

Expanding Scotland's EV Charging Network Meeting the Infrastructure Challenge

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Net Zero Transport

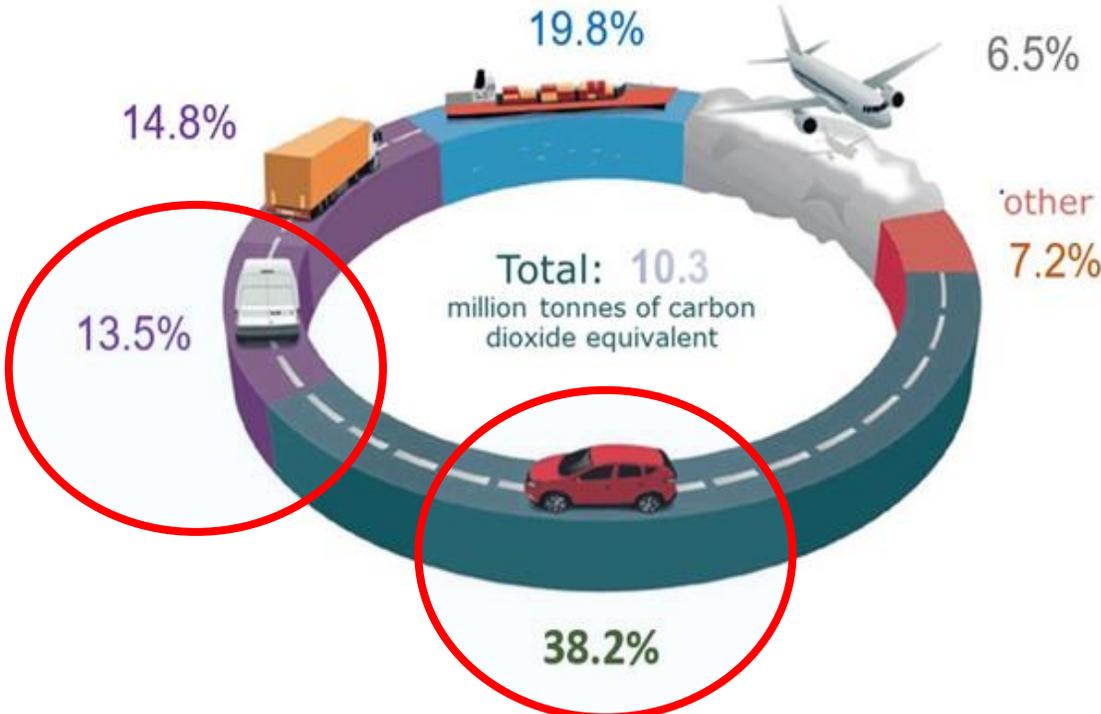


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Why is this important?

