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Government of Ireland



## **Delivery of EV charging in Local Authorities across Ireland**

Aoife O'Grady, Head of ZEVI

14 November 2024

# Regional and Local EV Charging Network Plan

## The objectives of this plan are to:

- Support the delivery of:
  - a resilient, self-sustaining, futureproofed network,
  - meeting user needs, and
  - minimizing state exchequer support
- Provide a pathway to deliver on national infrastructure targets in support of both AFIR requirements and Climate Action Plan objectives.
- The accelerated expansion of public destination and neighbourhood charging infrastructure to be led by local authorities
  - with the support of and in partnership with other public sector bodies, private sector groups and other stakeholders

## Regional and Local EV Charging Network Plan 2024-2030



# Public Consultation & Feedback

## Consultation Period:

24 May 2024 – 19 July 2024

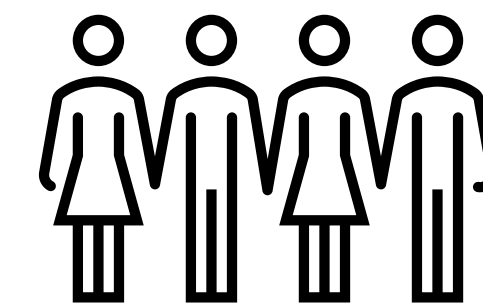
## Objective:

To receive feedback on the draft plan's contents to ensure diverse user needs are considered and challenges to implementation are thoroughly captured and addressed.

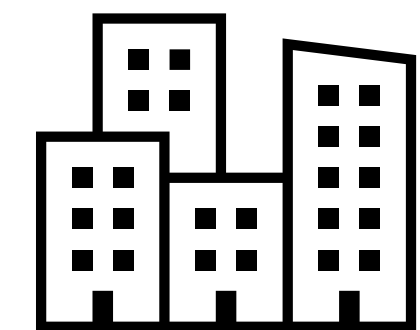
## Responses received by:

- Online Survey Questionnaire
- Email

## 83 Responses Received



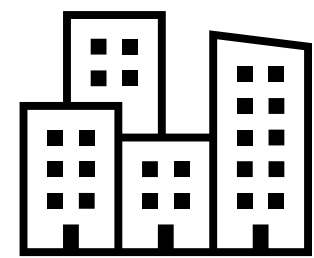
62 Individuals



21 Organisations

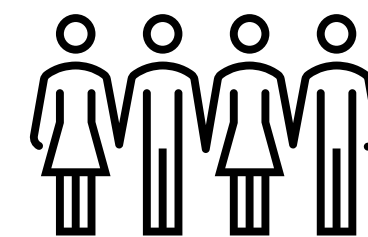


# Overview of Respondent Types



## Organisations

Organisation Types Represented	
No.	Type
1	EV Chargers and SaaS manufacture
2	Local Authority
1	Motor Distributor
1	Land Owner
2	Political Representative (Teachta Dála)
1	Commercial vehicle retailer
5	Energy Sector
1	EMSP - also a (Charge Point Operator)
1	Community Organisation
1	ESB Innovation
1	Semi-State Body
1	Logistics and Distribution Organisation
1	Representative Body
2	Charge Point Operator



## Individuals

- 77% owned or leased an EV or at least occasionally used an EV
- 22% did not own, lease or drive an EV

