



SMART GRIDS IN THE UNITED STATES

TECHNOLOGY EXPEDITION THROUGH TEXAS, CALIFORNIA AND WASHINGTON, DC

OCTOBER 13-20, 2010

List of Participating Companies

October 12, 2010

AIT Austrian Institute for Technology

www.ait.ac.at

Giefinggasse 2, 1210 Vienna, **Austria**

Helfried Brunner, Head of Electric Energy Systems

Founded in 1945, AIT (Austrian Institute of Technology) is Austria's largest non-university research institute, specializing in key infrastructure issues such as the increased use of renewable energy sources and analyzing their interaction with the power grid.

Austrian Embassy: Office of Science and Technology

<http://ostina.org>

3524 International Court, NW, Washington, DC 20008-3027

Caroline Adenberger, Deputy Director

A joint initiative of four Austrian federal ministries responsible for science, technology, economic and international affairs, OST acts as a strategic interface between the innovation systems of Austria and North America.

BDEW: Bundesverband der Energie- und Wasserwirtschaft e.V.

www.bdew.de

Reinhardtstr. 32, 10117 Berlin, **Germany**

Roger Kohlmann, Head of Energy and Regulation Department

Founded in 2007, BDEW represents approximately 1,800 companies including energy, gas, district heat, and water and sewage service providers. Member companies employ 280,000 people and serve around 40 million households in Germany with electricity and water as well as around 20 million German households with natural gas and district heat.

BKW FMB Energie AG

www.bkw-fmb.ch

Obere Zollgasse 73, 3072 Ostermundigen, **Switzerland**

Adrian Peter, Manager of New Technology

BKW FMB Energy Ltd (BKW) has approximately 2,800 employees and is one of the major Swiss companies integrated in the European grid. BKW supplies electricity to a million persons in around 400 communities, with an annual turnover of \$132 million. In 2009, BKW supplied over 8,075 Gigawatt-hours of energy to private customers and distribution partners. BKW produces virtually CO₂-free power from its own seven hydroelectricity plants and one nuclear power plant, from hydroelectricity plants owned by 18 partner companies, and via purchase rights in partner nuclear power plants.

Burgenländische Elektrizitätswirtschafts-Aktiengesellschaft (BEWAG)

www.bewag.at

Kasernenstraße 9, 7000 Eisenstadt, **Austria**

Hans Lukits, Speaker of the Board

BEWAG serves 120,000 households in Burgenland with electricity. By focusing on core production, distribution and sales, BEWAG is a leader of innovation and environmentally sustainable energy, serving energy-efficient customers.

Echelon EDC

www.echelon.com

Herbert-hinnendahl-Str. 23, 33602 Bielefeld, Germany

Detlef Lau, Managing Director

Echelon Corporation (NASDAQ: ELON) is a leading force in the worldwide transformation of the electricity grid into a smart, communicating energy network, connecting utilities to their customers, enabling networking of everyday devices, and providing customers with energy-aware homes and businesses that react to conditions on the grid.

E.On Energie AG

www.eon-energie.com

Brienner Str. 40, 80333 Munich, **Germany**

Andreas Kemnitzer, Head of Grid Development and Asset Management

With 48,000 employees and an annual turnover of \$105 billion, E.On Energie is Europe's largest privately owned provider of energy services as well as the leading service provider in Central Europe. Responsible for managing power generation, transmission, distribution and sales, E.On Energie supplies energy to 17 million customers, half of which live outside of Germany.

EnBW AG

www.enbw.com

Kriegsbergstr. 32, 70173 Stuttgart, **Germany**

Christian Schorn, Director of Technical Asset Management

EnBW AG is one of the leading integrated energy supply companies in Europe and the third largest utility company in Germany. With an annual turnover \$20 billion, EnBW provides electricity, gas, energy and environmental services to 6 million customers. EnBW's 21,000 employees dedicate each day of work to developing progressive ideas; ensuring a reliable, efficient and future-oriented supply of energy. As a result, a specific CO₂ emission level of 235 g/kWh is achieved, which is considerably below the German average of 541 g/kWh.

