



MOD to Industrial^{IT}: An Evolution to Greater Capacity for CNIM

Evolution of MOD 300 systems to Industrial IT allowed this industry leader's control systems to keep pace with their increased capacity

Client: CNIM
Location: France
Scope of Work: Upgrade of MOD control systems to Industrial IT

“Operate IT enables better visualization of information and allows us to optimize our process. The ability to view multiple windows at one time enables us to see more elements in the process and allows for a faster reaction time on any given problem. Alarms can be managed more rapidly.”

Gilles Cappadoro
Technical Manager
CNIM



CNIM began controlling their waste recycling/power generating systems with ABB's MOD 30 systems nearly twenty years ago. A decade later they saw advantages to staying with ABB, so they upgraded to the then state-of-the-art MOD 300 control systems. In their most recent upgrade, they again selected ABB, this time evolving their existing DCS to Industrial IT.

Industrial IT has enabled CNIM to shorten training time, reduce the time it takes to make a decision, conform to governing standards, optimize engineering processes and a host of other advantages that help them maintain their leadership position in European markets.

Background

Environmentally-conscience CNIM leads the French and European markets in building ready-to-use waste-recycling factories.

CNIM started controlling those waste-recycling processes with ABB MOD single loop control 30 systems in the 1980's. A decade later, they began evolving the MOD 30's to then state-of-the-art MOD 300 distributed control systems. MOD 300 systems were installed in the Toulon region of France, in the Paris area, and in England.

The Solution

Technical Manager, Gilles Cappadoro, discusses CNIM's recent upgrade of their MOD 300 systems to ABB's Industrial IT technology: “We had a real need to increase capacity, so we upgraded our systems to improve their performance.

“Additionally, we needed to improve the interface of the system with our operators and to utilize new equipment and technologies. The new system significantly improved our main interfacing of the system with our operators. It runs on Windows, which opened many important possibilities with different operators and offered us a more user-friendly environment for the programmers.”



In their Thiverval-Grignon, France, facility, CNIM conducted their system migration in two phases: the first was to upgrade the controller to the AC 460. This upgrade allows CNIM to raise the treatment capacity and to conform to European regulations by adding the steam treatment equipment. Because 100% of the control logic can be revised, most of the field wiring remained in place, this upgrade took only eight hours. Afterward, CNIM was able to re-start without a problem.

Optimizing Plant Asset Availability and Performance

The second phase was the migration to Operate IT. Cappadoro again: "The migration of the system to Operate IT allows for a better visualization of information and allows us to optimize our process. It was easy for the operators to progressively adapt to the new system."

User-Friendly Environment

"One goal of this migration was to improve the operating interface and the system, using Windows technology" Cappadoro continued. "The ability to have multiple views open at any time completely responds to that demand. The navigation system is more user-friendly for the operators and programmers."

"As a user of this system I can say it gave us a significant improvement from the previous system because of the user-friendly environment."

Reduced Time to Decision and Action

Operate IT's ability to view multiple windows at one time is also proving to be very beneficial to their control system users. "We can view multiple windows at one time. It enables us to see more elements in the process and allows for a faster reaction time for the operators on any given problem. The alarms can be managed more rapidly" Cappadoro told us.

Engineering for Maximum Performance

CNIM's feedback on their enhanced engineering abilities was also very positive. "Our ability to upgrade and convert existing applications, thanks to the new, improved tools that are at our disposal with the new system allow for a better, more user-friendly programming environment, allow us to deal with interventions rapidly and allow us to more easily modify the elements of the system."



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Why Choose ABB?

- Investment Enhancement through Evolution
- Reduced Time to Decision and Action
- A User-Friendly Operating Environment
- Engineering for Maximum Performance
- Optimizing Plant Asset Availability and Performance

"With the new systems, less time is spent on new programming. We were able to gain an enormous amount of time, including a good amount of time in the testing stage - because we could "sample test," and it was not necessary to re-test all of the installations."

ABB Services

True teamwork between ABB Services and CNIM's service group was an essential element of success. Cappadoro again: "The main collaboration points between ABB and CNIM are the technical support and especially the training aspects provided by ABB on the products during the migration. It worked very well. This collaboration is useful for the effective working of this operation. We need the capacity of ABB in terms of systems knowledge and procedures."

Investment Enhancement through Evolution to Industrial IT

ABB control system users all over the world improve performance and lower life cycle costs by building upon their existing ABB systems. Add the technological advances of ABB's Industrial IT offerings to get even more return from the systems you have.

ABB is dedicated to preserving the process security and value of your control system investment. We provide the industry's most comprehensive system life cycle and evolution programs to enhance your overall functionality and productivity, along with superior ongoing product support and service to keep your system operating at peak performance levels.

For more information on evolution of ABB open control systems, either call us at: 1.800.HELP.365, or at: 1.440.585.7804, option #5, or log on to: www.abb.com/controlsystems.

For more information on how ABB's Industrial IT technology can be employed to solve your power generation control issues, visit us at: www.abb.com/powergeneration.