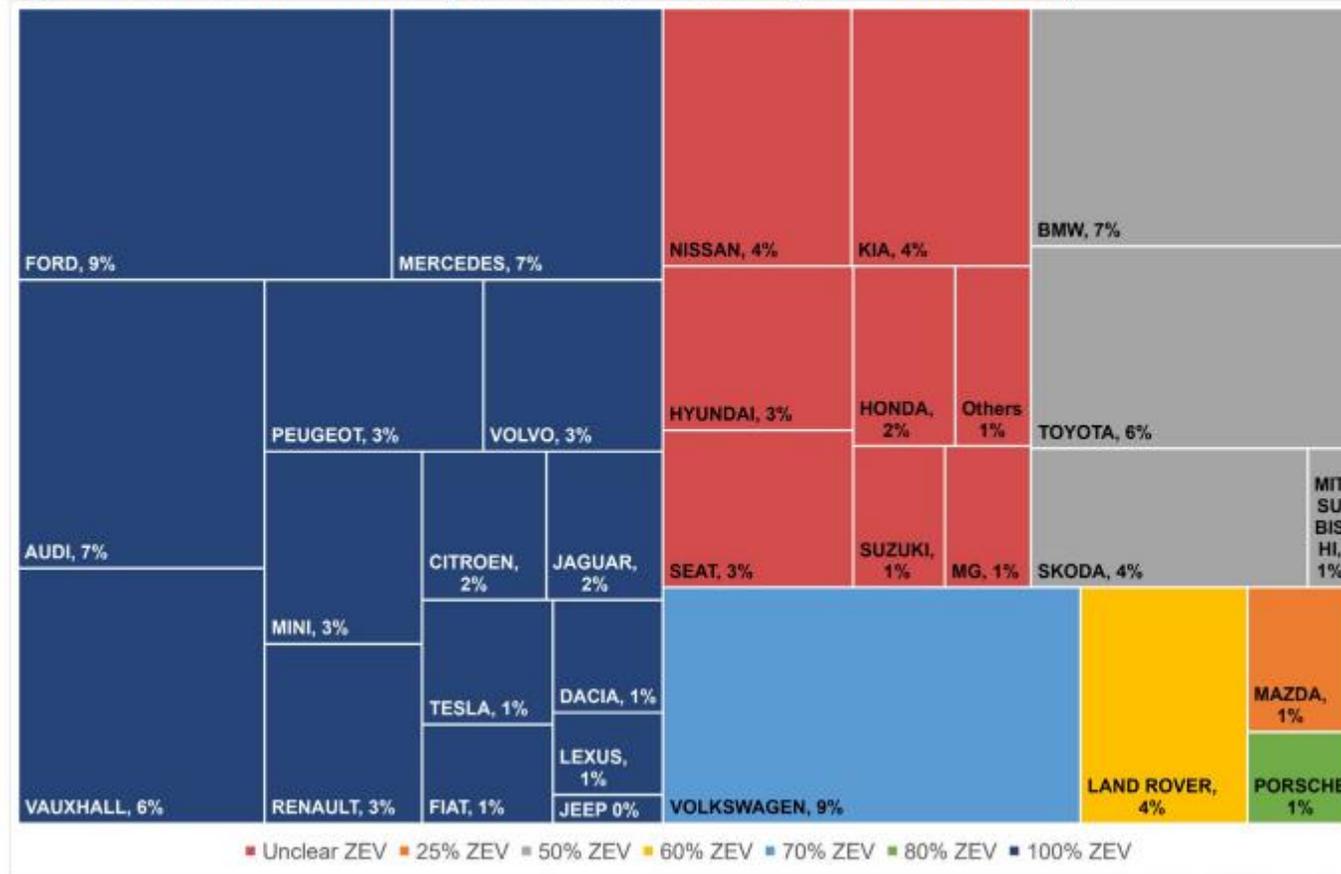
Share of greenhouse gas emissions by mode in Scotland 2020

