Grid Edge Pty Ltd have formed a consortium of leading experts in the energy storage field, including FIAMM Energy Storage Solutions (www.fiamm.com), a division of FIAMM. These leading major companies all have a clear purpose of working with the challenging opportunities in the emerging field of the Energy Storage Market.

The mission of FIAMM Energy Storage Solutions is the development of storage systems based on the innovative sodium nickel chloride FIAMM SoNick batteries. These SoNick batteries are 100% recyclable, eco-compatible and suitable for any place of installation. FIAMM Energy Storage Solutions is Grid Edge’s Australian partner and supplier for On-Grid, Off-Grid and Micro-Grid storage applications and have a variety of state of the art, tailored solutions available. The solutions provided are specific for the Energy Storage Market and designed for capitalizing on renewable energy sources and improving the Smart Grid Design. FIAMM SoNick technology provides longer duration energy storage for multiple applications. Designed with a focus on safety, high availability and engineered for low cost of ownership, FIAMM can support applications around grid resiliency, time shift, capacity, energy management, black start, standby and ancillary services. Already, over 100 MW of FIAMM SoNick battery technology has been deployed worldwide for Mobile, Industrial and Energy Storage applications.
**Customer:** Duke Energy

**Who’s DUKE ENERGY?** It’s the largest electric power holding company in the United States headquartered in Charlotte, North Carolina (USA). Duke Energy owns 58,200 megawatts of base-load and peak generation in the United States, which it distributes to its 7.2 million customers. Duke Energy's service territory covers 270,000 km² with 402,700 km of distribution lines.

**Project:** Rankin Energy Storage System

The Rankin Energy Storage Project shows a first-of-a-kind utility application to increase the penetration potential of solar generation on the grid. Duke Energy deployed an innovative substation - based energy storage system on a 12.47 kV distribution circuit - designed to mitigate the rapid power fluctuations introduced to the circuit by 1.2 MW of solar PV located approximately three miles from the substation.
Project data:

Location: Charlotte – USA

UNIT: 1 BESS (12 Z37 620V 38Ah batteries)

ENERGY: 240 KWh

POWER: 120 KW

Supply goal: Due to passing clouds, solar energy output was observed to rapidly fluctuate; cases were observed where over 80% of a solar unit’s output would drop in less than five seconds. This rapid fluctuation in circuit power flows can cause undesirable voltage conditions that are difficult for existing infrastructure to correct. To solve this, a battery system was envisioned that charged and discharged to absorb the solar-induced “power swings”, allowing the circuit’s voltage profile to remain smooth despite significant and rapid changes to the power flows along it.

FIAMM together with S&C installed a 250 k/H Energy Storage System in order to double the production of energy coming from one of the Utility’s photovoltaic structures, going from 1 to 2 MW.

The system will store the energy produced and then release it into the grid, eliminating tension peaks and leveling off supply.

Description of the system: The Rankin Energy Storage System is comprised of several major components including: battery, power conditioning system (PCS), balance of plant equipment and automation and control equipment.

The battery system is composed of 12 FIAMM SoNick sodium-nickel ZEBRA batteries connected in parallel in a 20’ container.

Each battery has a nameplate energy rating of 23.56 kWh, an open circuit voltage rating of 620 VDC and a weight of 201 kg. The total system nameplate capacity is 216 kW/282 kWh. The battery specific power rating is 90 W/kg for typical operations.

References: White Paper “Mitigating solar intermittency using energy storage on a utility distribution system” - Dec 2012 by Dan Sowder, P.E. - Duke Energy Corporation, Charlotte, NC, USA

Awarded at San Diego’s DistribuTECH as Best Renewable Integration Project!
**Who’s Xcel?** Xcel Energy Inc. is a utility holding company based in Minnesota, serving more than 3.3 million electric customers and 1.8 million natural gas customers. It consists of four subsidiaries: Northern States Power-Minnesota, Northern States Power-Wisconsin, Public Service Company of Colorado, and Southwestern Public Service Co..

