

Shell selects System302 for projects in Nigeria

Smar has been recently selected to supply a complete Foundation Fieldbus solution to Shell based on System302, which fully complies with the new Shell Petroleum Development Co. of Nigeria (SPDC) Strategy Based on "Open Technologies".

Among the various suppliers for products and systems on the Shell Nigeria Vendors List, Smar was considered MAC (Main Automation Contractor) and was therefore chosen by Shell to provide the project "Electronic Instrumentation System for Computer Assisted Operations in SPDC - East".

The project consists of 14 flow stations that hold 429 production wells. These flow stations are responsible for separating the oil, meeting the oil specs and managing the oil production.

The System302 defined for this project consists of 1200 FF Field Devices (Pressure, Differential Pressure, Temperature, Coriolis and Level), 45 Conditioning

Monitoring (DC302), 120 Linking Devices (DFI CPUs - DF51) and 220 FF Barriers (SB312-LP). The total system will have 85 segments, power redundancy and function blocks specially designed for flow compensation based on field and linking devices. In terms of software tools there will be 25 operation stations including Process View for visualization, Syscon for configuration and AssetView for maintenance. Every flow station will have a



From the left to right: Zahid Zaidi, INTECH; Claudio Fayad, SMAR; Claudio Borges, SMAR; F. Adeyemi, NAMPIIS; Fidelis Akpoghiran, SHELL; Hamid Mukhtar, INTECH.

set of each software and the other 11 will be placed in the Shell CAO Central Station.

The Shell operation in Nigeria is a joint enterprise formed by 60% of NNPC's company shares (Nigeria National Petroleum Company), 25% of Shell itself and 15% of other oil operators (e.g. Agip and Total). Shell Nigeria is the largest Nigerian oil operator company, having been responsible for 800.000 barrels out of the 2M barrels of crude oil produced per day in the entire country.

"Smar's Certified Integrator in Nigeria, Intech Process Automation (managed by Hamid Mukhtar), will be locally integrating the system and supporting Shell. This is another important step accomplished by Smar following the advice of the Nigerian government, now stimulating the 'local content' for future projects", said Cláudio Borges, Smar's Shell Account Manager.



Official letter from Shell certifying Smar as its systems supplier

IN THIS ISSUE:

Major thermoelectric biomass plant begins production in Brazil

Page 2

Smar representative in Argentina inaugurates new headquarter

Page 3

LC700's new configurator for FREE!

Page 4



Major thermoelectric biomass plant begins production in Brazil

Located in Sertãozinho, Brazil, the Companhia Energética Santa Elisa (CESE) began production at its thermoelectric power plant in May 2003. This facility is one of the highest steam pressure biomass power plants in the world. The thermoelectric plant is producing 60MW power, utilizing biomass (bagasse - crushed sugar cane) as fuel.

Brazilian technology was utilized in the complete development of the thermoelectric plant. The facility was developed by a group of nine companies, five of which were from the Sertãozinho region. Smar was responsible for complete project automation including: level control, desairation tanks pressure control, interlocking and security systems as well as three element boiler control, combustion and gas exhaustion from the boiler, belt feed control, and recirculation of the bagasse.

At the plant's opening, Brazil's President Mr. Luiz Inácio Lula da Silva said that the Brazilian government will support the sector and recuperate the alcohol production in the



The new thermoelectric power plant

country. "In a short time the developed countries, for ecological reasons, will need to produce and buy alcohol to mix in the gas and therefore we can participate in this part of the global market with our production capacity and technology", said the President.

Monthly, this new biomass power generation unit will be capable of supplying energy for up to 500,000 city inhabitants. Total investments in this facility exceeds \$20m, 70% of

which was financed by the Brazilian National Bank (Banco Nacional de Desenvolvimento Econômico e Social).

The total energy generated will result in 30MW for use by Santa Elisa Co. in its own processes, while an additional 30MW will be sold to CPFL (Energy company from São Paulo state). In order to generate this amount of energy, CESE will process 25 thousand tons of sugar cane, resulting in 1.3 million liters of alcohol, 40,000 bags of refined sugar (50 kilos each), and 7,000 tons of bagasse.



EVENT

Smar's seventh Asia-Pacific meeting

With Smar Singapore as the host of the seventh Asia-Pacific general meeting, representatives from India, the Philippines, Thailand, Japan, Malaysia, Vietnam, New Zealand, Brunei, Singapore, and Indonesia were brought together to be informed of Smar's extensive expertise in sugar and alcohol.

The highlights of the event included various presentations on Smar's latest technological and market achievements by Barnaby Sim, an Applications Engineer for Smar Singapore;



Group present in the meeting

Libânio de Souza, an R&D Director; Sugar Applications Product Manager Jayme Tamaki Jr.; and demo by Jonas Berge, the manager of Smar Singapore.

