Lighting Assessment – Executive Summary

1.1.1. This Lighting Impact Assessment has been written by DFL (Designs for Lighting Ltd), a lighting design consultancy specialising in Lighting Impact Assessments, obtrusive light mitigation, and detailed lighting design.

1.1.2. The Lighting Impact Assessment assessed the proposed lighting at the former Anglesey Aluminium Works, at Holyhead (Application Site).

1.1.3. The Proposed Development is for 2.5m sq.ft. in a range of employment uses as shown in the Proposed Development Parameters Plan (**Figure 6**).

1.1.4. Lighting associated with the Proposed Development will comply with relevant British Standards and Institution of Lighting Professionals (ILP) guidance to ensure obtrusive light is minimised in accordance with best practice.

1.1.5. A Lighting Strategy (**Appendix 1**) has been development for the Proposed Development. This Lighting Impact Assessment assesses the potential effects of the lighting proposed within this strategy document on receptors that have been identified surrounding the Application Site.

1.1.6. This report outlines the following:

- Relevant obtrusive light policies in direct relation to the Proposed Development,
- Relevant National and Local Policies,
- Relevant Guidance Documents,
- Why the Proposed Development requires artificial lighting,
- Details as to how lighting will be implemented for the Proposed Development,
- The existing lighting conditions within and surrounding the Application Site,
- Those locations that are sensitive to lighting, and;
- The potential effects the proposed lighting.

1.1.7. It has been identified that the Application Site is set within a well inhabited rural Settlement (E3). This is due to the existing character of the Application Site and adjacent areas. However, due the semi-rural character of the areas located East and South of the Application Site, the criteria used for the assessment of lighting effects is that of an E1 Environmental Zone. This provides a stricter framework for the assessment, ensuring that obtrusive light is affectively managed.

1.1.8. A desktop (**Section 7**) and on-site (**Section 8**) lighting baseline survey has been carried out for the Application Site. This found that the Application Site is currently predominantly dark.

1.1.9. This darkness was due to the demolition and remediation works currently taking place on the Application Site, and the majority of the lighting having been removed or deactivated for these works. Previously, the Application Site would have been more brightly lit due to its use as Anglesey Aluminium.

1.1.10. Lighting associated with the Proposed Development shall be designed in accordance with the Lighting Strategy for the Application Site outlined in **Appendix 1**.

1.1.12. Through the application of the Lighting Strategy human and heritage receptors will not be significantly affected by obtrusive light, as shown in **Section 10**, **Appendix 5** and **Appendix 6**.

1.1.13. The indicative horizontal light spill diagram (**Appendix 5**) and the indicative vertical illuminance calculations (**Appendix 6**) have been produced using the Illustrative Masterplan. This provides a reasonable scenario for how the site could be developed but the Parameters Plan sets the parameters for how the scheme will be brought forward through reserved matters applications in due course. Lighting calculations are based on the Lighting Strategy which is detailed within **Appendix 1** and all obtrusive light calculation have been conducted using a maintenance factor of 1 (as described within GN01:2021 and GN08:2023).

1.1.14. The lighting assessment is based on the Parameters Plan, while using the Master Plan to prove an example of how lighting may be implemented within the set of parameters shown on the Parameters Plan.

1.1.15. There will be a **Slight** residual effect on the ecology receptors. This effect will be restricted to those areas that are closest to the lit area of the Proposed Development, with the majority of these areas being retained as dark space. This includes the retained green space area, which will not experience light levels above the recommended levels detailed within GN08:2023 (**Section 10**, **Appendix 5** and **Appendix 6**).

1.1.16. There will be a change in the lighting baseline levels due to the Proposed Development. However, this is likely to bring the baseline lighting levels on the Application Site back to similar levels when it was used as Anglesey Aluminium.

1.1.17. Due to the Lighting Strategy (**Appendix 1**) and the mitigation detailed within **Table 32** levels of obtrusive light will be kept within the guidance levels of an E1 Environmental Zone. This is due to improvement is lighting technology and the selection of appropriate and modern standards for the areas that will be lit.