**Project: Community Energy Storage project**

The Community Energy Storage project is a joint, multi-year research effort between Xcel Energy and EPRI to field demonstrate a sodium nickel chloride battery storage solution developed by FIAMM at the Solar Technology Acceleration Center (SolarTAC) and is intended to support a model solar neighborhood composed of four grid-connected residential solar simulation sites.
Project data:

Location: Denver – USA

UNIT: 1 CABINET (3 Z37 620V 38Ah)
ENERGY: 70 KWh
POWER: 25 KW

Supply goal: FIAMM is working with the Electric Power Research Institute (EPRI) to test the use of a 25-kilowatt FIAMM battery. The battery will be integrated with four small-scale photovoltaic installations to simulate a neighborhood with high levels of solar production. The project is testing the battery at an “end-of-feeder” location along the distribution system. The main objective with this project is power smoothing and ramp control: the storage system will generate and absorb active and reactive power controlled by SCADA of Xcel. The grid connected utility simulation site is located inside R&D test area owned by Xcel Energy Cowell and SolarTAC in Watkins, Colorado.

Description of the system: FIAMM developed an installation of 75kWh storage system in collaboration with S&C. Xcel installed four PV sites along with four load banks to emulate typical circuit loads with variable feed from renewables behind meter. Coupled with a power conversion system (PCS) manufactured by S&C Electric, the 25 kW/50 kWh battery energy storage system (BESS) provided by FIAMM is being evaluated for its ability to efficiently perform a number of operating modes, including time-shifting, smoothing, ramp rate limiting, as well as scheduled charge and discharge. The CES system, connected to a distribution network via a single-phase 50kVA transformer, is intended to support a model solar neighborhood composed of four grid-connected residential solar simulation sites. Each site represents a single home and comprises a variable load bank, a photovoltaic (PV) array, an inverter, and various meters for monitoring power flow and other parameters such as current, voltage, and power accumulation. In this way, it is anticipated that project testing will be able to more accurately capture the BESS’s performance capabilities in a real-world setting, under various scenario-based conditions.

References: In 2011, the Colorado Public Utilities Commission approved the Community Energy Storage project as part of the Colorado Innovative Clean Technology Program.
Customer: SMUD

Who’s SMUD? As the nation’s sixth-largest community-owned electric service provider, SMUD has been providing low-cost, reliable electricity for more than 65 years to Sacramento County (and small adjoining portions of Placer and Yolo Counties). SMUD is a recognized industry leader and award winner for its innovative energy efficiency programs, renewable power technologies, and for its sustainable solutions for a healthier environment. SMUD is the first large California utility to receive more than 20 percent of its energy from renewable resources.

Project: SMUD project

This is the first installation of the new FIAMM ST523 batteries in the U.S. and demonstration of the concept cabinet design. The substation built by FIAMM stores the energy from the photovoltaic system and makes it available to current and future installations, also for electric vehicles and charging fast.
Project data:

Location: Sacramento (CA) - USA

UNIT: 2 CABINETS (8 ST523 620V 23,5kWh)

ENERGY: 190 kWh

POWER: 50 kW

Supply goal: FIAMM, together with GreenSmith and Parker, is a key partner in the SMUD project, whose purpose is to develop and prove effective a so-called Community Energy Storage System, a larger set of smart-grid related activities for the management of PV with energy storage for the use of electric vehicles and management of their EV charge and fast charge infrastructure.

Description of the system:. The system is composed by 8 FIAMM SoNick ST523 batteries and a PCS base developed by Parker, allowing SMUD to use a unified control system based on SCADA power controls. Deploying two cabinets with 4 batteries in each, FIAMM is providing SMUD with 190kWh and 50kW of power.
Customer: INES CEA

Who’s INES CEA? The National Solar Energy Institute (INES) is France’s center of reference in the field of solar energy. The Research and Innovation Division ensures close links between pure research and applied research carried out in association with industry on solar thermal, photovoltaic and building energy. INES’s research teams investigate all aspects of solar photovoltaic energy and is currently studying methods increasing the efficiency of solar cells and developing storage systems for innovative forms of energy.

Project: Managing the SoNick batteries within Smart Grid.

The partnership concerns electrochemical studies on sodium Nickel cells (test of single cells) and the development of a multi physique model.
Project data:

Location: Le Bourget du Lac – France

UNIT: 4,51 BESS (6 Z37 620V 23,5kWh)

ENERGY: 140 KWh

POWER: 100 KW

Supply goal: The project to INES at the Bourget du Lac has been purpose-designed for INES CEA to validate the technology Sonick NaNICl2 within Smart Grid using a more intelligence inside Software for storage. The test proved a very fast Responses (200ms -1s) to preserve grid stability, fast responses facing the fluctuations of intermittent PV and/or loads that can be more than 100 m far from the storage Read into datas from BMS, inverters and auxiliaries to optimize the use of the storage and extend its life. Optimize multiple strategies simultaneously to enhance the return on investment.

