

TO: Jeffrey Hoare  
Property Manager  
Musgrave Retail Partners Ireland

08 March 2023

SUBJECT: Planning Requirements for EV Charging at SuperValu Newcastle Store (Currently under Construction)

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Dear Jeffrey,

As per your previous correspondence regarding planning requirements for EV charge points at the new Newcastle SuperValu store, see attached (Appendix A) site-specific calculations of charging capacity, comparing what ESB ecars is proposing to Musgraves with the Council's specified requirements.

It is our understanding that the Council has specified two (2) requirements of you for EV charging at the site:

- a. 20% EV charge point provision
- b. 100% EV ducting provision

Based on our assessment, requirement (a) is met and exceeded by our proposed 2x 100kW deployment, while requirement (b) will be met through future upgrade on a demand driven basis.

On each requirement specifically:

- a. **20% Provision Requirement:** ESB ecars' proposed deployment of a 2x 100kW / 4 bay installation delivers greater than the 20% requirement specified in planning (which would be 128.8kW if the host used slow 7kW AC charge points).
- b. **100% Ducting Requirement:** ESB ecars' proposed deployment of a 2x 100kW / 4 bay installation delivers less than the 100% requirement specified in planning (which would be 644kW assuming use of slow 7kW AC charge points).

While our current proposed deployment does not address Council's specified requirement (b), the proposed 2x 100kW / 4 bay installation is the preferable infrastructure deployment from an end user perspective at a location of this type. If Musgraves and ESB ecars were to simply satisfy the planning requirement, we would deploy 92x 7kW AC charge points. However, customers would tend not to use these as they would be too slow for typical supermarket customer use (8-10 hours for a typical EV to get from 10-80%, vs 35mins on the proposed 100kW DC charge points).

If the Council are willing to accept ESB's proposed 2x 100kW / 4 bay installation as sufficiently meeting their requirements, ESB can commit to Musgraves that we will actively review the performance of the installation with a view to increasing capacity on site (i.e. add additional chargers) up to 800kW (i.e. 8x 100kW or 4x 200kW) on a demand-led basis (i.e. monitoring usage and installing additional chargers as required to satisfy demand) and by revision of the agreement between ESB and Musgraves.

If you require any additional support from ESB ecars on this, please do not hesitate to contact us.

Kind Regards,

Niall Geoghegan

Business Development Manager (Ireland), ESB ecars



## Appendix A: Supporting Calculations

Parameter	Input	Unit
Site:	SuperValu Newcastle, Co. Dublin	-
Quantity of Parking Spaces:		92 Spaces
ESB ecars Planned EV charging Deployment:	-	-
Chargers:	2x 100 kW chargers	-
Charging Bays & Connectors:		4 Bays & Connectors
ESB ecars Planned EV charging Deployment:		200 kW
Planning Requirement:	-	-
a EV charge point provision (%):		20% -
a EV charge point provision (Spaces):		18.4 Spaces
Total deliverable power @ 7kW rate:		128.8 kW
b EV charge point ducting provision (%):		100% -
b EV charge point ducting provision (Spaces):		92 Spaces
Total deliverable power @ 7kW rate:		644 kW