25.9% of Scotland's greenhouse gas emissions are accounted for by transport

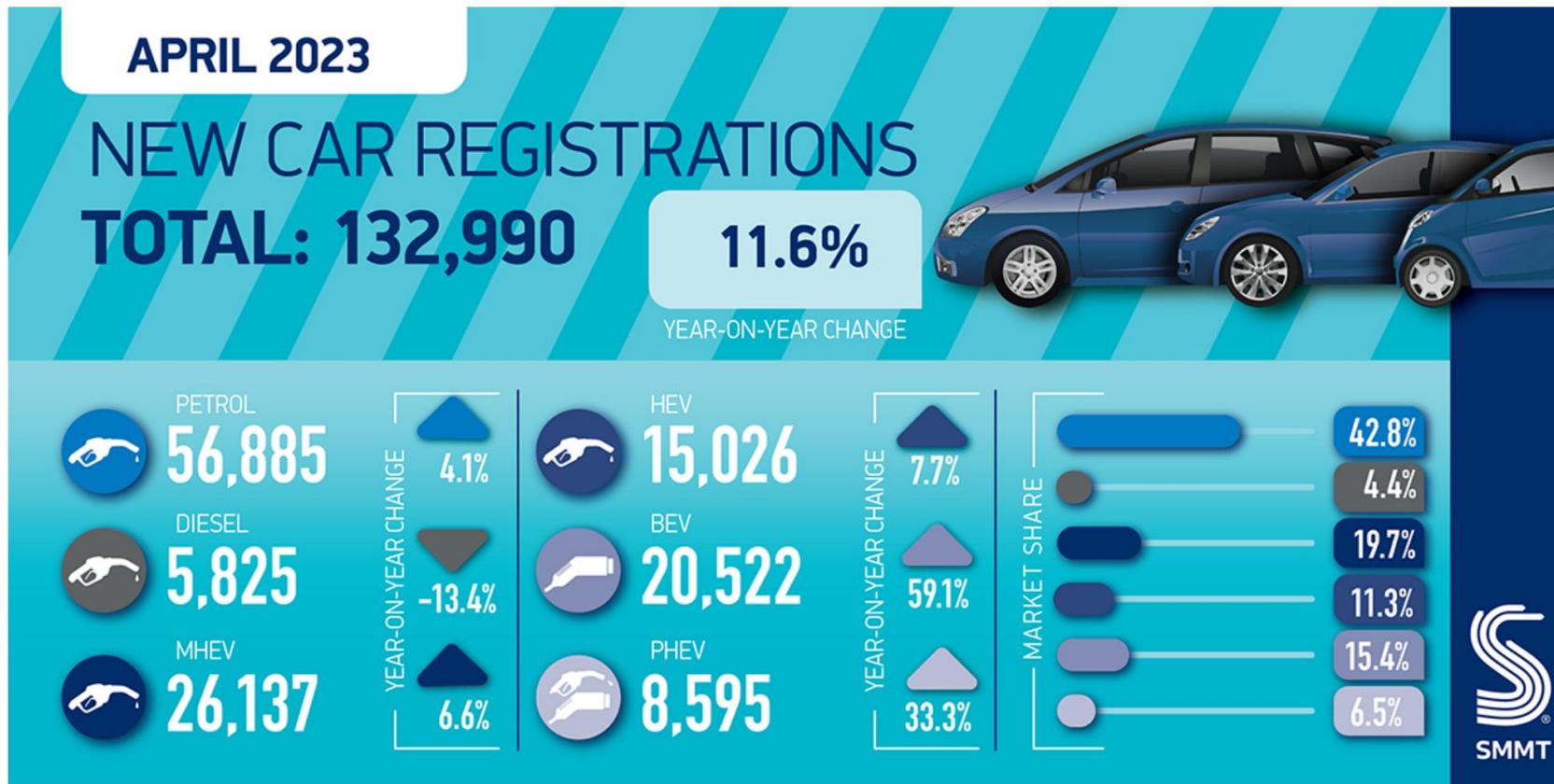


Manufacturers' Response

Figure 6 Zero emission car manufacturing expectations by 2030 (as of August 2022 announcements)⁸