Description of the system: Customized 20 ft Container with thermal insulation and fire protection side batteries only, equipped with batteries rack, ducts for cables, AC cooling systems, lighting and outside main switch drid ON/OFF. Two power conversion System incudes Electrical cabinet, main switches, grid analyzers, cables, power supply and minor components. Supervision and controls system, PLC, software and touch LCD panel, with license.
Date: January, 2013

Customer: T&D Water Technologies and Development
Final User: Maldives Luxury Island Resort

Who’s T&D? T&D Water Technologies and Development is a photovoltaic EPC (Engineering Procurement Construction), specialized in hybrid/Smart Grid solutions and water treatment.

Project: Maldives Project

The Maldives Luxury Resort is a private project for the construction of a eco-sustainale resort. FIAMM has provided a green storage system working in a micro-grid composed of a 1.2 MWp PV Plant and a diesel GEN-SETS working a few hours a day as back-up.
Project data:

Location: Maldives Islands

**UNIT:** 1 BESS (64 ST523 620V 23,5kWh)

**ENERGY:** 1.2 MWh (400 KW x 3h)

**POWER:** 600 KW – 800 kVA

Supply goal: Contributing to the creation of an eco-building resort, strongly desired to be compatible with programs to reduce CO₂ emissions. The storage system provided by FIAMM fully blends with the eco-sustainability purpose as consisting of a containerized solution containing a range of FIAM SoNick batteries, safe, totally recyclable and eco-friendly. FIAMM storage solution is capable of self-managing the distribution of energy by selecting whether to draw it directly upon the photovoltaic generation – rather than from the batteries - or to produce it via the two diesel generators. This will make it possible to optimise production and distribute the energy, and to limit acoustic disturbance of the guests to a minimum. Furthermore it will make it possible to use the energy accumulated in the batteries during quiet hours or at night, thereby drastically reducing noise and other types of pollution. All in all there will be more than a 60% reduction in diesel consumption.

Description of the system: turn-key battery storage system composed by a BESS Energy Spring Container containing 64 FIAMM SoNick batteries. The system is interfaced with a 1081 kWp PV system, diesel generators (2x500kVA/380kW and 2x800 kVA/550kW) and PPC (Power Plant Control).
Customer: EDF EN

Who’s EDF EN? Is a French renewable energy corporation, owned by French electric utility Électricité de France. EDF Énergies Nouvelles is largely a developer of wind farm projects, but has the goal of diversifying into all commercially viable renewable energy technologies.

EDF EN has believed FIAMM due to best result of Pure electric buses fleet in Lyon equipped with zebra battery model Z5 557 and experience on NaNiCl2 industrial battery manufactures, as requested on the tender ITT Letter Ref. LT-201303-025 Energy Storage Plant for toucan.
Supply goal: The project to Colombiers, has been purpose-designed for EDF EN to validate the technology Sonick NaNICl2 and test their PMS "power management system," the report received from EDF has demonstrated the validity of the system and its integration with a renewable sources.

Description of the system: The system integrated into a standard 20" internally it is divided with a wall that create two rooms, hot and cold. In the hot room are allocated the 3 batteries in order to increase the efficiency of the battery, in the cold chamber are allocated the MAIN protection and circuit breakers, power conversion system, SCADA.
Project: Toucan

Date: August, 2013

Project data:

Location: French Guyanne - South America

UNIT: 4,5 SPRING 164

ENERGY: 4.5 MWh

POWER: 2.0 MW

Supply goal: The Toucan Project integrates the Policy of Guyana to meet increasing energy demand by promoting renewable energy through photovoltaic power plants. The photovoltaic project will contribute to reach the objectives of the Grenelle of the environment and meet the growing needs for electricity of the Guyanese.

The tender was won by FIAMM ESS and NIDEC ASI France formed a consortium “FIAMM as leading”. The Storage is connected to the photovoltaic panels in the plant prepared in the area near to Montsinery near the substation MV, in the backland of the French Guiana, whose energy will be stored by them during the day for releasing it during the night hours.

