

## 19 Summary of Mitigation, Monitoring and Residual Effects

This chapter provides a summary of the proposed mitigation and monitoring measures as well as an overview of the residual likely significant effects associated with the proposed development (as identified in **Chapters 6 - 18**).

A number of safeguards and management measures have been identified in order to mitigate negative environmental effects during construction and operation. It should be noted that this generally excludes any inherent measures and elements that have been incorporated in the design. Further, any environmental management measures during construction that have been identified and are associated with construction activity and methodology are documented in the CEMP which as available in **Appendix 4.1**.





Table 19.1: Summary table of potential effects, mitigation and monitoring measures and residual effects

| Receptor                                    | Potential Effects  | Mitigation   | Monitoring   | Residual Effects                 |  |  |
|---|--|--|--|----------------------------------|--|--|
| Traffic and Transportation                  |  |  |  |                                  |  |  |
| Local Residents,<br>Businesses and Tourists | Inconvenience due to roadworks and diversions due to road closures | <ul> <li>Programming of works to avoid summer tourist peak, following consultation with local residents and businesses;</li> <li>Construction Traffic Management Plan;</li> </ul>  | Monitoring of traffic<br>volumes and compliance<br>with CTMP during the<br>works   | Short-term temporary significant |  |  |
| Air Quality and Climate                     | Air Quality and Climate  |  |  |                                  |  |  |
| Population                                  | Elevated air emissions during construction                         | <ul> <li>Spraying of exposed earthwork activities, stockpiles and site haul roads during dry weather;</li> <li>Provision of wheel washes at exit points;</li> <li>Covering of stockpiles;</li> <li>Control of vehicle speeds, speed restrictions and vehicle access; and</li> <li>Sweeping of hard surface roads.</li> <li>Exhaust emissions from vehicles operating within the working areas, including trucks, excavators, diesel generators or other plant equipment, will be controlled by the contractor through regular servicing of machinery;</li> </ul> | Dust deposition monitoring will be conducted at locations near the proposed development. At a minimum, monitoring will be carried out at the nearest sensitive receptors to the proposed converter station site and landfall site, as the works at these areas will be of a larger | None                             |  |  |



| Receptor | Potential Effects | Mitigation   | Monitoring   | Residual Effects |
|----------|-------------------|--|--|------------------|
|          |                   | <ul> <li>During dry periods when dust generation is<br/>likely or during windy periods, working areas<br/>and vehicles delivering material with dust<br/>forming potential will also be sprayed with<br/>water, as appropriate;</li> </ul> | scale than those<br>along the onshore<br>pipeline route. |                  |
|          |                   | <ul> <li>Areas where materials will be handled and<br/>stockpiled will be designed to minimise their<br/>exposure to wind - all stockpiles shall be kept<br/>to the minimum practicable height with<br/>gentle slopes;</li> </ul>          | >  |                  |
|          |                   | There shall be no long-term stockpiling<br>within the working areas and storage time<br>will be minimised;   |  |                  |
|          |                   | <ul> <li>Material drop heights from plant to plant or<br/>from plant to stockpile will be minimised;</li> </ul>  |  |                  |
|          | <                 | Dust screens will be implemented at locations where there is the potential for air quality effects during the construction phase; and  |  |                  |
|          |                   | Truck loads will be covered when carrying material likely to generate dust.  |  |                  |
|          |                   | <ul> <li>Materials will be handled efficiently on site<br/>to minimise the waiting time for loading and<br/>unloading, thereby reducing potential<br/>emissions;</li> </ul>  |  |                  |
|          |                   | Engines will be turned off when machinery is not in use; and   |  |                  |



