

AKKA, VIA ITS BIG DATA PLATFORM, JOINS FORCES WITH THE START-UP SYLFEN

PRESS RELEASE

Brussels, March 2nd 2021 – The AKKA Group, European leader in engineering consultancy and R&D services in the mobility sector and Data Science expert is joining forces with the Grenoble-based start-up SYLFEN via its Big Data platform in order to develop the building of the future, self-sufficient in renewable energy.

SYLFEN develops integrated solutions that help building owners to make a successful energy transition. In order to minimise the environmental impact of buildings, responsible for 36% of greenhouse gas emissions in Europe, SYLFEN is working on the transition to a decentralised, decarbonised and digitalised energy.

SYLFEN has developed the *Smart Energy Hub*, a modular equipment that can be integrated into any building thanks to an innovative hydrogen technology hybridised with batteries.

This system allows - in addition to other renewable energy sources – not only to store surplus renewable electricity by charging batteries and producing green hydrogen, but also to supply the building with electricity and heat from locally produced stored energy (batteries, hydrogen) or natural gas (cogeneration).

AKKA, partner and Big Data expert

SYLFEN's objective is to provide its clients with (i) an automatic, predictive and optimised energy flow control for each building, (ii) a communication on environmental and energy performance and (iii) a service of predictive maintenance. To meet this objective, AKKA teams have operated in processing the large volume of data generated by integrating the Big Data platform into SYLFEN's information system.

AKKA's Big Data platform is an integrated platform that manages the entire data processing chain. It allows to massively collect heterogeneous data from SYLFEN (solar production, electrical and thermal consumption of buildings, technical data, etc.) and to facilitate data visualisation and mining.

First use cases have already been implemented and SYLFEN teams are trained for an independent long-term usage of the Big Data platform, enabling them to control, develop and improve algorithms for energy efficiency as well as for production and consumption forecasting.

AKKA's contribution to this project highlights the Group's Big Data expertise and illustrates its ambition to reduce the ecological footprint of existing infrastructures and vehicles through technology and innovation.

Denis Grandjean, Akka's Business Unit Director, says: "We are delighted to be associated with a promising French start-up which brings an innovation wave in this evolving sector. We relied on our Data Centre of Expertise to carry out the project. The availability of our Big Data platform and the expertise of AKKA & SYLFEN teams will enable us to speed up data enhancement and, ultimately, time-to-market of SYLFEN's equipment. Value-added services for customers can thus be quickly developed, bringing an additional competitive advantage to SYLFEN. »

Nicolas Bardi, President of SYLFEN, adds: "In all our hardware and software developments, we seek to focus our efforts on innovations that have the greatest impact on our customers, by relying on the best partners to save time and to integrate industrial solutions. Our partnership with AKKA, which provides us with its expertise and strong reactivity, is an essential asset for SYLFEN's commercial success. »

NOTE FOR EDITORS:

What is the AKKA Big Data platform?





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ABOUT AKKA

AKKA is the European leader in engineering consulting and R&D services in the mobility segment. As an innovation accelerator for its clients, AKKA supports leading industry players in the automotive, aerospace, rail and life sciences sectors throughout the life cycle of their products with cutting edge digital technologies (AI, ADAS, IoT, Big Data, robotics, embedded computing, machine learning, etc.).

Founded in 1984, AKKA has a strong entrepreneurial culture and is pursuing its fast-paced growth and international development in line with its CLEAR 2022 strategic plan. With 22,000 employees, who are passionate about technology and dedicated to advancing the future of industry, the Group recorded revenues of €1.8 billion in 2019.

Following the completion of the friendly take-over bid of Data Respons launched in January 2020, AKKA now holds 100% of the company's shares; with the success of this operation, AKKA leverages the most comprehensive portfolio of digital solutions in Europe to harness the growing demand from its customers in the mobility sector.

AKKA Technologies is listed on Euronext Paris and Brussels – Segment A – ISIN code: FR0004180537.

For more information, please visit www.akka-technologies.com

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ABOUT SYLFEN

Sylfen is an industrial and software-based start-up funded in Grenoble in 2015, bringing to the market the missing piece to achieve the energy transition: a solution to supply buildings in a competitive and reliable way based on local and renewable energy. The Smart Energy Hub developed by Sylfen compensates the natural variability of renewable power sources like solar, wind power or small hydroelectricity, with a turnkey battery + hydrogen solution also enabling on-site combined heat and power generation from natural gas.

The technology was developed and validated in 2018 with CEA-Liten and Engie thanks to a proof-of-concept prototype. Today Sylfen manufactures in its industrial location in the French Alps region (near Grenoble) its first pilot products to be shipped to its first clients in France and Italy in 2021. Being able to cover now the needs of buildings from 1 500 to 10 000m² of floor area, Sylfen develops for 2023 a second product for larger buildings, districts or campus.

Sylfen works along its clients from the start to the end of a global new building or renovation project, by delivering projection studies (to configure the best energy storage and cogeneration solution for each project), engineering studies (to plan the technical integration of the Smart Energy Hub in the host building), then handles the commissioning, automated operation, and maintenance of the product.

For more information: www.sylfen.com

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