



Modernizing Legacy GE — Control Systems —

Preserve wiring, logic, and plant infrastructure.

GE 90-30 | GE-70 | RX7i



Modern **PACSystems**



Still Running Legacy GE Controllers?

Many manufacturing plants, utilities, and public infrastructure facilities still rely on legacy GE control systems that were installed decades ago and continue to run critical processes every day.



*Many of these systems still run.
Planning around them gets harder over time.*

Planning a migration before a failure occurs allows facilities to control timing, reduce disruption, and avoid **emergency** replacements

Why Facilities Begin Planning Migration

- Spare parts are becoming scarce
- Fewer engineers are familiar with Series 90 systems
- Difficult integration with modern HMI, SCADA, and data systems
- Legacy control networks limit access to operational data

Modernize Without Rebuilding the Entire System

TAG Solutions helps facilities modernize legacy GE control systems with a migration strategy built to reduce disruption, preserve working infrastructure, and lower project risk.

Why TAG's Migration Approach Reduces Risk

- **Preserve existing ladder logic** to avoid costly program rewrites
- **Reuse existing wiring** and compatible I/O to minimize cabinet changes
- **Limit downtime to 3–6 weeks**
- **Support software migration to PACSystems RX3i** to reduce conversion effort
- Execute migrations with experienced GE platform engineers.



Risk-Managed PLC Migration Process

RX3i

Assess



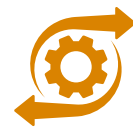
Review the installed system, documentation, and operational risks.

Define



Develop the migration path, cutover plan, and project scope.

Execute



Implement during the planned outage window, validate functionality, and confirm stable operation.

Executed by Engineers with **60+ Years of Combined GE PLC Experience**

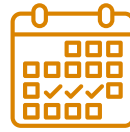
Deep Knowledge of GE 90-30, 90-70, RX7i, and legacy architectures enables disciplined, low-risk migrations.

Why Facilities Trust TAG for GE PLC Migrations



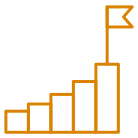
Proven GE Platform Expertise

Deep familiarity with Series 90, RX7i, and related legacy control architectures.



Shutdown-Aligned Execution

Projects planned around outages, turnarounds, and production constraints.



Phased Migration Planning

Migration paths built to reduce disruption and support staged investment.



Preservation-First Approach

Focus on reusing working infrastructure, wiring, and logic where practical.



Integrated Engineering Support

Controls, networking, SCADA, and electrical expertise under one team.



Lifecycle Training & Support

Post-migration training and ongoing system support for your team.



Proven Migration Results

A conveyor belt manufacturer required migration from legacy GE 90-30 and 90-70 PLC systems.

- Competitor estimate: **4 months downtime**
- TAG Solutions execution: **6 weeks total downtime**

This was achieved by preserving existing control logic and leveraging deep GE platform expertise.

[Learn more at tagsolutions.io/emerson-plc-migrations](https://tagsolutions.io/emerson-plc-migrations)

GE PLC Lifecycle Risk Assessment

As control systems age, modernization becomes increasingly complex and risky. This assessment helps evaluate system risk, migration complexity, and readiness for modernization with guidance from TAG Solutions experts.

Rate each statement from 1-5

(1 = strongly disagree | 5 = strongly agree)

Platform Lifecycle Risk

1. _____ Replacement modules for our PLC racks are easy to source within 48 hours.
2. _____ At least two engineers on staff are comfortable troubleshooting Series 90 logic.
3. _____ We maintain complete backups of all PLC programs and configurations.
4. _____ Our control cabinets have available space and wiring documentation for upgrades.

Operational Continuity Risk

5. _____ We could replace our main PLC without stopping production longer than one shift.
6. _____ Our facility could tolerate a multi-day PLC outage without major production loss.
7. _____ We have tested disaster recovery procedures for controller failure.

Modernization Readiness

8. _____ Our control systems are integrated with modern SCADA or plant data systems.
9. _____ Our OT network is Ethernet-based rather than legacy fieldbus architecture.
10. _____ Our facility has a defined plan for migrating legacy PLC systems within 5 years.

Score Your System

TOTAL SCORE: _____ / 50

40 - 50

Well Managed

Control system lifecycle appears stable. Modernization planning may still improve long-term support.

25 - 39

Risk Increasing

Parts availability, expertise, or integration limitations may begin impacting operations.

10 - 24

Operational Risk

Legacy control infrastructure may be vulnerable to downtime or support challenges.

Next Step: Migration Strategy Review

Schedule a migration strategy review: tagsolutions.io/emerson-plc-migrations