Description of the system: 5 units BESS FIAMM SPRING 164 suitable to offer a 4500 kWh storage capacity and a maximum release power towards the distribution grid of 1500kW x 3h, including: 288 FIAMM ST 523 accumulators, Racks, DC cabling, DC breakers, Cooling system, Commissioning supervision, user’s instruction manual. PCS of 1.6MW including the power plant controls. In the project FIAMM will supply also O&M per 20 years. Civil works and positioning container included in the scope of supply.
Customer: SIEMENS

Final User: Genoa University

Who’s SIEMENS? It’s a German multinational engineering and electronics conglomerate company headquartered in Berlin and Munich. It is Europe's largest engineering company, organized into four main divisions: Industry, Energy, Healthcare and Infrastructure & Cities.

Project: Installing a Smart Polygeneration Mycrogrid in Savona University Campus: the system is able to regulate the campus’ production and energy consumption
Project:

Project data:
Location: Campus Savona, University of Genoa

UNIT: 1 SPRING 306
ENERGY: 140 KWh
POWER: 62 kW

Supply goal: regulate the campus’ production and energy consumption, comparable to those of a town of 5-10,000 inhabitants.

Description of the system: FIAMM ESS has provided an energy storage system (FIAMM SPRING mod. 306) made of 3+3 batteries, model ST523. The base of PCS is a 62 kW bidirectional inverter with transformer. The batteries will be delivered to FIAMM assembly plant in Almisano (VI) and moved by SIEMENS I&C to Savona (Campus di Savona, University of Genoa).
Customer: TERNA

Who’s TERNA? Terna S.p.A. - Rete Elettrica Nazionale is an Italian electricity transmission system operator based in Rome, Italy. With 63,500 kilometres of power lines or around 98% of the Italian high-voltage power transmission grid, it is the first electricity transmission grid operator in Europe and sixth in the world for kilometers of electricity lines managed. Through Terna Rete Italia safely manages the Italian electricity system. Through Terna Plus manages new business opportunities and non-traditional activities, in Italy and abroad.

Projects: Grid Services (Energy LAB)

TERNA give forth a tender, whose 3 MW were awarded to solutions featuring sodium nickel chloride technology, falling within the scope of a large safety, network protection and national power grid modernization plan organized by the operator. FIAMM Energy Storage Solutions, together with Tozzi Sud and Nidec Asi, has been awarded the Terna contract for the supply of sodium-based electrochemical energy storage systems.
Project: Codrongianos station

Date: September, 2013

Project data:

Location: Codrongianos, Sardinia - Italy

UNIT: 4 SPRING 364

ENERGY: 4.15 MWh

POWER: 1.2 MW (constant power discharge)

Supply goal: FIAMM will provide a system able to stabilize the network by storing the energy generated by the power station, and rendering it available at peak demand times and during voltage dips, both for Energy Intensive and Power Intensive Application. SoNick batteries allow for a greater amount of energy to be concentrated within a confined space and are also capable of withstanding extreme weather conditions drastically reducing the cost of equipping the stations with suitable refrigeration units, thus also reducing power consumption.

Description of the system: FIAMM installed four container FIAMM Energy Spring (BESS) each made of 64 FIAMM ST523 batteries, for a total of 256 batteries, to accomplish the requirements of the Technical Specification ST13 002SL TPINN and of a convertion system DC/AC made by Nidec-ASI with a nominal power of 1,2MVA, with a Sistema di Local Integrated Control (SCI – PCS Controller).

In particular the energy storage system is made to ensure during the continuous discharge, in every functioning point the power of 1.2MW at the connection PCMT.
Project: Ciminna station  
Date: April, 2014

Project data:

Location: Ciminna, Sicilia - Italy

UNIT: 4 BESS SPRING 164 (256 ST523 620V 23,5kWh)

ENERGY: 4150 kWh

POWER: 1200kW x 3.5h.

Supply goal: Once again the substation will be built by FIAMM Energy Storage Solutions together with the RTC Consortium, with FIAMM supplying 4 FIAMM SPRING 164 BESS units for a total of 256 FIAMM ST 523 accumulators, which are capable of providing a storage capacity of 4150 kWh and a maximum power release of 1200kW x 3.5h to the distribution grid. SoNick batteries provide an important flexibility component in terms of energy transfer over time and storage capacity for network security purposes.

