

CASE STUDY



Scheme: Easee One Domestic Installation

Location: Perth Area

Brief Description of Works:

Our Client asked us to install the most suitable domestic charge point for their new electric car at home. We had previously installed some commercial charges at their business grounds and they were very happy with the work we had done there.

Challenges and Solutions:

Our Clients' request was to install an electric vehicle (EV) charge point at their home residence - the space was more than adequate for placement of the charge point. However, the cable distances were beyond the normal run lengths that would normally be required for a domestic installation. This caused an increase in the cable size.

The cable had to be installed in ducting through the Clients' garden (approx. 15m), which included a high embankment, rockery, tree roots and a large retaining wall. Tronius maintained the structural integrity whilst navigating the wall and making sure works had no detrimental effect on it. This was achieved by carefully excavating with hand tools, placing the duct at the required depth and then backfilling. Once past the retaining wall, the installation continued under the property for an additional 25m. The cable was then terminated into a new, upgraded main circuit board in the house. There were multiple circuit faults that required to be rectified prior to commissioning the charge point.

In addition to the main circuit board in the house, there was a need to upgrade the small fuse board in the garage to bring it in line with new wiring regs and standards. This was relatively easy, and the space was unhindered in terms of access.

The Benefits:

- Our Client is now able to charge their newly acquired premium level, luxury, executive EV with the best technology that suited their requirements.
- Our Client can now also take advantage of charging at "Off-Peak" times instead of charging on local infrastructure that has recently seen exorbitant price increases.
- Our Client now has a fully compliant and safer electrical system due to the main circuit board upgrade and associated fault finding and rectification.
- Our Client can now monitor their charging costs and data with more control and adjust to suit.

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Post installation photos:



Fig:1 Easee One Charge Point



Fig 2: Cable route from Garage

Why Tronius Limited:

Tronius are an experienced electrification, EV charge point and renewables installation contractor who work collaboratively with their Clients to find the best fitting and most cost-efficient solutions that will ultimately benefit them now and well into the future.

Tronius are kit agnostic to any specific manufacturers - this enables us to make sure that we choose systems that are the perfect fit, and in line with our bespoke "Energy Transition Plan" data output gathered for the Clients' installation requirements. We can cover the whole of Scotland and the rest of the UK with our approved installation partners and subcontract engineering teams.

Client Testimonial:

"Tronius completed a Home Charger install along with a Main Fuse board replacement and Garage fuse board replacement. Not the easiest of jobs as the garage is a distance from my house! The engineers who arrived were professional, courteous, and very knowledgeable.

They completed the installation within the allotted time and did a great job. The install was not the easiest, with a 10mm Armoured Cable to install between the garage and house along with the issues evident when changing a 1970's Fuse board for a more modern unit but the engineers fault found the non-compliant circuits/fittings and rectified the issues. The works have been operational without issue since & is charging my car while providing stats - Many Thanks!"