IndustrialIT Integrated Electrification Projects

Creating value by executing Integrated Electrical Projects for the Oil, Gas and Petrochemical Industries

IndustrialIT for Integrated Electrical Systems provides all relevant information by a click with the mouse.
Lead Competence Center, Electrification

All of ABB’s advances in power and automation come together for your benefit at the Lead Competence Center, Electrification (LCC Electrification) for the oil, gas and petrochemical industries. With a global perspective and the full range of Industrial IT products and services to draw upon, LCC Electrification delivers savings of 15 to 25% on power and automation projects.

ABB’s power and automation products and services are renowned for their dependability, availability and functionality. And they’re part of the Industrial IT suite, creating comprehensive plug and play solutions for electrification projects.

ABB executes projects with:
- A single point of contact
- Integrated standards, spare parts, warranty, documentation, training, and services
- Risk offloading
- A life cycle approach
- Complete range of electrical deliverables
- Standardized and seamless system interfaces
- Ease of operations and maintenance
- Reduced spare parts and training costs

The higher levels in the triangle reflect increasing benefits with regards to capital and operational expenditures. Your savings may reach 15 to 25% when you rely on ABB for your entire project rather than purchasing from various vendors.

ABB shares your risks and assumes responsibility as a single point of contact for defined activities and deliverables.

What it means to you

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<th>Process</th>
<th>Mechanical</th>
<th>Civil</th>
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<tbody>
<tr>
<td>Electrical</td>
<td>Instrument</td>
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<tr>
<td>FEED: Engineering &amp; Construction</td>
<td>Installation &amp; Commissioning</td>
<td>Operations &amp; Maintenance</td>
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Resources and Capabilities

LCC Electrification is staffed with experienced cross-functional teams who take global responsibility over integrated electrification projects for the oil, gas and petrochemical industries, and coordinate commercial and technical activities.

All factories are ISO 9001 certified and 97% are ISO 14001 certified and have established an Occupational Health and Safety system in accordance with OHSAS 18001 requirements.

Project Execution

We execute worldwide power and automation projects and deliver services throughout the investment life cycle:
- Administration and procurement, with control and reporting to fulfill your quality assurance requirements
- Basic engineering, with philosophies, layout, and functional specifications
- Detailed engineering, with design specifications, studies, analyses and calculations, cabling, utilities and testing
- Installation and commissioning, with complete documentation and training
- Support during operations

Deliverables

Our solutions are well-proven, and our extensive experience encompasses upstream, midstream and downstream businesses. We know what you need to run world-class petroleum plants and we’ve incorporated that knowledge into Industrial IT hardware and software:
- Generators
- HV, MV, and LV switchgear motors and drives and control centers
- Power distribution control systems
- Power and distribution transformers
- Distribution boards, Ex and non-Ex
- UPS, batteries, filters and accessories
- Cables, trays & trenches
- Prefabricated power houses with utilities

Our software solutions - developed during decades of experience in the oil and gas industries - give you full control of energy use and power distribution:
- Industrial IT Energy Optimization System
- Industrial IT Environmental Management System
- Generator control and synchronization
- Network configuration and determination
- Power control (active, reactive)
- Breaker control (HV, MV, LV)
- Load shedding, Black starting and re-acceleration
- Tap changer control