Description of the system: FIAMM installed four container FIAMM Energy Spring (BESS) each made of 64 FIAMM ST523 batteries, for a total of 256 batteries, to accomplish the requirements of the Technical Specification ST13 002SL TPINN and of a conversion system DC/AC made by Nidec-ASI with a nominal power of 1,2MVA, with a Sistema di Local Integrated Control (SCI – PCS Controller).
In particular the energy storage system is made to ensure during the continuous discharge, in every functioning point the power of 1.2MW at the connection PCMT.
Customer: Itaipu

Who’s EDF EN? The Itaipu Dam is a hydroelectric dam on the Paraná River located on the border between Brazil and Paraguay. The name "Itaipu" was taken from an isle that existed near the construction site. The dam is the largest operating hydroelectric facility in terms of annual energy generation.

FIAMM supplied an off-grid system to supply border military settlements
Supply goal: the aim of the system is to supply an off-grid station adopted to provide energy for military services in order to avoid possible black-out that could damage or create malfunctioning to the sensible equipment.

Description of the system: 1 units BESS FIAMM SPRING 164 suitable to offer a 1500 kWh storage capacity and a power of 400 kW. The system is composed by 64 FIAMM ST523, 2 FIAMM ST104V batteries and 4 FIAMM ST108v batteries.
Customer: Enel Green Power

**Who’s Enel Green Power?** Established in December 2008, is the Enel Group company that develops and manages energy generation from renewable sources at a global level, with a presence in Europe and the Americas. Enel Green Power is a major global operator in the field of energy generation from renewable sources, with an annual production of 25 TW/h, mainly from water, the Sun, wind and the Earth’s heat, meeting the energy consumption of over 8 million families and avoiding 16 million tonnes of CO2 emissions per year. Enel Green Power has an installed capacity of 9,136 MW, produced by over 717 plants in 16 countries and with a generation mix that includes wind, solar, hydro, geothermal and biomass.

**Project: Ollagüe Chile**

The project is aimed to create a stand-alone solution for the City of Ollague, in order to build a Micro Grid for Mining application, optimazing the Diesel consumption.
Project data:
Location: Ollagüe Chile

**UNIT:** 1 SPRING 132 (n° 32 ST 523 batteries)

**ENERGY:** 560 KWh

**POWER:** 250 KW

Supply goal: The aim of this international project is to ensure electricity self-sufficiency to 150 families residing in Ollagüe village that have access to electricity only during daylight hours, by using energy produced through a diesel generator. FIAMM is the technological partner of this project by supplying a containerized turn-key solution composed by batteries, electronic&control management system of the energy flows and control system of energy storage connected to the generation plants.

Description of the system:

- Battery storage for about 560kWh net at 70% DOD, for a calculated power of about 500 kW available both in charge and discharge, with a maximum power of 1MW
- ESS and hybrid grid management (distributed generation, load and BESS)
- PCS for batteries
- Interface with Ropatec WTG and diesel gen-set
- Inverter for PV
- Flexibility for future expansions and/or experimental activities: possibility to install and integrate further generators (e.g. PV trackers, CSP, Thermodynamic systems)
- Possibility to integrate smart meters
Customer: POSCO

Who’s POSCO? It’s the world's fourth-largest steelmaker company headquartered in Pohang, South Korea. POSCO currently operates two integrated steel mills in South Korea. In addition, the company operates a joint venture with U.S. Steel, located in California, USA.

FIAMM has provided an energy backup system for Posco Power Plant in South Korea, supplying 15 110RW80 FIAMM SoNick batteries.
Project: G Project for Power Plant

Project data:

Location: South Korea

UNIT: 15 110RW80 BATTERIES 110V 80Ah
ENERGY: 132 kWh
POWER: 50 KW

Supply goals: POSCO want to deploy the Sonick battery 110RW80 to provide the energy backup for its 3 Power Plant Nr. 7, Nr. 8 and Nr.9

Description of the system: the batteries supplies a UPS at 110Vdc for supporting critical loads in the event of mains failure (50kW per hour).
There system is composed by 15 110RW80 batteries connected in parallel, in a stand-alone mode.
There is a monitoring system on CanBus line with a touch-screen user terminal developed by the customer.
Customer: U.S. T-Mobile

Who’s U.S. T-Mobile? It’s a mobile operator in the U.S., the fourth in terms of subscribers in the United States. It’s used to house computer systems and telecommunications and storage systems. Includes backup power supplies, redundant data communications connections, environmental controls and various security devices.