**89** %  
have access to private  
charging opportunities

**69** %  
charge primarily at home  
using their private charger

**81** %  
would prefer to charge  
primarily at home

# Respondent Themes

1

## Governance Structures

- Governance structure to ensure equitable distribution
- Technical guidelines

2

## Stakeholder Engagement & Inclusivity

- Proactive engagement
- Local residents

3

## User Experience & Safety

- Safety at night

4

## Private Sector & Multi-Agency Collaboration

- ESB private wires
- CPOs private investment

5

## Public Awareness & Education

- Misinformation

6

## Infrastructure & Technology

- Clear standards

7

## Planning & Regulation

- Planning permission delays

8

## Support for Renters & Apartment Dwellers

- Application support
- Options for renters

9

## Cost & Affordability

- Electricity costs
- Price transparency



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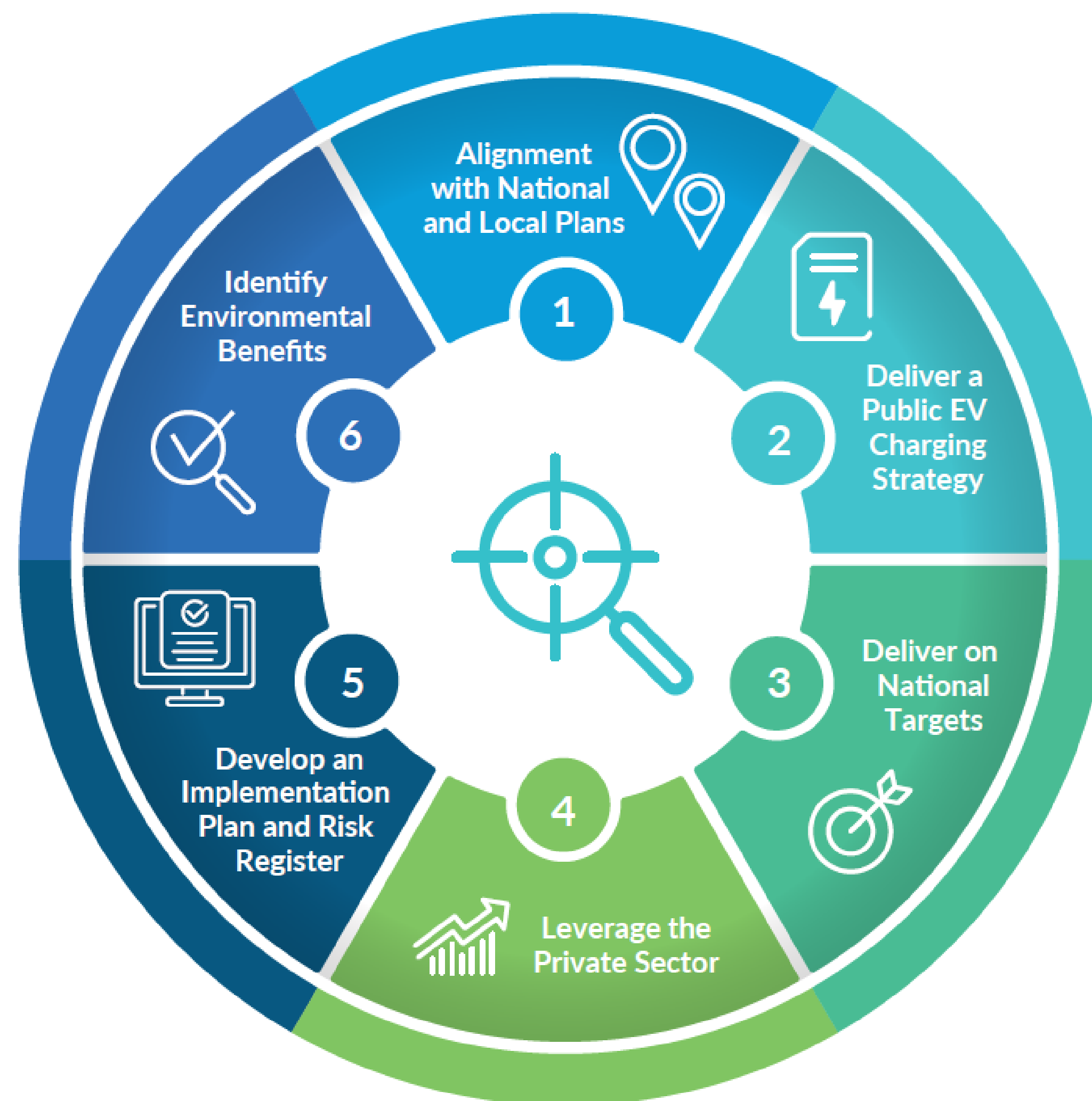


## Local Authority Regional Strategies

Aoife O'Grady, Head of ZEVI

14 November 2024

# LA EV Strategy Objectives







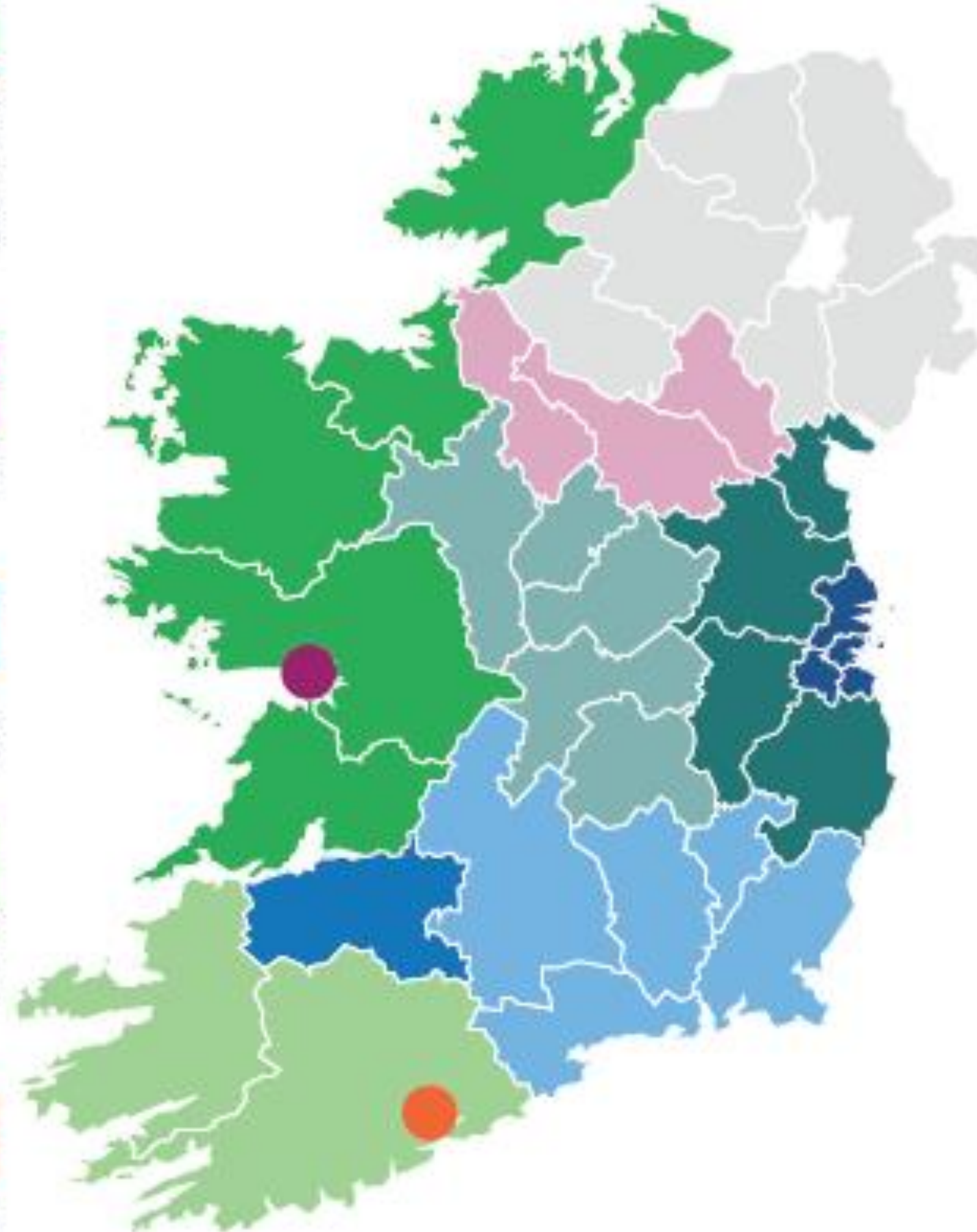
Region 7	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Donegal	5,724	18,716
Sligo	2,412	8,019
Galway County	6,437	21,465
Mayo	5,006	16,271
Clare	4,535	14,888
Total	24,113	79,360

