



### The smart future begins today

We at Landis+Gyr have been preparing for the challenges of tomorrow's energy market. With Toshiba as our new owner, we will be very well positioned to provide our customers with an even broader choice of smart

grid solutions, and to make the "smart world" a reality. Our newsletter is getting smarter, too. The new design and structure will provide you with a better overview on the latest smart metering developments, market news, industry trends, as well as information on our continuously improving product portfolio and our new Gridstream releases.

The first issue of "Update" focuses on the importance of smart metering for end consumers. Having recognized the significance of consumer engagement, many European countries are now introducing new regulatory requirements. Energy suppliers, such as EKZ and Stadtwerke Düsseldorf benefit from our end-to-end smart grid solution Gridstream, which enables them to increase customer satisfaction and to optimize their business processes in order to secure the revenues. Learn more about these and our other technological advancements, such as the multi-energy E450 meter, the new Ethernet module E35C and a new pre-payment solution by reading through this newsletter.

Andreas Brun  
Senior Vice President Sales & Marketing  
Landis+Gyr EMEA

## Table of contents

### Focus article

Toshiba and Landis+Gyr to become combined smart grid leader Page 2

### Market news

Europe on its way to smart grid Page 3

### Customer projects

Providing smart energy in Düsseldorf Page 5  
Demand Side Management for the EKZ in Switzerland Page 6  
The new E450 Meter in use in Finland Page 7

### Product Updates

Gridstream MDUS Page 8  
Pay-As-You-Go in the UK Page 8  
New E35C Ethernet module release Page 9  
Milestone in ICG Meter delivery reached Page 9  
L740 Hybrid Switch for e-charging stations Page 9  
Improved version of Gridstream Converge Page 10

Focus article

## Toshiba and Landis+Gyr to become combined smart grid leader



Toshiba has entered into a definitive US\$ 2.3 billion sale agreement with the shareholders of Landis+Gyr. With this acquisition, Toshiba is bringing the smart Community business into focus.

The combination of Toshiba's innovative product portfolio and Landis+Gyr's knowhow and reputation in smart metering technology will allow both companies to provide customers with sophisticated state-of-the-art smart grid solutions. Jon Stretch, Executive Vice President EMEA of Landis+Gyr, explains the background of the acquisition and what Landis+Gyr's customers can expect from it.

### **Update: Mr Stretch, what were the main reasons for the acquisition?**

*Jon Stretch:* The acquisition is designed to create a new growth platform within Toshiba, specifically targeting the global smart grid opportunities. Toshiba is intent on becoming the global leader in electric transmissions and distribution by 2020. For this reason they need to expand their smart grid presence. Landis+Gyr, as the world market leader in smart metering, was the best choice to achieve this objective.

### **Update: What are the key benefits for Landis+Gyr?**

*Jon Stretch:* While Toshiba will profit from our experience, our designated workforce, and our advanced solutions in metering, Landis+Gyr will receive the financial resources and power to complement and accelerate our product offerings. This will allow us to continue to leverage our advantage and position in supplying utilities state-of-the-art smart metering products and services.

### **Update: What changes can customers expect from the acquisition?**

*Jon Stretch:* The way Landis+Gyr operates has made us the world market leader in smart metering technology. Toshiba has no intention of changing this well-running and successful

system. Therefore, our brand, our established working structures and processes as well as our precision engineered products will remain unchanged. Customers will keep the same support teams and contact persons that they have always had. There are also no acquisition related changes envisioned for production sites in the foreseeable future. Landis+Gyr will remain the trusted partner and innovative market leader our customers have always relied on in the past.

### **Update: Which synergies do you expect from the deal?**

*Jon Stretch:* Toshiba has a strong commitment to 'Smart Community' – using the emerging smart grid capabilities to benefit end consumers in a number of ways, for example, in home and business energy management systems, electrical vehicles, renewable energy and microgeneration. Once the acquisition is completed, one of our early tasks will be to identify how Toshiba's and L+G's portfolios can be combined and enhanced to support the smart community objectives.

What are the benefits for Landis+Gyr's customers?

Toshiba's commitment, financial resources and plan to use our company as a growth engine will offer us many opportunities to expand our services that we did not have before. In the long run, we will be able to deliver even broader and richer offerings to help our clients to tackle the challenges of a Smart grid.

