



Alister Hamilton: 'Growing EVA Scotland'

Edinburgh Napier University Electric Vehicle Event, Wednesday 10th October 2018



Electric Vehicle Association Scotland

About EVA Scotland



The Electric Vehicle Association (EVA) Scotland is a Community Interest Company registered since June 2017.

EVA Scotland has a board of 6 Directors.

EVA Scotland acts as a membership organisation.

Our aims

EVA Scotland's aims are:

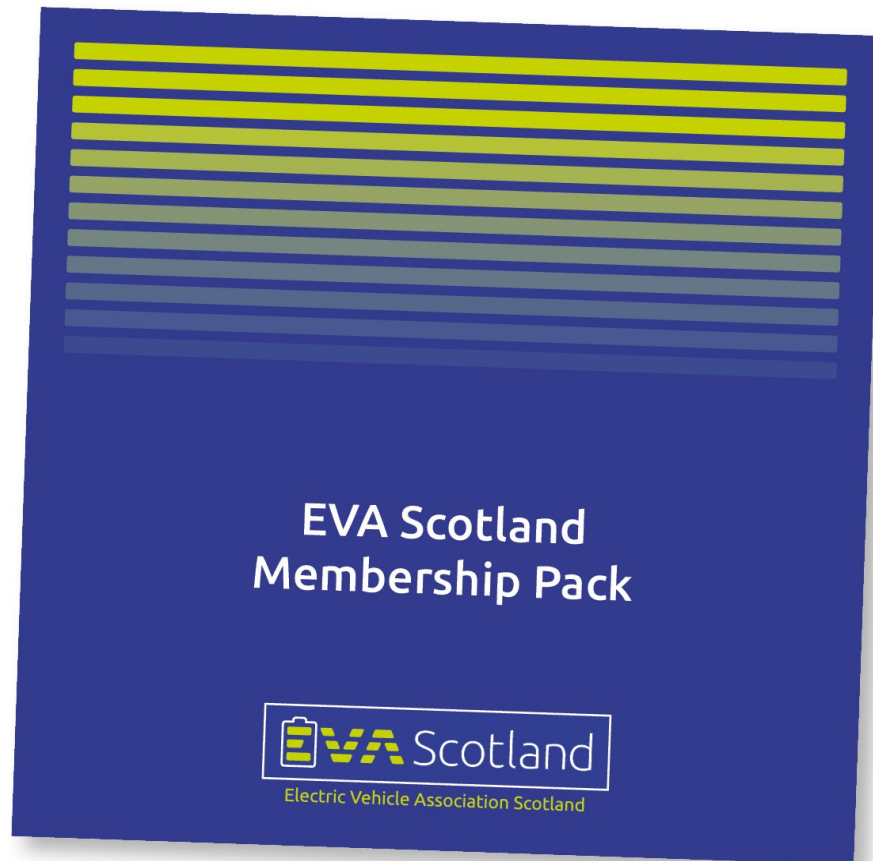
- To represent the interests of EV users in Scotland and offer them the benefits of membership of EVA Scotland
- To promote the benefits of EVs to non-EV users and influence widespread adoption
- To be the public voice of EVs on all issues of ownership, driving and infrastructure with stakeholders, the media, in politics, and with all levels of government, during the phasing out of new petrol and diesel cars and vans in Scotland by 2032 and beyond

Membership

Annual growth rate of 50% measured in May 2018

830 members as of September 2018

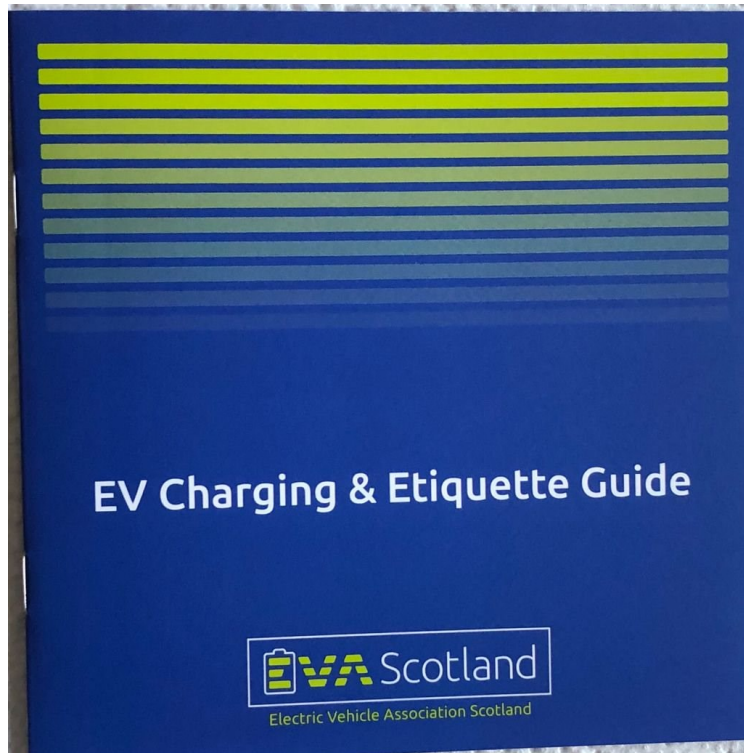
EVA Scotland membership pack



As part of the incentives we offer, members receive a membership pack upon joining the association.