According to Jonas Berge, the main objective was to present and explain Smar's broad range of solutions for the sugar and alcohol industry and the company's success stories in this segment. Emphasis was given on the DT301 density transmitter, which has been a success in many applications in the sugar industry. The secondary objective was to keep the representatives updated on new technology, such as FDT/DTM (Field Device Tool/Device Type Manager), a part of SMAR's PATS (Program for Update on Technologies from Smar) initiative. The FDT/DTM is a technology for development of multiprotocol and multimanufacturer Plug & Play software components for management of field devices of industrial automation.

Jayme Tamaki, a specialist in the sugar industry, displayed Smar's successfully proven solutions in South America to the representatives, highlighting the fact that this accomplishment can be replicated for other sugar producing nations.



Smar representative in Argentina inaugurates new headquarter

Confident with the future of the South American business strategy (Mercosul), the Smar representative, Esco Argentina, has inaugurated its new office in Buenos Aires (San Telmo).

This headquarter will display the complete line of instrumentation and control products commercialized by Esco Argentina as well as training facilities.

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Esco new headquarter

ISA promotes the industrial automation congress in Guatemala

Smar's presence last May at the ISA "II Congreso Centroamericano Instrumentación, Automatización y Control de Procesos Industriales", an industrial automation congress, in Guatemala City was strong as products ranging from the FY301, PLC model LC700, System302 (based on Foundation Fieldbus technology) and DT301 were presented.

Having its Central American representative, Control y Automatización (a Costa Rican company managed by Rodolfo Piedra), as a partner in the congress, Smar's main participation at the event consisted of two presentations that discussed the DT301, a new density transmitter, and Foundation Fieldbus Technology, which is new in the Central American market.

The outstanding performance continued as the company demonstrated System 302, which is considered to be the most updated control technology in the industry, with an online simulation of its broad capabilities. The engineers Adriano Teixeira and Gustavo Trovo represented Smar Brazil and made important contacts in the sugar & alcohol, pulp & paper industries and breweries.



Adriano Teixeira in his FF presentation

New branch of Controlflux in Monterrey



New Controlflux building in Monterrey

Controlflux S.A de C.V. branch has recently inaugurated its subsidiary in Monterrey, Mexico. The company is also present in the Nuevo Leon, Veracruz, Campeche and Tabasco marketplaces, as Smar technical and commercial representative Controlflux has over 17 years of experience and is dedicated to manufacturing, integrating and providing the industry with control equipment. The new Controlflux office in Monterrey will contribute to the company's main goal; to offer control automation solutions and technical support in the southeast zone of Mexico City.



LC700's new configurator for FREE!



SMAR has removed the key requirement for the CONF700 tool and the LC700 OPC server. Now you can get the CONF700 versions and OPC servers for free for all CPUs of the LC700 hybrid controller. With this it is possible for you to prepare configurations, reach updates and etc. via the WEB.

Besides being free, the new CONF700 version 7 includes the features:

- Multilingual support - including Chinese
- Easier ladder diagram configuration which will make it friendlier for system integrators
- Faster "stamping" of ladder elements and drag-'n'-drop allowing engineers to be more productive
- Listing of elements that match a specific search criteria resulting in simpler modifications
- Replace
- The possibility to enter annotation for each ladder element - a document that lets the next person expand/modify and allows him to understand how your logic functions, thus increasing productivity.
- 20 levels of undo - if you are very indecisive
- Direct Modbus register monitoring - easy communication verification and quicker acceptance testing

- Online registration for automatic notification of service packs and free access to resources that will keep you up to date and trouble free.
- Control over Modbus register addressing
- All of the above in addition to the many advantages that are already available in our earlier versions

In addition you have the advantages of LC700:

- Modbus Protocol for easy integration with HMI or higher-level systems
- State of the art Ethernet networking (Modbus/TCP) for integration with modern system architecture
- Simultaneous 3-ports supporting HMI, remote I/O, and local operator panel
- Remote-I/O for great wire savings
- Excellent bumpless redundancy and synchronization for greater availability of backplane, power, CPU, and networking
- OPC server permits choice of any HMI
- Easy and powerful Windows-based graphical configuration tool with online editing
- Complete selection of I/O modules including the most advanced temperature input
- Low-maintenance with no required battery
- A wide range of hot-swap modules with automatic identification, great galvanic isolation, connector keying, and channel tagging
- Process control functions including API liquid flow measurement computing
- Radio or dial-up modem support for SCADA application
- Firmware download

To obtain this free software, go to the LC700 webpage at www.smar.com/products/lc700.asp, or directly to the LC700 page in Smar Labs site <http://www.smarlabs.com/Conf700.aspx>.

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