



Roinn Cumarsáide, Gníomhaithe  
ar son na hAeráide & Comhshaoil  
Department of Communications,  
Climate Action & Environment

# Electrification of Transport in Ireland

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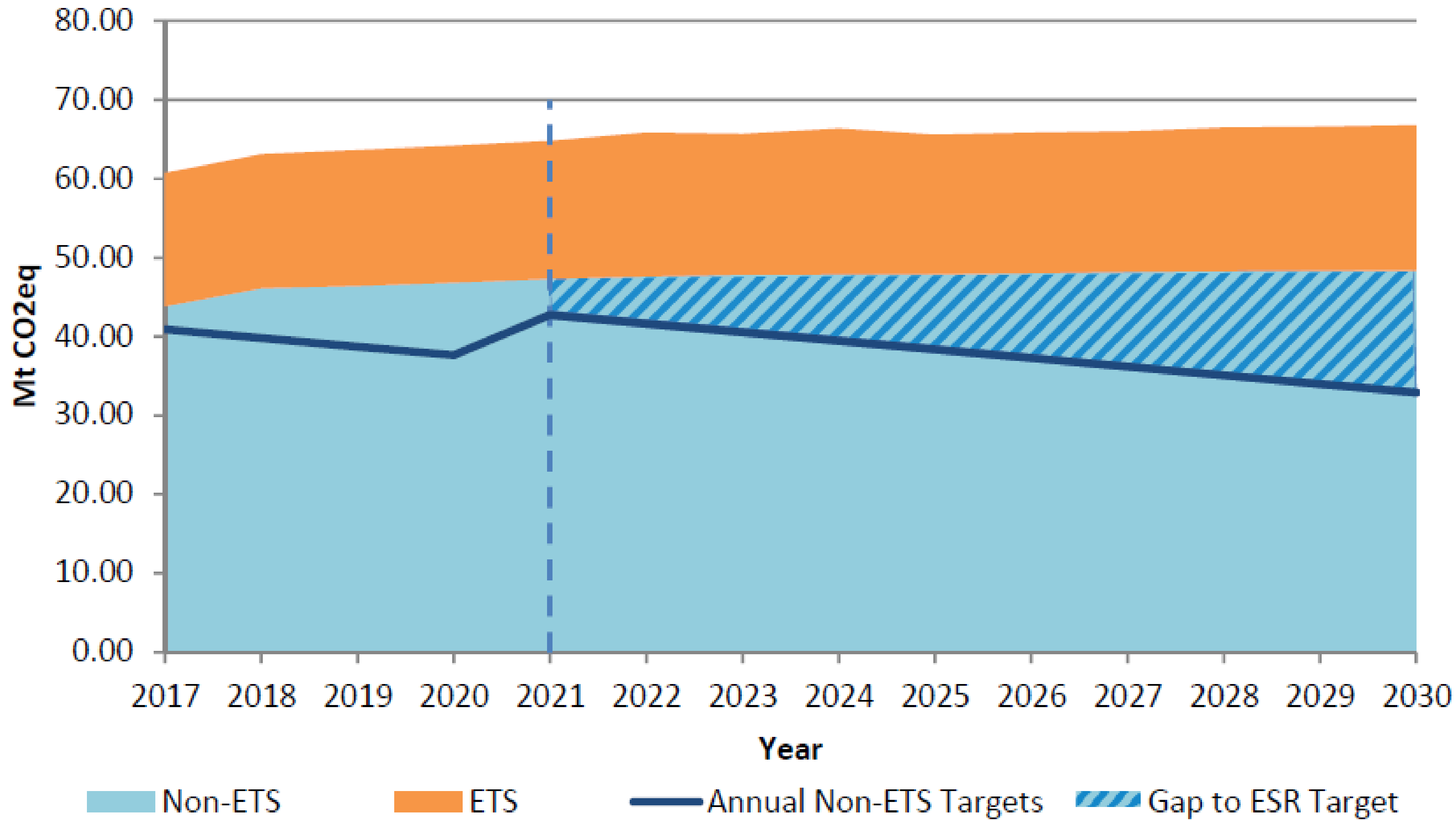
14 October 2019

# Climate & Energy Targets



- Effort Sharing Regulation:
  - *30% reduction on 2005 levels in the non-ETS sector by 2030*
- Clean Energy Package:
  - *Contribution to EU target of 32% renewable energy by 2030*
  - *Contribution to EU target of 32.5% energy efficiency by 2030*

