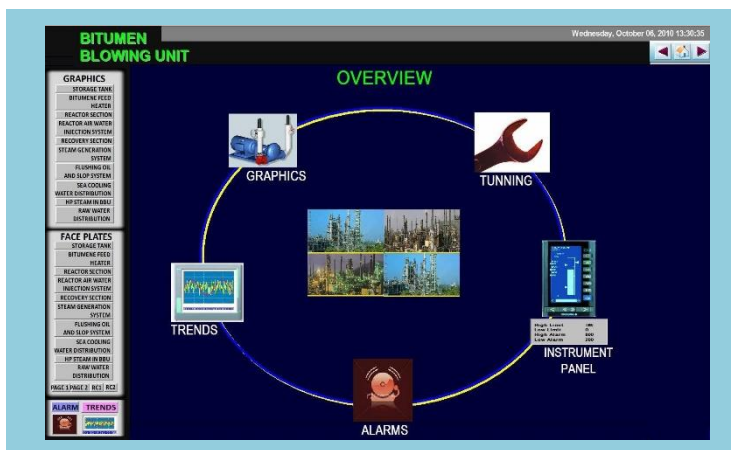




Customer Success Story

Bharat Petroleum Corporation Ltd.
Maharashtra, India.

Oil & Gas Power Plant, Mahul



SCADA Home Screen of the Plant

About BPCL

Bharat Petroleum Corporation Limited (BPCL) is an Indian Government controlled oil and gas company headquartered in Mumbai, Maharashtra. The Corporation operates two large refineries of the country located in Kochi and Mumbai. The company is India's 2nd largest downstream oil company and is ranked 275th on the Fortune list of the world's biggest corporations as of 2019. BPCL ranked 672 in the Forbes 2018 list.

ICONICS Software Deployed

GENESIS32™ Enterprise edition is the SCADA solution in which GraphWorX32, AlarmWorX32, TrendWorX32 All are used in Plant for monitoring and control the System. This is a complete solution deployed with System Integrator “Yokogawa”. From GraphWorX32, operators can see a graphical representation of BBU unit of the plant and operate it.

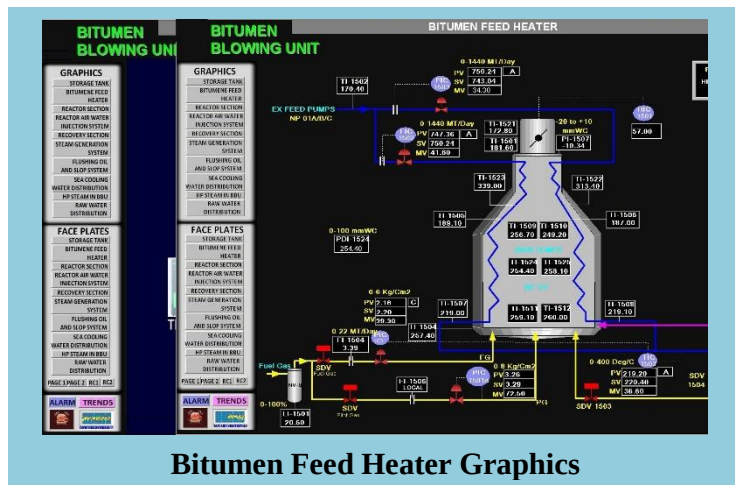
“ICONICS in BPCL for Bitumen Boiler Unit is running since 2010 to monitor and control the plant status. GENESIS32 selected for this project to connect the YOKOGAWA Controllers and recorders to operate BBU unit of the plant and create history of the data”

They are able to control and monitor the plant. AlarmWorX32 is used for all alarms needed attention during the Running Plant. The TrendWorX32 component allows operators to view real time trends of the process at all stages. Data tags can be dragged and dropped into a trending area during runtime for real time trending.