### **Update: What are the next steps?**

*Jon Stretch:* The acquisition, which is expected to close in the third quarter of this year, is still subject to regulatory approvals and other customary closing conditions. After the closing, we will continue to work hard to meet the requirements of our customers on a global level just as we are doing today. Landis+Gyr will then work closely with Toshiba to identify combination possibilities of our product portfolios, and to understand where and how we can best leverage our offerings. ■

## Market news

## Europe on its way to smart grid

The direction is clear: The European Union is striving for a 20 percent increase in energy efficiency and a 20 percent reduction in CO2 emissions by the year 2020, compared to levels recorded in 1990. A further aim is for 20 percent of energy in the future to come from renewable sources. Together these form the “20-20-20 goals”, which the European Heads of State and Government have set for themselves.

Now it is up to each country to identify and execute the best strategy in order to achieve these goals. However, one thing is already clear. To make these ambitions a reality, the development of a smart grid is necessary. Smart metering is the foundation of the smart grid, and each country will have to clear regulatory hurdles before they can proceed with large-scale rollouts. In this context, the conditions throughout Europe are very diverse. By just looking at the Netherlands and Norway, it becomes clear that both countries share a common goal, but have very different challenges to tackle.

### Government sets the course in the Netherlands

The government in the Netherlands has already set the wheels in motion for the first rollout, which will cover approximately 500,000 households by the year 2014. During this phase, all new buildings and those undergoing major renovation will be equipped with smart electricity and smart gas meters. In the second and final phase, the large-scale rollout of smart electricity and smart gas meters in the remaining 7.5 million households in the Netherlands, will take place between 2015 and 2020.

As it is true for the majority of countries, the most important issues for implementing a complete rollout are energy savings across the entire supply chain and economic benefits for end consumers. It is also essential that smart metering supports the market model of the unbundled utility landscape in the Netherlands. It should be made easier for the consumers to switch between suppliers in case the contract changes, or if they move to a new residence. These benefits were evaluated by order of the Dutch Ministry of Economic Affairs in 2005.



The Netherlands are on the right track, although authorities there have had to address reservations held by consumer groups regarding data security and privacy. As a response to these worries, consumers are now given the chance to choose what smart meters in their home should be capable of. Within the rollout process smart meters will be installed with a default setting of six readouts a year. Consumers now have the option to upgrade to readouts at as often as every 15 minutes, or to downgrade by telling their operator to switch off the communication device. Although this option is available, experts are convinced that approximately 97 percent of the Netherlands' residents favour the opportunities smart metering provides.

### Complete rollout by 2017 in Norway

The acceptance of smart metering by consumers seems to be the most important driver toward the realization of a nationwide rollout. This is not only the case in the Netherlands, but also in Norway. Scandinavian countries have traditionally set the benchmark for smart metering infrastructures. The main reason for this might be the landscape of these countries. In Norway, for example, most of the 2.6 million households can be found around the biggest cities. Only approximately one third of the total population lives in rural and sparsely inhabited regions of the country. Hence, the

benefits of smart meters are obvious from a logistical point of view, due to the fact that manpower and resources can be saved by reading the meters remotely.

Therefore, the government of Norway is the driving force in the implementation process. For example, the Norwegian energy regulator Norwegian Water Resources and Energy Directorate (NVE) has released proposals on the functional requirements for the country's advanced metering and management system (AMS). NVE has recommended that 80% of customers receive the AMS by the end of 2015, with the remaining customers set to have it by the end of 2016. The proposals are now open to consultation and NVE expects to make its decision by July 1, 2011, to enable utilities to start installing the AMS by autumn of this year. With this proposal, Norway is moving another step towards a smart grid.

#### **In search of an regulatory system**

While Norway and the Netherlands are on the right track, other countries are still in the initial stage to lay the foundation for a smart grid, which requires the implementation of smart

metering. Today, only 10 percent of EU households have some sort of smart meter installed. However, recent legislation ("3rd Energy Package") passed by the EU in 2009 foresees that 80 percent of European households should be equipped with smart meters by 2020, and in a recent communication, the European Commission has said that energy savings of as much as 10 percent have been realised with smart meters. The biggest barriers in all countries are not technical, but rather regulatory and political. Landis+Gyr has the most advanced smart metering systems in the world, and is ready to deploy the technology. With smart metering and smart grids, financial and environmental benefits are long-term and distributed over the length of the value chain – from end consumers to suppliers, network operators to generators, and finally to society as a whole. The costs of a smart metering infrastructure, on the other hand, are short-term and accurately estimated. What is needed is a regulatory system that allows network operators a fair return on investments. A clear cost-sharing mechanism must be established in order to evenly distribute the costs among all market players involved. ■

