

Dundee City Council Electrifying a City

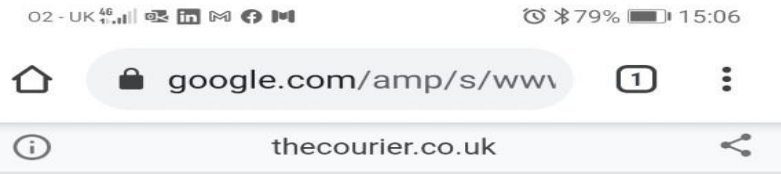
Fraser Crichton
Corporate Fleet Operations
Manager
Dundee City Council



Dundee is Europe's most visionary EV city

Population 150,000 DUNDEE'S POLLUTED STREETS Area – 60 km sq.

“By 2032 all new petrol and diesel cars and vans to be phased out in Scotland - eight years ahead of targets set by the UK government”



Hope Street, in Glasgow, had the highest levels of CO2, with Nicolson Street, Edinburgh second. This was followed by Seagate, Academy Street in Inverness, and Lochee Road.

Broughty Ferry Road saw one of the highest increases of emissions throughout Scotland.

Most polluted streets for nitrogen dioxide (2019)		
City	Street	Air quality reading
1 Glasgow	Hope Street.....	55.63
2 Edinburgh	Nicolson Street.....	48.81
3 Dundee	Seagate.....	43.90
4 Inverness	Academy Street.....	43.32
5 Dundee	Lochee Road.....	42.50