Consumer Change



UK Policy - Moving to Mandatory Approach

Smart Charging Regulations – Pricing & Demand Flexibility

The Building Regulations 2022 – Minimum Provision

Consumer Experience Regulations – Payment, Reliability, Pricing, Data

Zero Emission Vehicle Mandate - Minimum Production

Scotland's Journey So Far



ChargePlace Scotland
electric vehicle charging

**£65m
Investment**

**Over 2,400
public charge
points**

**Single RFID
Card**

The Need For Change



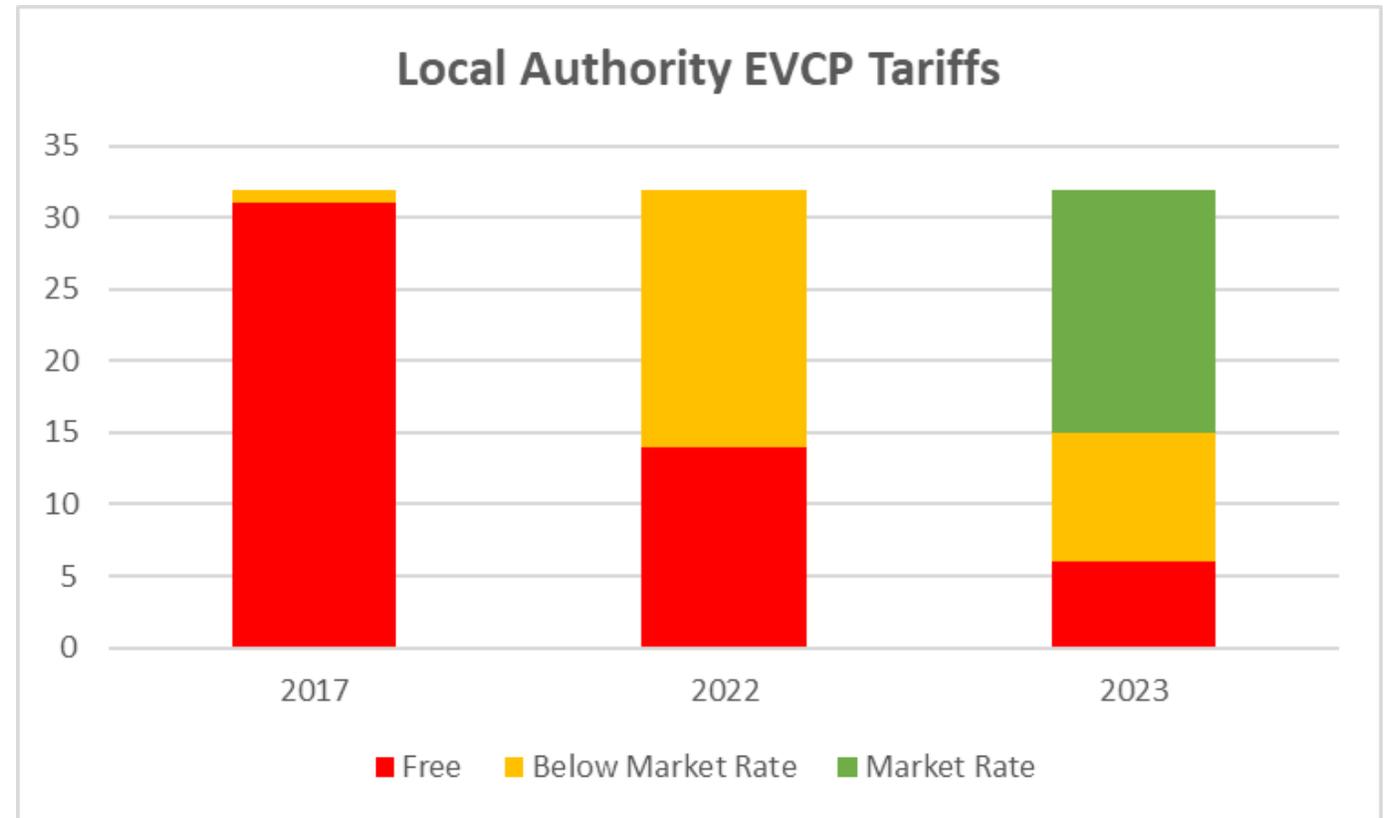
- **Annual** Investment of up to **£100m**
- Replacing **Ageing Assets**
- Lack of **Market Rate Tariffs**
- Leverage **Private Sector Capital**

Draft Vision for EV Charging

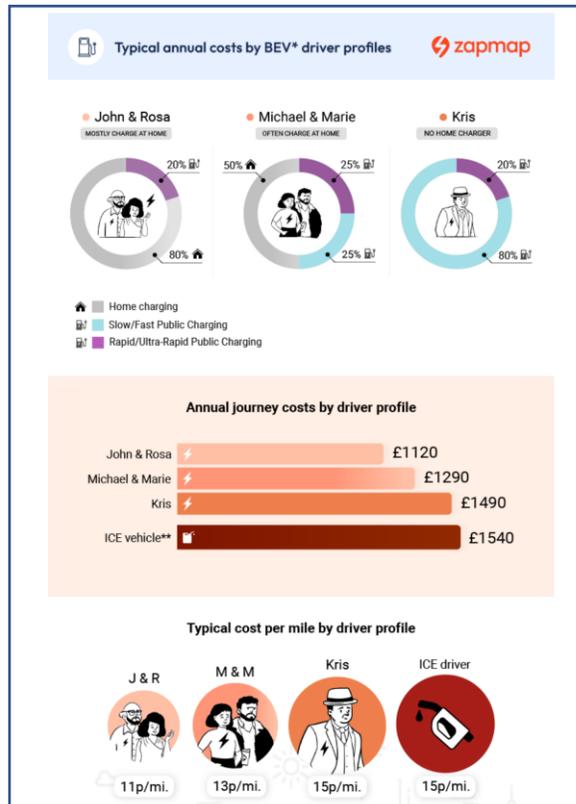


- Well Designed & Comprehensive
- Works for Everyone
- Attracts Private Investment
- Powered by renewable energy
- Storage, smart tariffs & network design
- Supports Sustainable Transport

The Role of Pricing



Tariffs – Emerging Issues



<https://www.zap-map.com/>

Most Flexible

Pay As You Go

Get charging with no commitment.

Night tariff (12am - 7am) **29p/kWh**

Day tariff (7am - 12am) **65p/kWh**

Benefits

- No monthly commitments
- Only pay for what you use
- No connection charge

CONNECTED KERB

Flexibility, Discounts, Variable Tariffs, Overstay Fees, Charge Point Etiquette.

