

» GIS Modernization



Customer Challenge

Maintaining and upgrading aging high voltage switchgear so that it is safe, reliable and compliant with industry standards and regulations isn't always easy. Spare components can be difficult to find, some are so obsolete that they might be irreplaceable.

AREVA T&D Solution

AREVA T&D Service offers an industrial modernization alternative to buying new HV gas-insulated switchgear that extends equipment life cycles with new components. The GIS life-extension program is an excellent means to avoiding unnecessary GIS replacement.

Based on the age and the state of equipment, AREVA T&D engineers design a GIS modernization program for your switchgear that can extend your total equipment lifetime.

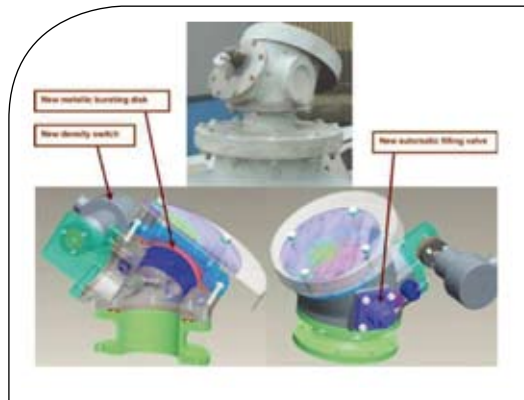
Main Customer Advantages

- > When facing the potential replacement of your GIS, it's often only the major components that need replacing. AREVA T&D's GIS Modernization concept is your most cost-effective, ecological option to extend your equipment's life up to +45 years.
- > The principle advantages of modernization versus replacement are cost and time. The GIS downtime is reduced: the only 'out of service' area is the bay being modernized, if use of a redundant bay permits this technique (to be detailed on a case-by-case basis).
- > Besides upgrading your GIS bay, this type of modernization technique permits your older equipment to benefit from the latest technical evolutions (CB spring mechanisms...), and the possibility to have access to spare parts from our standard manufacturing line.
- > Environmental advantages:
 - By using new components with reduced dimensions, we save SF₆ quantity.
 - By replacing only the components which have to be changed, not the whole GIS, there is less industrial waste.

GIS Modernization examples

Minor modernization:

- > Fitting of latest generation of accessories such as SF₆ density switches, bursting discs...
- > Replacement of porcelain bushings with composite SF₆-air bushings, voltage transformers...



Major modernization:

- > Replacing obsolete components (CB, disconnector...) inside an old substation with new adapted components.

AREVA T&D Service engineers help the customer choose between two alternatives: heavy maintenance on existing equipment or GIS modernization that extends life cycle.



Customer Benefits

- > Life extension of up to 45 years
- > Cost and delivery time reduction: savings of up to - 50% compared to purchasing new equipment
- > Outage duration reduction compared to heavy on-site maintenance
- > Improves equipment reliability
- > Increases performance (equipment in accordance with latest standard)
- > Ecological solution: can reduce SF₆ quantity by up to 30% and you only upgrade what needs to be changed
- > Ensures the safety of your personnel and surrounding equipment by using the latest technology.

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