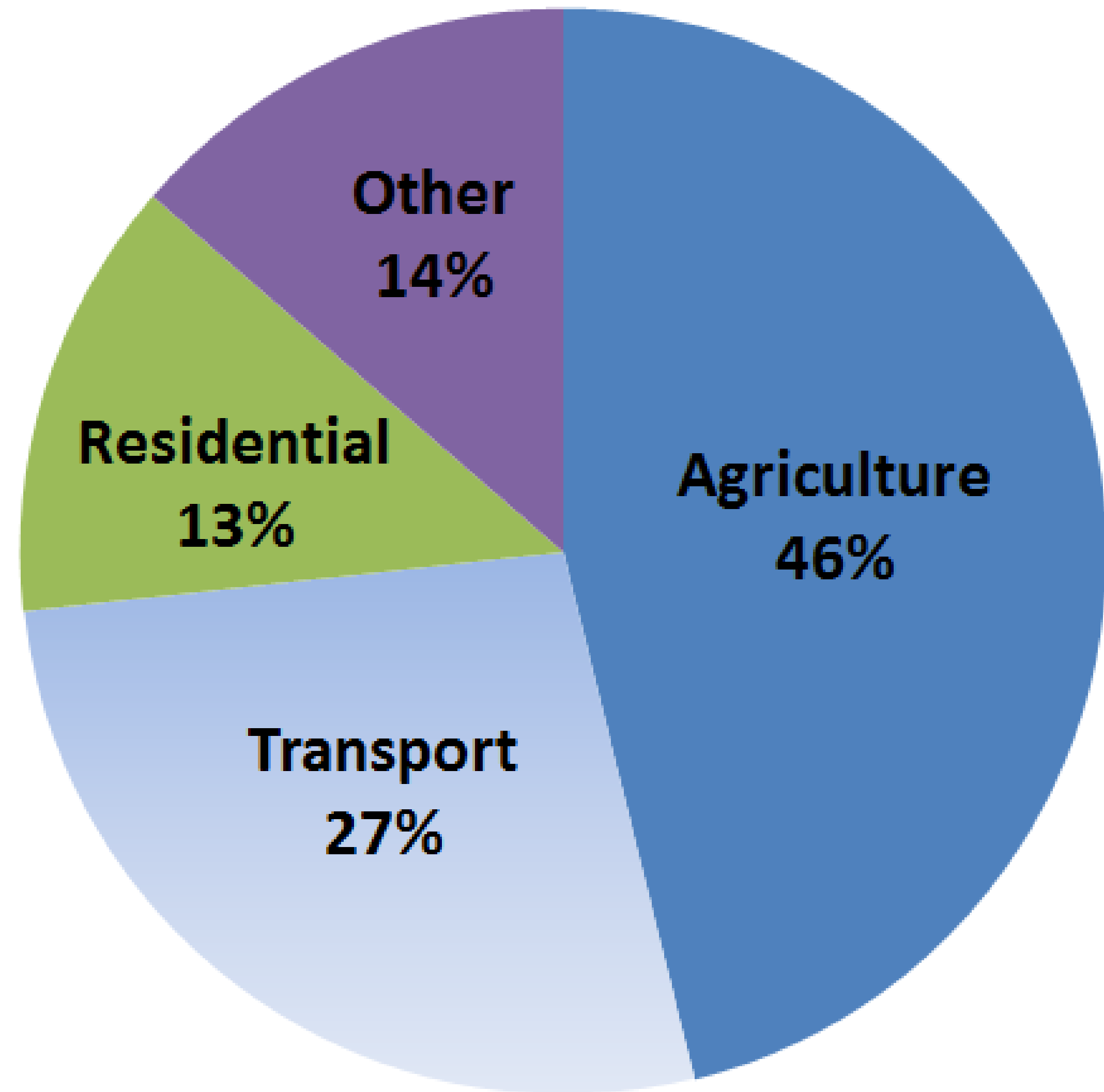
# Non-ETS Emissions Target



# Transport Emissions



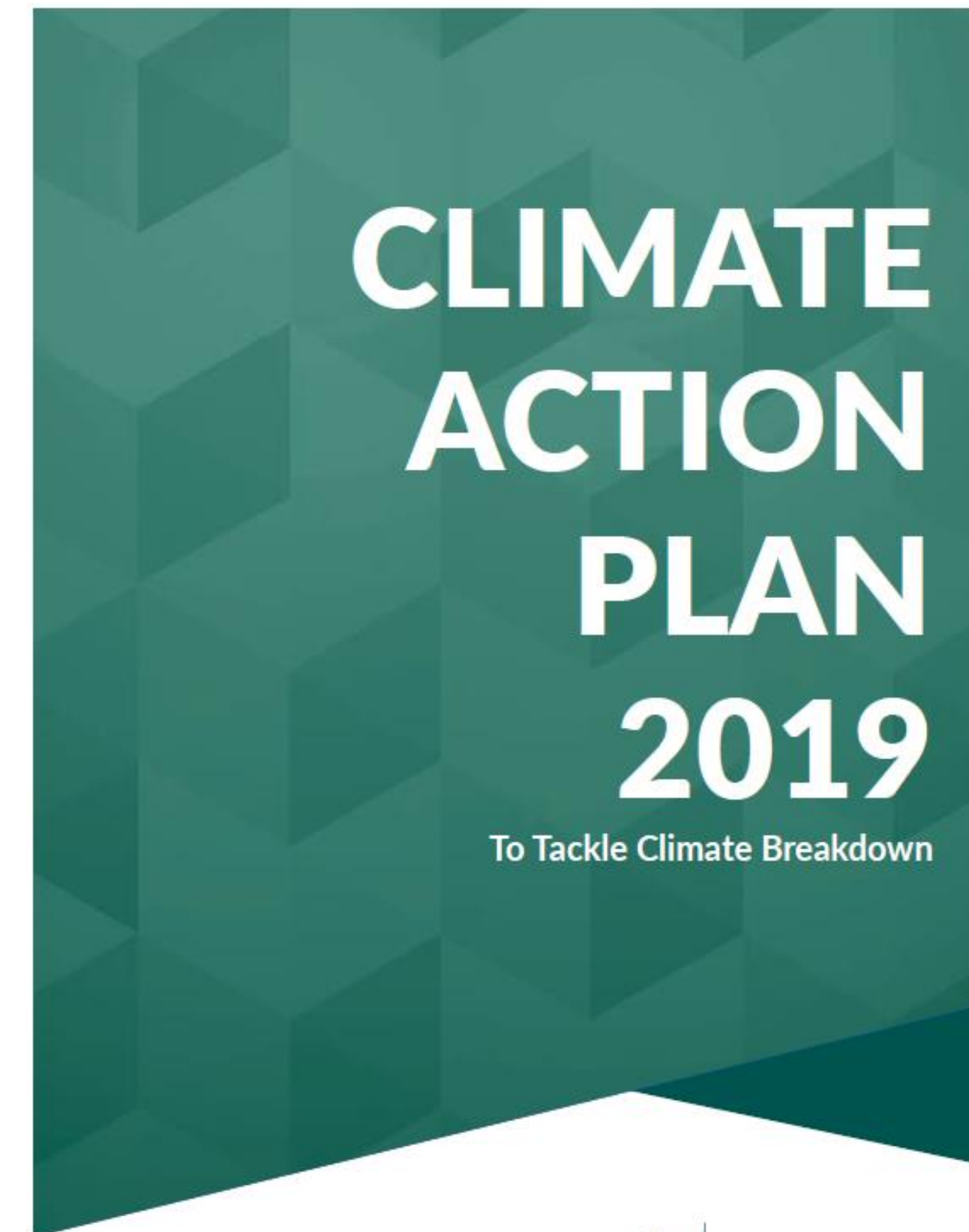
- 20% of total emissions
- 27% of non-ETS emissions
- 52% of transport emissions are private cars



# Climate Action Plan



- Sets out a pathway to 2030 consistent with net zero by 2050
- Strong emphasis on electrification in heat and transport sectors
- Key targets for 2030:
  - *70% renewable electricity*
  - *600,000 heat pumps*
  - *936,000 electric vehicles*



