

# Expanding Scotland's EV Charging Network Meeting the Infrastructure Challenge

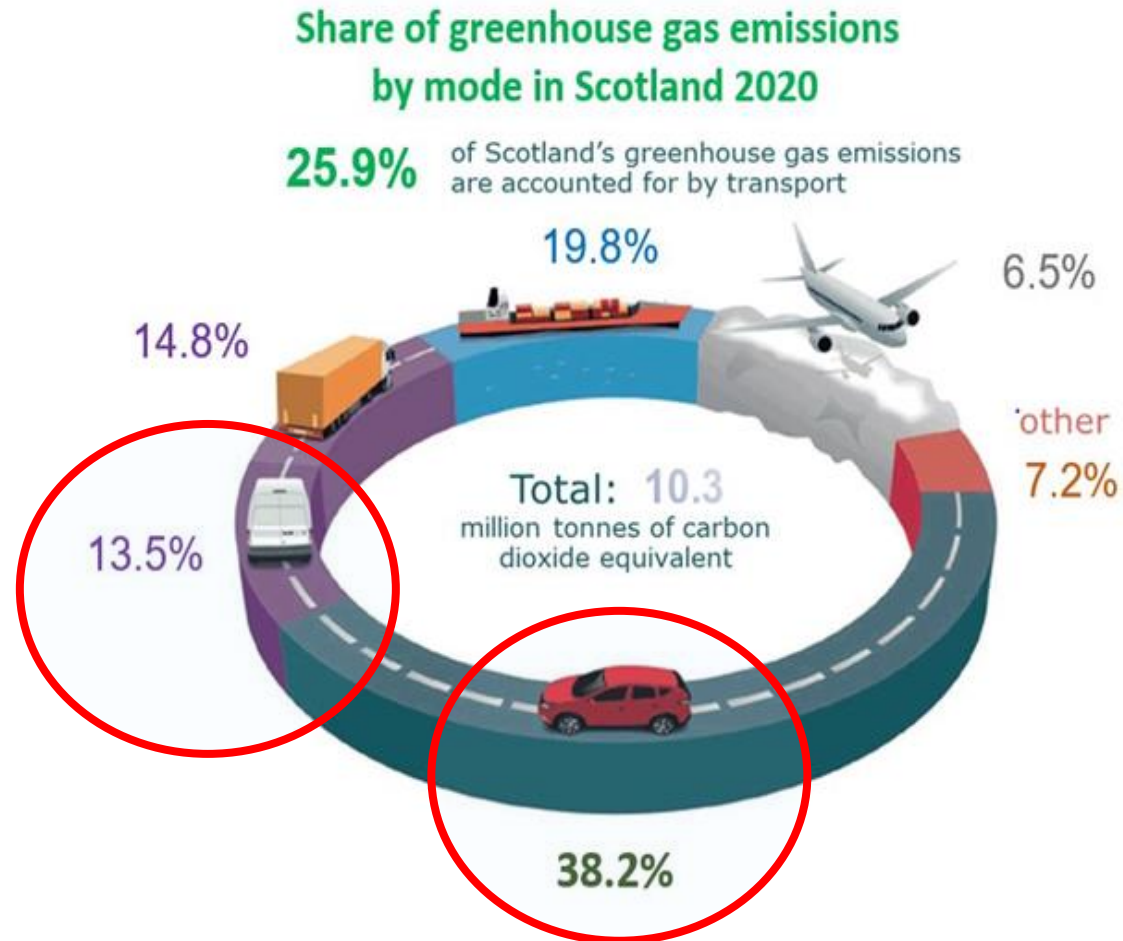
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Alastair Young – Associate Director  
Net Zero Transport