© DC Thomson
Dundee's Seagate is one of Scotland's most polluted streets



Dundee City Council: “Electrifying a City” means change



Charging Infrastructure



Electric Taxis



Council EV Fleet

21% Dundee City Council vehicles electric



Large electric HGV



23% Dundee taxis electric



Increasing Public uptake

HGV Project

Electric RCVs

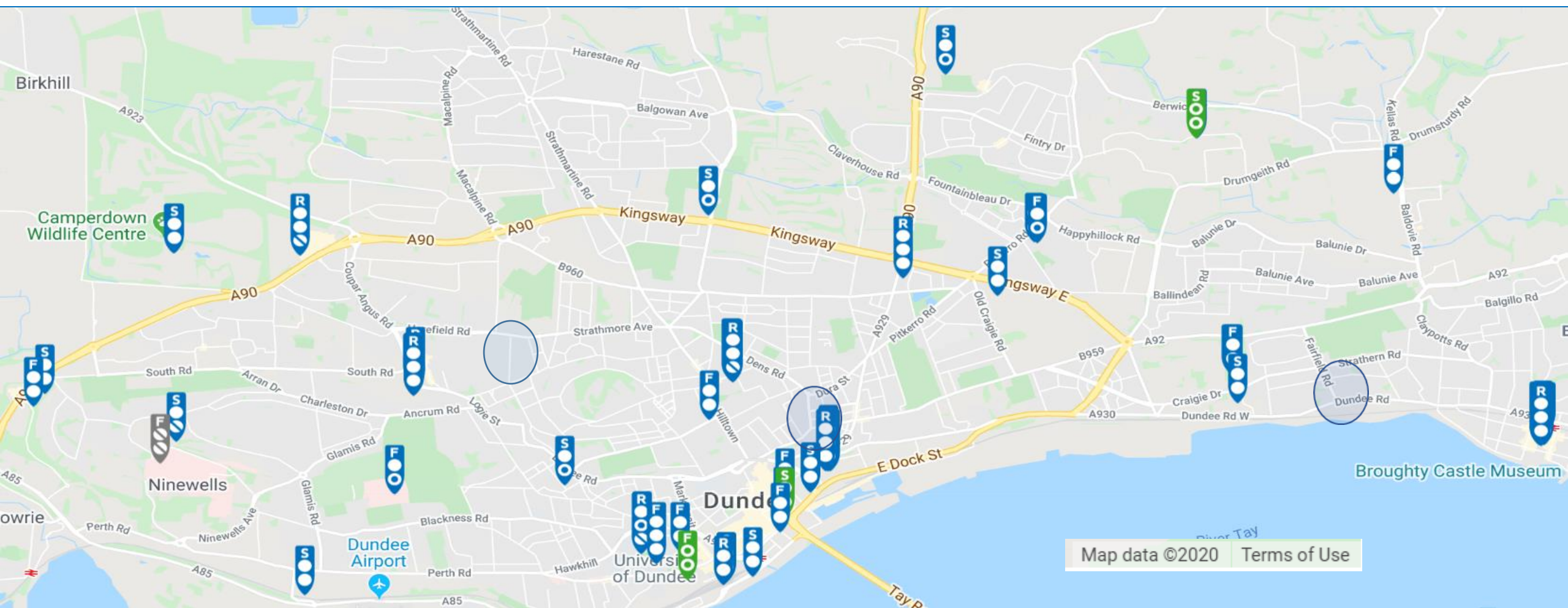
Renewable Energy



Major depot charging station

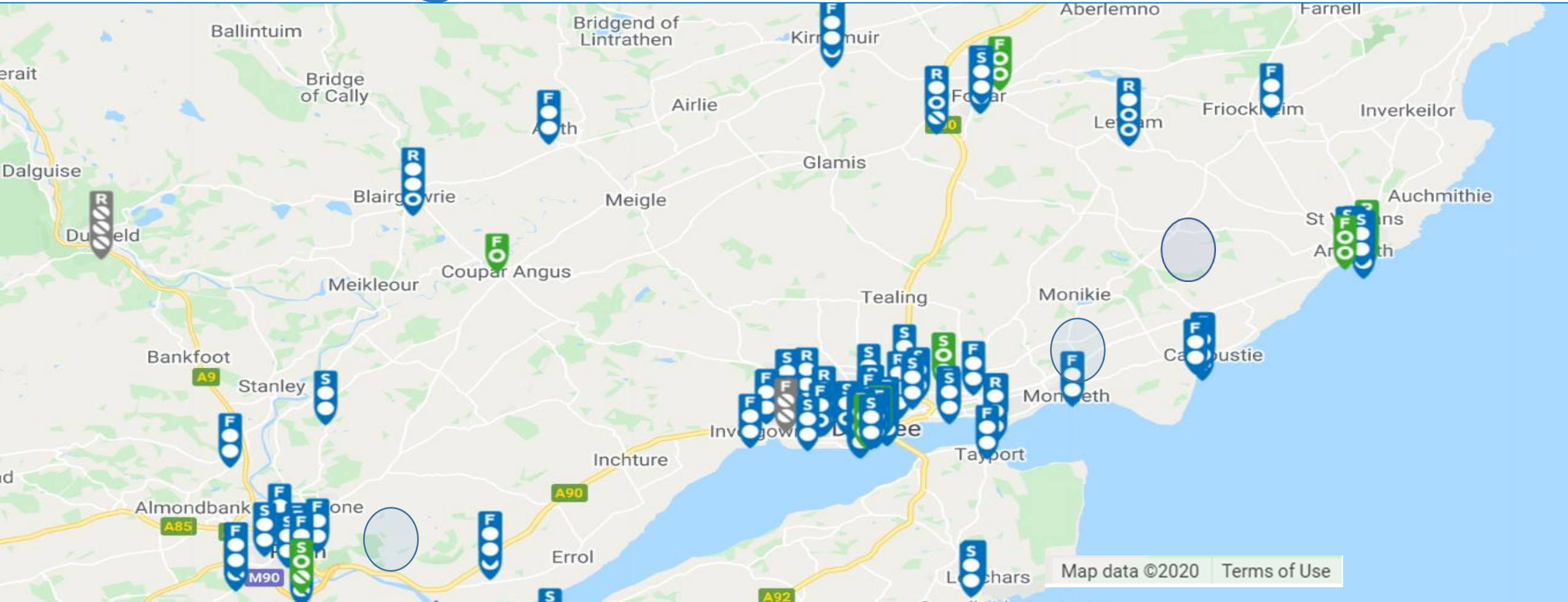