## Customer projects

## Providing smart energy in Düsseldorf



Since June 2010 end-consumers in Düsseldorf have had the chance to choose between the classic tariff and a new, flexible tariff to pay for their energy consumption. The cornerstone for this development was a comprehensive pilot project, created not only to evaluate the technological challenges of a smart metering infrastructure, but also to find out in advance how the many opportunities smart metering offers would be accepted by the end-consumer. The municipal utility, the Stadtwerke Düsseldorf, chose Landis+Gyr as a partner for this project.

In 2008, a total of 1,000 households were equipped with Landis+Gyr's E350. The main advantage of this meter is its flexibility. If needed, it allows for an exchange of the integrated communication module. Every 15 minutes the consumption data is read and sent to the Stadtwerke Düsseldorf via a powerline communication (PLC) technology. Of course, consumers should also be entitled to full transparency regarding their own energy consumption. Therefore, users were given two billing options: aside from receiving a monthly notification via mail about their usage, they could also log on to a special website that offered detailed information.

**Satisfied customers**

The project ran for 18 months and delivered highly positive results. The smart meters and the additional functions that came along with them were received particularly well. Participants identified the control function, the transparency of the presentation, and of course the potential for savings as the

main benefits of smart metering. Foremost, the transparency regarding energy consumption data was highly appreciated by consumers. In fact, the further the participants progressed through the project, the more their energy consumption decreased. Another important result of the project is the fact that utilities have to offer tariffs that fit the consumption behaviour. In the future, it will become more and more necessary for utilities to provide not only energy but also additional services like frequent energy reports, user-friendly data processing, tailored billing and pricing models or real-time feedback devices (e.g. TV, cell phone etc.).

**Landis+Gyr's Gridstream AIM**

To establish the basis for flexible tariff models, the Stadtwerke Düsseldorf launched another project in 2009: the creation of an infrastructure to read and process data. Again, the decision was made to partner with Landis+Gyr and their Gridstream AIM solution. This solution's objective was to translate the results of the pilot project into practical measures, including the implementation of in-home displays, presentation of the energy data via an online portal and a focused customer approach. Landis+Gyr's solutions convinced the Stadtwerke Düsseldorf because of their scalability: While the pilot project included only 1,000 remotely-read-meters, the utility will have to deal with 420,000 devices in the future. Furthermore, the solution's purpose is to measure not only electricity, but also gas, water and heat data. Gridstream features remote meter reading and it also grants two-way communication with the meter, in order to, for example, add software updates or to attain a flexible tariff model. In fact, since June 2010 customers of the Stadtwerke Düsseldorf have been able to decide which tariff is best for them: The 'Düsseldorf Classic' or 'Düsseldorf Clever'. 'Düsseldorf Clever' is ideal for consumers who use most of their energy in the evening and over the weekends; this is when the utilities are not working to full capacity. Although the Stadtwerke Düsseldorf is still in a testing phase, the demand for smart metering has increased due to the new tariff models. Customers who select the 'Düsseldorf Clever' tariff are provided with the Landis+Gyr E350meter, which also offers a modular structure. Whatever the energy market of the future holds, Düsseldorf is ready. ■

Customer projects

## Demand Side Management for the EKZ in Switzerland



**EKZ is one of the largest power providers in Switzerland, supplying around ten per cent of the country's electrical energy requirements. By providing a safe, reliable and environmentally-friendly electricity supply and a broad range of related services, the company has a positive impact on the lives of around one million people. Back in 2009, EKZ launched a pilot project to implement a smart metering infrastructure. The objective of this project was very diverse: EKZ wanted to streamline their daily business processes, optimise network control and demand response as well as improve consumer engagement.**

For this reason, Landis+Gyr supplied EKZ with its comprehensive end-to-end Gridstream solution that includes the Gridstream MDUS (Meter Data Unification and Synchronization) software along with other components. Gridstream MDUS acts as the conduit between the smart metering and SAP for Utilities® systems providing two-way communication and enabling the unification and seamless integration of energy data management and billing. This enormously enhances the efficiency of utilities business

processes. Furthermore, the offering comprised 1,000 electricity meters that were delivered with the modular powerline communication (PLC) technology and 200 hybrid switches including the Landis+Gyr Load Manager FPS LM as well as personal energy management devices (ecoMeter).