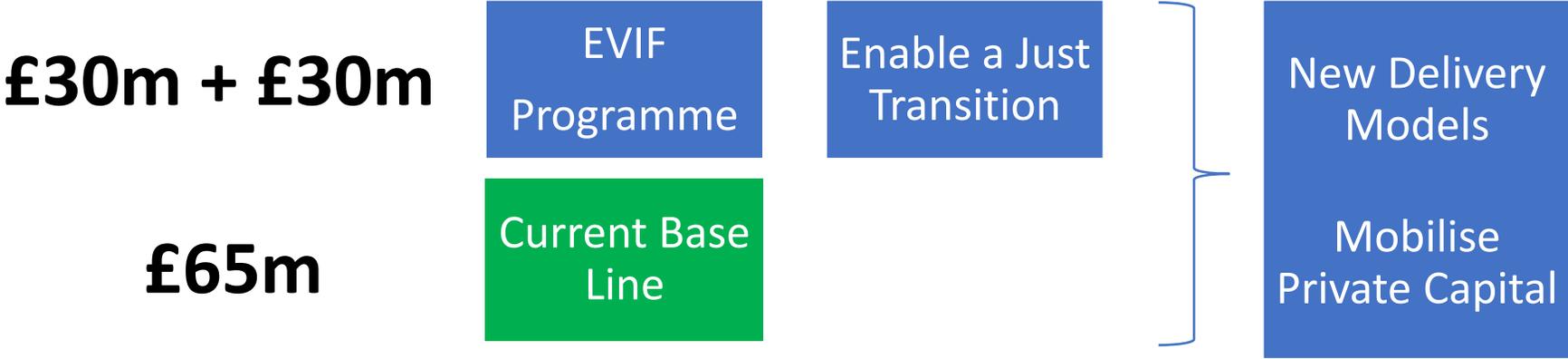
What do we need?

**£300m to
£400m**



Enabling a Just Transition

Electric Vehicle Infrastructure Fund



Electric Vehicle Infrastructure Fund

Emerging Pipeline

Several Local Authority **Collaborations** emerging.

Replacement & Upgrading c. **2,400** existing charge points.

Doubling the network by **at least** a further **3,000** charge points

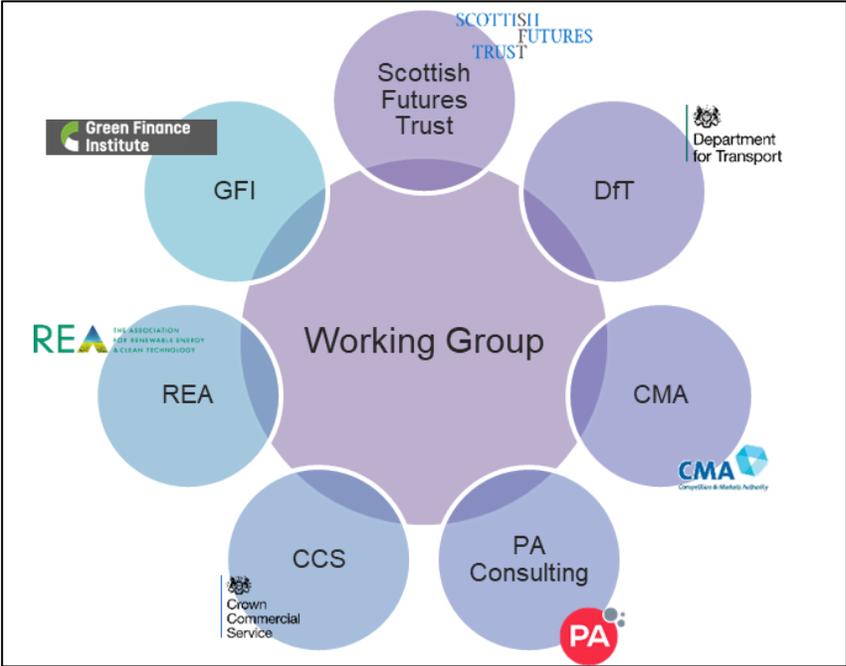
Around **£100m** of investment over the medium term.

Many exploring a **concession** type model.