The pack contains items to provide useful information, aid communication and attract more members.

EV Charging & Etiquette Guide



There are many issues for a new EV driver to come to terms with, one of the most significant being “fuelling” the vehicle.

Behaviours relating to charging and public charging in particular require driver education to ensure good practice, mutual understanding and respect.

EV Charging & Etiquette Guide

Charger recognition guide

Rapid or Journey Chargers



ABB



DBT



eVOLT



Siemens



Chargemaster

Tesla



Tesla Supercharger

CCS and Type 2



Type 2 is a D shaped plug which has 7 pins. The Combined Charge System, CCS, has two additional DC pins. The plugs are locked in place while charging.

Chademo plug types

The Chademo plug design has improved over time, but there are a number of types. The more recent ones use a simple thumb latch and can be operated with one hand. The older ones can be daunting, but are gradually being replaced. They need two hands, requiring a bit of pressure pushing into the socket while squeezing the button to release the latch. The lever doesn't always drop on its own. Most users have had tricky moments with these, so don't be afraid to ask others for help.



Charge terms

Mode 2: Uses an inline "brick" with a domestic plug at one end and a car plug at the other. The "granny charger", good for 10 amps wherever you can plug in - *Slow*.

Mode 3: A dedicated AC supply device, with all the electronics onboard. In Europe this is usually a socket, but can also be tethered with a built-in cable. Sockets can be up to 32 amps, tethered up to 250 amps - *Slow, Fast* and *Fastest*.

Mode 4: An external charger, with a tethered cable up to 400A DC - *Fastest*.

Cable care

EV charging cables are very robust. You should NEVER use them coiled up, it may look tidy, but it is potentially dangerous. Once connected, loosely tuck excess under the car to keep it dry and out of the way.

When not in use make sure any dust covers are in place on plugs and sockets, then store the cable in a protective bag.



Web resources and interest:

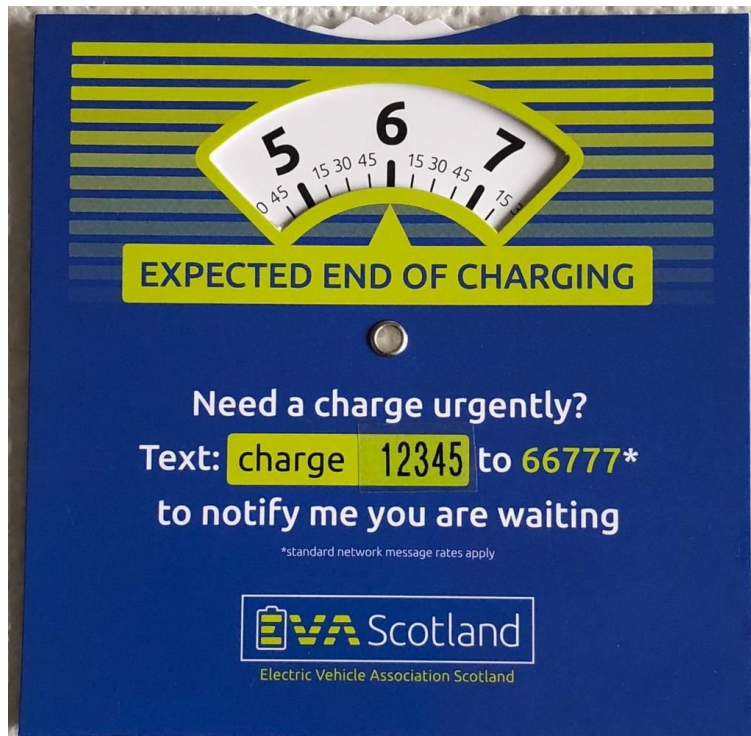
www.eva.scot

www.chargeplacescotland.org

www.fullychargedshow.co.uk

www.autovolt-magazine.com

EVA Scotland Charging Disc



Controlled communication between a driver seeking a charge and the driver of a vehicle left charging at a public charge point can relieve stress and facilitate informed recharging decisions.

Visible end of charging time estimation.

Text short code messaging service.

Two way controlled communication.

Messages controlled by EVA Scotland.

EVA Scotland Annual General Meeting



This year's AGM was held in the IET Teachers Building, St Enoch Square, Glasgow.

