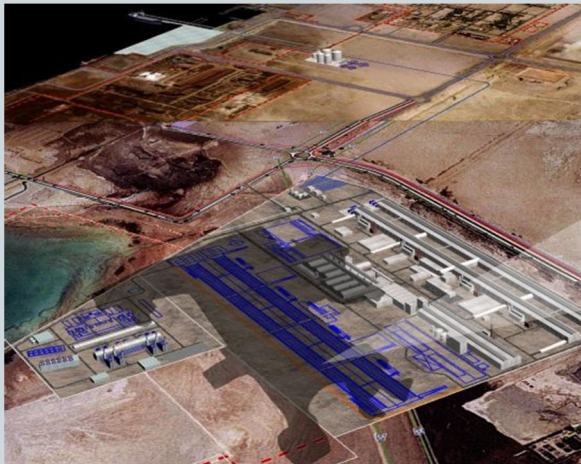


## QATALUM PROJECT BY NORSK HYDRO - MESAIEED, QATAR



## CONSTRUCTION SUPPORT, QA/QC, MECHANICAL COMPLETION, COMMISSIONING AND DOCUMENTATION



Start: 2009 Completion: 2011

### KEY FEATURES

- 585,000 tonnes of Primary Aluminum
- Loading / Unloading Jetty Area for Raw Materials
- Paste Plant and Anode Plant
- Reduction Plant / Potlines / Fume Treatment
- Caste House and Export Network
- Largest Greenfield Smelter Project

### PAN MARITIME SCOPE FOR CONSTRUCTION / MC COMPLETION:

- > *Construction Supervision of the EPC Contractors.*
- > *Mechanical Completion for Main Disciplines.*
- > *Engineering queries and feedback using Eroom.*
- > *MC Software - ProCoSys.*
- > *Punch Listing, Test Records and follow Up.*
- > *Pot Control System Prototype testing; Hardware: Installation, Communication, Interfaces, Integration; Cell Network: Local Pot Control Systems and Operator Interface; CAN Bus and ProfiBus networks with interface to OPC Servers and Process Control Systems.*
- > *Equipment and measurement devices on each cell.*
- > *Preservation, Testing and Handover.*

### PAN MARITIME SCOPE FOR FINAL DOCUMENTATION / INTEGRATION:

- > *Close Out of over 30 Systems, over 150 Packages related to Automation and Electrical Contracts*
- > *Finalize key lists such as Instrument List, Cable List, Equipment List including the status of related As Build documentation per tag.*
- > *Facilitate the Close Out Of Contractor's Packages.*
- > *Facilitate the handover of key documentation to Operations.*
- > *Facilitate the HVAC integration of the complete facility including configuration, testing and handover.*

**PAN MARITIME PROJECT TEAM OF ENGINEER'S - PIPING,  
MECHANICAL, TELECOMM, AUTOMATION AND EDMS**