Thanks to Landis+Gyr's Gridstream solution, EKZ not only received a better data basis but also enhanced operational processes: Load profiles are updated every 15 minutes and uploaded directly to the EKZ SAP system every day. Meter reading and billing are now executed on a monthly basis. The on-demand meter readings only take two minutes and can be conducted simultaneously while regular readings are being carried out. This means that the efficiency of internal processes (e. g. time to manage new or moving consumers, meter reading lead time, etc.) have been increased by 80 to 99 percent.

### **Increasing customer satisfaction**

End-users in the canton of Zurich now have the opportunity to see their real time energy consumption and tariff data displayed on ecoMeter, an in-home unit solution. The ecoMeter and an informational password-protected Internet Smart Portal maintained by EKZ both contribute to raising awareness among end customers about sustainable energy use and to obtain better energy efficiency on the consumer side.

The Gridstream solution has also shown what smart metering is capable of. The direct connection of collecting metering data with operational processes is an important step toward implementing smart grids and establishing improved demand side management in the long run. This will include direct load control, time of use pricing, operational efficiencies and alternative sources of supply, such as distributed generation or fuel switching. ■

Customer projects

**The new E450 Meter in use in Finland**

The E450 meter is Landis+Gyr's new smart meter for the Gridstream solution, which integrates multiple functions in one device: an extremely flexible advanced electricity meter, a multi-energy data collector as well as a remote two-way communication node.

The Finnish energy provider Järvi-Suomen Energia Oy uses Landis+Gyr's latest innovation to provide its 100,000 clients with the benefits of smart metering. When Järvi-Suomen Energia set out to expand smart metering services to all of its customers, the company laid out stringent requirements for both the smart metering solution and the provider. They wanted to source a large-scale and cost-efficient solution from an experienced partner who would be able to cover the entire project lifecycle, from smart meters to project management and meter reading. The requirements also included adaptability to future technologies.

**Landis+Gyr provides 80,000 Smart Meters**

The decision was made in favour of Landis+Gyr. The companies had shared a long-lasting cooperation, which was now taken to the next level. The smart metering solution chosen by Järvi-Suomen Energia includes the delivery of 80,000 new smart meters as well as communication and Gridstream AIM software. This cost-efficient solution was acquired as an extensive package, in which Landis+Gyr is responsible for project planning, training and the integrations to the customer information and energy data control systems. Additionally, this extensive smart metering solution includes a meter reading service. As part of the meter reading service, Järvi-Suomen Energia will be provided with hourly consumption information on a daily basis, as well as regular network status reports and power quality reports. Smart metering data will be used to improve customer services. The Finnish company will provide its customers with a web portal that provides current consumption information that enables consumers to manage their energy usage in a better way. Real-time data also enhances everyday customer processes, as it improves customer communication and speeds up services.

**E450 for a maximum of efficiency**

To realize all these benefits, Järvi-Suomen Energia selected the new E450 electricity meters. The meter communication interfaces are based on open standards. This allows them to combine third party applications in the advanced meter infrastructure. The communication between the smart meter and the Gridstream AIM system is carried out using PLC PLAN and 2G/3G technologies. This maximises the reliability and cost-efficiency of the whole solution. With the web-based Dashboard application in Gridstream AIM, the consumption is easily available for customer service personnel and utility management, which benefits both Järvi-Suomen Energia and end-consumers. ■



## Product Updates

### Gridstream MDUS now a SAP Qualified Business Solution



Landis+Gyr's Gridstream MDUS (smart meter data unification and synchronization) is now a SAP Qualified Business Solution (QBS). With this

step, Landis+Gyr's Gridstream MDUS will be integrated with the SAP for Utilities® solution portfolio. This helps to ensure that investments made can adapt to and fit into the future IT architecture of a utility. Landis+Gyr has been working intensively with SAP on developing this software. The functionality provided by Gridstream MDUS integrated with SAP for Utilities® solutions will undoubtedly help increase utilities' competitiveness as well as cost effectiveness and, importantly, has been proven in a field installation. As a result of the cooperation, Landis+Gyr and SAP are now sharing a joint product roadmap to help utilities manage energy better.

