



100% in just one hour

One reason for electromobility not gaining speed is due to the lack of a sufficient charging infrastructure. IES Synergy has taken up the challenge to change this. The French company has developed a state-of-the-art high-frequency technology, which enables fast and reliable charging in any outside environment. IES has been pioneering electric charging solutions for 25 years, and has become a global leader in this fast-evolving market. The main advantage of the company's fast charging technology is its unrivaled, easy-to-install, compact and economic solutions, facilitating the deployment of a one-hour charging infrastructure anywhere on the streets.

IES Synergy – IES stands for Intelligent Electronic Systems – is a leading supplier of advanced fast charging solutions for electric vehicles. Based in Saint Aunès, near Montpellier in southern France, the company develops and produces external charging stations for EV passenger cars, taxis and buses. IES Synergy also provides on-board chargers for light, utility and industrial electric vehicles including fork-lift trucks, aerial construction platforms and golf carts.

All IES charging solutions use the company's advanced high-frequency KEYWATT or ELIPS

technologies which enable fast and reliable charging, either on-board, on the road, or at any other location. Established in 1992, IES Synergy is one of the pioneers in rapid charging solutions for electric vehicles. "We started 25 years ago by designing and manufacturing chargers for electric industrial vehicles, requiring highly durable and compact products," says International Marketing Director Jean-Benoit Moreau. Since 2011, IES Synergy has also been manufacturing charging products for electric cars; the first car equipped with an IES charger was the Renault Twizy. "With our roots in industrial vehicles, we quickly be-

Based in southern France, IES Synergy is a pioneer and international market leader in electric charging solutions



came a solution in the EV market," explains Mr. Moreau. "We were the first supplier to partner with BMW in 2012, providing a KEYWATT Trolley Mobile Charger, equipped with the Combo protocol to charge the BMW i3. We have since produced more than 3,000 KEYWATT DC Wallbox chargers which can be found in many regions of the world. Today we 'charge' ahead with our solutions, with more than 50% of our sales now being outside of Europe."

near Montpellier, with offices in Germany, the United States and China. "In 2015, we entered the Chinese market with a great joint venture partner, Wanma, to further grow our position in one of the most dynamically evolving electromobility markets worldwide," says Mr. Moreau. "Not only does this joint venture in China give us access to the Chinese market but it also enables us to keep a strong competitive edge," adds Mr. Moreau.

IES Synergy turns over more than 20 million EUR in revenue, and employs 120 people at its headquarters

All IES external charging solutions, whether mobile, in a wallbox or on power modules, are compatible



IES Synergy wallboxes typically charges electric vehicles in less than one hour

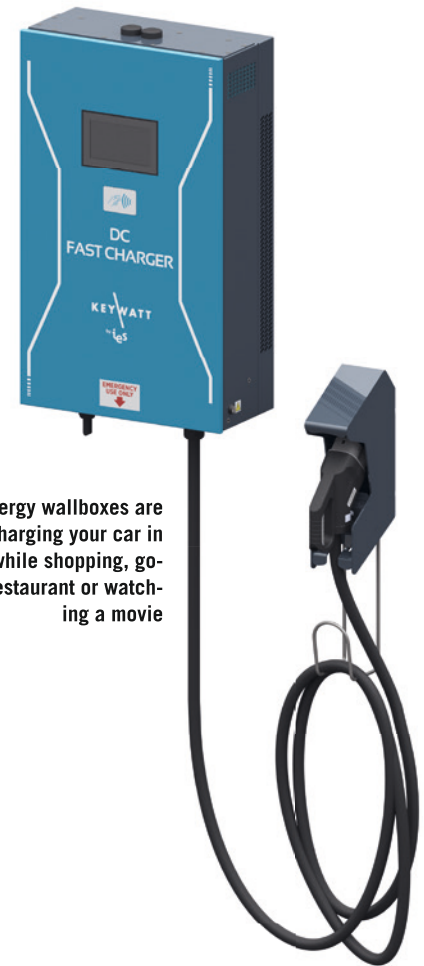
IES Synergy's mobile charging solutions make fast charging operations flexible and versatile



with the standard protocols used for communication between the charger and the vehicle: Combo 1&2, CHAdeMO and GB (for China). "Many car manufacturers, as well as the European Commission Joint Research Center, currently use our mobile solutions in their R&D labs or factories, and it is a great asset for ensuring a perfect communication between the car and the charger," states Mr. Moreau. The main advantage

of the IES Synergy charging solutions is their fast and easy deployment. "Installed in less than two hours, at a fraction of the cost considered for other solutions on the market, our DC 24kW wallbox can provide fast charging solutions in an easy way". IES Synergy is contributing to overcome a major obstacle in achieving the breakthrough of electromobility: the long time it takes for charging. "95% of today's charging systems

are slow" states Mr. Moreau. "With the growing prevalence of electric vehicles, demand for fast charging solutions will rapidly accelerate. New habits will also appear, charging electric cars will be completed in one hour while shopping, going to a restaurant, watching a movie etc. We see our fast charging solutions as critical to serving the high growth EV market and we are charging ahead to be the solution."



IES Synergy wallboxes are ideal for charging your car in one hour, while shopping, going to a restaurant or watching a movie

has the potential to change our society with clean energy, and we are well prepared to make a substantial contribution to this change."



IES Synergy wallboxes can be installed in less than two hours

IES Synergy is constantly developing new, more efficient charging solutions to expand its market presence. "In October, we shall present a new universal charging system designed to work with any type of electric car. To address the strong emerging Electric Bus markets in Europe and North America, as cities move towards all-electric buses, IES solutions are also well positioned for this new market, with a successful test phase completed in Paris," says Mr. Moreau. "We believe that electromobility



Beyond Charging

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