

Make your electric distribution network **safe**

Increase **security** and **quality** of electric distribution system

Think energy

 **Iskra**[®]
Iskra MIS

From your problems...

Why do you pay **too much** for **bad power quality, insecurity** and **control** of your network?



High energy costs due to bad power quality

Could you **improve** your **power quality** and **save money**?

Your energy costs are **much higher** due to existence of **reactive energy** and **harmonic currents** in your electrical network. **Lower efficiency** affects your **productivity** and harm your **equipment** which results in frequent **breakdowns, instability** and **higher cost** of maintenance. Harmonic currents also reduces **life span** of compensation **capacitors** in compensation device.

Energetic system control

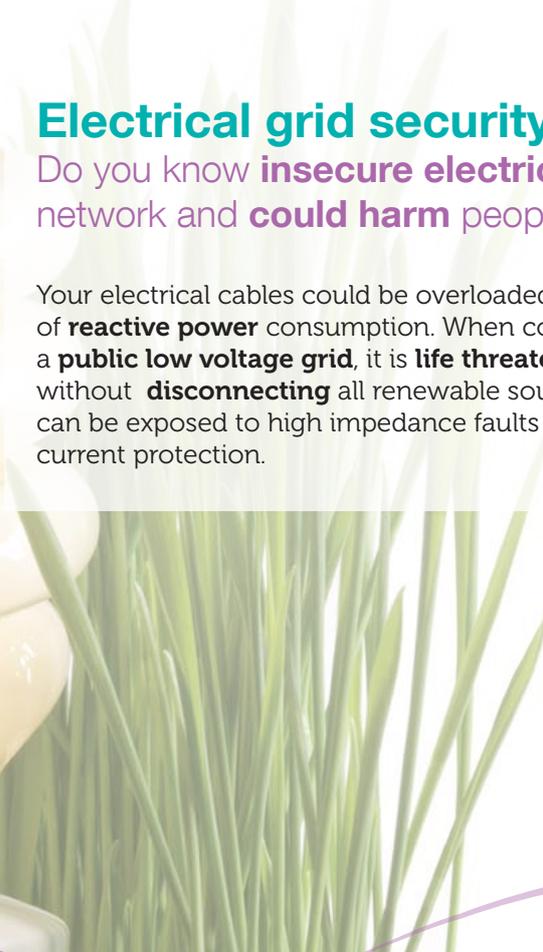
Is it difficult to control your **power sources** and **consumers**?

When you have to **control** different power sources (**sun power, hydro power, wind power**, etc.) or consumers (**plants, buildings**, etc.) which are difficult to access, it is expensive and inefficient without using automation. You have to pay a lot for an unreliable system which doesn't enable you to react in real time.

Electrical grid security

Do you know **insecure electrical grids** cause **damage** to the network and **could harm** people?

Your electrical cables could be overloaded due to **harmonic currents** and high share of **reactive power** consumption. When connecting small **renewable sources** to a **public low voltage grid**, it is **life threatening when maintaining** public grid without **disconnecting** all renewable sources from the grid. Middle voltage grids can be exposed to high impedance faults that can not be detected by classical current protection.



Test your electrical power quality and detect **disturbances** in your **electrical network**.

Use **portable analyzer** to measure **power factor** and existence of **harmonics**, and analyze your consumed electrical power. **Eliminate disturbances** in electrical network and **save money**.

Use measuring system for **monitoring** and **analyzing** your **electrical power quality**.

Install **power quality analyzing system** for monitoring **interruptions**, **breakdowns** and **analysis** of all **power quality parameters**. Send **alarms and notifications** by SMS or by light signals. Don't pay for bad power quality. You can make a complaint about bad power quality to electric utility.



Portable device for network analysis

PNA 760 includes an instrument installed in a practical case with all supported equipment such as flex current clamps for different ranges and simple installation.



MC 760 Network Analyser

A top class instrument used for permanent power quality monitoring. It measures flicker intensity, harmonics, THD, voltage dips, deviations, interruptions and unbalances, overvoltages, frequency deviations and many more measurements of electric utility.



LiSa monitoring and fault detection in electric energy distribution network

Secure and monitor your electric energy distribution network with a system for detection of HIF and transfer of measurements and additional status signals from transformer stations.

Pool or indoor mounting

Especially appropriate for parts of distribution network that is positioned in dry environment with high impedance or on lines equipped with PAS conductors. Permanent monitoring and alarm management in case of faults present added value to secure operation of your network.



Point of common coupling interface

Secure connection of renewable sources and consumers to electric energy distribution network..

Safe and reliable connection of various renewable energy sources (RES) or consumers with different levels of protection, power quality monitoring and event logging.