| Potential Effects   | Mitigation  | Monitoring   | Residual Effects  |
|---|---|--|---|
|   | The regular maintenance of plant and equipment will be carried out.   |  |   |
|   | Implementation of the Construction Traffic     Management Plan  |  |   |
| Elevated air<br>emissions during<br>construction phase  | See above   | See above  | None  |
| Significant long-term beneficial indirect effect due to reduction in emissions from fossil fuel generation                  | None  | None   | Significant long-term<br>beneficial indirect<br>effect due to<br>reduction in emissions<br>from fossil fuel<br>generation   |
| Significant long-term beneficial effect on climate due to reduction in greenhouse gas emissions from fossil fuel generation | None  | None   | Significant long-term beneficial effect on climate due to reduction in greenhouse gas emissions from fossil fuel generation   |
|   | Elevated air emissions during construction phase  Significant long-term beneficial indirect effect due to reduction in emissions from fossil fuel generation  Significant long-term beneficial effect on climate due to reduction in greenhouse gas emissions from fossil | The regular maintenance of plant and equipment will be carried out.      Implementation of the Construction Traffic Management Plan  Elevated air emissions during construction phase  Significant long-term beneficial indirect effect due to reduction in emissions from fossil fuel generation  Significant long-term beneficial effect on climate due to reduction in greenhouse gas emissions from fossil | The regular maintenance of plant and equipment will be carried out.     Implementation of the Construction Traffic Management Plan  Elevated air emissions during construction phase  Significant long-term beneficial indirect effect due to reduction in emissions from fossil fuel generation  Significant long-term beneficial effect on climate due to reduction in greenhouse gas emissions from fossil |



| Receptor                          | Potential Effects  | Mitigation   | Monitoring  | Residual Effects  |
|-----------------------------------|--|--|---|---|
| All Noise and Vibration Receptors | Noise and vibration from construction processes associated with the cable construction | Specific noise abatement measures will be taken to comply with the recommendations of BS 5228-1 and 2:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites: Noise and vibration (BSI, 2014) and the European Communities (Noise Emission by Equipment for Use Outdoors) Regulations, 2001 (EC, 2001).  The following specific measures will be implemented during the construction phase to ensure noise and vibration effects are minimised:  Site representatives shall be appointed to be responsible for matters relating to noise and vibration;  Equipment will be switched off when not required;  Internal haul routes will be well maintained;  Rubber linings shall be used in chutes and dumpers etc. to reduce impact noise;  Drop heights of materials will be minimised;  Plant and vehicles will be started sequentially rather than all together;  Construction plant and activities to be employed on site will be reviewed to ensure | Noise and vibration monitoring will be carried out at sensitive receptors nearby the working areas during the construction phase to demonstrate the effectiveness of the mitigation measures and compliance with the limit values. If exceedances are recorded, alternative construction methodologies will be proposed to ensure limits are complied with. | Temporary significant noise effects for receptors adjacent to the cable route |



| Receptor Potential Effects | Mitigation  | Monitoring  | Residual Effects |
|----------------------------|---|---|------------------|
| Receptor Potential Effects | that they are the quietest available for required purpose;  Generators will be located away from sensitive receivers and will be enclosed.  Where required, improved sound reduce methods e.g. enclosures shall be used;  Site equipment will be located away from sensitive areas, as much as is feather than the provided around the personnel will be carried out to reduce noise and/or vibration from plate machinery;  Acoustic barriers will be provided around construction works to minimise the efformoise and vibration generating activities the vicinity of sensitive locations;  Typically, site activities will be limited 7am - 7pm, Monday to Friday; and 7am 2pm, Saturday. It may also be necessare exceptional circumstances to undertake other types of activities outside of normal construction core working hours. Any survoying hours outside the normal construction core working hours will be agreed with Wexford County Council. The planning of such works will have regard nearby sensitive receptors; and | the  d; tion  om sible;  ont and  nd ects of es in  I to n- ry in e some mal uch ecth | Residual Effects |



