

Solution Overview & System Components

Solution Overview and Basic Benefits

This solution provides all necessary means for equipping your factory or business to have all relevant energy related data always centrally available for monitoring as well as for basic data analysis. Energy related data can now always be available at the tip of your hands. The solution can assure some crucial advantages in your company such as:

- constant electric energy monitoring at different sites within the company
- constant gas/water consumption monitoring at different sites within the company
- control over power consumption and losses within the company
- more reliable operation as well as equipment maintenance
- better equipment investment planning based on historic consumption and PQ data
- electrical power quality data monitoring
- better control over all installed equipment...

System Components

Measuring equipment:

- compatible with all ISKRA instruments (energy meters, measuring centers, data loggers for equipping existing gas/water/electricity meters)
- also supports third party instruments/meters with MODBUS or pulse output interface
- periodic energy consumption monitoring or monitoring of up to 128 electrical measurement with 1 to 60 minute resolution
- up to 32 programmable alarms
- input/output digital or analog module options
- power quality anomalies and reports according to EN50160
- all instruments support MODBUS (serial or TCP/IP) or pulse inputs (data loggers)

Communication equipment:

- the solution can take advantage of all existing communication infrastructure to minimize costs (LAN, cellular network, serial network, ...)
- remote water/gas/electricity consumption data can be provided from remote locations equipped with data logger communicators communicating over SMS/GPRS/LPR

Software:

- **MiQEN 2.1 configuration studio SW**
 - setting up instruments locally or remotely
 - particular device local or remote monitoring of historic values for measurements (e.g. energy), alarms and PQ data
 - particular device local or remote basic data analysis
- **MiSMART system SW**
 - 3-tier web based system infrastructure for complete system data & operation monitoring
 - centralized database where all configured instrument data is available
 - can be installed on a company local server or in the cloud
 - complete system monitoring statistical evaluation for historic measurements, alarms and PQ data within the Data Monitor module
 - system settings are done through the Configuration Tool module
 - multiple data export capabilities for further data processing in other systems (PQDIF, Excel)

Published by Iskra Sistemi, d. d. • Version 1.0, February 2014 • design Nimbus d.o.o.



Iskra Sistemi, d. d.
Stegne 21
SI-1000 Ljubljana, Slovenia

Phone.: +386 (0) 1 51 31 000
Fax: +386 (0) 1 51 11 532
www.iskrasistemi.si



Site Energy Monitoring Solution

- constant electric energy monitoring at different sites within the company
- constant gas/water consumption monitoring at different sites within the company
- control over power consumption and losses within the company
- more reliable operation as well as equipment maintenance
- better equipment investment planning based on historic consumption and PQ data
- electrical power quality data monitoring
- better control over all installed equipment...

Energy sector



Solution

Solution