Dundee EV Charging Infrastructure



3 x Rapid Charging Hubs

Regional EV Infrastructure



Regionally supported infrastructure

Princes Street EV Hub



Office for Low Emission Vehicles

90kw Battery Storage



6 x 50kw
3 x 22kw
chargers

3 EV hubs across the city, 4th hub built in 2021

Multi Modal EV Hub

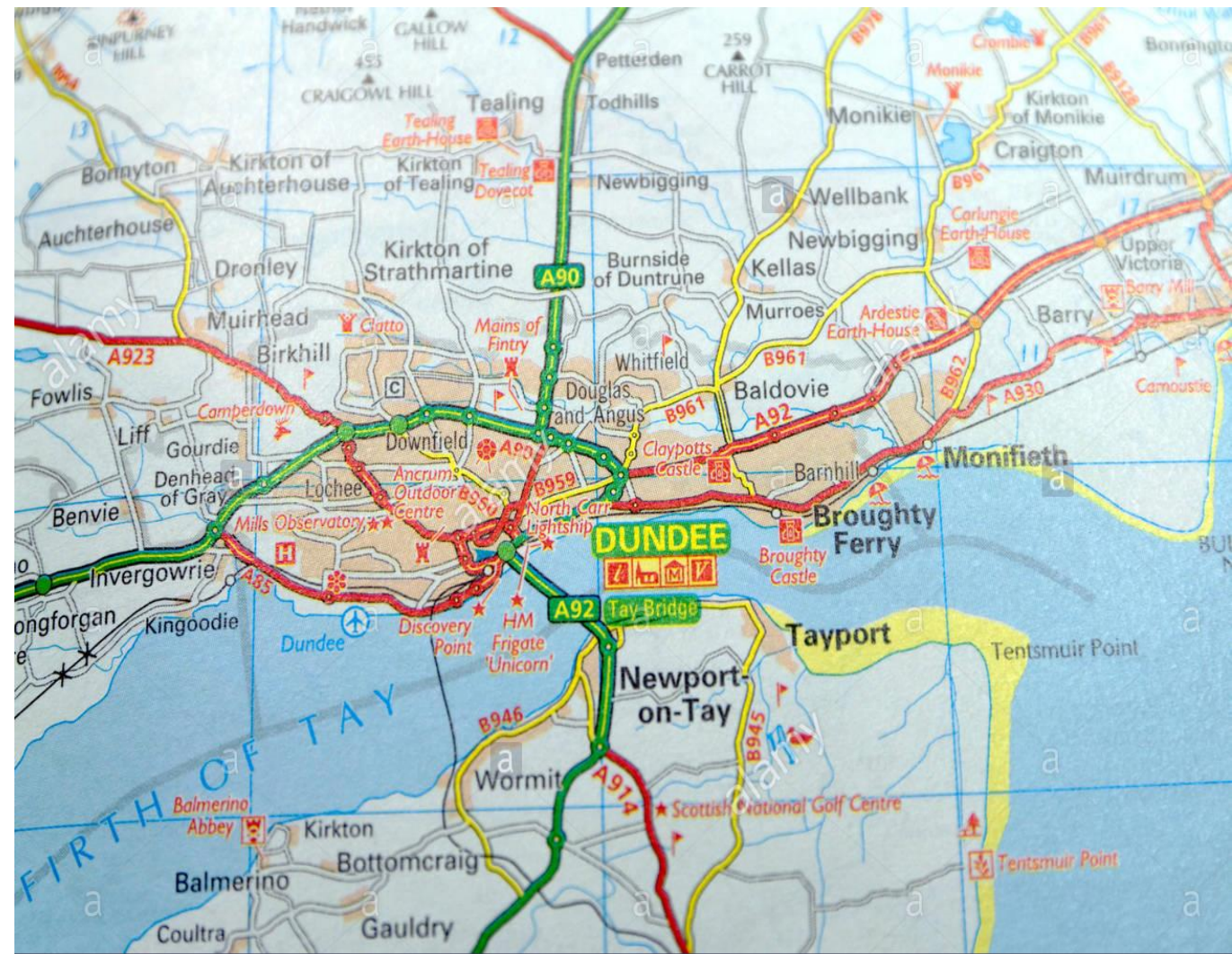


Dundee Taxi Liaison Group



- All new Private Hire taxis must be 100% electric - September 2017
- Hackney Company plates must be 100% electric - September 2017
 - NHS / Council procurement weighted for EVs
 - Free Parking in Dundee for all EVs
 - Reduced taxi testing fees for EVs

Multi-storey Car Park Charging Stations



Dynamic Loaded Renewable Charging





Local EV Policy Benefits/Enforcement



All Dundee residences with EV's can apply to a tariff reduction scheme

Multi-Storey Car Parks provide free parking to EVs

All EV parking including EV hubs are subject to TROs

Parking sensor and being installed at all EV parking bays.

