ABB Edge™ helps ensure agile, intelligent execution of automation projects for oil, gas and chemical companies. It fully integrates electrical, process, instrumentation, safety and telecommunications systems to streamline project implementation, increase predictability for automation costs, and reduce scheduling and delay risks.

**Overview**
Large, complex projects in oil, gas and chemical industries often include delays, cost increases and inefficiencies. In fact, 64 percent of projects have budget overruns and 73 percent of projects go through scheduling delays.* A new approach to project execution is needed.

ABB Edge resets expectations for how projects can be executed by combining the ABB portfolio of world-class solutions with a proven execution model (Figure 1). ABB Edge provides an integrated project delivery approach that drastically shortens time to project completion and ensures faster startups with fewer issues (Figure 2).

**Benefits**
- Reduces overall project costs
- Eliminates need to have contractors for each product
- Shortens and minimizes risk to project schedule
- Completes tasks in parallel to increase project flow flexibility
- Accommodates late-stage changes

**ABB differentiators**
- Global project capabilities: only supplier that can engage as a fully integrated MAC/MEC, telecom and safety contractor
- Credibility: 30 years of project innovation experience
- Reputation: ABB stands by customers no matter what
- World's most flexible I/O solutions
- Global, standardized use of smart engineering tools
- Enable customers to operate to the edge of their production capacity
- Designed with the end user in mind
- Helps ensure extended life cycle support

ABB Edge Project Execution
Intelligent, agile project delivery

Features

Broadest I/O portfolio in the industry
- Flexible I/O solutions:
  - Reduces field wiring and signal conditioning modules and dependencies between hardware and software engineering
  - Expedites commissioning
- Types include:
  - Traditional I/O for expansions or projects with known I/O
  - Remote I/O reduces marshaling
  - Smart I/O reduces hardwiring significantly
  - Mixed solutions for cost optimization

Secure, cloud-based workbench
- Allows all project execution groups to access standard designs, methodologies and engineering workflows and support tools
- Facilitates distributed engineering, allowing all project personnel to work from a single database and set of common, standardized designs
- Allows for testing to be conducted off-site
- Paves the way for “virtual commissioning” using process models, which results in less on-site changes and modifications during commissioning

Automated data management
- Removes human error
- Converts data from a large number of sources into a common data format for engineering purposes
- Auto-generates application software
- Stores multiple revisions of design data from multiple data entry modules in the database
- Shortens time needed to transfer data, documents and approvals
- Handles all aspects of managing and engineering the integration of third-party sub-systems

Standardization
- Includes standard design templates to avoid the additional cost and time of technical clarifications, drawing approval cycle and factory acceptance testing
- Templates available globally and integrate seamlessly with engineering support tools across all phases

ABB Collaborative Operations
ABB Edge is the foundation of our integrated operations and digitalization strategy, ABB Collaborative Operations. Once your project is complete, you can continue to ensure an extended life cycle for your equipment through:
- Intelligent Services: a local partner backed by global support that provides customized local support services based on customer needs
- Intelligent Applications: software solutions and system components that improve efficiencies and optimize performance across the enterprise

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