Rialtas na hÉireann  
Government of Ireland

# Electric Vehicle Target



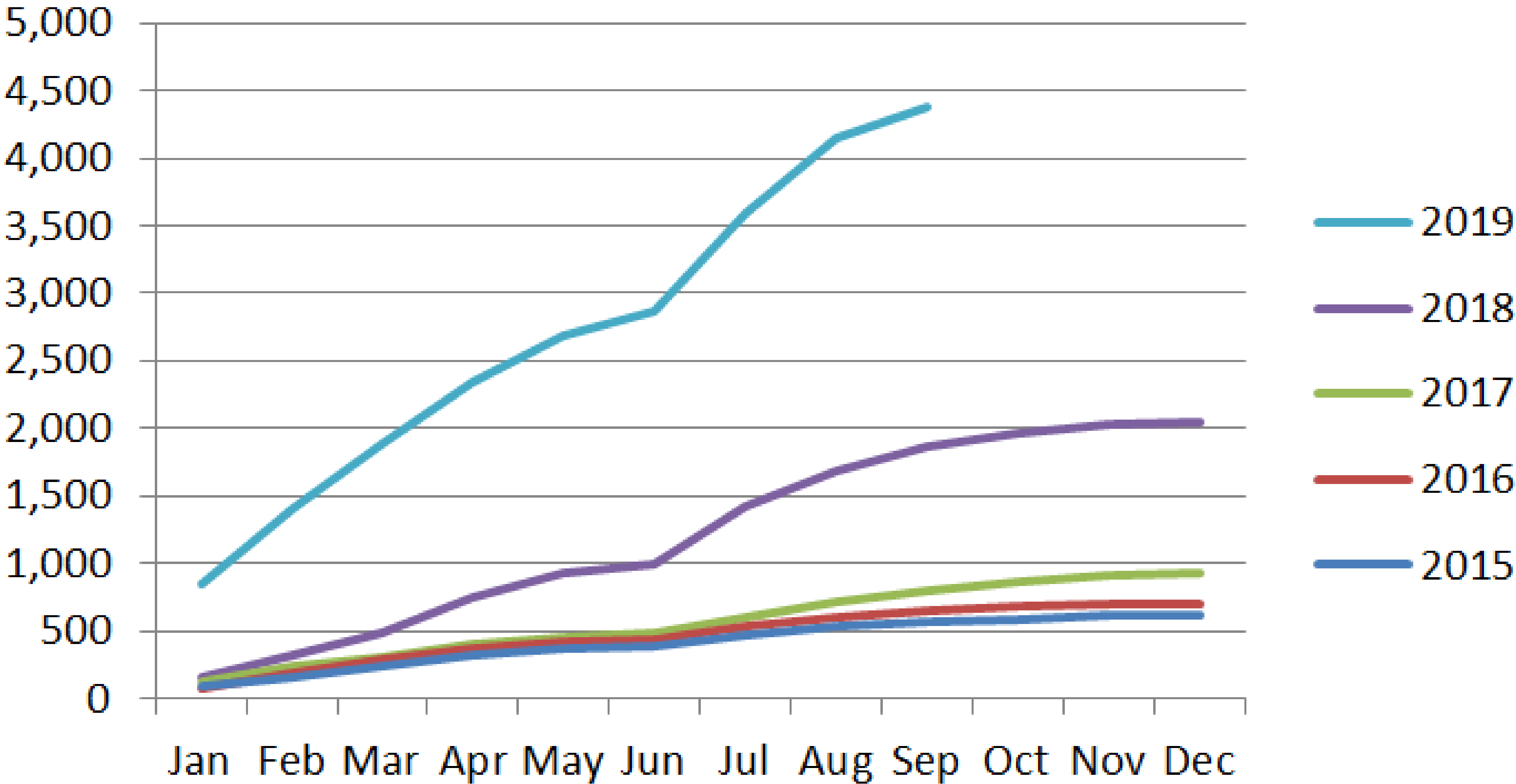
	<b>2025 Level</b>	<b>2030 Target</b>
Passenger BEVs	57,000	550,000
Passenger PHEVs	94,000	290,000
Vans/Trucks/Buses	30,500	96,000
<b>Total</b>	<b>181,500</b>	<b>936,000</b>

