



## Building up the largest ICG meter data management system in Europe

**Landis+Gyr is working with the Czech utility, ČEZ, building the largest Industrial, Commercial and Grid (ICG) metering data center in Europe. The interoperable system with sophisticated design offers secure data transfer across three countries.**

The cooperation between Landis+Gyr and ČEZ began in 1986 with telemetric systems of the time. Technological developments over the years have led up to the deployment of Landis+Gyr Gridstream Converge. Currently there are 46,000 metering points in Czech Republic, Romania and Bulgaria connected to Gridstream Converge. The system is designed for the total 85,000 ICG, or industrial metering points, including the calculation of nearly 300,000 load profiles.

The solution is based on Landis+Gyr technologies, particularly the MDM Gridstream Converge center, the www100 data portal and the incorporated messaging system intended for data exchange in liberalized markets.

The metering data center located in Prague collects, verifies and compiles data from industrial and commercial meters providing coverage for I&C customers in these three countries. It also covers the ČEZ Group's Czech production sites. The metering data is read and used by the SAP ERP system and associated IT systems.

### **Solid system architecture provides full service**

The data center uses elaborate hardware architecture which provides maximum security and performance. It contains 16 servers that operate 25 virtual servers, eight routers, 600 modems and a database server. This fail-safe design ensures that the system will operate even in the case of a single component failure.

Consolidated solution of MDM Gridstream Converge has been integrated with the surrounding systems enabling further business metering data processing and communication with Central Data System (CDS), operated by Energy Market Operator and the portal of measured data for the end customers.

### **About ČEZ group**

- + One of the tenth largest utility groups in Europe
- + 7 million customers
- + Active in 10 countries in Central and Southeastern Europe



### Online services enabled

Included in the system is a Landis+Gyr data web portal, which enables customers to log onto their individual energy usage information online and create different reports from the metering data. This service operates through a secure website that links directly to the data center through a dedicated web server, providing faster access and customised service options for ČEZ's customers.

### Market dynamics across three countries

Part of the internet communications infrastructure is data management, as required by legislation, amongst all the different suppliers, distributors and producers in the energy market. In the Czech Republic distributors are responsible for reading the meters and transferring the data to market operators. Then other associated market players can gain access to this information via this process. The readout center will provide support for distribution companies in the Czech Republic, as well as distribution

companies in Romania and Bulgaria that are part of the ČEZ Group.

The data services center supports all activities related to data readouts from ICG measurement and associated primary processing. This includes validation and processing for invoicing.

The legislative process is completed by the incorporated messaging system. It manages contractual data exchanges, supplier changes and customer connect and disconnect, all in secure EDI or XML format.

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**“The goal of our project was to create a stable and effective structure of data acquisition and processing from the profile meters within the whole group. We have succeeded to build up a complex solution that will enable us to provide a higher quality service and also, it is a good base for the next increase of metering process effectiveness. We have achieved a very good result thanks to the common effort of the whole team that fulfilled gradually the project strategy with enormous engagement and power.”**

*Mr. Martin Michek, Commercial Director of ČEZ Měření.*

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