EVA Scotland were honored to welcome Scottish Government Minister for Transport and the Islands, Humza Yousaf MSP, to provide the keynote address.

Humza Yusaf became our first honorary member.

EVA Scotland Newsletter

Electric Vehicle Association Scotland

Diary Dates:
[Evolution - Roadshow Royal Highland Centre, Inverness 30th May 2018](#)
[UK EVRT Riverside Museum Glasgow 1st and 2nd June](#)
[Gairloch Highland Gathering 30th June 2018](#)
[Raggar Science Festival Saturday 12nd September 2018](#)
[Napier TRU Conference Wed 10th October 2018](#)

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Electric Vehicle Association Scotland

Volume 2 Issue 1

2018

April News

AGM Report

The EVA Scotland AGM took place in Glasgow at the IET Teacher building on the 24th of March.

Those attending received their membership packs on the day, as well as having an opportunity to speak to representatives from Transport Scotland and BMM Energy, as well as an

knowing more than when he arrived. Alister Hamilton presented him the first Membership Pack issued, conferring an honorary membership.

Laura McGill of Transport Scotland spoke about the ChargePlace Scotland network and some of the forthcoming plans.

Terry Mohammed of [BMM Energy](#) provided an insight into the growth and need for Smart Charging of EVs in the UK, a subject that will become increasingly important as the EV fleet grows in the UK.

Andrew Mouat from Glasgow City Council gave a deeper look at the city's plans, looking toward the Low Emissions Zone and the development of additional Park and Ride facilities to serve Glasgow. The subject of the Riverside chargers did come up and we note that discussions are still ongoing with the parties involved. We have been assured that the barrier is temporary.

Neil Swanson gave a presentation on the Nordic EV Summit, more [here](#).

Make EVAS Local

Let us know if you want to form a local section. You'll need one Full Member as a point of contact to get in touch via: membership@eva.scot.

We'll generate a space for you on the website, and any member will be able to link in to your group from their profile. To keep it simple, we think sections will initially cover council areas, but it is really up to you.

If you have anything you want published or promoted in the newsletter, then just send it in. For the AGM each year we'd want you to produce report back on your activities.

Alister Hamilton gave a synopsis of the activities of the EVA Scotland Director over the last year. Since becoming a Community Interest Company the workload of the Association officials has grown significantly. Meetings of Directors are monthly, with Transport Scotland quarterly, with attendance at events and meetings with council officers requiring a very flexible approach.

The AGM also saw the launch of the new Association logo and image, where we move from being a user group, to being broader advocacy group, promoting and supporting the electrification of transport. Air, sea, rail and personal transport all have an important role to play and require support and promotion.

Meet the Directors



Dr Alister Hamilton BSc, MSc, PhD, CEng, MIET: Chair of EVA Scotland

Alister is a Senior Lecturer in the School of Engineering at the University of Edinburgh. He has been an electric vehicle driver for over 5 years.



Douglas Robertson BSc (Mech. Eng. Glasgow 1970) He has been Deputy Chair of EVA Scotland for 12 months and then Chair for the 18 months to April 2017 during which



Robert (Bob) Smith has been in EVA Scotland since 2011, responsible for banking and finance. He is also the Treasurer for the Ayrshire, Dumfries & Galloway Branch of the Royal Scottish Pipe Band.



Raymond Okotaki has worked at BBC Scotland, attached to Reporting Scotland,



Neil C. Swanson worked freelance and in print has provided copy to the Daily Telegraph, Irish Times, Irish Computer and was News Editor of What Mobile until retiring. He now evangelises over Electric Vehicles.



Neil MacLennan lives in Bo'ness with his family where he runs Sanctus Media, a specialist digital media company primarily serving the church and third sector market-place in the UK.

EV Promotion: EV Roadshow, Perth Racecourse, 22nd September 2018



EV Promotion: East Coast Organics Open Day, 23rd September 2018



EV Promotion: EVOLUTION, Riverside, Glasgow, 6th October 2018



Networking



EVA Scotland seek to represent members interests and learn from the wider community.

Networking with other EV associations allows us to share best practice and learn from each other.

In particular we have excellent relationships with the Norwegian EVA, Norsk Elbilforening.

Networking day at Nordic EV Summit March 2018



EVA Scotland membership of AVERE



AVERE Board meeting, June 2018

EVA Scotland membership of AVERE



EVA Scotland nominated Dundee for the E-Visionary Award Europe.

The E-Visionary Award is presented by the World Electric Vehicle Association (WEVA) to cities and regions across the globe for initiatives to promote electric vehicles as a sustainable mode of transportation, and for making electric mobility a reality for the citizens of their regions.

Dundee won the European award!

Other winners were New York and Kobe, Japan.

Award presented at EVS31 in Japan, 3rd October 2018.

For more information:

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