Qinghai Salt Lake Industry Group. Co. Ltd
KCL-, Urea-, Acetylene-, PVC-, Methanol-Plants

Customer
Qinghai Salt Lake Industry Group. Co. Ltd
- Largest KCL fertilizer and salt chemical Company in China
- Owned the richest salt resource in the world: Salt Lake inland China (Salt storage: 60 billion tons)
- Products: KCL, Urea, Acetylene, PVC, methanol, etc.
- Invest 2.3 billion RMB in Salt chemical industry in 2007

Project
Turn-key project
- DCS+ESD
- Request of fully high availability e.g.: redundant controller, system bus, I/O bus, I/O modules
- Commissioning: beginning of 2008
- Engineering: Siemens Industry automation Ltd, Shanghai (SIAS)

Chemical and power Plants
- Ammonia/Urea plant
- Potassium carbonate plant
- Acetylene plant
- Power plant
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Scope of Supply PCS 7

- PCS 7: 17 x High available Controllers (H-CPU)
- 5 AS (FH)
- I/O: 21,000 (1300 Failsafe)
- 30 OS
- 4 ES
- 4 OS-servers

Decision for Siemens

- Best Safety Integrated Solution
- Best System for Process Safety
- Competitive price
- Good relationships with customers
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Customer Benefits

Best Safety Integrated Solution

- Common Hardware and Software for both safety and standard, reducing of warehouse and logistics costs
- Time and cost savings during engineering, commissioning and operation by using the same engineering and diagnostic tools
- No additional training needed for different systems

Best Process Safety System  PCS 7 with S7-F/-FH

- Offer the best solutions for all SIL 1 - SIL3, with scalability, availability and reliability with the Flexible Modular Redundancy concept
- Engineering-tool ease of use with the Safety-Matrix
- Best support for the Lifecycle Management
System Architecture: Ammonia & Urea Plants
System Architecture: Potassium Carbon Plants
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System Architecture: Acetylene Plant
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System Architecture: Power Plant
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