# Electric Vehicle Challenges



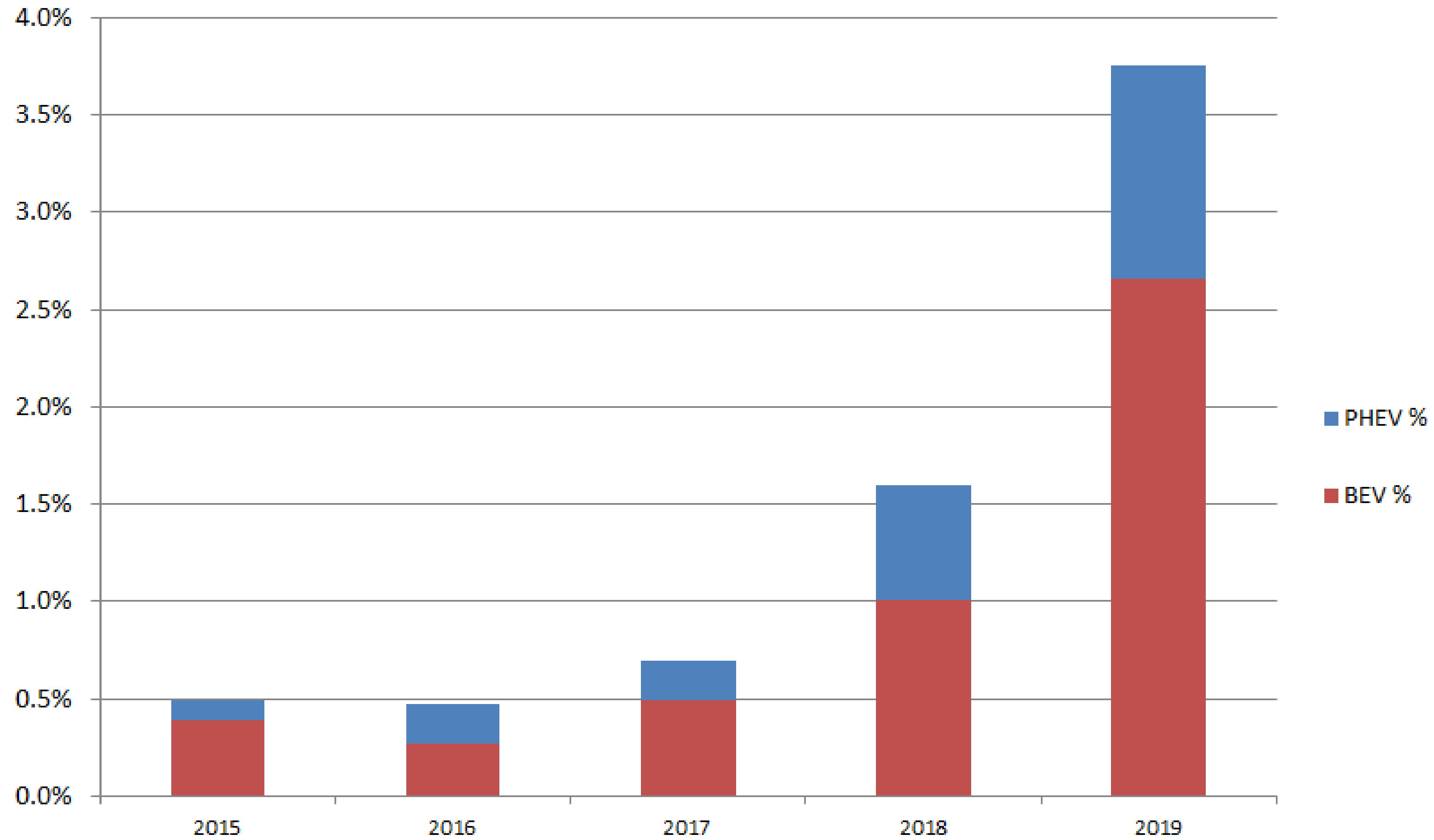
1. Supply and uptake of electric vehicles
2. Charging infrastructure
3. Electricity system

# New Electric Vehicle Sales





# Share of New Car Sales



# Range of Incentives



- Purchase grant of up to €5,000
- Vehicle registration tax relief of up to €5,000
- Benefit-in-kind tax relief for battery electric vehicles
- Accelerated capital allowances for businesses
- Additional purchase grant of up to €7,000 for taxis
- Low rate of annual motor tax
- Up to 50% discount on tolls