Residential EV Charging Solution



Pop-Up EV Chargers



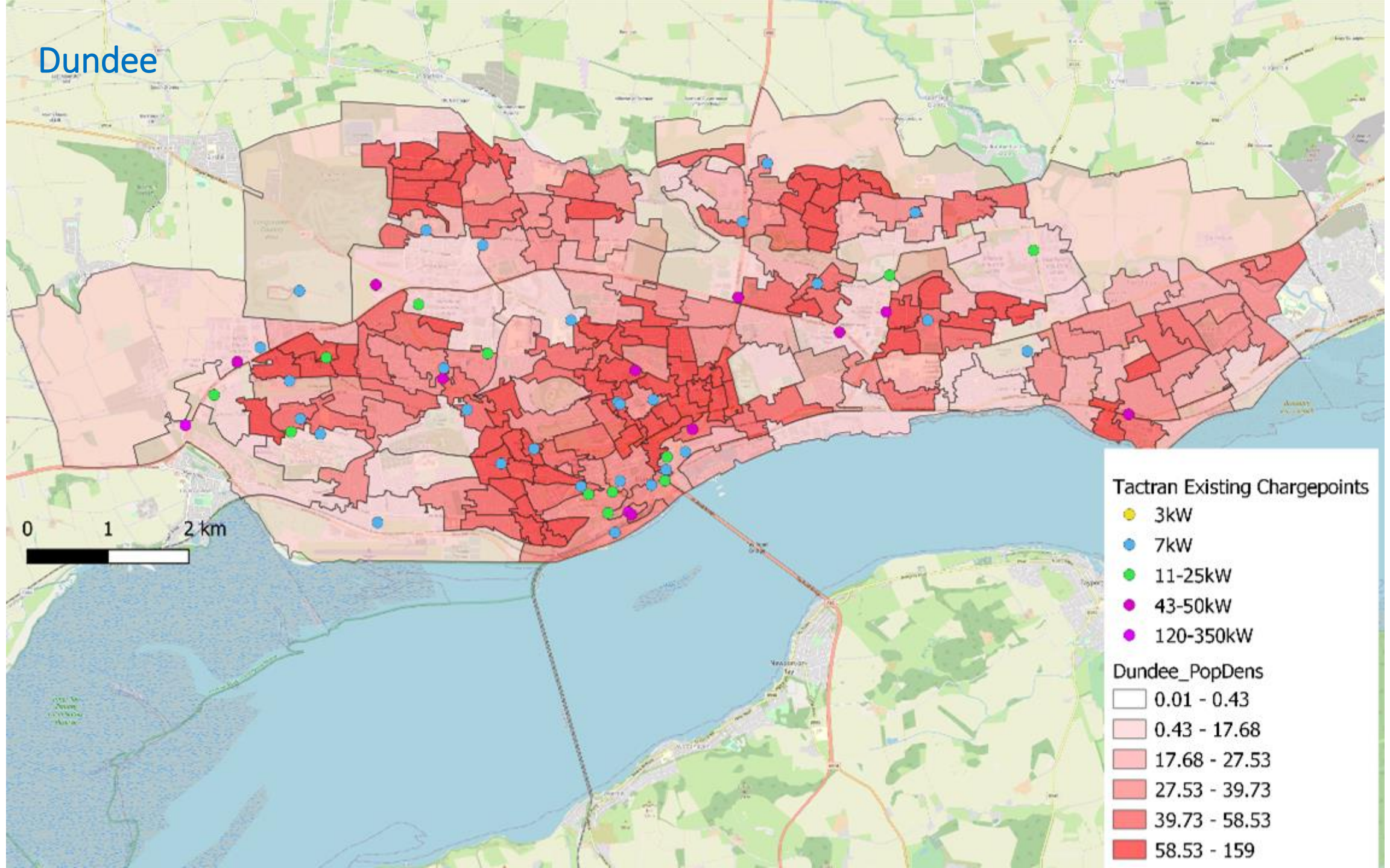
Local Leadership

Council leader – is leading the way in EVs



In August 2018, he and his wife traded in their two petrol cars for one electric-powered Nissan Leaf, a decision that is continuing to benefit the family. Used mainly for the nursery runs and driving to and from council meetings, Cllr Alexander claims his electric vehicle is “the best car” he has ever driven.