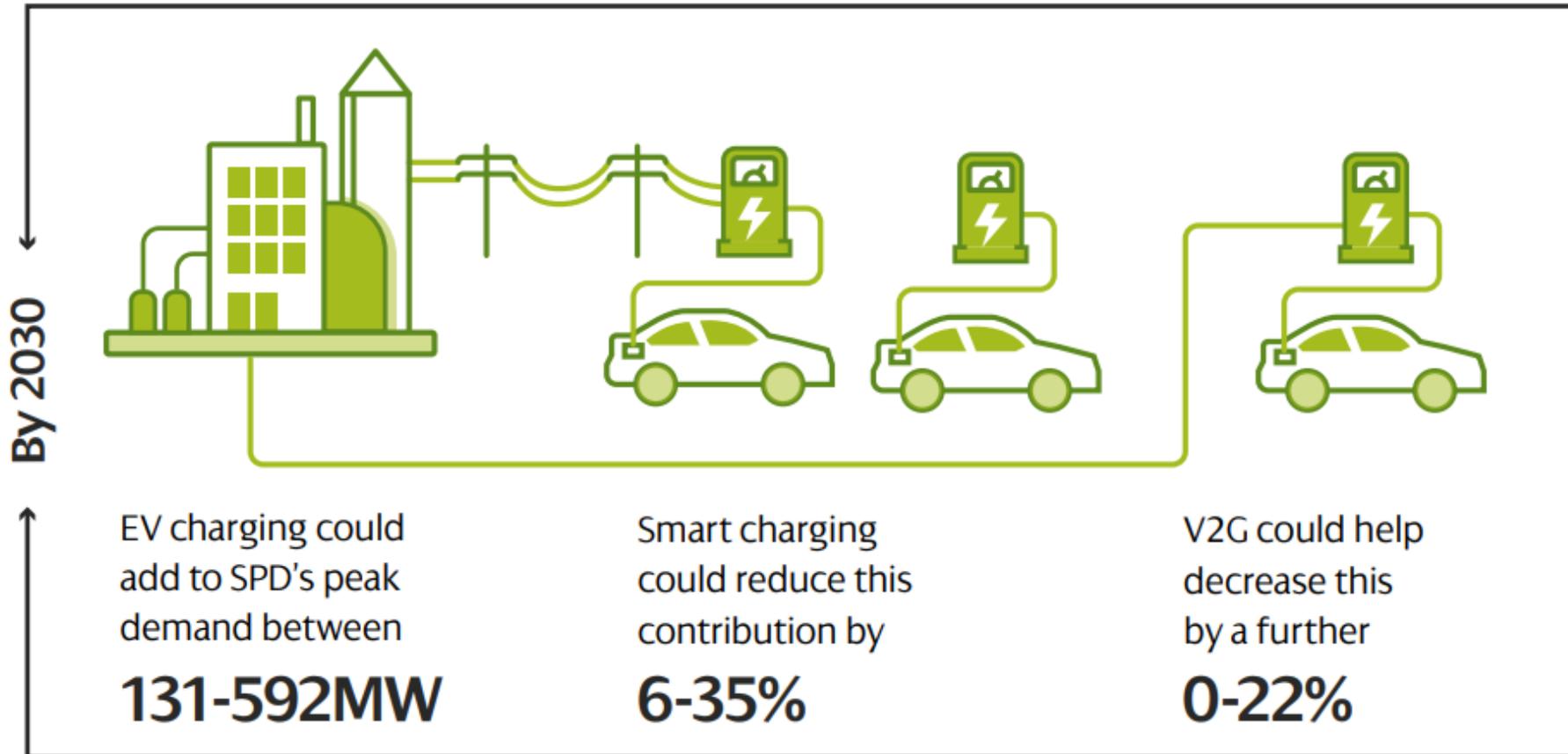
Support & Guidance

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Working with Electricity Providers



Accessible Electric Vehicle Charging



PAS 1899:2022



Source [Press Release \(drivedundeeelectric.co.uk\)](https://drivedundeeelectric.co.uk)

Partnership Working

“To ensure all drivers can benefit from electric vehicles, we need everyone – government, local authorities, energy companies and charging providers – to accelerate their investment in the transition and bolster confidence in making the switch.”

Mike Hawes CEO - SMMT

Drivers

Operators

Electricity
Providers

Local
Authorities

Designers

Government

Investors

Fleets

Thank you



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