Energie AG Oberösterreich Netz GmbH

www.energieag.com

Böhmerwaldstraße 3, 4021 Linz, **Austria**

Andreas Abart, Power Quality Manager

Founded in 2005, Energie AG Group consists of nine business units and four service units supervised by a strategic management holding. In its core business sectors – energy, water and waste management – Energie AG is the leading infrastructure group in Upper Austria. With an annual turnover of \$300 million, Energie AG serves 448,000 customers in 348,000 households with a total of 6.3 Terawatt hours.

EVN AG

www.evn.at

EVN Platz, 2344 Maria Enzersdorf, **Austria**

Maximilian Urban, Head of Energy Efficiency Department

With an annual turnover of \$3.5 billion, EVN has 9,000 employees, serving around three million customers in 18 countries. In the environmental services area, EVN operates in the fields of water supply, wastewater treatment and waste incineration.

Fichtner IT Consulting

<http://www.fit.fichtner.de/>

Sarweystraße 3, D- 70191 Stuttgart

Leyla Gueran, Consultant

With over 60 employees, Fichtner IT Consulting carries out projects at both the national and international level. Experts in the fields of energy, water/wastewater, transport &

infrastructure and public administration provide clients technical-economic advice as well as the development and implementation of information systems.

General Electric Energy Services Germany

www.ge-energy.com

Robert-Schuman-Strasse 14, D-35423 Lich, Germany

Dr. Frank Vogel, Account Director for Germany and the Nordics

GE has a comprehensive transmission and distribution portfolio with products and services that enable grid intelligence processes. These tools help utilities better manage assets and resources by converting data into knowledge that decision makers use to drive greater productivity and profitability.

IBM

<http://www.ibm.com/us/en/>

Obere Donaustrasse 95, 1020 Vienna, Austria

Dr. Rudolf Pailer, IBM Austria

Dr. Jens Kuelper, IBM Germany

By providing complete consulting, design and implementation services with network technology from industry partners, IBM will deliver the first-ever comprehensive communications services offering of its kind. This new offering will allow utilities to transform their networks and make the transition from traditional to "smart" grids.

Innsbrucker Kommunalbetriebe AG

www2.ikb.at

Salurner Strasse 11, 6020 Tirol, **Austria**

Dr. Alfons Sillaber, Head of Department of Power Distribution

Innsbrucker Kommunalbetriebe AG (IKB AG) is the municipal utility company of Innsbruck, the capital of Tyrol, Austria. IKB AG provides the infrastructure of power distribution, telecommunication, water, waste and wastewater collection and treatment for 130,000 residential and commercial entities in the Innsbruck area. With an annual turnover of \$270 million, IKB AG's hydro power plants produce about 320 million kWh and distribute electric power of about 800 million kWh each year.

KIT: Karlsruher Institut für Technologie.

www.ieh.kit.edu

Engesserstraße 11, 76131 Karlsruhe **Germany**

Ulrich Reiner, Research Specialist

Marc Mültin, Research Specialist

Since 2009, the Karlsruhe Institute of Technology (KIT) has functioned as a large-scale research institution, conducting program-oriented research on behalf of the Federal Republic of Germany. With 8,000 employees and an annual budget of \$900 million, KIT is one of the largest research and teaching institutions worldwide.

LINZ STROM Netz GmbH

www.linzag-netz.at

Fichtenstrasse 7, 4021 Linz, **Austria**

Dr. Karl Derler, Business Director

LINZ STROM GmbH is the licensed network operator of a distribution network with an annual turnover of \$104 million, located in the city of Linz as well as 82 municipalities in Upper Austria. Using a distribution grid operator, LINZ STROM GmbH network is able to connect the 250,000 customers in its service areas.

MA 27, City of Vienna

<http://www.wien.gv.at/wirtschaft/eu-strategie/energie/index.htm>

Schlesingerplatz 2, 1082 Vienna, **Austria**

Andreas Eigenbauer, Energy Manager

Municipal Department 27 is tasked with monitoring, analyzing and reporting on current developments in various sectors, in order to prepare decisions and initiate suitable measures for the city of Vienna.

Offis e.v.

www.offis.de

Escherweg 2, 26121 Oldenburg, **Germany**

Dr. Christoph Mayer, Department of Energy Director

Offis e.V. is a non-profit institution conducting research in three main fields; energy, health, and transportation. Offis has introduced six technology clusters that concentrate the technological knowledge across the three research and development divisions.

