Electric vehicle charging platform

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Promoting Open Standards - Connecting the EV IndustryTogether we define the future of EV charging. Join the Open Charge Alliance and be at the forefront with the Open Charge Point Protocol (OCPP). Innovate, collaborate, and drive change.

The Open Charge Alliance (OCA) is a non-profit organisation founded in 2014. With members from all over the world we focus on open standards and improving the development of sustainable charging.

Our mission is to foster global development, adoption, and compliance of communication protocols in the EV charging infrastructure and related standards through collaboration, education, testing, and certification. The OCA reinvests the fees collected from members and companies purchasing OCTT to advance the development and spread of OCPP and other open standards.

With more than more than 350 members from all over the globe, we span all sectors of the industry, including charging equipment manufacturers, software and systems providers, charging network operators, and research organizations.

Join the OCA community and collaborate with global EV charging experts. As an OCA member, you’ll have a direct say in the future of the industry through the development and implementation of open communication standards like OCPP and OSCP.

With our platform, workgroups, taskgroups, and events, you’ll gain valuable insights, connect with peers, and speed up innovation in OCPP implementations. Explore our participant and certified companies to see who else is driving progress in the open EV charging space.

Electric vehicles already account for one in seven car sales globally, and with new gas and diesel cars being phased out across the world, global sales are forecast to reach 73 million units in 2040. But with power grids becoming increasingly dependent on variable energy sources such as wind and solar, rising demand from electric vehicles risks overstraining grids at peak times, potentially leading to power outages.

At Kaluza, we believe that our platform has a vital role to play in helping power grids and utility companies to stabilize their networks, while at the same time delivering more affordable, cleaner energy to the consumer. Powered by Google Cloud, the advanced algorithms behind our Kaluza Flex solution automatically charge electric vehicles when the power supply is at its cheapest and greenest, helping to accelerate the global transition towards a zero-carbon future.

Launched by OVO Energy in 2019, Kaluza has taken its deep understanding of the energy market to partner with some of the world"s major energy suppliers and vehicle manufacturers, including AGL in Australia, Fiat

and Nissan in the UK, and Mitsubishi Corporation and Chubu in Japan, to launch smart charging programs that help customers save money while reducing their carbon footprint.

A good example of this is Charge Anytime, which we recently launched with OVO Energy in the UK. With this tariff, customers use Kaluza to smart-charge their electric vehicle, and pay just 10p per kWh -- a third of their household electricity rate -- to do so. This means that if the customer plugs in their vehicle to charge when they get home from work at, say, 6:00 p.m. -- a time when both demand and the carbon intensity on the grid are at their highest -- their vehicle will then be smartly charged at the lowest cost and greenest periods throughout the night, ready for when they need it in the morning.

This smart charging reduces the energy company"s costs by enabling them to take advantage of lower wholesale electricity prices. These savings are then passed on to the end customer through tariffs such as Charge Anytime, saving customers hundreds of pounds a year and reducing their carbon footprint. Meanwhile, the National Grid is able to reduce the strain on the network during peak hours, while simultaneously using up the excess renewable energy that might otherwise have gone to waste.

Behind Kaluza"s smart charging solution lies some sophisticated technology, all of which is built on Google Cloud. Our core optimization engine gathers real-time data from a wide range of sources, including battery and charging data from the electric vehicles, and data from the energy suppliers and grid operators, such as the carbon intensity, and price forecasts.