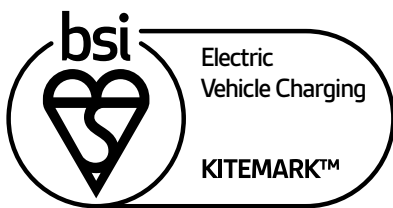


**bsi.**

...making excellence a habit.™

# Powering confidence in electric vehicle charging



## Driving confidence in vehicle charging

The market for electric vehicle charging products is fast accelerating. Innovation in the market is prevalent, with around 50 manufacturers offering hundreds of different products and new players entering the market globally. Routes to market add further complexity including manufacturer-owned public check points; network providers enabling charging at service stations; and consumer in-home installations via utilities firms, leasing companies and car manufacturers.

This emerging industry, with its influx of new global players that previously had little guidance on excellence and quality requires a route map to assurance. This is where BSI can help with a new Kitemark that sparks safety and quality confidence in this innovate new market.

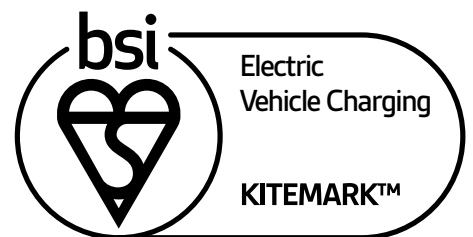
UK roads are expected to make way for **23.2\* million vehicles** (including passenger and HGVs vehicles) **by 2023** (55% of all vehicles on the road) and by **2050 possibly up to 49.0 million** (100%), requiring a significant increase in charging stations to support this growth.

Meanwhile, the Rapid Charging Fund\*\* was announced in March 2020 Budget as part of a £500 million commitment for EV infrastructure. The purpose of this programme is to ensure that there is a rapid-charging network ready to meet long-term consumer demand for electric vehicle charge points ahead of need.

To date, there has been no widely available industry scheme to help companies differentiate themselves and effectively market their products. In the UK, the Office for Zero-Emission Vehicles (OZEV) introduced minimum technical specifications for home and workplace charging of vehicles. The specification is based on the test reports produced by the manufacturers rather than industry recognized quality mark.

As a result many organizations needing to install these systems – such as local authorities are struggling to keep pace. Making purchasing decisions amid bewildering array of new developments has become challenging, which is why BSI has launched this dedicated new Kitemark. scheme.

Market growth at this speed requires independent market assurance and our Kitemark is key to developing wide scale acceptance of quality and safety.



\* <https://www.theccc.org.uk/wp-content/uploads/2020/12/The-UKs-transition-to-electric-vehicles.pdf>

\*\* <https://www.gov.uk/government/publications/government-vision-for-the-rapid-chargepoint-network-in-england/government-vision-for-the-rapid-chargepoint-network-in-england>

## BSI: responding to a fast-moving market

BSI has developed a Kitemark for Electric Vehicle Charging points to address the current industry challenges.

Kitemark certification is the ultimate mark of trust. First developed in the early twentieth century, Kitemark certification schemes recognize excellence in manufacturing and service provision. In other words, BSI Kitemark certification tells a customer, a company or service goes the extra mile.

The Kitemark will support market assurance around the rapid expansion and technological advancement in electric vehicles and their associated systems.

### The Kitemark will complement BSI's existing electric vehicle charging standards:

<b>BS EN IEC 61851-1:2019</b>	Electric vehicle conductive charging system Part 1: General requirements
<b>BS EN 62196-1:2014</b>	Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles Part 1: General requirements
<b>BS EN 62196-2:2017</b>	Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories
<b>BS EN 62196-3:2014</b>	Plugs, socket-outlets, vehicle connectors and vehicle inlets — Conductive charging of electric vehicles Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers

Our expert certification team, utilizing their existing charging standards skills and experience.

Prior to the launch of BSI's Kitemark, assurance was focused solely on compliance with the minimum technical specification, which includes British Standards. BSI Kitemark help manufacturers not only meet but also exceed the minimum technical requirements set out by the OZEV and differentiate themselves from the competition by providing a quality mark from a third party organization.

## Good for makers, good for buyers

Manufacturers looking for market differentiation and wishing to export products globally along with component assemblers and importers will find this BSI Kitemark helpful.

Consumers and end purchasers who will be increasingly required to install charging points over the next few years will welcome the use of the Kitemark brand, with its strong commercial engagement for procurement decision-makers.

Many end users and purchasers with limited knowledge of these systems will look for market assurance that the products they install are safe and fit for purpose. The BSI Kitemark provides that assurance.





## BSI Kitemark™ certification

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Kitemark certification is exclusive to BSI and cannot be awarded by any other UKAS-accredited certification body.

Our laboratories carry out safety and performance testing of household and commercial electrical appliances and can help you achieve Kitemark certification.

Why apply for Kitemark certification? A gold standard of safety, performance, and reliability, it can differentiate you from the competition. It has far reach as a quality and safety symbol and is a recognized equivalent to many global counterparts.



## Why BSI?

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BSI has been developing world-leading standards for over 100 years and continues to break new ground. Our blend of heritage and newness makes us unique – we are the only organization that can offer such a powerful combination of innovation and international reach.

We work closely with leading manufacturers to ensure their products meet the latest regulations to gain market access. We focus on delivering a testing and certification partnership underpinned by quality, safety, reliability, and accuracy aligned to your product development requirements. That's why we're best placed to help you understand standards and to meet the requirements.

At BSI we share knowledge, innovation, and best practice to help people and organizations realize their potential. We are client-centric, agile, and collaborative.

**BSI: Inspiring trust for a more resilient world.**

**Get in touch today and find out more**

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