| Receptor                          | Potential Effects   | Mitigation  | Monitoring  | Residual Effects       |
|-----------------------------------|---|---|---|------------------------|
|                                   |   | A Community Liaison Plan shall be prepared to<br>provide for effective community liaison to help<br>ensure the smooth running of construction<br>activities and to address any issues that may arise.   |   |                        |
| All Noise and Vibration Receptors | Noise and vibration from construction processes associated with the construction of the converter station and the tail station, and temporary contractors' compounds. | Greenlink Interconnector Ltd will ensure that the following specific noise abatement measures are taken to comply with the recommendations of BS 5228-1 and 2:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites: Noise and vibration (BSI, 2014) and the European Communities (Noise Emission by Equipment for Use Outdoors) Regulations, 2001 (EC, 2001).  The following specific measures will be implemented during the construction phase to ensure noise and vibration effects are minimised:  Site representatives shall be appointed to be responsible for matters relating to noise and vibration;  Unnecessary revving of engines will be avoided and equipment will be switched off when not required;  Internal haul routes will be well maintained;  Rubber linings shall be used in chutes and dumpers etc. to reduce impact noise;  Drop heights of materials will be minimised; | Noise and vibration monitoring will be carried out at sensitive receptors nearby the working areas during the construction phase to monitor the effectiveness of the mitigation measures and compliance with the limit values. If exceedances are recorded, alternative construction methodologies will be proposed to ensure limits are complied with. | No significant effects |



| Receptor | Potential Effects | Mitigation   | Monitoring | Residual Effects |
|----------|-------------------|--|------------|------------------|
| Receptor | Potential Effects | <ul> <li>Plant and vehicles will be started sequentially rather than all together;</li> <li>Construction plant and activities to be employed on site will be reviewed to ensure that they are the quietest available for the required purpose;</li> <li>Generators will be located away from sensitive receivers and will be enclosed;</li> <li>Where required, improved sound reduction methods e.g. enclosures shall be used;</li> <li>Site equipment will be located away from noise sensitive areas, as much as is feasible;</li> </ul>  | Monitoring | Residual Effects |
|          |                   | <ul> <li>Regular and effective maintenance by trained personnel will be carried out to reduce noise and/or vibration from plant and machinery;</li> <li>Acoustic barriers will be provided around construction works to minimise the effects of noise and vibration generating activities in the vicinity of sensitive locations;</li> <li>Typically, site activities will be limited to 7am - 7pm, Monday to Friday; and 7am - 2pm, Saturday. It may also be necessary in exceptional circumstances to undertake some other types of activities outside of normal construction core working hours. Any such working hours outside the normal</li> </ul> |            |                  |



| Receptor | Potential Effects | Mitigation   | Monitoring | Residual Effects |
|----------|-------------------|--|------------|------------------|
|          |                   | construction core working hours will be agreed with Wexford County Council. The planning of such works will have regard to nearby sensitive receptors;   |            |                  |
|          |                   | A Community Liaison Plan will be prepared to<br>provide for effective community liaison to<br>help ensure the smooth running of<br>construction activities and to address any<br>issues that may arise.  | <b>^</b>   |                  |
|          |                   | <ul> <li>Construction work within 400 metres of the Gas Networks Ireland transmission pipeline will be carried out in accordance with the Code of Practice for Working in the Vicinity of the Gas Transmission Network (included as Appendix 4.2 to this EIAR). This may include the assessment of potential peak particle velocity effects associated with rock removal activities.</li> <li>For the locations where significant temporary noise effects are predicted during cable route excavation, Greenlink Interconnector Ltd and the appointed contractor will develop and implement specific measures to mitigate impacts, potentially including temporary acoustic screening and</li> </ul> |            |                  |



