



Achieving the fastest Control System is critical to being competitive in the power industry today. Existing Control Systems coupled to gas turbines typically lack three main features: speed, spares and space. To overcome this, Power Plant owners are driven to modernize.

Ansaldo Energia offers new functional upgrades that can be implemented during modernization, bringing the new software to the latest state-of-the-art standard, providing competitiveness and cost reducing effectiveness to the power plant. Doing that, Ansaldo Energia manages the functional aspects involved in a control system migration, providing real time simulators for functional pre-testing of software before on site implementation.

How You Benefit

This package is applicable to all Ansaldo Energia and SGT/V-series gas turbine models controlled by any third party Control System.

The Control System Upgrade is a retrofitable package that can also be applied during a planned maintenance saving resources, time and money.

CUSTOMER BENEFITS

- Improved plant profitability and competitiveness
 - New operating modes
 - New hardware
 - New communication protocols
- Increased availability due to obsolescence reduction
 - Fast regulation tasks
 - Fast processors cycle times
 - New I/O's available
 - Reduced processor number & size

TECHNICAL ADVANTAGES

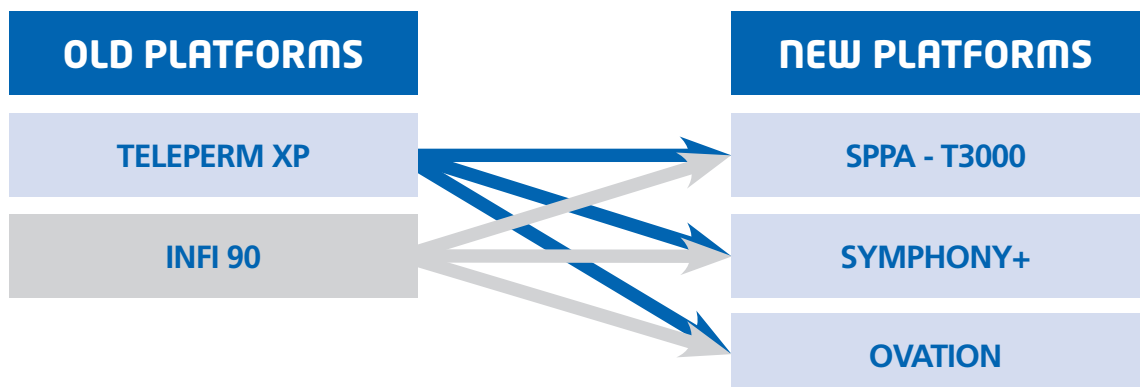
- Cabinet replacement
- Updated Communication Protocol
- I/O Improvement
- Add on of new functionalities

Technical Specifications

Ansaldo Energia has developed, successfully tested and installed gas turbine Control System based on the latest platforms provided by the main industry producers.

The new Control System can be engineered and tailored according to customer needs.

Ansaldo Energia has developed a tailored package based on existing Control Systems for the migration to the new platforms.





Feasibility study

A proper analysis of the existing power plant and control system is performed using data collected by the engineers as well as site surveys in order to identify the best tailor-made solution for the Customer. During this phase new hardware (burners, IGVs, fuel conversion and upgrade components) and software upgrades (TILS, Tuning4Seasons) can be discussed and included in the engineering of the new control system.

Engineering

Once the power plant need has been identified, hardware and software engineering is performed jointly with the control system producer. Starting with Ansaldo Energia's standard reference plan available for any GT model and control system type, the software is adapted to the power plant need, using reverse engineering from the old one and adding all the new features required. The new software will then be functionally tested in our laboratories, coupling it to gas turbine emulators and real time simulators.

On site activities

All the site activities can be successfully performed in parallel with a mechanical (major) outage. No extra time is required for the modernization activities.

For more information and to reach our sales Team, please go to www.ansaldoenergia.com

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