City 1	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Galway City	2,797	9,327
Total	2,797	9,327

City 2	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Limerick City / County	6,780	22,276
Total	6,780	22,276

Region 6	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cork County	12,454	40,955
Kerry	5,691	18,647
Total	18,146	59,601

City 3	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cork City	8,083	26,581
Total	8,083	26,581



Region 1	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Cavan	2,840	9,239
Leitrim	1,283	4,166
Monaghan	2,299	7,428
Total	6,422	20,833

Region 2	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Offaly	2,794	9,094
Laois	2,755	9,048
Longford	1,457	4,736
Roscommon	2,449	7,616
Westmeath	3,378	11,247
Total	12,833	41,741

Region 3	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Fingal	9,146	31,186
DLR	7,042	24,014
South Dublin	8,704	29,681
Dublin City	17,403	59,345
Total	42,296	144,226

Region 4	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Kildare	8,422	28,268
Wicklow	5,268	17,680
Meath	7,306	24,476
Louth	4,203	13,755
Total	25,199	84,179

Region 5	2025	2030
Counties/Areas	AFIR (kW)	AFIR (kW)
Tipperary	6,311	20,680
Kilkenny	3,552	11,658
Waterford	4,360	14,329
Wexford	6,069	19,929
Carlow	2,294	7,526
Total	22,585	74,121

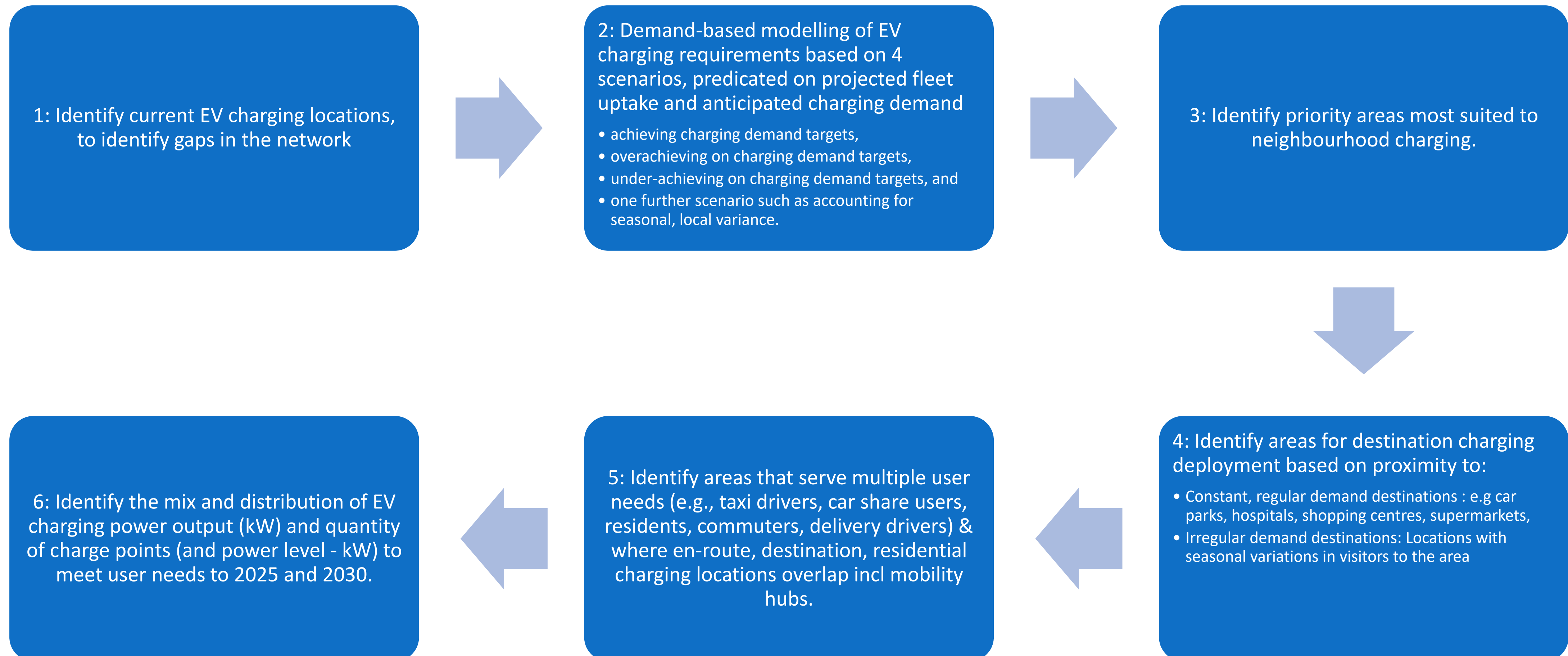
**Figure 2.** Summary of EV charging capacity requirements by 2025 and 2030 across the local authority areas.



# Local Authority Strategies - Progress

 	LA Regions	Current Status
	Region 1 Region 2 Region 4	<ul style="list-style-type: none"> <li>• Contracts Awarded to develop their EV Strategy</li> <li>• 7-8 months to complete Strategies</li> </ul>
	Region 5 Region 6 Region 7	<ul style="list-style-type: none"> <li>• Regions 5 &amp; 6 about to award contracts to develop their EV Strategy</li> <li>• Region 7 have recently issued the RFT</li> </ul>
	Region 3 City 1 City 2 City 3	<ul style="list-style-type: none"> <li>• Region 3 Dublin's strategy complete, have moved to implementation.</li> <li>• City 1,2,3 strategies complete, moving to implementation planning.</li> <li>• Region 3 &amp; City Regions to align Strategies with ZEVI's R&amp;L Network Plan &amp; Strategy Guidelines.</li> </ul>

# LA Strategy 6 key Outputs







# Stakeholder Engagement for Strategy Development







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## Local Authority EV Pilot Projects

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# LA EV Pilot Projects

## Multiple User Needs



- ✓ Right Charger
- ✓ Right Location
- ✓ Right Purpose

*...meeting user needs*



Residential neighbourhood charging will provide a similar solution to home charging for EV owners without access to a driveway.



