

# Codub Consulting Ltd & Real Data Management Solutions (RDMS) Ltd Technical Alliance for Implementation of a Computerised Maintenance Management System (CMMS) at Egbin Power Plc – A Case Study

## About Egbin Power PLC

Egbin Power PLC was founded in 1982 and is the largest power generating station in West Africa. The station is located at Egbin, in Ikorodu, Lagos State, Nigeria. It owns and operates a thermal power generating station. After series of negotiations, the Federal Government of Nigeria handed over Egbin Thermal Power Plant to the core investor, a joint venture between Sahara Power Group and Korea Electrical Power Nigeria Limited (KEPCO) on November 1, 2013. KEPCO currently serves as a technical partner to Sahara Power Group, with the goal of overhauling all the units in the plant, while achieving 85% power availability.

The Power Plant has an installed capacity of 1320 MW consisting of 6 Units of 220MW each. Power generated is sent to the National grid by three main transmission lines namely: Ikeja West (330KV) line; Aja (330KV) line and Ikorodu (132KV) lines. The Administrative building is made up of 3 floors while the Plant building is made up of 8 floors and 2 units.



## The Challenges

The Power plant already had a software which was not giving them the desired results. With emphasis on operations and maintenance, the Power Plant wanted an easy-to-use/flexible Computerised Maintenance Management System (CMMS) that would:

- Automate their work flow processes better and reduce paper work
- Identify, verify and automatically email out report cards/Trouble Memos (TM)/Work Orders (WO)
- Trigger emails when jobs are completed
- Spot outstanding and unresolved Work Orders easily
- Document workflow processes properly
- Identify, register, classify and manage asset records
- Manage inventories (calling up materials and classify the department that needs them)
- Provide appropriate management information reports
- Automatically generate and email daily summary reports according to the type of work
- Provide more efficient process control and purchase request handling
- Automate and manage the frequency of periodic Planned Maintenance work
- Be fully web-based to avoid software installation on each computer or laptop



## The Solution

Having carried out a detailed comparison of various top CMMS products in the market including IBM Maximo, **CODUB and RDMS** decided on **Maintenance Connection (MC)** software for the Egbin Power Plant due to the following reasons:

- It is easy to use for the staff and aligns with international best practice in Planned Maintenance & Inventory Management
- It is a web-based product with an interface to handle different tasks that meet a company's helpdesk, maintenance and project management requirements
- It has an extensive usage across various industries including: manufacturing, transportation, oil and gas, facility management, etc.
- There was clarity of implementation process from start to finish
- There was full support throughout the implementation process. For example, the **CODUB's** team were very knowledgeable in MC and they supported the Egbin team every step of the way.

**CODUB and RDMS** carried out a full implementation of the CMMS system to manage over 6,000 assets and 7,000 routine cards as part of the planned maintenance process. Also, the implementation included loading over 20,000 spare parts as part of the inventory management. The implementation took 8 weeks and commenced in September 2015. A full performance review about 6 months after full implementation was also carried out to ensure full use of the solution.

## Post Implementation Benefits

The post implementation benefits can be summarised as follows:

- Reduced paper work
- Higher efficiency of the work force
- Transparency in work flow processes as staff are now made to take responsibility for their actions
- Proper documentation and management of workflow processes
- A more accurate asset register with history of work carried out on each asset
- Complete automation of the work request processes

## About Real Data Management Solutions Ltd.

**Real Data Management Solutions (RDMS) Ltd.** provides quality data management services and a wide range of data related services such as:



- ✓ Data Modelling
- ✓ Data Quality Management
- ✓ Data Analysis
- ✓ Data Migration
- ✓ Business Intelligence

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## About Codub Consulting Ltd.



Codub Consulting was setup in 2002 as a solution provider, providing Management Integrated Solutions that satisfy Engineering Operations and IT requirements in the public and private sectors in the United Kingdom. Our sister company Codub Services Ltd., was founded in Nigeria in 2011 (RC983458) to cater for the African market. Our consultants have over 20 years experience of Enterprise Asset Management including IBM Maximo Enterprise, SAP and Maintenance Connection. We implement PDA-based asset verification surveys & barcoding/RFID solutions and software development services. For more information about our services in Europe, please visit [www.codubconsulting.com](http://www.codubconsulting.com) or [www.codubgroup.com](http://www.codubgroup.com) for the rest of the world. For more on the above case study, contact our Senior Consultant - [sales@codubconsulting.com](mailto:sales@codubconsulting.com)