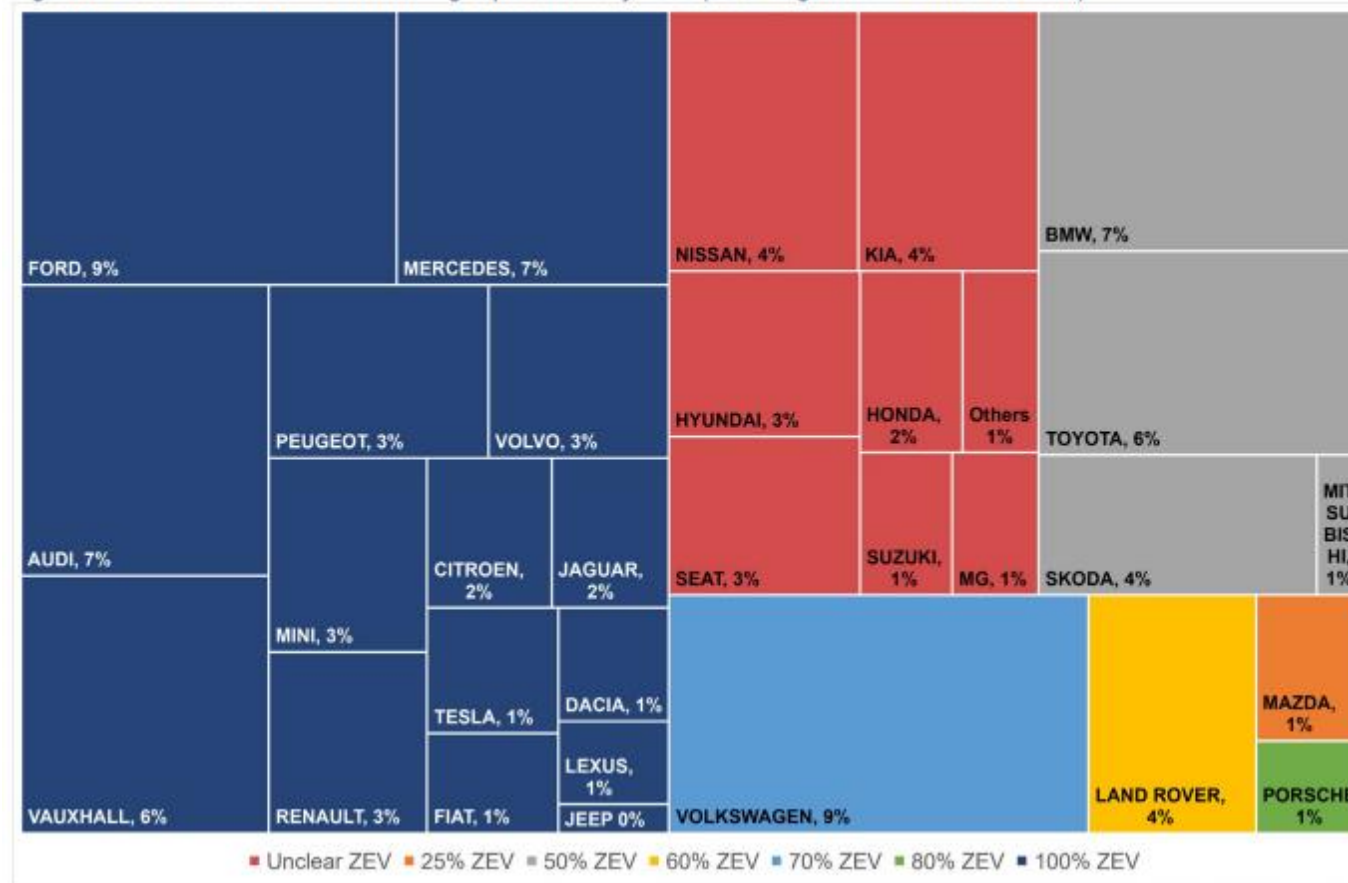
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# Why is this important?