#### Flexibility for utilities

SAP qualified business solutions, like Gridstream MDUS, are complementary to SAP software offerings and provide additional choices and flexibility for organizations running SAP software. The Landis+Gyr solution enables utilities to optimize utilization of the power grid and generation assets, reduce energy costs for consumers, and improve customer competitiveness. Using Gridstream MDUS integrated with SAP for Utilities® will enable customers to more quickly reap the benefits of a smart metering platform that delivers improved efficiency at a lower total cost of ownership.

#### New level of transparency

This latest development comes after Landis+Gyr and SAP announced an agreement in 2009 to integrate Landis+Gyr's AMI with SAP for Utilities® to deliver a new level of transparency and availability to energy utilities. Utilities around the world have the ability to benefit from three key results that have come out of the close cooperation between Landis+Gyr and SAP: software quality assurance through a proven customer development cycle, synchronised release planning

between Landis+Gyr's MDUS and SAP AMI Integration for Utilities software, and a 24x7 service support call option. ■

### Pay-As-You-Go in the UK

Despite the EU mandate, there is still a fair amount of uncertainty surrounding the proposed rollout of smart metering in many parts of Europe. Nevertheless, one area where the business benefits for an early adoption of smart metering technology are clear is in prepayment or Pay-As-You-Go meters.

In the non-smart world, suppliers have to evaluate the cost-to-serve benefits of such a solution, because the costs are usually much higher than credit metering for a number of reasons: Not only are the device costs higher, but more site visits are required. One can also expect more calls to the customer call centre to resolve queries and request assistance. A supplier must balance these additional expenses with the benefits of a reduced risk of debt and payment received prior to energy consumption.

#### One device - different payment models

With a higher penetration of smart meters, many of these costs can be reduced. Smart metering brings with it opportunities to manage a customer in both credit and prepayment modes using the same meter, switching between... the two modes without the need for a site visit. These devices, such as the UK Landis+Gyr smart prepayment electricity and gas meters, coupled with Landis+Gyr's Focus Pay-As-You-Go software solution, enable a supplier and customer together to agree on the best method of payment for their energy needs. A wide variety of payment channels, starting with web-based payments, automated direct debits to ATMs and payment by SMS, are available for suppliers to offer to their customers. The increased flexibility in payment options combined with the wealth of information that is available to the customer via in-home display units and web portals enhance the attractiveness of prepayment. Therefore, Pay-As-You-Go models are likely to become widely accepted and bring benefits to customers and suppliers alike. ■

## New E35C Ethernet module release for E350 meter

The new E35C Ethernet module from Landis+Gyr has redefined the scope of this tried-and-tested communications module. Utilities can now manage all consumption of different energy forms via a high-speed TCP/IP connection. An integrated M-Bus interface provides a simple means of connecting multi-energy meters. This makes multi-energy applications an affordable proposition for residential use.

The successful first generation of ZxF meters form the basis for today's E350 meters. The communication technology of the meter has a modular design, which makes it a safe investment. The new series of modules for domestic use puts promises into practice, paving the way not only for multi-energy applications but also for new services in personal energy management. Additional improvements relate to network quality, remote load switching and the recording of access attempts.

### Lower costs for communication ...

The E35C Ethernet module turns an electricity meter into a data centre. Up to four multi-energy meters (e.g. gas/water meters) can be connected with the M-bus interface. This feature reduces communication channels, simplifies subsequent data processing and saves transfer costs.

### ... and easier installation

The E35C series from Landis+Gyr gets residential installations ready for Smart grid. Maximum consumption and network quality monitoring functions are key issues for supply companies. The optional connection for the Landis+Gyr ecoMeter terminal allows customers to access their latest energy costs and to exploit optimising potential, with the resulting positive effects on network control. ■

## Milestone in ICG Meter delivery reached

Landis+Gyr has delivered more than 20,000 SyM2 meters, which were developed in close cooperation with the German utility companies RWE, EnBW and E.ON Energy. The aim of the SyM2 is to standardize meter parks for special contract customer – a process that is well underway, as the sales figures show. The joint project started in 2004, when RWE aimed to develop an open industry standard for industrial and commercial metering. The new metering points should use the Internet for communication and to have standard processes. This initiative



attracted the interests of EnBW and E.ON. The three companies, which belong to the biggest energy providers in Germany, formed a consortium to drive the project and also to invite the best-in-class to participate

in the development process. After a tendering process Landis+Gyr was invited to join the team.