Project: T-Mobile Datacenter 1 MWh

FIAMM batteries are installed in data centers - where are managed all the information technology operations - that have stringent requirements in terms of service continuity. The batteries are used as uninterruptible power systems (back-up) in order to provide for any lack of energy supply.
Project data:
Location: Nashville – USA
UNIT: 256 48TL80
ENERGY: 1 MWh

Supply goal: In recent years the demand for data services is increasing and this obliges operators like T-Mobile to adapt their infrastructures in order to meet that demand, involving the use of more space in the premises that are often not available.
Also thanks to sodium batteries, T-Mobile has undertaken a task of deep re-design his data center – the so called "High Density Facility Design." The advantage of using Fiamm Sonick batteries is mainly related to the maximum amount of energy installed per square meter - far superior to the one available with traditional technologies, the consistent performance regardless of the temperatures which avoids the use of dedicated spaces, the scalable and modular architecture that allows for future expansion, and of course the long life expectancy.
Up to this time, 10 data centers been successfully installed: around 700 48TL200 battery modules for a total of about 6.7 MWh, without counting the future expansions already planned. For the moment, the larger site is foreseeing a total of about 450 modules for 4.3 MWh installed.

Description of the system: Each rack can accommodate up to 16 48TL200 batteries on two 8 floors columns. Each floor has a removable tray that holds 2 hot swap batteries, removable without stopping the system. Each site is organized into power groups of 8 units, divided into 2 sub-units (A and B).
The racks are powered by 48V rectifiers that also feed the loads. All batteries operates as a stand-alone system with a 48V DC bus.
The application is controlled by a monitoring system: each rack is equipped with a small gateway communicationg with the batteries in Modbus RS485 and Modbus outwards via Ethernet. All the racks of the site are connected through a LAN switch with FIAMM Nexus monitoring and managing system.
FIAMM Sodium Nickel Batteries / Environment

- Low environmental impact:
- Zero ambient emissions
- Free of highly toxic materials
- 100% recyclable stainless steel, nickel, iron, salt, ceramic
- Battery ext. temp. only a few degrees above environment.

FIAMM SoNick Battery / Safety Evaluation

Sodium-Metal Chloride battery achieved NEBS certification. Relevant tests passed:
- Temperature and heat dissipation
- Fire resistance
- Short circuiting
- Electro Magnetic Interference

a detailed evaluation of the Health and Safety Issues of the Sodium-Metal Chloride battery, performed by the National Renewable Energy Laboratory – US Department of Energy, is available.
### TELECOM
- MTN – RSA
- Eltek Valere – USA
- Telefonica – Spain
- OTE – Greece
- Telecom Italia – Italy
- T-Mobile – US
- Cosmote – Romania
- Elcos – Italy
- Nokia Siemens - Finland

### INDUSTRIAL
- INES – France
- ABB – Switzerland
- Posco – Korea
- General Atomic – USA
- Halton Hills Hydro – Canada
- Fraunhofer Inst. – Germany
- EDF – France
- Terna - Italy

### Under Evaluation
- Ericsson – Sweden
- Verizon – US
- MTS – Russia
- AT&T - US

### RAILWAYS
- SNCF – France
- Bombardier – Canada
- PRASA – South Africa
- Treni Italia – Italy
- Scomi - Malaysia

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10 year successful experience of Zebra Sonick Batteries in electric motion

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Enphase Energy who design and manufacturer micro solar inverters and monitoring equipment. Enphase Energy is dedicated to bringing an unprecedented level of quality and reliability to the solar industry.

Q.Cells Q.Cells is a manufacturer of photovoltaic (PV) solar cells, a global market leader in solar panel manufacture. Q.Cells has proven themselves to be the most durable panels on the market and they have some of the strongest warranties around.

FIamm As the market leader, FIamm researched and developed, owns and uses Sodium Nickel Chloride technology (SoNick) and offers batteries and storage solutions, scalable for all sizes, ranging from residential and industrial to national utility applications. The FIamm SoNick technology solves the environmental recycling challenge, as all components are 100% recyclable. This means, FIamm technology fulfils the holistic call for fully ecological energy usage.

ABB is a leader in power and automation technologies that enable utility, industry, and transport and infrastructure customers to improve their performance while lowering environmental impact. For ABB, sustainability is about balancing economic success, environmental stewardship and social progress to benefit all our stakeholders. Sustainability is part of ABB's corporate strategy and business success.