

arteche

Preventive and corrective maintenance for capacitor banks and harmonic filters



What can affect the performance of my Capacitor Bank or Filter?

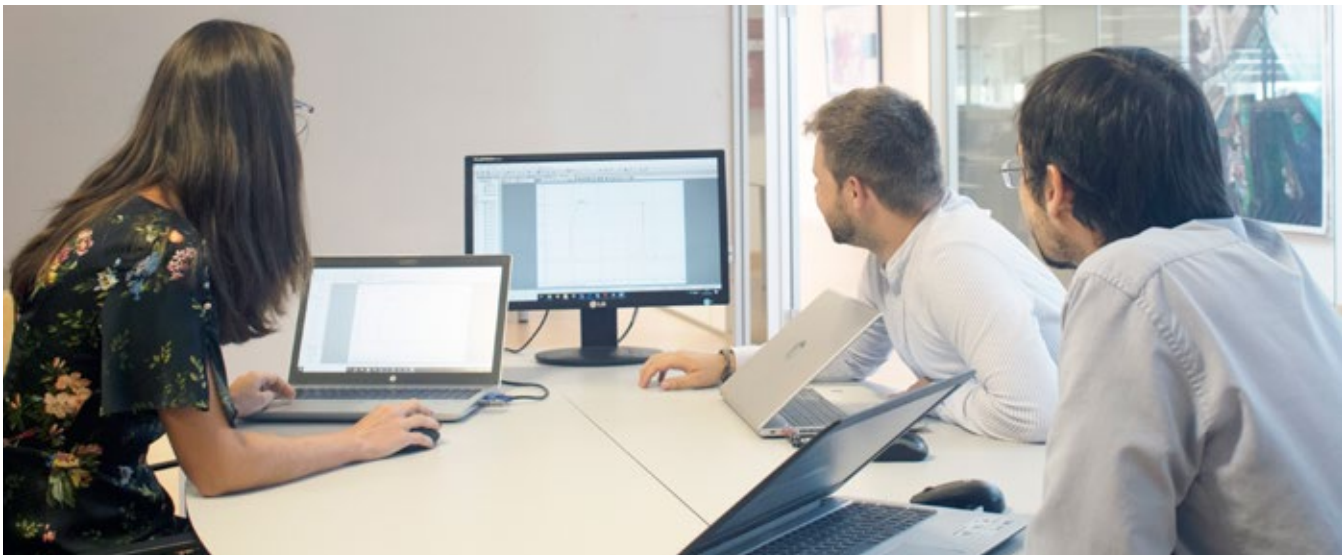
Although the most common reason is wear and tear due to operation and time, there are some other reasons that can affect the performance of the bank or filter, for example:

- › THE EXPANSION OR REDISTRIBUTION OF LOADS AND/OR GENERATION SYSTEMS. These can cause the solution that was installed at the time to be less than optimal for the new situation and require reconditioning.
- › A CHANGE IN LOAD PROFILE can cause your system's control algorithm not to give you the best performance.
- › ABNORMAL GRID OPERATING CONDITIONS can cause premature wear on your equipment, which is why a condition diagnosis during the first few years is highly recommended.

What are the consequences if my solution is not optimised?

The most significant effect is the inability of the solution to provide enough reactive power or filter all harmonics. This makes your system (plant) gradually more vulnerable to utilities' PENALTIES.

In addition, continued operation of the system under abnormal grid conditions can make the system more vulnerable to failure, reducing its life span and potentially causing damage to other parts of the system.



How can ARTECHE help?

ARTECHE has a team of experts in the area of power quality that can offer you corrective and preventive maintenance programs to improve system reliability, service life and avoid replacement costs, including:

- › Visual inspection, cleaning of enclosures and components
- › Checking ventilation systems, wirings, torques, .
- › Inspection and performance verification of all individual elements (capacitors, filters, fuses, disconnectors and switching elements, etc)
- › Verification of correct functioning of control system (lights, alarms, functional tests, ...)
- › Phase balance diagnosis
- › Harmonic and power quality parameter measurements
- › Recommendations for re-sizing or re-tuning the capacitor bank or filter to provide optimal output.
- › Guarantee extensions

ARTECHE provides economic, reliable and efficient solutions which improve your system's global performance.