### RWE, EnBW, E.ON Energy trust Landis+Gyr

The main driver of this program was the theme of openness. Currently many utility suppliers have a large number of different models, installed, operated, connected and read differently, which require different processes and communication protocols. This pushes costs up as technicians must be trained to use each individual meter type and several different installation processes, and a significant number of device drivers need to be integrated.

In close cooperation with energy suppliers, two years of development led to the birth of the SyM2 concept. The Landis+Gyr E750 -the first SyM2-compliant meter – finally went into batch production at the end of 2009. Modular assembly of the new industrial meters was key, in addition to interoperability. This means that the only components used are those, which are actually required – unnecessary costs and needless potential sources of error are avoided. Rapidly evolving technologies such as communication units can be replaced in a matter of minutes during ongoing use. Even meters and modules from different manufacturers can be combined thanks to the open specification and a mandatory conformance test to obtain the SyM2-Logo.

The fact that Landis+Gyr was chosen by the three big players to develop this advance technology product, proves the excellent expertise of the world leader in smart metering. ■

## L740 Hybrid Switch for e-charging stations

In partnership with Landis+Gyr, the Swiss company wemel GmbH has developed a customer solution for e-vehicles. An intelligent e-charging station can be used to power batch-wise an almost unlimited number of e-vehicles such as e-scooters, forklifts, or even cars, allowing an optimal use of the local network capacity without overload. Thanks to this application, end customers can reduce their energy costs since charging

takes place at the lowest tariff available. These intelligent and future-oriented e-charging stations are aimed at companies operating e-vehicles for business purposes or willing to offer a charging facility to their staff for their private use.

Landis+Gyr's new Hybrid Load Switch L740 is being used for the first time in such an application. The L740 communicates the tariff and load management information from the local utility to the e-charging station. The Hybrid Load Switch supports both the ripple control as well as two-way powerline communication (PLC) technologies. Powerful functionality is achieved when combined with the Smart metering System Gridstream AIM and L+G's Load Manager FPS LM that allows load management in Smart metering and Ripple Control Systems.

Landis+Gyr's Hybrid Load Switch L740 marks the beginning of a new era in load management. In addition to the tried-and-trusted conventional load management applications, it is now possible to control the impact of the growing energy demand from e-vehicles in the network with a modern 3rd Generation Dynamic Load Management System. The new innovative Hybrid- and PLC load switch family from Landis+Gyr allows completely new applications in comparison with the traditional ripple control receivers (2nd Generation). ■

### Improved version of Gridstream Converge available



Gridstream Converge is Landis+Gyr's automatic meter reading system for industrial and commercial metering, enabling energy supply companies to manage the complete process from metering to billing. Due to its open

architecture, the end-to-end solution can be integrated into other systems to analyse or simulate consumption habits.

With Gridstream Converge, Landis+Gyr has developed a unique solution that provides a basis for a powerful data warehouse system. It enables energy suppliers to automatically acquire customer-specific data, and to support the production of clearly laid out graphs, tables, reports and

tariff structures. This valuable information can be transferred via the Internet at click of the mouse. Due to its modular design, it can be implemented into every working environment.

A new version of this advanced software is Gridstream Converge 3.6, which includes significant improvements in both usability and performance. The new version features enhanced data acquisition transactions, supports a second load profile for the Landis+Gyr E850 meter as well as a graphic user interface.

#### Gridstream Converge at work

Gridstream Converge has already supported many energy-providing companies, helping them to optimise their daily processes. At the end of 2010, Landis+Gyr finalized a project at ČEZ, the largest electricity producer in the Czech Republic. The project was a success and involved round 4,500 heat and water meters at cogeneration plants and other metering points at ČEZ Teplárenská (ČEZ Heating Plant Company), a subsidiary of ČEZ. To read the data, either standard GPRS communication or text messages can be used. Heat meters are equipped with a unique internal or external SMS module. The modules are able to send the data directly to the Gridstream Converge system. An ASCII format is used for messages with service data and a binary format for data messages with readouts. The data is automatically validated and transported into the ČEZ Teplárenská SAP system. The integration of heat data into the billing system was also an important part of the project. ■

#### Imprint:

For further information please visit our website  
[www.landisgyr.eu/update](http://www.landisgyr.eu/update)

To subscribe to our newsletter please write to  
[update.emea@landisgyr.com](mailto:update.emea@landisgyr.com)

Landis+Gyr EMEA,  
Theilerstr. 1  
CH - 6301 Zug

Switzerland

© Landis+Gyr AG | 2011