| Receptor   | Potential Effects                         | Mitigation  | Monitoring    | Residual Effects   |
|--|---|---|---------------|--|
|  |   | The use of vibratory roller compactors will be in 'static' mode only, for compaction activities within 50m of properties.   |               |  |
|  |   | • To minimise the impulsive noise and vibration associated with the driving of pre-cast piles, the following measures will be taken as required, to meet the established noise and vibration thresholds: acoustic screen for hammer head and top of pile and the use of a resilient pad (dolly) between the pile and the hammer head. | >             |  |
| All Noise and Vibration<br>Receptors                       | Operation of the<br>Proposed Development  | The key operational mitigations are the enclosure of key noise-emitting equipment. This includes acoustic enclosures for transformers, and the placing of particular items of plant at the converter station within buildings, thereby already limiting noise breakout to the atmosphere.   | None          | Within EPA limits, with a slight to moderate negative effect at the closest receptor only. |
| Biodiversity   |   |   |               |  |
| Converter Station and Tail Station Site and Adjacent Lands |   |   |               |  |
| Buildings and artificial surfaces (BL3)                    | Neutral, imperceptible, temporary impact. | None proposed   | None proposed | No significant effects   |



| Receptor   | Potential Effects                            | Mitigation  | Monitoring  | Residual Effects       |
|--|--|---|---|------------------------|
| Recolonising bare ground<br>ED3/ Buildings and<br>artificial surfaces<br>(BL3)/Scrub WS1 | Negative, slight, long-<br>term impact.      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Improved agricultural grassland (GA1)  | Negative, slight, long-<br>term impact.      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Immature woodland<br>(WS2)   | Neutral, imperceptible, long-term impact.    | None proposed                                       | None proposed   | No significant effects |
| Scrub (WS1)  | Negative, slight, long-<br>term impact.      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Treelines (WL2) /(Mixed)<br>Broadleaved Woodland<br>(WD1)/ Scrub                         | Neutral, not significant, temporary impact.  | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Hedgerow (WL1)/Scrub<br>(WS1)/ Dry meadow and<br>grassy verge (GS2)                      | Negative, not significant, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Tidal River CW2  | Negative, slight, long-<br>term impact.      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |



| Receptor   | Potential Effects  | Mitigation  | Monitoring  | Residual Effects       |  |  |
|--|--|---|---|------------------------|--|--|
| Off-road area between Gre  | Off-road area between Great Island and the Campile River Estuary |   |   |                        |  |  |
| Improved agricultural grassland (GA1)  | Negative, slight, temporary impact.                              | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |  |
| Arable crop (BC1)  | Negative, slight, temporary impact.                              | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |  |
| Hedgerow (WL1)   | Neutral, not significant, temporary impact.                      | None proposed                                       | None proposed   | No significant effects |  |  |
| Dry meadow and grassy<br>verge (GS2) (of<br>insufficient size to be<br>mapped) | Neutral, not significant, temporary impact.                      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |  |
| Buildings and artificial surfaces (BL3)  | Neutral, imperceptible, temporary impact.                        | None proposed                                       | None proposed   | No significant effects |  |  |
| (Mixed) broadleaved<br>woodland (WD1)/<br>Treeline (WL2)                       | Neutral, imperceptible, temporary impact.                        | None proposed                                       | None proposed   | No significant effects |  |  |



| Receptor   | Potential Effects                         | Mitigation  | Monitoring  | Residual Effects       |
|--|---|---|---|------------------------|
| Stone walls and other<br>stonework (BL1)/ Spoil<br>and bare ground (ED2) | Neutral, imperceptible, temporary impact. | None proposed                                       | None proposed   | No significant effects |
| Drainage ditch (FW4)   | Neutral, imperceptible, temporary impact. | None proposed                                       | None proposed   | No significant effects |
| Tidal river (CW2)  | Neutral, imperceptible, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Minor off-road areas adjace  | ent to roads                              |   |   |                        |
| Arable crop (BC1)  | Negative, slight,<br>temporary impact.    | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Improved agricultural grassland (GA1)                                    | Negative, slight, temporary impact.       | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Campile River Estuary Crossing   |   |   |   |                        |
| Tidal rivers (CW2)   | Neutral, imperceptible, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |



