

# DOING THINGS DIFFERENTLY

## Emerson Process Management explain how its Integrated Project Execution is helping companies to efficiently and effectively deliver projects by leveraging knowledge, experience and technology

In a landscape of increasing technical complexity and fewer experienced resources, process industries are challenged to successfully execute projects. The impacts of missed deadlines, inaccurate budgeting and down-time can quickly add-up to millions of pounds in additional expense and lost revenue.

Emerson assists users to develop a strategic vision for their project investment, and to identify opportunities for automation technology to reduce risk to schedules and budgets, as well as to enable operations that are safer, more reliable, efficient and profitable.

By engaging Emerson early, companies can invest properly at the beginning of a project to minimise project risk, lower costs and drive faster implementations. A proven planning and front end engineering design process helps project teams define the right scope of work and achieve predictable project results. Dedicated experts with extensive, global experience ensure accurate estimation upfront, reduce re-work and mitigate the risk of late design changes.

An example of this can be found at Royal Dutch Shell, which is adding a series of well pads and a central processing facility in Northern Canada. Shell engaged Emerson six months before front end engineering and design (FEED) began,

resulting in a streamlined plan for project execution. These efforts are allowing the team to shift a significant amount of planned project work to modules that can be completed off-site. "Everything we can put back in the mod yard is a big saving," said Rusty Barras of Royal Dutch Shell, noting the short summers and high wages at the production site.

During the recent construction of a state of the art biopharma facility in south east Asia, the drug maker had an eight month window to advance from the functional specification its own engineers had completed to a fully realised automation system design. "We brought Emerson on board early, and were able to take advantage of their process expertise and their understanding of their systems," said the automation specialist responsible for the plant design. "And when we needed to move quickly, Emerson ramped up people in multiple locations around the world." Indeed, as many as 65 people from ten locations in Europe, Asia and the Americas were engaged on the project.

### SIMPLIFY, STANDARDISE, STREAMLINE

With the flexibility to accommodate design changes, proven technologies can have a dramatic, positive impact on project cost and schedules, while contributing to more efficient and flexible

Below: Emerson assists users to develop a strategic vision for their project investment

ongoing operations. Emerson's DeltaV Virtual Studio – an integrated virtual environment – offers easy creation and upgrades of a control system during operation, using templates to reduce configuration errors and time spent setting-up IT infrastructure.

Electronic marshalling allows seamless addition of I/O anywhere in the plant. CHARMS technology permits field wiring of any signal type to be terminated anywhere, decoupling design from I/O infrastructure. AMS Suite's bulk commissioning for HART and FOUNDATION fieldbus devices lets users simultaneously apply features, options and alerts to multiple devices, in a fraction of the time.

Wireless makes added insights viable and provides installed instrument cost savings. In a growing number of projects users are including a WirelessHART-based instrument network infrastructure from the very beginning. Further, a Wi-Fi-based wireless plant network for enabling Mobile Worker applications can make for much faster instrument commissioning and loop checking during a project's final stages, effectively doubling the productivity of field technicians.

### SERVICE THAT TRANSCENDS

No matter the size or scope of a project, Emerson's Integrated Project Execution has a solution to streamline project management from the earliest planning stages through to implementation and ongoing support, delivering projects on time and within budget.

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A project is considered to have failed if the schedule slips or the project overspends by more than 25%, the execution time is 50% longer, or there are severe and continuing operational problems into the second year of the project.

—Speed Kills, Klaver, Ali.  
 2012 Project Manager Magazine