hazardous consequences. All control equipment was selected ibly its high protection class and proven use in previous installations.

The Solution

Centralized Control by IGSS

The control system was built on the basis of industrial DirectLogic DL205 PLCs with processor module DirectLogic DL260. This system allows you to connect up to 8192 Inputs & Outputs and to use up to 16 PID regulators. For local visualization of process and control an 8" Touch-Screen C-More EA7-T8C (Automation Direct) was used. For centralized control and visualization the IGSS SCADA System was installed. It was connected to the process by means of KOYO DirectNET PLC driver.



“IGSS SCADA system provided us with a centralized overview and control of the gas preparation process. Now we know every single detail we could have missed before.”

*Alexandr Grushko
Site Engineer at
RUDIS Drilling Company*

The Result

Overview and Visualisation

- registering and processing technological data (gas temperature, pressure, volume, valve and pump status)
- visualization of collected data in a user-friendly way (diagrams with meters, active graphics, text messages, trends and tables)
- automated control of parameters with generation of alarm messages to operators
- realization of equipment control algorithms
- user authorization
- reports generation & equipment maintenance.

Other Advantages

Flexibility

The flexibility of the system allows future enlargement if the gas station productivity is extended. Additional equipment and processes can be added on the fly.

The Future

Remaining Drilling sites

The installation of IGSS proved itself extremely worth. Thus RUDIS DRILLING COMPANY considers integration of IGSS on remaining drilling sites.