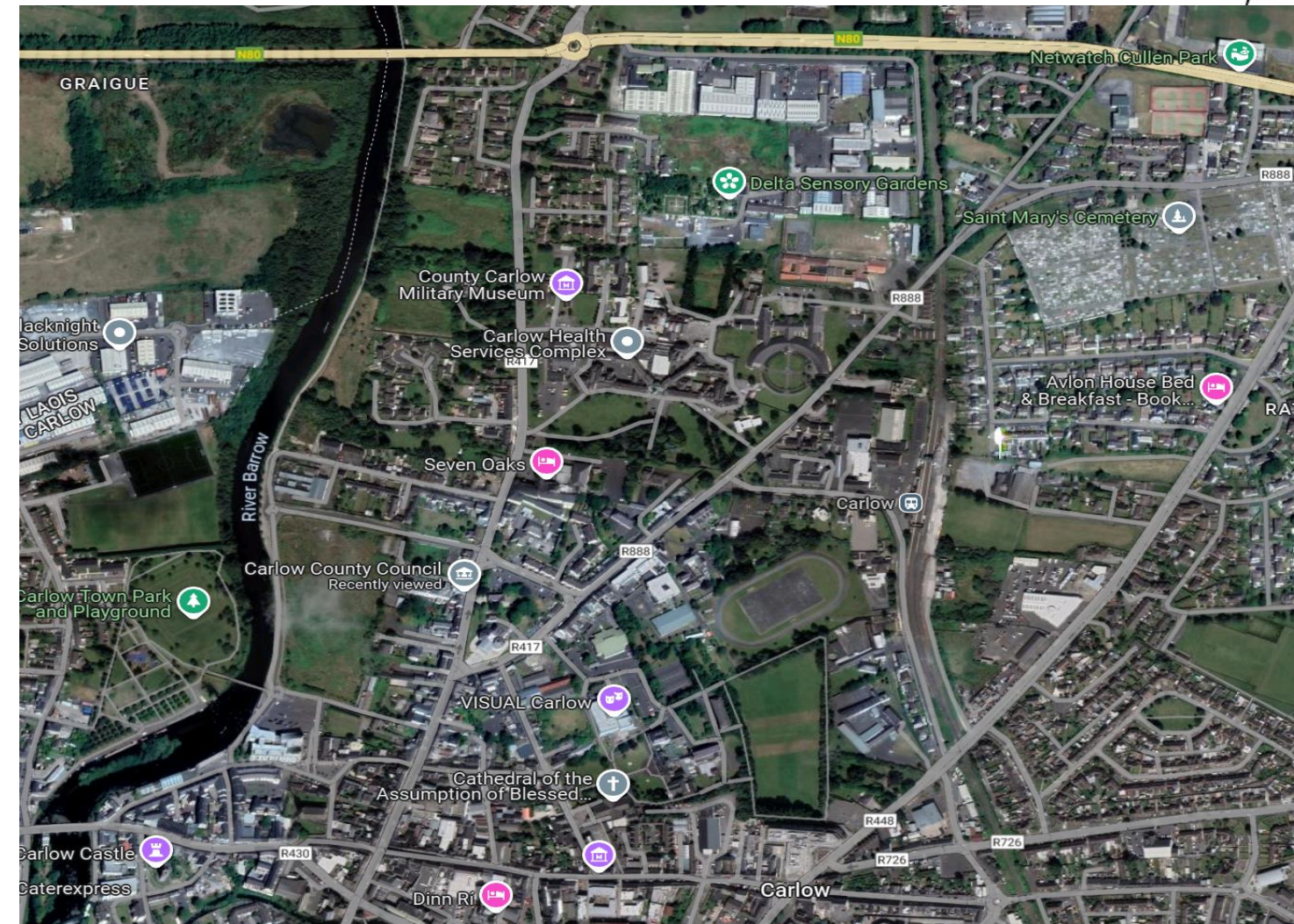
Destination charging will bridge the gap between home and local charging and meet the need for top-up charging where required.



En-route charging, involving higher-speed, higher-power charge points at strategic locations, will become increasingly important to cater for charging on the go. This will facilitate the quicker transition of high-mileage vehicle fleets to EV technology. It will also address charger/range anxiety.



# Carlow County Council



## Multiple User Needs

- Workplace
- Destination
- Enroute
- Nighttime Neighbourhood Charging for Residents with no off-street parking

