

Kuwait Oil Company Increases Their Production from Emerson's Integrated Solutions

RESULTS

- Enhanced oil production by enabling workers to access real-time data throughout the field for better decision making
- Minimized production shortfalls and reduced downtime
- Reduced delay time in response to alerts and alarms



APPLICATION

Onshore Oil & Gas production aiming to enhance project consisting of 49 wells, instrumentation, and IT infrastructure

CUSTOMER

Kuwait Oil Company

CHALLENGE

Kuwait Oil Company has a challenging strategy to boost and sustain production at 4 MMBOPD by 2030. This has led to a greater focus on new technologies in order to enhance wells' productivity, reduce well down time and enhance reservoir recovery. Meeting this aggressive target would not be possible without the introduction of new, pioneering technology.

In order to increase recovery and enhance production Kuwait Oil Company needed to create a collaborative decision environment so the automation could provide real-time data availability, and right time decision support information for production optimization and reservoir management.

“Emerson’s technologies have been one of the key components of this project. Their advanced products and systems along with their extensive industry experience make them an ideal automation partner.”

Ahmed Khalid Al Hasmi,
Team Leader – Surface for Research and
Technology at KOC

SOLUTION

The project of 49 wells included the upgrade of the oil field's power and IT infrastructure was executed by Emerson. Emerson's solution included Rosemount™ pressure and temperature instruments along with Roxar multi-phase flow meters that capture real-time wellhead data to give the entire picture of what is happening in the field. ROC800-Series RTUs transmit the data to a nearby gathering center and the OpenEnterprise™ SCADA system receives, controls, and analyzes the data. This data is then integrated to the KOC collaboration center. Emerson's ROC800 and Rosemount instruments were installed along all the ESP wells in order to improve monitoring, diagnostics, and generate automated recommendations for optimum operating condition of the pump.

The wide range of real time information from the wells is used to develop comprehensive workflows by KOC to help speed up their decision making. Users can view real-time alerts, consolidate advisories and assign tasks to relevant departments. This integrated operations approach enables them to effectively monitor and evaluate well performance, analyze reservoirs, avoid losses, and allocate production.

The benefits of the strategy can already be noticed thanks to Emerson's process automation and communication solutions. Enabling the workers to access real-time information and collaborate with other personnel, resulting in timely and effective production decisions.

Emerson's integrated solution brings the problems to the experts and the data to make decisions. Oil & Gas producers gain the ability to collaborate and share information in real time, address issues before they become major problems and maximize their field's productivity.

Global Headquarters

North America and Latin America

Emerson Automation Solutions
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445

Europe

Emerson Automation Solutions
Remote Automation Solutions
Unit 1, Waterfront Business Park
Dudley Road, Brierley Hill
Dudley, UK DY5 1LX
T +44 1384 487200
F +44 1384 487258

Middle East and Africa

Emerson Automation Solutions
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T +971 4 8118100
F +971 4 8865465

Asia Pacific

Emerson Automation Solutions
Remote Automation Solutions
3A International Business Park
#11-10/18, Icon@IBP, Tower B
Singapore 609935
T +65 6777 8211
F +65 6777 0947

www.Emerson.com/RemoteAutomation



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