



HOME EV CHARGING

Choose your charger. Know what to expect.

A straightforward guide to buying an EV charger
and having it installed at your home.



Home EV charging, Cardiff

Local advice. Safe installation. A clear handover.

NAPIT approved | Cardiff & South Wales

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01 / CHOOSING YOUR CHARGER

Find the right fit for your home

Start with your car, where you park and how you want to charge. We can help you choose before you buy.

Tethered or untethered?

A tethered charger has an attached cable, ready to plug into your car. An untethered charger has a socket and uses a separate compatible charging lead. Consider convenience, appearance and how you will store the cable.

Make sure the cable reaches

Allow for your car's charging port position and how you normally park. The lead should reach comfortably without stretching or creating a trip hazard. Choose the cable length before ordering.

Charging speed: the car matters too

Around 7 kW is a common home charging setup. Actual charging speed depends on the supply, the installation settings and your car's AC charging limit. Higher-power three-phase charging needs a suitable supply and vehicle; it is not a simple upgrade for every home.

Smart features and connection

Think about app control, charging schedules and any solar features you want. Check that your chosen charger and vehicle work with your intended energy tariff. Wi-Fi, mobile data or a wired connection may be used, depending on the model.

Compare the whole package

Ask about the charger model, warranty terms, cable length, electrical works, testing, certification and VAT. An attractive unit price may cover less than a complete installation.

Talk to us before you order

Tell us your vehicle model, preferred charger and budget. If you have a charger in mind - such as Hypervolt, myenergi zappi or BG Sync Energy - we can check the exact model and installation requirements with you.

02 / THE ELECTRICS BEHIND THE CHARGER

Why we usually fit an EV board

Your charger needs its own dedicated electrical circuit with protection suited to the charger and your property.

Our usual installation approach

We usually fit a new, dedicated EV distribution board near the incoming electrical supply. It provides a separate place for the charger's circuit protection and surge protection, as specified for your installation.

When can we use the existing board?

If your current consumer unit is suitable, has capacity for the new circuit and can accommodate the correct compatible protection, we may be able to use it. A modern-looking board alone is not enough: we check the electrical arrangement first.

What do we check?

We assess the incoming supply, existing demand, earthing and bonding, consumer unit and cable route. We also confirm the protection required for the charger. Any issues affecting the new installation are explained before we agree the work.

Does a separate EV board mean a full house upgrade?

A dedicated EV board does not automatically mean replacing your main consumer unit. Equally, it does not resolve every existing electrical issue. Any necessary remedial work is identified and quoted separately.

What is load management?

Where specified, load management monitors the property's electricity use and adjusts charging to keep demand within the agreed supply limit. It may slow or pause charging while other appliances are using more power.

Why cable routes affect the price

A longer or awkward route uses more materials and installation time. Cable size is selected for the route, length and electrical design. Detached garages, trenches and concealed routes may require additional work, which your quote should explain.

03 / FROM ENQUIRY TO CHARGING

Your installation, step by step

Most of our straightforward home installations are planned for one working day. We confirm the timing for your property when quoting.

1 Tell us what you need

Send your vehicle details, postcode, preferred charger position and photos of the supply, consumer unit and cable route. We may arrange a site visit where needed.

2 Survey and written quote

We assess the electrics, agree the charger position and cable route, and set out the equipment, installation work, price and any extras.

3 Network checks and planning

We handle the Distribution Network Operator (DNO) application or notification as appropriate. Some supplies need approval or network work before installation; this can affect the booking date.

4 Install the board, cable and charger

We install the dedicated EV board or use a suitable existing board, run the agreed cable route and mount the charger. Expect a planned interruption to the electricity supply while connections are made.

5 Test and commission

We inspect and test the new installation, configure the charger and any specified load management, and check its operation. App setup depends on compatible devices and a suitable connection.

6 Handover and paperwork

We show you the controls and charging schedule, provide an Electrical Installation Certificate and complete applicable Building Regulations notification. We explain how to get help afterwards.

Network work is separate

If an incoming supply upgrade, unlooping or isolator visit is required, we explain who needs to arrange it. Charges and timescales for third-party work are confirmed separately unless expressly included in your quote.

04 / GETTING READY

A smooth start to home charging

A few simple preparations help us install and hand over your charger without avoidable delays.

Before installation day

Clear access to the meter, consumer unit, cable route and parking area. Have your phone, app login and Wi-Fi details ready, and arrange any landlord or property-owner permission needed.

Check the connection at the charger position

If your chosen model uses Wi-Fi, check coverage where the charger will be fitted. A booster or a wired data connection may be needed where supported. Additional connectivity work is included only where stated in the quote.

Check what your quote includes

Confirm the board and protection, cable length and route, charger model, testing, paperwork and total including VAT. Check allowances for groundworks, making good, electrical remedials and third-party supply work.

After installation

Keep the certificate and warranty information. Follow the manufacturer's guidance, keep cables tidy and check for damage. If you notice damage or repeated faults, stop using the charger and contact us.

Ready for a quote?

Call **029 2169 0244**

Email **info@nextgenerationelectrical.co.uk**

www.nextgenerationelectrical.co.uk

Next-Generation Electrical & Security Ltd

NAPIT approved electricians serving Cardiff and South Wales.

Also helping with CCTV, electrical inspections, sockets, switches and full rewires.

About this guide

General customer guidance, October 2026. Your agreed quote defines the work included. Company information, logo and installation image: nextgenerationelectrical.co.uk. Technical background: IET EV charging guidance, Energy Saving Trust and Energy Networks Association.

IET: EV circuit protection | Energy Saving Trust: charging | ENA: network connections