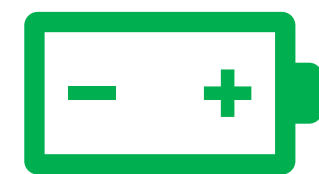




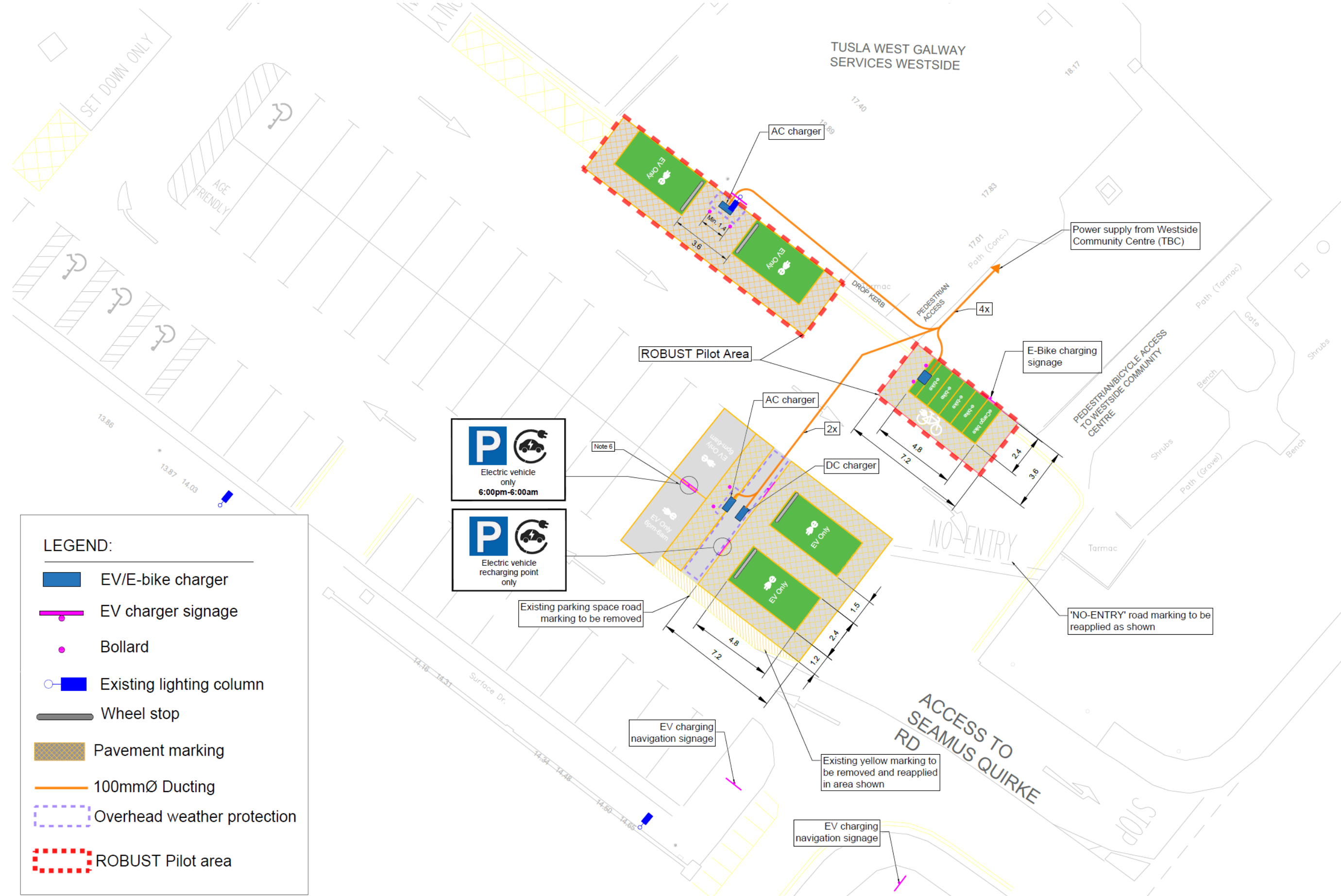
# Galway City County Council



Solar PV