# Charging Infrastructure

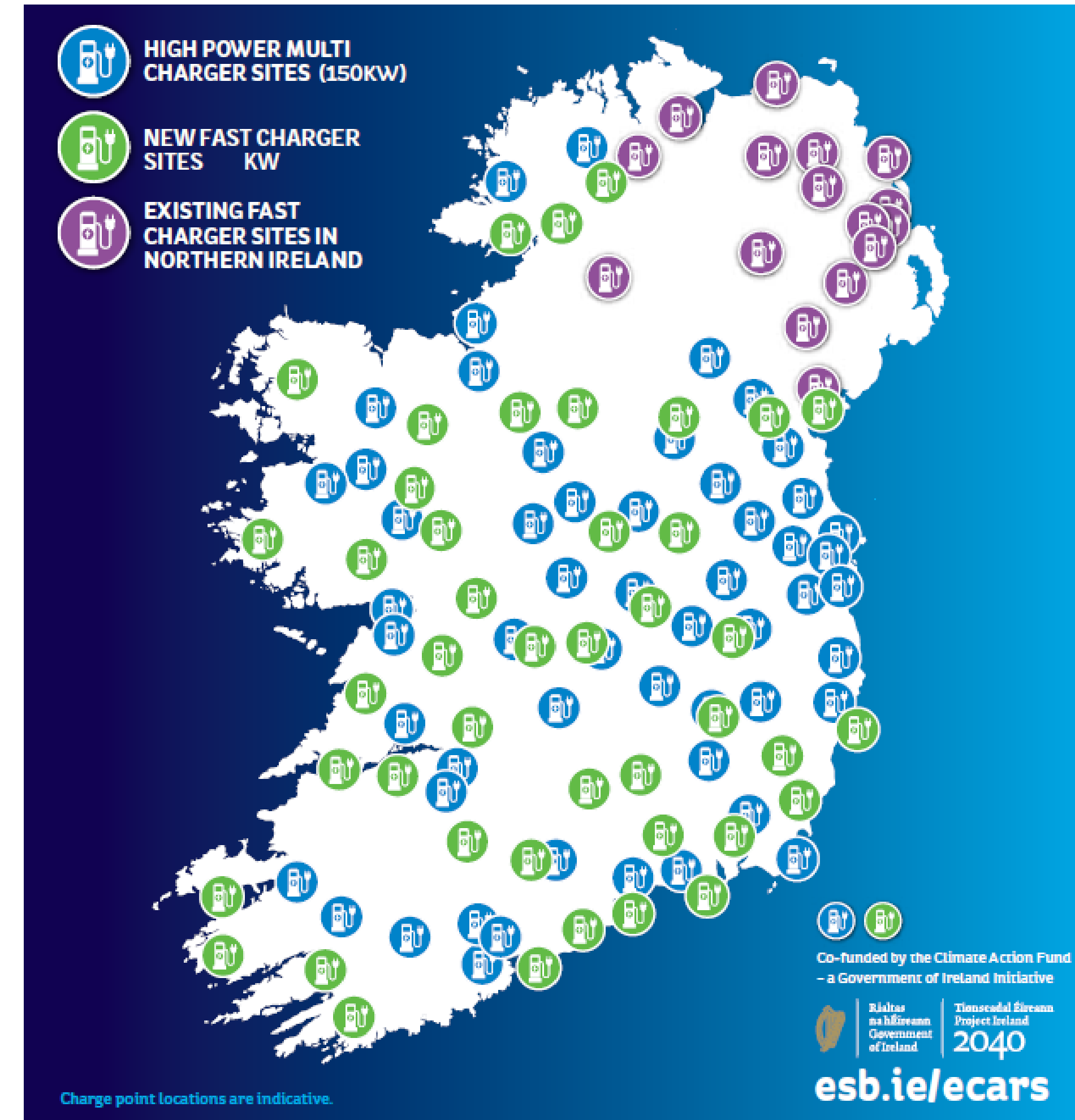


- Home
  - Majority of charging expected at home
  - Grant of up to €600 for home charger installation
- On-street
  - Existing on-street network of 650 charge points being upgraded
  - Support of up to €5,000 to Local Authorities for new charge points
- Location/Destination
  - Accelerated capital allowances
  - New Building regulations and planning guidelines under development
- Fast Chargers
  - Climate Action Fund supporting rollout

# Public Charging Development



- 90 new 150kW chargers
- 50 new 50 kW chargers
- Over 500 existing charge points upgraded
- Up to 400 new on-street charge points
- Introduction of fees



# Electricity System



- Significant increase in domestic load requires investment in low voltage system – particularly in urban areas
- Additional generation capacity need can be reduced by charging at times of low demand
- Increased challenges for system management
- Smart meter rollout – 250,000 by end 2020:
  - Opportunity to manage time of day when charging takes place
  - Increase ability to manage variable renewable generation

# Summary



- Electric vehicle uptake is well supported and growing
- Charging infrastructure will see significant development in coming years
- Ensuring the electricity system can accommodate the planned growth is the next key challenge



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