

Your partner in power quality

Clean power supply for the Water Treatment industry

APPLICATIONS

Pumps High Speed Blowers
UV Systems
Fans

SOURCE OF PROBLEM

Variable speed drives EC motors
AC motors

WHY STABLE POWER SHOULD BE A PRIORITY

- ➔ Meet Industry standards
- ➔ Avoid damages and reduced lifespan of equipment
- ➔ Reduce operational expenses
- ➔ Improve energy efficiency

WATER TREATMENT PLANT, UK



The water treatment plant required a system capable of addressing its elevated energy requirements while ensuring compliance with industry standards. Comsys delivered and installed 480 A PPM modules at 690 V, ensuring a trouble-free and seamless operation.

WASTEWATER LIFT STATION, COLORADO, USA



The Roxborough Lift Station, responsible for pumping wastewater to a treatment plant 14 miles away, needed an upgrade to handle an increasing amount of sewage from the Denver area. Comsys provided a cost-effective solution that aligns with the facility's current usage needs, ensuring compliance with IEEE 519 standards, and enhancing its capacity to accommodate future expansions. The Comsys ADF Filter meets the required IEEE 519, has flexible packaging, and can determine faults online.

SEWAGE TREATMENT PLANT, SWEDEN



After installing 17 new VFD pumps, harmonic distortion in the sewage treatment plant's electrical system surged. To restore the sewage treatment plant to its full capacity, Comsys installed two 800 A Active Dynamic Filters (ADF), managing two transformers of 2160 kVA.

ACTIVE DYNAMIC FILTER

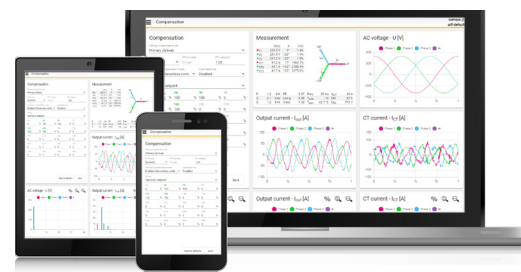
ADF Product Range



ADVANCED POWER CONTROL WITH ADF

Beyond harmonics and reactive compensation, the ADF can be used for flicker control, mitigate harmonics with Sensorless operation, and load balancing. The ADF design is tailored for unique applications requiring special optimization to help meet IEEE 519.

The WEB Based operator interface optimizes power, and the modular design makes it easy and convenient to add future upgrades. The modularity also ensures superior scalability—up to 15 units can be used in parallel. The ADF is compatible with all three phase low voltage applications. Furthermore, the ADF Dashboard, or Web User Interface (WUI), allows control of the entire system via a web browser. By connecting your computer to the ADF system, you can easily access the ADF Dashboard. The ADF Dashboard is provided by a built-in web server and is available with all ADF Products.



ADF DASHBOARD



CONTROL FEATURES

- ▶ Control by HMI, web interface, or field bus protocol
- ▶ Idle mode during low load (Standby)
- ▶ Individual programmable harmonic compensation up to 49th order
- ▶ Only solution with Sensorless Control
- ▶ Up to 15 units can be used in parallel