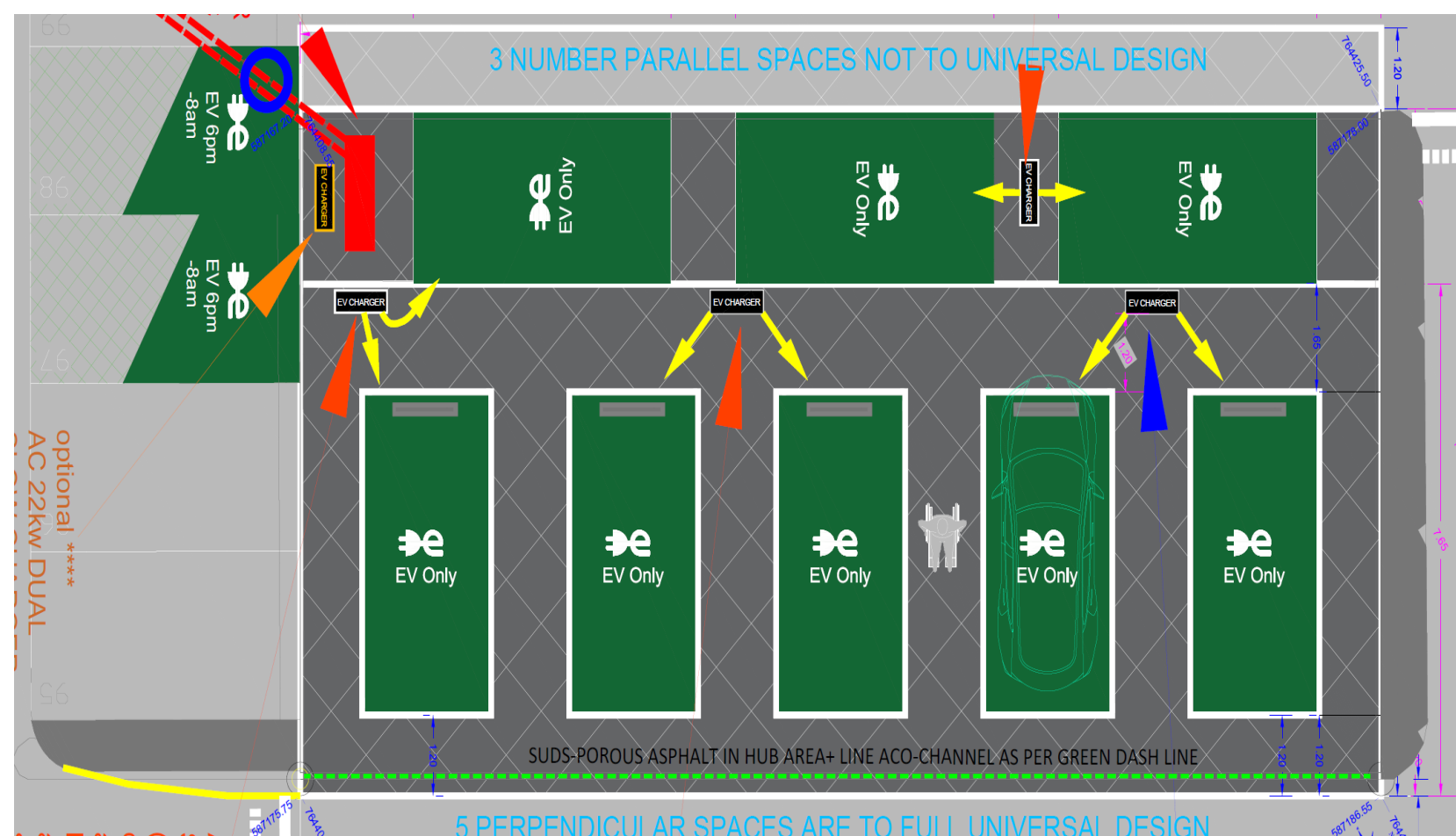
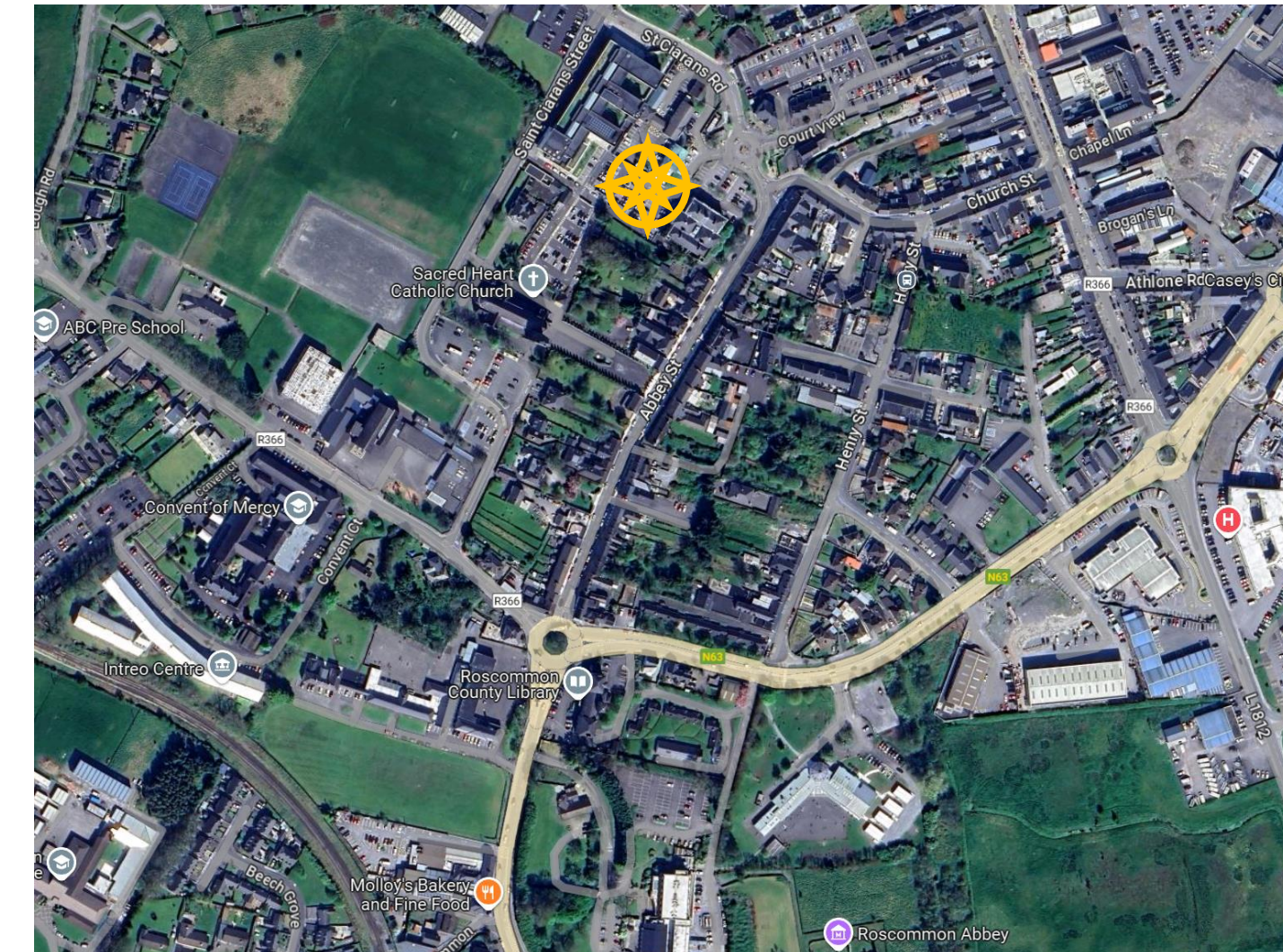
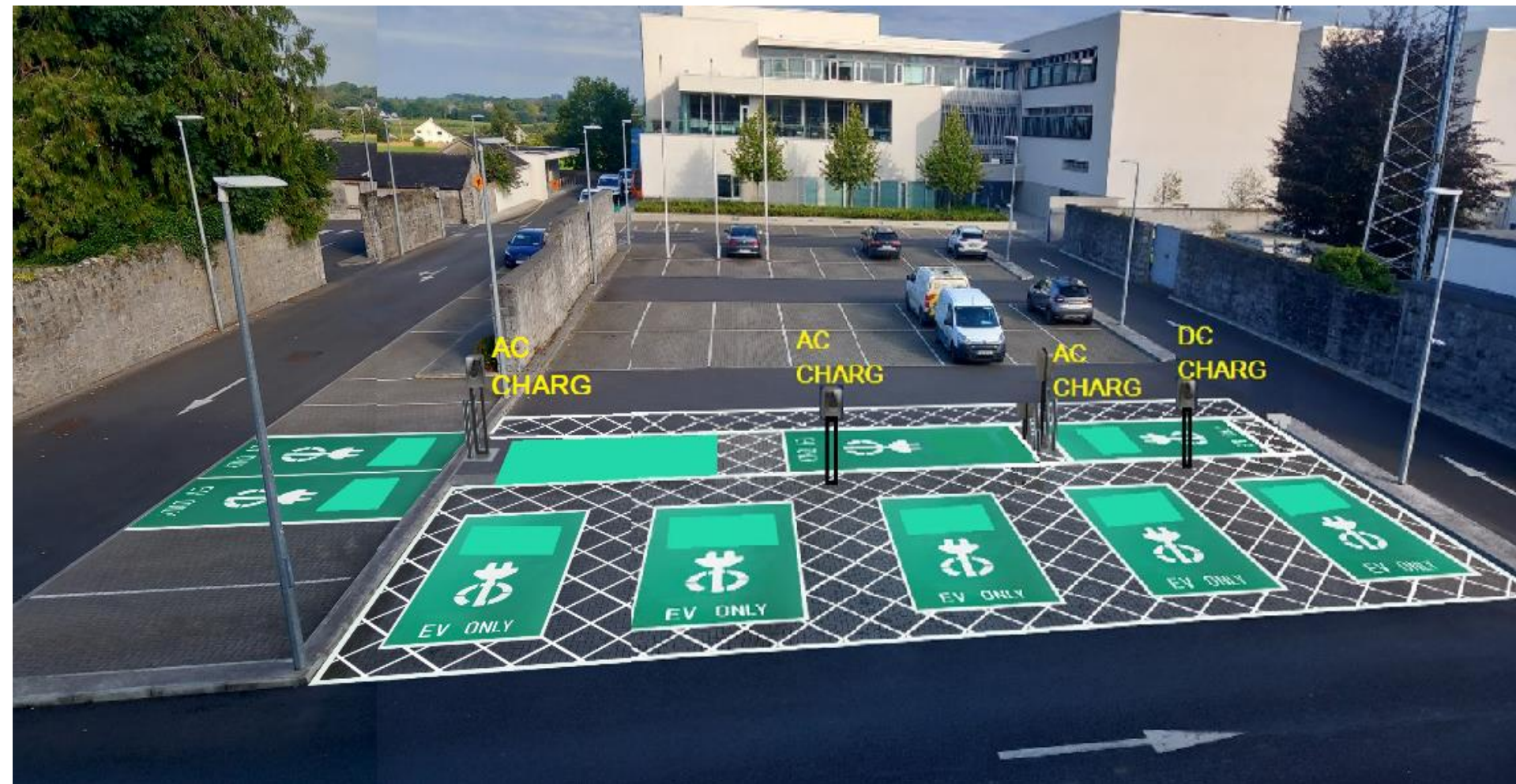


