

Significant energy savings with Emotron high power drives in drinking water pump application

After an investment in Emotron drives, the Turkish municipality of Batman city has reduced its energy consumption by 10%. Replacing softstarters with VFDs and PID control has led to significant energy savings, an improved lifespan of the plant's pumps and motors and a reduction in manual labour.



Local partner replaced softstarters with VFDs



In this project Kontek, part of the Kontek Enerji group, a Turkish partner of CG Drives & Automation, replaced the existing 6x450kW and 3x560kW softstarters with FDU series VFDs.

With this change, starting currents have been reduced and a smooth speed control feature has been made available.

Modular building blocks reducing downtime

The 9 compact Emotron IP54 drives are made up of Power Electronic Building Blocks - PEBBs.

Each PEBB has circuit breaker both supply-side and motor side. This modular structure allows for easy replacement without having to stop the drive.

At Emotron, support is always available all the way from the tender stage to commissioning the drive at your site. Emotron also offers a global service network for all your service requirements.

Extensive partner experience of high power drives

The skilled team at Kontek easily installed this setup at Batman city in less than 6 hours.

Pressure sensors and VFDs in perfect harmony

The PID control takes in information on pressure and flow from external pressure sensors via CanBus communication. Feedback from the sensors are used by the VFD to calculate and determine optimal speed.

This new technology and automated process leads to significant energy savings, and replaces manual valve control and labour costs.





Cabinet build housing Emotron VFDs



The wide Emotron VFD range up to 4MW

Flexible products to fit your cabinets

The Emotron drives are expertly built into cabinets by CG Drives & Automation's Turkish partner Kontek.

In Batman city, local restrictions applied and cabinets had to be tailor made to fit e.g. plant layout and dimensions. The Emotron drive PEBB structure of the drives offered the flexibility required.

Worldwide service network

With a worldwide partner network and remote access solutions, we can offer service contracts to fit your needs. The complete service offer includes:

- ✓ Putting into operation/commissioning
- ✓ 24/7 support
- ✓ Maintenance
- ✓ Security for critical processes
- ✓ Repairs
- ✓ Extended warranty
- ✓ Remote diagnostics
- ✓ Training



We put all our energy into saving yours.



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DEDICATED DRIVE



A CG Product



DEDICATED DRIVE



About CG Drives & Automation Emotron

CG Drives & Automation has developed, manufactured and delivered efficient and reliable motor control equipment for over 40 years under the brand of Emotron. Since 2011 we form a part of CG Power and Industrial Solutions Ltd., a global pioneering leader in the management and application of electrical energy.

At CG Drives & Automation we use our know-how to create technical solutions that fit your requirements, and our personal commitment to make them work in practice.

Simplicity and reliability are keywords applying to our products and solutions, as well as the service and support that our committed professionals provide.

CG Drives & Automation has five core markets with sites in the Nordics, India, Germany, the Netherlands, MEA and a dedicated partner network worldwide.

www.emotron.com



About Kontek

Kontek has been established in 1994 to provide Industrial Automation and Construction Capabilities and energy efficiency solutions (AC Motor Drives).

Conducting turnkey electrical and automation projects in industrial facilities and continuing to provide services as an Electrical Engineering firm, Kontek is among the leading companies in the automation sector as it has become the sole authorized dealer of international brands for their sale in Turkey's product market.

Kontek has become an "Energy Services Company" (ESCO) which contains 5 main operational units within its body such as automation, construction, energy efficiency, solar EPC and operational maintenance by merging with Konar Energy in its 25th year.

Kontek, who has a structure that adapts to digital developments, carries out its domestic undertakings of energy efficiency, contracting and solar energy in every part of Turkey with its professional engineering staff and broad service network as well as its strong procurement channels and understanding of sustainable service and operation. With respect to its undertakings abroad, it opens up to the world not only with its contracting, automation and EPC undertakings in Europe and MENA regions but also with the artificial intelligence-based products that "monitor, analyse and report performance".

<https://kontekenerji.com.tr>