

A Ukrainian company offers a reactive energy compensation system

Summary

Profile type	Company's country	POD reference
Technology offer	Ukraine	TOUA20220725011
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
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General Information

Short summary

A Ukrainian company offers a modern electronic switching system for reactive energy compensation. This system works without a transient process, it is used to compensate for the reactive power of any loads, the time for complete data collection is 3-4 seconds. The benefits of this offer are energy savings, reduced operating costs and a competitive price. Type of cooperation: commercial agreement with technical assistance.

Full description

In the context of a shortage and an increase in the cost of energy resources, an increase in production volumes and urban infrastructure, the problem of energy conservation and, in particular, energy saving, is becoming more and more urgent.

Compensation of reactive power, at the present time, is an important factor allowing to solve the issue of energy saving in almost any enterprise. The Ukrainian enterprise was founded in 2000.

The company offers a full range of works on the creation of guaranteed power supply systems: from the development of the concept and design of the system, to its installation and commissioning, warranty and post-warranty service.

Ukrainian SME is one of the few electrical engineering companies in Ukraine that has its own production base, installation and maintenance service and is a member of an association that unites licensed manufacturers of electrical equipment. Also, the company's quality management system complies with the international standard ISO 9001: 2001.

The reactive energy compensation system offered by SMEs is a modern system designed to replace the electromechanical equipment used in power factor correction systems and includes the following components:

Controller:

It is a full-fledged measuring instrument, with a graphical liquid crystal (LCD) a display that measures all parameters of each network cycle.

Reactors:

The reactors used are of high accuracy in accordance with their specified nominal value.

Capacitors:

Low-loss capacitors (0.25W / kVAr) of MKR type are used in cylindrical aluminum casing.

Switch module:

The switching module includes electronic switching elements, which provide reliable, high-speed, transient-free work. The software displays system status as well as measurement results on multiple screens, running in MS Windows environment. The duration of the recordings is limited only by the size of the hard disk of the computer. The software has Intranet and Internet support.

A Ukrainian company offers cooperation and partnership in the production of electrical equipment, joint implementation of projects for the energy sector. Type of cooperation: commercial agreement with technical assistance.

Advantages and innovations

The proposed system is a power quality solution designed to replace the electromechanical equipment used in power factor correction systems.

The system has the following advantages:

- Saving electricity;
- Reduces the cost of operating and maintaining the power grid;
- Does not damage sensitive electronic equipment in the enterprise;
- Stabilizes the network, reduces losses and increases the throughput of enterprises.
- Dramatically increased life span of switching elements and capacitors.

You can also highlight the following unique features of the system:

- Switching of capacitor groups without a transient process using electronic switching elements;
- Filtration of harmonics;
- Precise control over the power factor, even in the presence of harmonics;
- Lowering the temperature regime of capacitors and inductors due to the unique feature of switching on capacitor banks;
- Built-in 3-phase mains analyzer that measures all mains parameters, including harmonics and storing them
- Unique possibilities of automatic control over the system operation and report on the state of the power grid using the powerful POWERIQ software.

Stage of development

Already on the market

IPR Status

Secret know-how

Sustainable Development goals

• **Goal 7: Affordable and Clean Energy**

Partner Sought

Expected role of the partner

Ukrainian SME wants to cooperate with electricity and power supply companies. The company expects that the cooperation will bring reactive energy compensation systems to international markets. And also SMEs are looking for international companies that are ready to adapt and implement the proposed system in their business. Type of cooperation: commercial agreement with technical assistance.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME 50 - 249**
- **SME 11-49**

Dissemination

Technology keywords

• **02009026 - Energy supply system**

Market keywords

• **06007001 - Other energy production**

Targeted countries

• **World**

Sector groups involved