Battery Backup





# Roscommon County Council



## Multiple User Needs

- Workplace
- Destination
- Enroute
- Nighttime Neighbourhood Charging for Residents with no off-street parking





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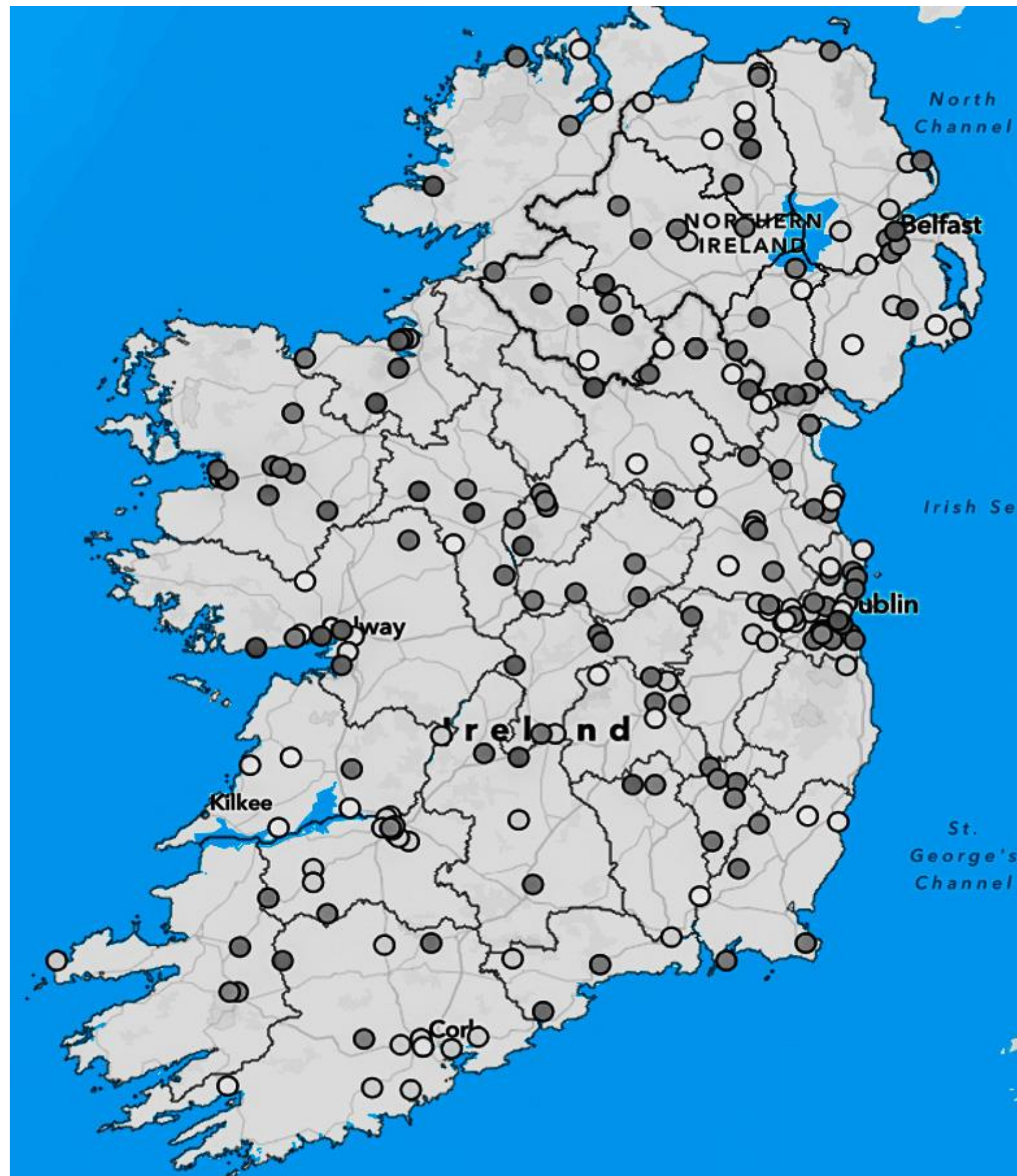