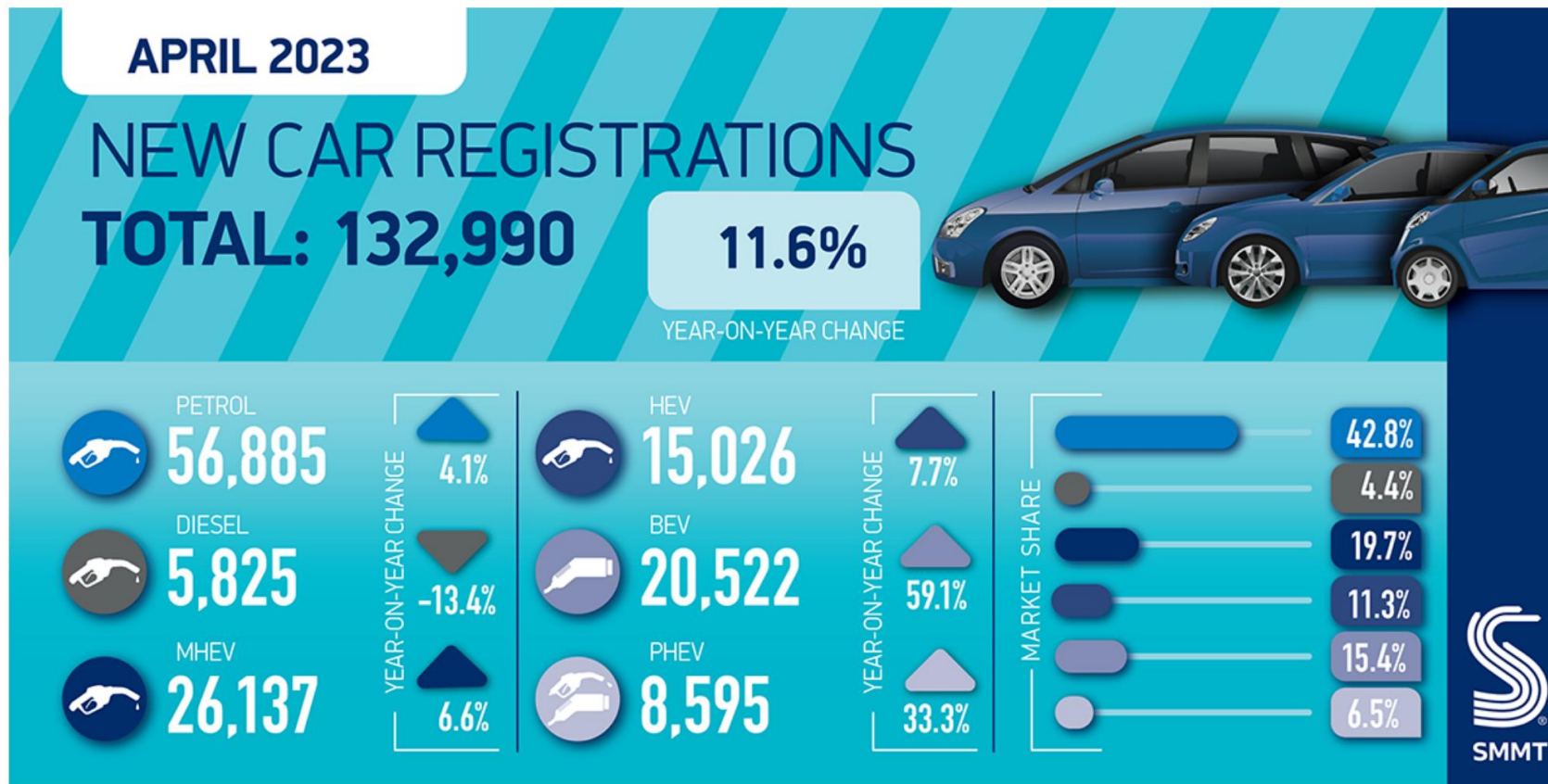


# Manufacturers' Response

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



# Consumer Change



# UK Policy - Moving to Mandatory Approach

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**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