Dundee



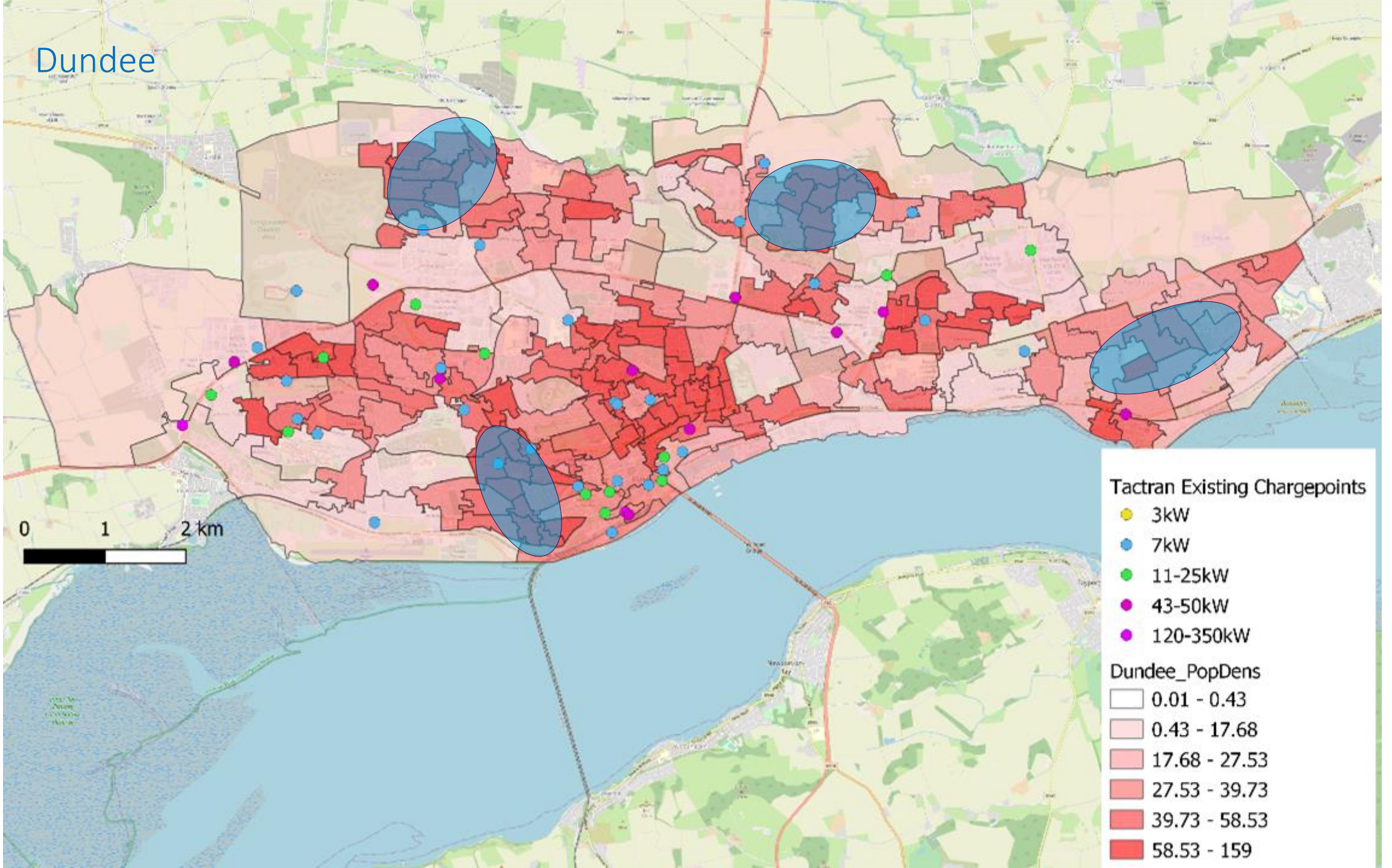
Tactran Existing Chargepoints

- 3kW
- 7kW
- 11-25kW
- 43-50kW
- 120-350kW

Dundee_PopDens

- 0.01 - 0.43
- 0.43 - 17.68
- 17.68 - 27.53
- 27.53 - 39.73
- 39.73 - 58.53
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Dundee



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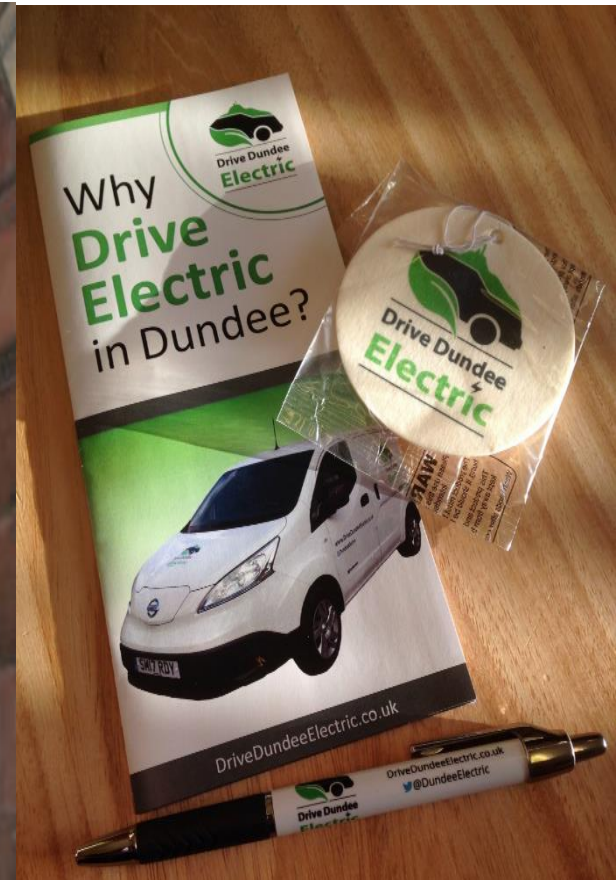
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Integrated Mobility/Major Event



Marketing & Communication





Dundee's E-mobility Future



- Energy is the key to the deployment of EV infrastructure and importantly where that energy is sourced
- Long-term public/private partnerships are required to achieve Scottish governments 2032 EV transition targets .
- Local authority EV infrastructure strategies require significant flexibility to accommodate continued innovation in vehicles and charging technologies.
- Electric vehicles are mobile energy sources on four wheels .Bi-directional charging, solar energy to car then car to office is coming.

Dundee City Council Fleet EV Infrastructure

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