

Appendix 28-1: Traffic Survey Data





ORIEL WINDFARM PROJECT

Environmental Impact Assessment Report Appendix 28-1: Traffic Survey Data

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ORIEL WIND FARM PROJECT – TRAFFIC SURVEY DATA

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ORIEL WIND FARM PROJECT – TRAFFIC SURVEY DATA

1 INTRODUCTION

This report provides the traffic survey data that was used to inform the assessment on traffic and transport for the Oriel Wind Farm Project, which is provided in volume 2C, chapter 28: Traffic and Transport.

1.1 Automatic Traffic Counts

Automatic Traffic Counters (ATCs) were positioned on the sections of road along the onshore cable route from the onshore substation to the landfall location. The ATCs were undertaken at five sites in September 2019 and at three sites in December 2019 (see Figure 28-5 in chapter 28: Traffic and Transport) where traffic flows and vehicle speeds were recorded in each direction for a seven-day period. A summary of the survey details is presented below (Table 1-1) and the survey results are provided in section 2.

Table 1-1: Summary of site-specific survey data.

| Title | Extent of survey | Overview of survey | Survey contractor | Date | Section |
|---------------------------|-------------------------------------|--|----------------------------|----------------|-------------|
| Automatic Traffic Surveys | The local and regional road network | Counters were positioned at eight locations where traffic flows and vehicle speeds were recorded in each direction for a seven-day period. | Nationwide Data Collection | September 2019 | Section 2.1 |
| Automatic Traffic Surveys | Local road network | Counters were positioned at three locations where traffic flows and vehicle speeds were recorded in each direction for a seven-day period. | Nationwide Data Collection | December 2019 | Section 2.2 |

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2 ATC SURVEY RESULTS

2.1 September 2019

2.1.1 Site 1: N33, west of M1 roundabout

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|----------------------------|----------------------|--------------------------|----------------------------|---------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 1 | N33, west of M1 roundabout | Eastbound | 100 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 45961 | 6890 | 6566 | 3840 | 8.4 | 2031 | 4.4 | 1056 | 2.3 | 86.2 | 95.5 |
| | | Westbound | 100 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 47335 | 7368 | 6762 | 26893 | 56.8 | 19384 | 0.0 | 12881 | 27.2 | 103.3 | 116.6 |
| | | Eastbound/ Westbound | 100 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 93296 | 14258 | 13328 | 30733 | 32.9 | 21415 | 23.0 | 13937 | 14.9 | 94.9 | 110.0 |

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2.1.2 Site 2: L2226

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|---------------------------|----------------------|--------------------------|----------------------------|---------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 2 | L2226, west of JTC Site 1 | Eastbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 8388 | 1305 | 1198 | 3934 | 46.9 | 2705 | 32.3 | 1737 | 20.7 | 78.8 | 92.8 |
| | | Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 8725 | 1370 | 1246 | 4594 | 52.7 | 3237 | 0.0 | 2108 | 24.2 | 80.3 | 94.6 |
| | | Eastbound/ Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 17113 | 2676 | 2445 | 8528 | 49.8 | 5942 | 34.7 | 3845 | 22.5 | 79.6 | 93.8 |

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2.1.3 Site 3: Drumcar Road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|--------------------------------------|-------------------------|--------------------------|----------------------------|---------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 3 | Drumcar Road between JTC sites 1 & 2 | Eastbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 6141 | 989 | 877 | 1252 | 20.4 | 757 | 12.3 | 439 | 7.1 | 67.3 | 83.3 |
| | | Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 5772 | 914 | 825 | 890 | 15.4 | 478 | 0.0 | 246 | 4.3 | 66.0 | 80.2 |
| | | Eastbound/ Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 11913 | 1903 | 1702 | 2142 | 18.0 | 1235 | 10.4 | 685 | 5.8 | 66.7 | 81.7 |