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

# Draft Vision for EV Charging

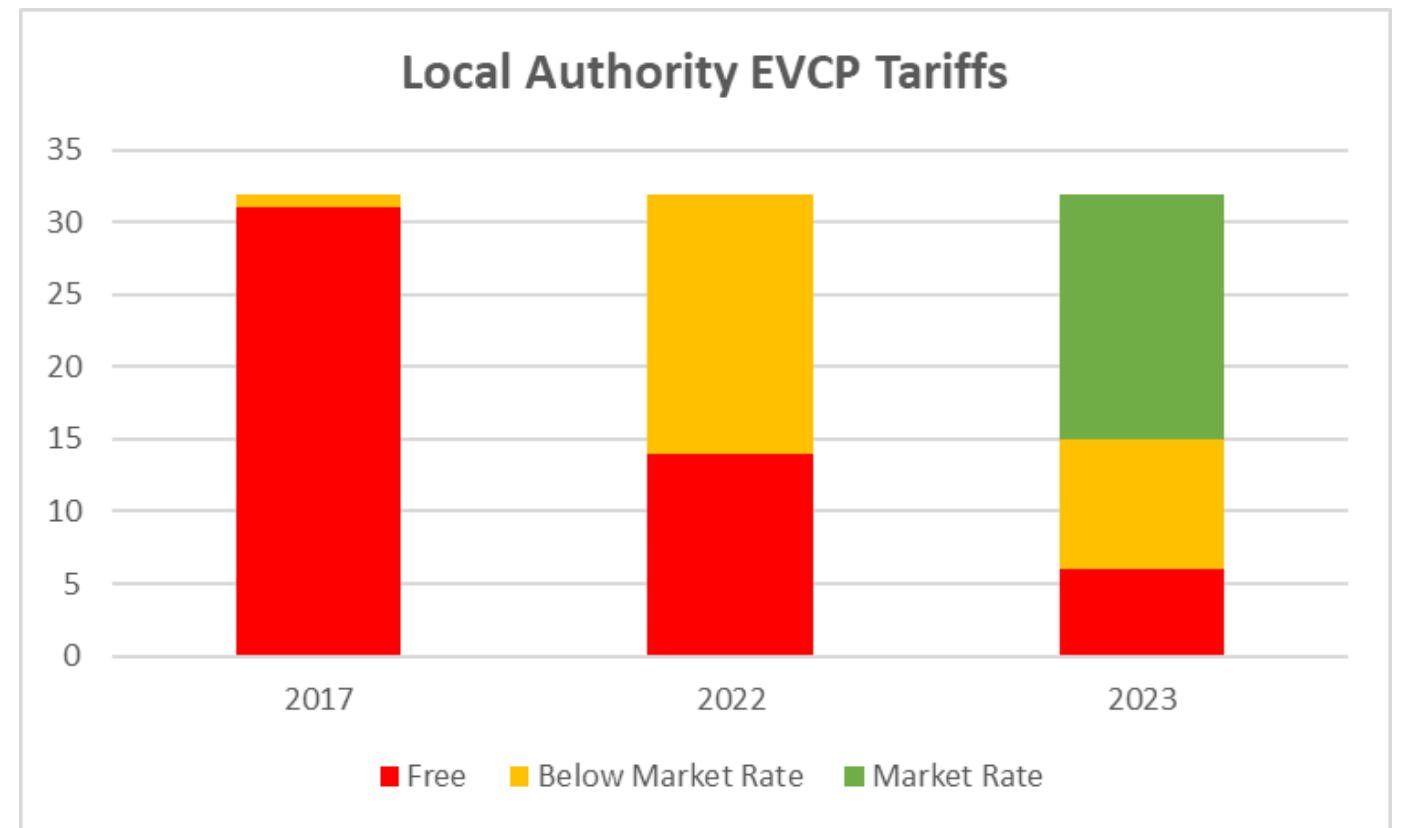
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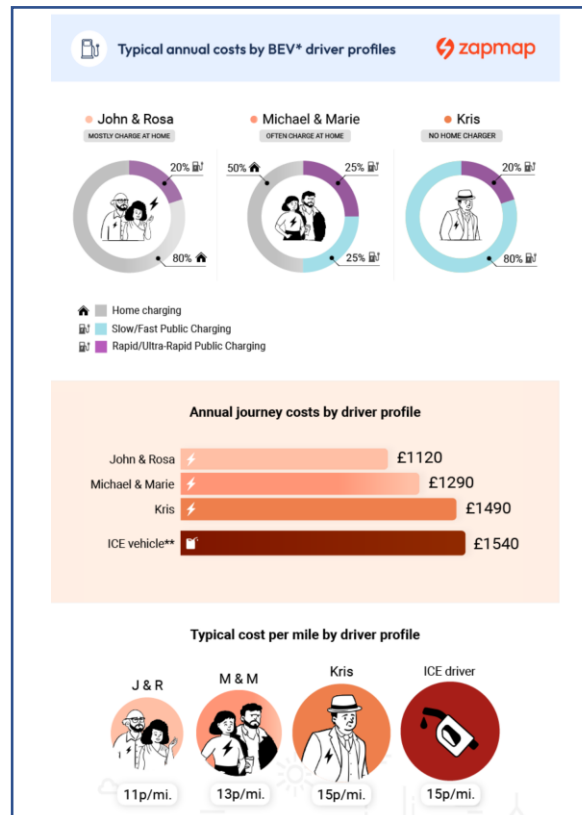
- Well Designed & Comprehensive
- Works for Everyone
- Attracts Private Investment
- Powered by renewable energy
- Storage, smart tariffs & network design
- Supports Sustainable Transport



