

Upgrades

Our engineers continuously develop new solutions to bring our customer's current system to a higher state of efficiency and reliability. Upgrading is proposed to replace obsolete components with new state-of-the-art releases, at the same time ensuring the continuous operation of the plant or minimizing downtime.

Typical Variable Frequency Drive (VFD) Upgrades generally include:

- replacement of SW, HW and firmware of the automation system and of the drives with the latest generation of components and cards
- integration of diagnostics functions
- HMI upgrade and improvements, installation of data loggers.



CUSTOMER SERVICE AND SUPPORT

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Repairs, Revamping and Upgrades

Repairs and Revamping

Sometimes you need expert advice to repair, overhaul or upgrade your equipment. Not all equipment ages at the same pace. And not all parts do either. Sometimes the root of the problem may not be as evident as it seems and replacing a worn part without examining its impact on the overall performance of the equipment could cause more harm than good. Ansaldo Sistemi Industriali has years of experience in inspecting, repairing, upgrading, trouble-shooting electrical equipment and root cause analysis. We believe in detecting potential problems at an early stage to avoid unscheduled outages and tackling the problem at its root in order to guarantee maximum process uptime. Customers who turn to Ansaldo Sistemi Industriali know they'll get highly qualified technicians and world-class engineering support to tackle plant revampings. This guarantees that customers get the most out of installed equipment in order to meet new needs. Revampings can be as simple as upgrading with state of the art electro-mechanical components, substituting control Hardware and modifying application software and/or installing the latest software release.



However, when your plant requires wider modifications to one or more technological areas, our engineering team can design a solution tailored to your specific requirements. We work closely with our customers evaluating the impact of plant outage and defining a Project Schedule to minimize downtime and reduce relevant costs. In order to ensure full production rate or to comply with our customer's investment plans, a multiphase revamping can be supplied, working around scheduled shutdowns or short maintenance stops. Before work begins we survey the plant, collect records and analyze all performance data and plant parameters. By gaining a deeper understanding of the existing system we protect our customer's investment and can objectively demonstrate plant improvements by comparing



plant operation before and after our intervention. Most frequent typologies of revamping are a combination of the following:

- overhauling, rewinding, and upgrading of dc and ac motors and generators
- design and manufacturing of replacement motors and generators to perfectly fit existing installations
- replacement of old dc and ac drives
- replacement of obsolete controllers with the latest generation of PLC or ARTICS system
- installation of new functions on existing automation platforms
- serial communication with field machinery
- MMI and data loggers replacements
- replacement of the control and drive system of the whole processing line
- upgrade of AC generator excitation systems by replacing analogic AVR's with last generation digital controllers
- upgrade of existing induction motors to variable speed operation.