**Just Transition and Shared Island Sport Schemes**



# Shared Island Electric Vehicle Charging Sports Clubs Scheme

## Eligible Sports Clubs Following Technical Site Inspection Reports



- Total Applications – 292 (NI 59 & ROI 233)
- Total Eligible - 227 ( NI– 48 ROI 179)
- Eligible Potential to deliver– 12,000 to 15,000 KW of additional charging capacity

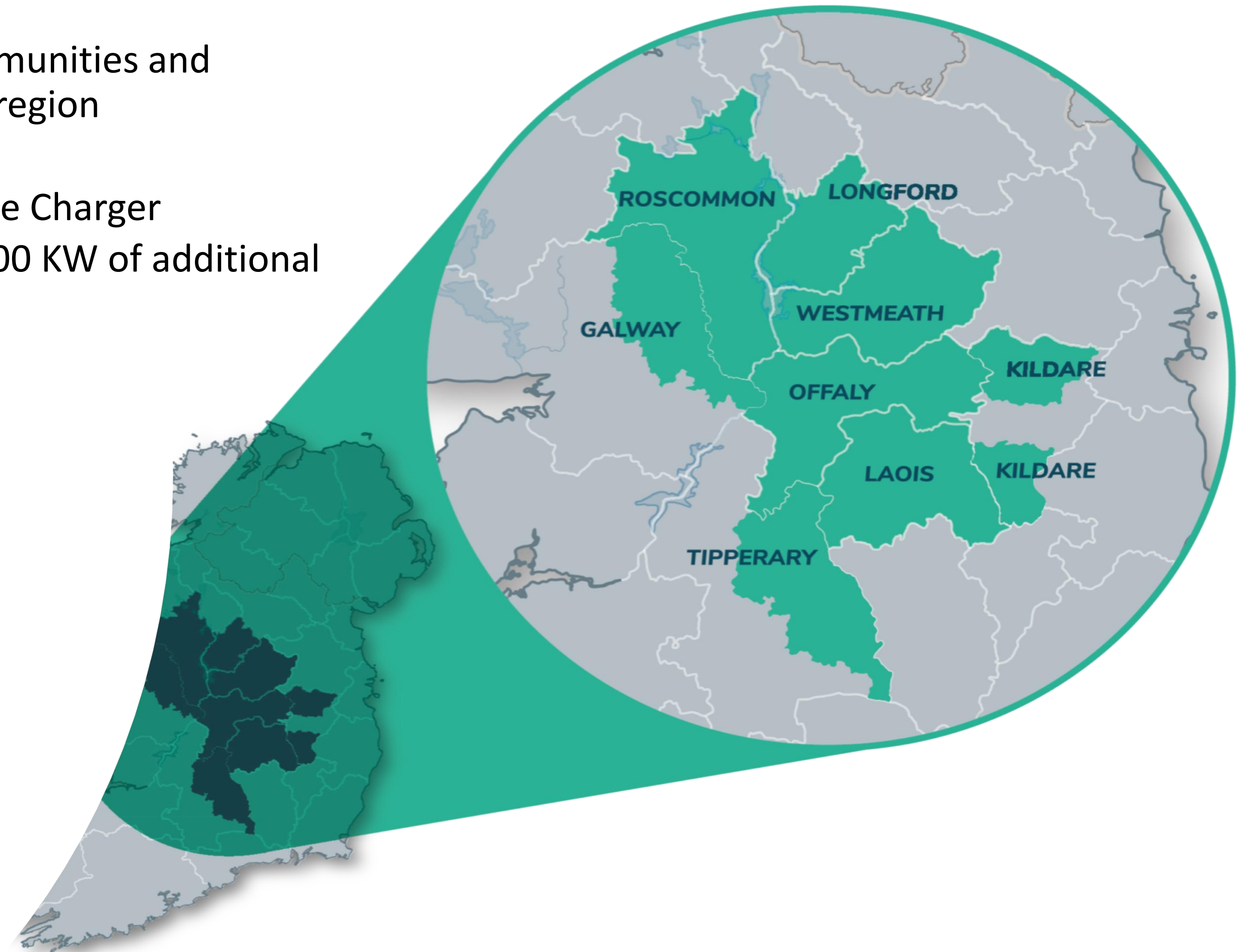
<u>County</u>	<u>Eligible Clubs</u>	<u>County</u>	<u>Eligible Clubs</u>	<u>County</u>	<u>Eligible Clubs</u>
Antrim	9	Carlow	5	Louth	9
Armagh	9	Cavan	3	Mayo	10
Derry/Londonderry	8	Clare	6	Meath	9
Down	8	Cork	14	Monaghan	9
Fermanagh	7	Donegal	5	Offaly	6
Tyrone	7	Dublin	24	Roscommon	5
		Galway	11	Sligo	6
		Kerry	4	Tipperary	5
		Kildare	8	Waterford	4
		Kilkenny	2	Westmeath	3
		Laois	5	Wexford	7
		Limerick	13	Wicklow	1
		Longford	5		



# Just Transition Fund Electric Vehicle Charging Scheme

- EV charging infrastructure to benefit communities and facilitate the transition to EVs across the region
- 121 Applications under EU JTF
- Install – 50kW DC or higher Electric Vehicle Charger
- Eligible Potential to deliver– 6,000 to 9,000 KW of additional charging capacity

County	Applications
Galway	12
Kildare	11
Laois	11
Longford	6
Offaly	24
Roscommon	20
Tipperary	11
Westmeath	26





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**zevi**

Zero Emission  
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**Thank you.**

14 November 2024