



Smart energy solutions

EV charging - Energy storage - Smart grids

EV charging

AC charging solutions for electric vehicles

Alfen has been developing smart electric vehicle charge points since 2008. Our range of 3.7-22kW AC chargers offers a solution for every situation and is designed to deliver maximum charging speeds, while safeguarding the local grid connection. As well as being connected in smart charging networks, all charge points can be integrated with renewables, smart energy and smart home solutions, and are also capable of responding to time-of-use energy tariffs.

All of Alfen's charge points can be connected to any OCPP-compliant back office for asset management and transaction services. Our products also allow for switching from one system to the other via a simple SIM card replacement, to accommodate future market changes. Alfen Connect is our proprietary back office management system for EV charge points. It provides access to usage data and allows remote monitoring, configuration and maintenance of charge points and charge point networks.



AC charge points

For home, business and public places



Alfen Connect

Remote monitoring and control of charge points



Service and maintenance

Remote and on-site throughout Europe



Energy storage

Plug & play energy storage systems

Customers have relied on our battery storage systems since 2011 for services including peak shaving, frequency control reserve (FCR) and trading. Additionally, our storage solutions can be deployed to make sites energy-neutral through self-consumption of locally generated renewable energy.

The modular storage solutions can extend to 50MW and beyond, are plug & play, and can be remotely monitored and managed. Alfen's unique mobile large battery solution can be moved fully charged to offer a flexible temporary storage or smart grid solution.

Our energy systems can be made smart using Alfen Connect, our cloud-based management system. As well as providing a real-time full energy view, it allows users to remotely monitor and operate storage systems.



Stationary storage systems

For peak shaving, FCR, trading and self-consumption of renewable energy



Mobile storage systems

Ideal substitute for diesel generators or where temporary energy is needed



Alfen Connect

Cloud-based monitoring and control of storage systems



Service & maintenance

Remote and on-site throughout Europe

Integrated solutions

Alfen is unique in its ability to offer integrated solutions across our business lines. All our products are built from the same foundation and can be seamlessly integrated.



10MW energy storage system connected to wind energy

Smart grids

Products and services for smart grid solutions

Prefabricated transformer substations are our primary expertise. We have manufactured and connected tens of thousands of units since 1968 and continue to work hard to innovate using the latest technological developments.

We are specialists in microgrid and off-grid projects and incorporate our own substations. These are available in a range of sizes, finishes and technical specifications and can also be fully automated to offer remote monitoring and management - an essential for any smart grid project. As well as promoting early identification of any potential bottlenecks, automation informs preventative maintenance planning and enables the rapid detection of, and response to, any live issues.



Transformer substations

Tailored, secondary transformer substations



Microgrids

Entire solutions including project management services



Switchgear

Tailored low and medium voltage switchgear solutions



Alfen Connect

Grid automation device for remote monitoring and control



Service and maintenance

Remote and on-site reactive and preventive maintenance



Microgrid for 17.5MW solar park

Alfen

Power to adapt

Founded in 1937, Alfen manufactures and integrates innovative smart energy solutions to help accelerate the transition to a sustainable energy future. Our electric vehicle charging stations, energy storage solutions and transformer substations are all designed for integration and interoperability and offer the highest level of data security. Constructed in-house from A-grade European components, they are chosen by utilities, grid operators and energy companies for their reliability and flexibility to help innovate, inform and optimise projects.

Whether you are using Alfen to deliver a smart energy project, supply and connect a substation, integrate a battery or charge your car, you can be confident that you have one of the highest quality solutions available and that it was designed with the future in mind.

Smart energy solutions

Our long history of distribution grid innovation makes Alfen a highly experienced partner for smart energy products and projects. We design, install, connect, automate and maintain various types of public and private projects. These typically incorporate our own manufactured solutions but also extend to connection and integration of commercial renewables projects.

Markets



Sustainable energy

A reliable and profitable sustainable energy supply



Greenhouse horticulture

An optimal and reliable energy supply for every greenhouse



Grid management

Working together on the electricity grid of the future



Industry

Ideal solutions for a reliable energy supply



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