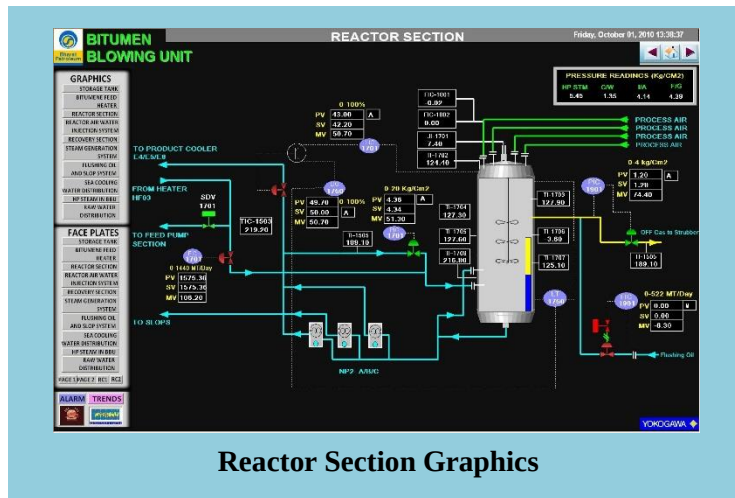
Project Summary

Based on GENESIS32 project was developed to monitor and control the data of Yokogawa YS 170/131/13 (52 no.) Controllers and DX recorders which is installed by system integrator. Controllers are connected in multi-loop and connected with ICONICS SCADA via Modbus OPC Server.





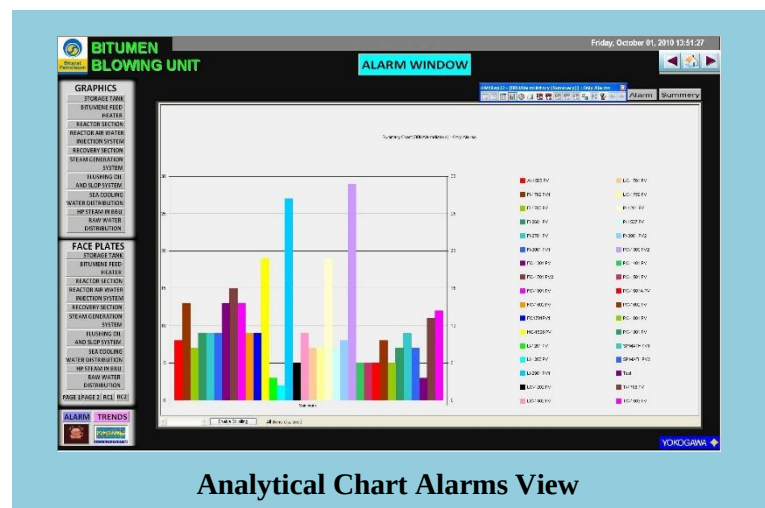
ICONICS GENESIS32 is used for creating Dashboards and monitor the controller's data in Dashboard, generate the real time Alarms for plant alert indication and Historical alarms for records, generate real time and historical trends for visualize controller's data in graphical manner. Also, there are many recorders for recording the all the data of the controllers, using ICONICS we have to connect with that recorder and generate the history in ICONICS software. If we want to change the controller's parameters, we can change that parameters using Scada



This screen shows the STORAGE TANKS Real time data with respected Graphics. The graphics also indicates the real time data of the level in the Reactor Chamber by showing vertical bar with Blue colour as the filled level and yellow showing empty level.

Benefits of the System

Benefit of the system is to visualize, monitor and control the Parameters of YOKOGAWA Controllers. Alarm alerts helps to identify the problems using the Controller's data, Historical Alerts and Trends to analyze the performance of Bitumen Boiler Unit. Trends helps to visualize the data in graphical manner and also TrendWorX generate the history for same data for future use. ICONICS OPC Server is used to expose data to IP21 protocol for further analysis of data by BPCL.



Conclusion

A leading Oil & Gas company of India is pleased with their project of the system as it makes them easy to monitor and control the plant process and planning to upgrade ICONICS into Genesis64 bit technology,

Solutions Highlighted

TrendWorX Logger

Data Logging in SQL, Charting and Reporting Software

GraphWorX

HMI Graphical Display Package

AlarmWorX

Multimedia OPC Alarm Management Software