Österreichs Energie

www.oesterreichsenergie.at/startseite.html

Brahmsplatz 3, 1040 Vienna, **Austria**

Ursula Tauschek, Manager, of Electricity Networks

Oesterreichs Energie represents the political, administrative and public interests of the Austrian energy business. Oesterreichs Energie currently represents over 140 member companies from all over Austria together, employing almost 20,000 people.

Siemens AG

www.siemens.de

Humboldtstraße 59, 90459 Nürnberg, **Germany**

Heike Onken, Siemens Germany

Andreas Lugmaier, Siemens Austria

Thomas Roeck, Siemens Austria

Active in 190 countries, Siemens AG has over 400,000 employees at 1,640 locations around the globe, including 176 R&D facilities. In the first quarter of 2010 alone, Siemens AG's turnover reached \$22 billion. The Siemens Smart Grid Competence Center in Nürnberg is responsible for developing the information and communication interface between smart meters, the system for meter data management, and the electronic marketplace.

Stadtwerke Leipzig Netz GmbH (Municipal Utility Leipzig Net GmbH)

www.swl-netz.de

Arno-Nitsche Straße 35, 04277 Leipzig **Germany**

Jan Fuhrberg-Baumann, General Manager

As a subsidiary of Stadtwerke Leipzig GmbH, Stadtwerke Leipzig Netz GmbH is the provider of an electricity and gas network in Leipzig for three electrical grids covering 3,520 km, three gas grids covering 804 km, and a heating grid covering 346 km. With an annual turnover of \$238 million, 1,160 employees serve 438,000 customers.

Stromnetz Steiermark GmbH

www.stromnetzsteiermark.at

Leonhardgürtel 10, 8010 Graz, **Austria**

Gregor Talsan, Asset Manager

With an annual turnover of \$255 million, Stromnetz Steiermark GmbH has been providing over 100,000 customers (covering a span of 23,000 kilometers) with electric utilities services in the high, medium and low voltages since 2006.

Technische Universität Dortmund (Technical University of Dortmund)

www.uni-dortmund.de

Emil-Figge Straße 70, 44211 Dortmund, **Germany**

Hans-Jörg Belitz, Research Assistant (Energy Systems and Energy Economics)

This institute mainly focuses on power electronics and central, decentralized and renewable energies. Storage systems are also investigated for the special needs of future power supply systems, which form the structure of future transmission and distribution systems. Their overall purpose is the investigation of technically and economically feasible ways for an ecological and sustainable power supply.

Vattenfall Europe Distribution Berlin GmbH

www.vattenfall.de

Puschkinallee 52, 12435 Berlin, **Germany**

Dr. Christian Wulff, Strategy

With 20,000 employees and an annual turnover of \$27 million, Vattenfall is Germany's third largest electricity company, serving 3.4 million customers. Vattenfall generates, distributes and sells electricity and heat on the German energy market, while trading electricity and energy-related raw materials. Vattenfall operates some of the world's cleanest and most up-to-date lignite-fired plants; 87% of electricity is generated from fossil fuel, while the rest derives from nuclear and hydro power. Vattenfall Europe Distribution Berlin GmbH is the responsible for the distribution network in Berlin, whose networks consists of sub networks of the three voltage levels: HV, MV and LV. Vattenfall is also responsible for grid development and grid modernization including metering services.

Vereinigung Österreichischer Elektrizitätswerke

www.voeew.at

Augasse 20, 8020 Graz, **Austria**

Paul Kiendler, Vice President

Roland Tropper, General Manager

The VÖEW is an association for small and medium sized private as well as communal electricity companies in Austria, serving 500,000 customers with 5,500 Gigawatt hours. VÖEW assists, consults and supports its 140 member companies concerning technical, economic and legal issues.

Wien Energie Stromnetz

www.wienenergie.at

Mariennengasse 4-6, 1090 Vienna, **Austria**

Wolfgang Orasch, Regulations Manager

With an annual turnover of \$201 million, Wien Energie is the largest domestic regional energy provider in Austria. The range of services offered, however, extends well beyond simply supplying energy. Wien Energie is responsible for supplying a total of two million people in and around Vienna with electricity, gas and heating as well as waste recycling, facility management, telecommunications, energy efficiency, energy advice and energy services.