Different types of sets with all necessary equipment and protections to cover any electric energy distribution requirements. If you are looking for a reliable and cost effective solution for connection of small RES to a low voltage grid, we can help you.

... To our solutions.

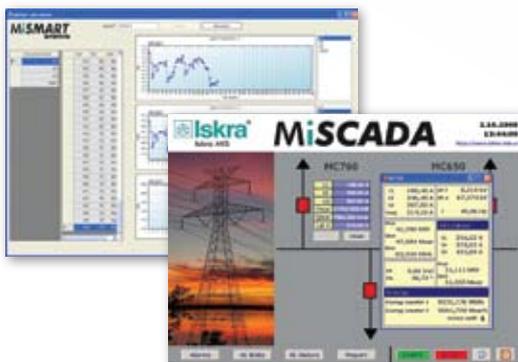
Increase electrical grid security with automatic control and **save money**.



Install compensation device

to improve power quality in your electrical grid.

A compensation device will reduce **reactive power** and filter **harmonic disturbances** in your electrical grid. This will **improve electrical power quality** and **efficiency** of your grid.



MiSmart and MiScada software solutions

Real time or sequence monitoring of any electric energy distribution system.

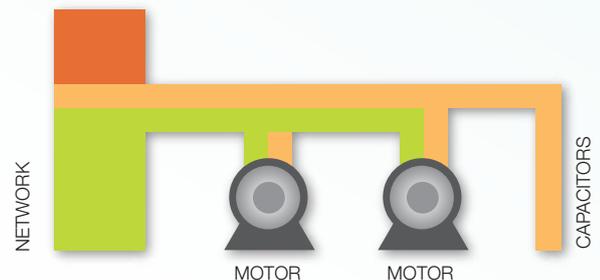
MiSmart software and measuring equipment

With innovative push technology with zero data losses and data transfer in XML or binary form from devices to a server. With the use of standard Ethernet communication and implemented analysis tools it presents a perfect solution for electric utilities, industry and system integrators.

MiScada integration of various devices and customized visualisation presents perfect solution

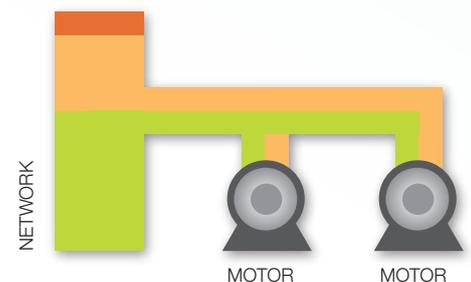
Any integration is possible if you have the existing infrastructure or you are buying a new one with different protocols monitoring and event logging.

WITH COMPENSATION OF REACTIVE ENERGY



WITHOUT COMPENSATION OF REACTIVE ENERGY

- REACTIVE ENERGY
- ACTIVE ENERGY
- RESERVE AVAILABLE ENERGY



Power factor correction systems

Improve your PF

The majority of electrical devices such as asynchronous motors, collective motors of rotation current, transformers, etc. need working power and reactive power for their own operation. This entails additional costs for energy supply and also additional loads on transmission lines and other elements.

Passive and Active Compensation

Such conditions can be improved with compensation of reactive power by fitting a suitable capacitor between the inductive consumer and the generator.

For industrial plants, public institutions or other big consumers of electric energy

We can use individual, group or central compensation according to the needs of our customer.

Every energy system can be optimised **better**.

Iskra MIS is there to help – with solutions for improved measuring and controlling of energy.

Save **money, time and environment**.



Our **solutions** innovate your business.

Together with our experts you can establish an adequate **system of surveillance over the consumption of your energy, forecasts and measurements in real time**, whereas your energy consumption as well as your **expenditures will be significantly lower**.



You will spare your time more efficiently by **innovative and simple use** of Iskra MIS solutions. They enable **automatic remote readings** of all energy data.



Measuring the quality of the electric energy system according to EN 50160 you will be able to **improve the quality** of your **energy system**, and detect your losses and eliminate them more quickly. Maintaining your machines and devices properly will **save you money** and **maintain the environment** for the future generations.



Use our solutions for your **benefits.**

- lower consumption and cost for energy products
- automatic remote readout of consumption of all energy products
- fast energy analysis and forecasts
- supervision of electric energy quality
- simple and low-cost system installation, integration and introduction
- decrease of costs by informing a user in real time and possibility for immediate action
- faster correction of failures by means of analysis and location of failure in network
- inspection of consumption and detection of losses in network together with the possibility of eliminating reasons for losses

Make the **smart** move.
Contact us.