# The Role of Pricing



# Tariffs – Emerging Issues



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

char.gy

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

agile@streets

CONNECTED KERB

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

# What do we need?

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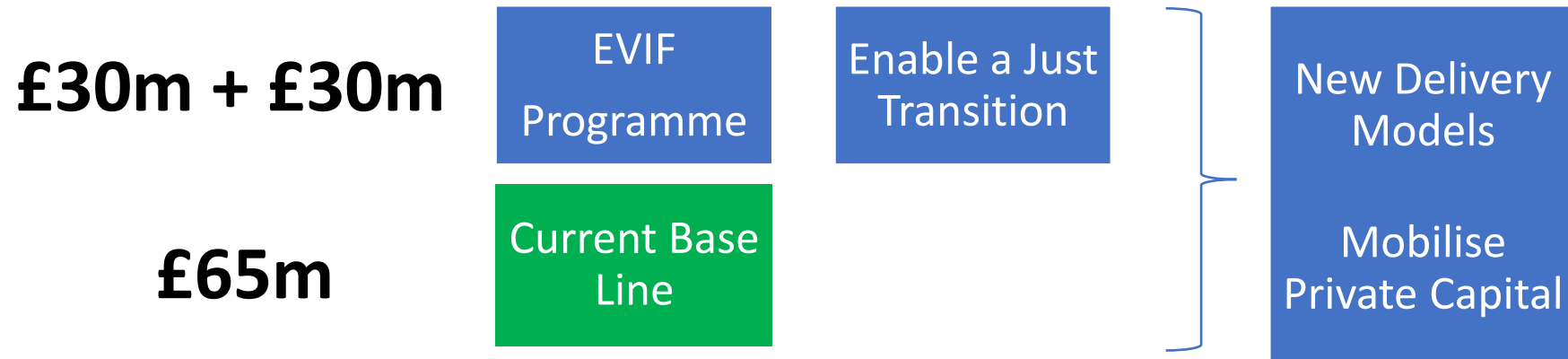
**£300m to  
£400m**



# Enabling a Just Transition

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## *Electric Vehicle Infrastructure Fund*



# Electric Vehicle Infrastructure Fund

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## 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.

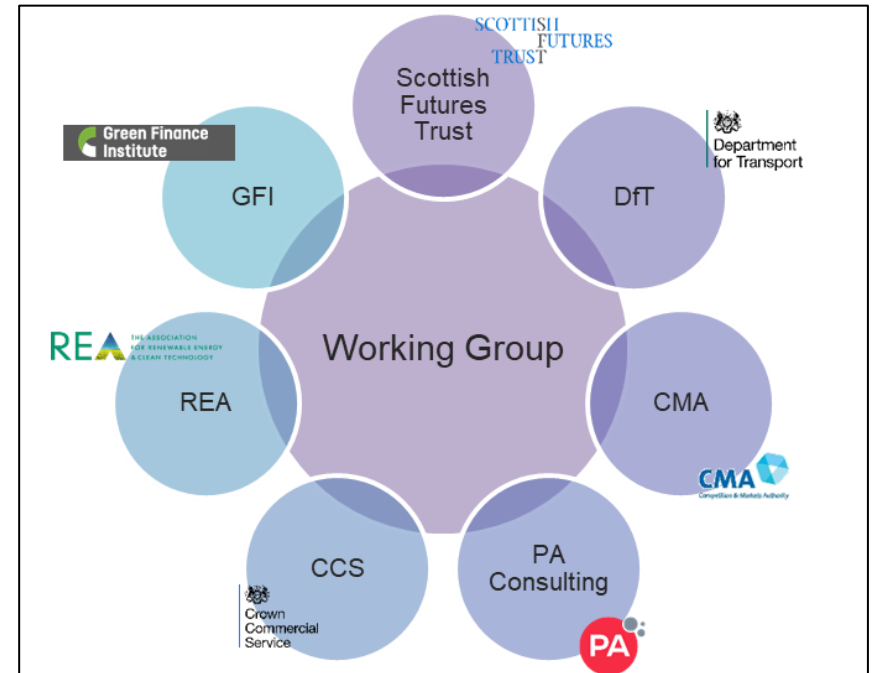
Many exploring a **concession** type model.