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2.1.4 Site 4: Drumcar Road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit 1 (+5km/h). | % > Speed Limit 1 (+5km/h). | No. > Speed Limit 1 (+10km/h). | % > Speed Limit 1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|-----------------------------------|-----------------------|--------------------------|----------------------------|---------------------------|-----------------|------------|------------|--------------------|------------------|-------------------------------|-----------------------------|--------------------------------|------------------------------|------------|--------------|
| 4 | Drumcar Road, south of JTC Site 2 | Northbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 1540 | 237 | 220 | 132 | 8.6 | 66 | 4.3 | 31 | 2.0 | 59.4 | 75.9 |
| | | Southbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 1634 | 243 | 233 | 59 | 3.6 | 29 | 0.0 | 12 | 0.7 | 55.2 | 70.2 |
| | | Northbound/Southbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 3174 | 480 | 453 | 191 | 6.0 | 95 | 3.0 | 43 | 1.4 | 57.2 | 72.7 |

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2.1.5 Site 5: Unnamed road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit 1 (+5km/h). | % > Speed Limit 1 (+5km/h). | No. > Speed Limit 1 (+10km/h). | % > Speed Limit 1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|--------------------------------------|----------------------|--------------------------|----------------------------|---------------------------|-----------------|------------|------------|--------------------|------------------|-------------------------------|-----------------------------|--------------------------------|------------------------------|------------|--------------|
| 5 | Unnamed Road between JTC Sites 3 & 4 | Eastbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 4685 | 691 | 669 | 2711 | 57.9 | 1976 | 42.2 | 1316 | 28.1 | 81.4 | 96.1 |
| | | Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 4777 | 702 | 682 | 2804 | 58.7 | 2076 | 0.0 | 1409 | 29.5 | 82.0 | 97.2 |
| | | Eastbound/ Westbound | 80 | Tuesday, 03 September 2019 | Monday, 09 September 2019 | 9462 | 1393 | 1352 | 5515 | 58.3 | 4052 | 42.8 | 2725 | 28.8 | 81.7 | 96.7 |

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2.2 December 2019

2.2.1 Site 6: Togher Road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|-------------------------------------|----------------------|--------------------------|---------------------------|--------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 1 | Togher Road, east of L2250 junction | Eastbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 2477 | 369 | 354 | 724 | 29.2 | 405 | 16.4 | 203 | 8.2 | 72.4 | 85.6 |
| | | Westbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 2626 | 395 | 375 | 930 | 35.4 | 555 | 21.1 | 274 | 10.4 | 74.5 | 87.5 |
| | | Eastbound/ Westbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 5103 | 764 | 729 | 1654 | 32.4 | 960 | 18.8 | 477 | 9.3 | 73.5 | 86.6 |

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2.2.2 Site 7: Togher Road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|---------------------------------|----------------------|--------------------------|---------------------------|--------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 2 | Togher Road, east of JTC Site 1 | Eastbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 1733 | 259 | 248 | 1375 | 79.3 | 1223 | 70.6 | 1067 | 61.6 | 94.8 | 115.4 |
| | | Westbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 1523 | 225 | 218 | 553 | 36.3 | 415 | 27.3 | 296 | 19.4 | 75.0 | 94.2 |
| | | Eastbound/ Westbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 3256 | 483 | 465 | 1928 | 59.2 | 1638 | 50.3 | 1363 | 41.9 | 85.5 | 108.7 |

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2.2.3 Site 8: Coast Road

Summary

| Site No. | Location. | Direction. | Speed Limit - PSL (km/h) | Start Date. | End Date. | Total Vehicles. | 5 Day Ave. | 7 Day Ave. | No. > Speed Limit. | % > Speed Limit. | No. > Speed Limit1 (+5km/h). | % > Speed Limit1 (+5km/h). | No. > Speed Limit1 (+10km/h). | % > Speed Limit1 (+10km/h). | Mean Speed | 85%ile Speed |
|----------|-------------------------------------|------------------------|--------------------------|---------------------------|--------------------------|-----------------|------------|------------|--------------------|------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|------------|--------------|
| 3 | Coast Road, north of L2244 junction | Northbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 852 | 124 | 122 | 15 | 1.8 | 6 | 0.7 | 1 | 0.1 | 53.7 | 66.3 |
| | | Southbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 798 | 111 | 114 | 2 | 0.3 | 0 | 0.0 | 0 | 0.0 | 48.6 | 60.6 |
| | | Northbound /Southbound | 80 | Tuesday, 03 December 2019 | Monday, 09 December 2019 | 1650 | 236 | 236 | 17 | 1.0 | 6 | 0.4 | 1 | 0.1 | 51.3 | 63.5 |