



LNG PEAK SHAVING AUTOMATION SERVICES

For over 40 years, Matrix PDM has been providing automation system integration for LNG processes, including liquefaction, boil-off gas compression, and control, vaporization, tank foundation heating, truck loading/unloading, dehydration, treating, hazard detection and mitigation, tank gauging, and LTD, flare, gas chromatography, and custody transfer metering.

Matrix PDM Engineering automation experts design, program, and commission industrial control projects utilizing industry-standard solutions developed through more than 40 years of experience.

A HIGHER STANDARD IN ENGINEERING



PRACTICAL AND EFFECTIVE UPGRADE SOLUTIONS

As a Rockwell Solutions Partner, our automation experts are well-versed on this platform, and can also provide support for Delta V, Moore Products, Bailey, GE Fanuc, WDPF, and relay-based control systems.



**Solution
Partner**

A ROCKWELL AUTOMATION PARTNER

Control system upgrades give the operator a modern control system interface and configuration tool, which reduces complexity, improves the availability of support, provides better human factors conditions for operators, and in some cases eliminates significant license maintenance fees. Sometimes these upgrades replace relay logic control systems, which represent some of the most difficult maintenance challenges, and can replace fully pneumatic control systems, which can be even more difficult to maintain than relays. Code compliance, enhanced safety, and enhanced data availability are all additional benefits of control system upgrades.

KEY ADVANTAGES OF MATRIX PROJECT IMPLEMENTATION

- Modern control systems have several advantages over aged platforms:
 - Readily available in stock control system components
 - The breadth of support from a greater variety of talent
 - Increased reliability with modern hardware and software designed to work in lockstep with current Windows OS Lifecycles
 - Increased capabilities for connectivity to a variety of systems from skid package to SCADA to enterprise
 - Control system upgrades sized to allow Integration of future expansions

- ISA 101 philosophy:
 - High-performance graphics with standardized layout and color
 - Alarm rationalization and management
 - Characterized HMI performance consistency (can potentially solve existing system functional issues)
- Additional benefits through control system upgrades:
 - Enterprise-wide format standardization
 - Mobile device and remote access capabilities
 - Enterprise resource planning integration
 - Wider potential of data, control, SCADA, and diagnostic integration
 - Enhanced data logging, analytics, and reporting of:
 - Maintenance data
 - Key Performance Indicator (KPI)
 - Overall Equipment Effectiveness (OEE)
 - Energy balance equations
 - Order data retrieval
 - Accounting integration
 - Material genealogy and traceability
 - Alarm statistics and bad-actor resolution

Matrix PDM subject matter experts in process, I&C, tank, and project engineering augment our automation expertise by adding their rich experience, supporting projects directly through oversight, and imparting their knowledge to develop the next generation of Matrix PDM multidiscipline LNG experts.



**MATRIX PDM
ENGINEERING**

For more information
please contact

866 367 6879
matrixpdm.com