# Support & Guidance

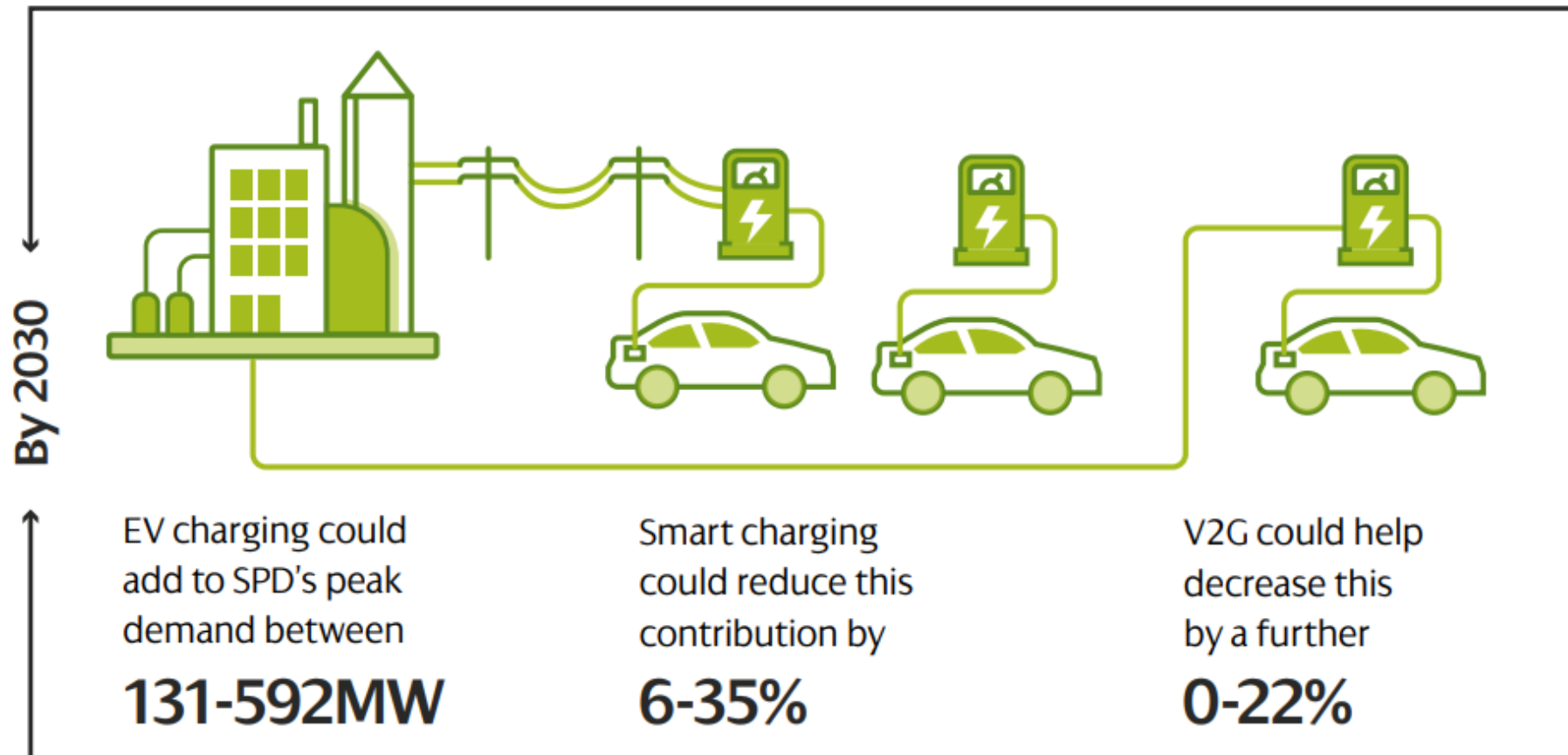
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**energy**  
saving  
trust



# Working with Electricity Providers





# Accessible Electric Vehicle Charging

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PAS 1899:2022



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

# Partnership Working

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*“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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