| Receptor   | Potential Effects                           | Mitigation  | Monitoring  | Residual Effects       |
|--|---|---|---|------------------------|
| Upper salt marsh (CM2)   | Neutral, imperceptible, temporary impact.   | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Mixed broadleaved/<br>conifer woodland (WD2)   | Neutral, imperceptible, temporary impact.   | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Mixed broadleaved<br>woodland<br>(WD1)/Treelines<br>(WL2)/Hedgerows<br>(WL1)/Scrub (WS1) | Neutral, imperceptible,<br>temporary impact | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Improved agricultural<br>grassland (GA1)   | Negative, slight,<br>temporary impact.      | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Recolonising Bare Ground<br>(ED3)/Scrub (WS1)  | Neutral, imperceptible, temporary impact.   | None proposed                                       | None proposed   | No significant effects |
| Embankment (BL2)   | Neutral, imperceptible, temporary impact.   | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |

Baginbun Beach Landfall Site and Road-side Car Parking Area



| Receptor  | Potential Effects                         | Mitigation  | Monitoring  | Residual Effects       |
|---|---|---|---|------------------------|
| Rocky sea cliffs (CS1) /<br>Sedimentary sea cliffs<br>(CS3)                 | Neutral, imperceptible, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Buildings and artificial<br>surfaces (BL3) / Spoil and<br>bare ground (ED2) | Neutral, imperceptible, temporary impact. | None proposed                                       | None proposed   | No significant effects |
| Sand shores (LS2)   | Neutral, imperceptible, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Improved agricultural grassland (GA1)                                       | Neutral, imperceptible, temporary impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Arable crop (BC1)   | Negative, slight,<br>temporary impact.    | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Scrub WS1   | Negative, slight, permanent impact.       | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |
| Otter   |   |   | 1   |                        |



| Receptor  | Potential Effects                                 | Mitigation  | Monitoring  | Residual Effects       |  |
|---|---|---|---|------------------------|--|
| Habitat   | Negative, slight, short-<br>term impact.          | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |
| Bats  |   |   |   |                        |  |
| Roosting sites, foraging sites, hibernation sites | Negative, slight to negligible, long-term impact. | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and detailed breakdown in Section 9.5       | No significant effects |  |
| Badger  |   |   |   |                        |  |
| Habitat and setts                                 | Negative, slight, long-<br>term impact.           | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |
| Other Mammals                                     |   |   |   |                        |  |
| Habitats, noise and disturbance                   | Negative, slight, long-<br>term impact            | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |
| Birds   | Birds   |   |   |                        |  |
| Habitat   | Negative, slight, permanent impact.               | Refer to CEMP and detailed breakdown in Section 9.5 | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects |  |



| Receptor  | Potential Effects                                 | Mitigation   | Monitoring  | Residual Effects                                  |
|---|---|--|---|---|
| Shoreline / Estuarine<br>Habitats   | Negative, slight, short-<br>term impact.          | Refer to CEMP and detailed breakdown in Section 9.5  | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects                            |
| Other Fauna   |   |  |   |   |
| Amphibians, reptiles, invertebrates   | Negative, slight,<br>temporary impact.            | Refer to CEMP and detailed breakdown in Section 9.5  | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects                            |
| Water Quality and Aquatic   | Ecology   |  |   |   |
| Marine and aquatic habitats   | Negative, not significant, short-term impact.     | Refer to CEMP and detailed breakdown in Section 9.5  | Refer to CEMP and<br>detailed breakdown in<br>Section 9.5 | No significant effects                            |
| Archaeology, Architectural  | and Cultural Heritage                             |  |   |   |
| Visual Receptors in the vicinity of the landfall site and compounds         | Locally moderate<br>temporary negative<br>effects | 2.4m hoarding will be provided around the construction compounds, which will provide a visual screen.  | None  | Locally moderate<br>temporary negative<br>effects |
| Known archaeological sites and greenfield sites of archaeological potential | Significant                                       | The proposed development site has a density of recorded archaeological sites. No other archaeological sites were detected during the field assessment. It is possible however that previously unrecorded subsurface archaeological | See mitigation column                                     | No significant effects                            |



| Receptor | Potential Effects | Mitigation  | Monitoring | Residual Effects |
|----------|-------------------|---|------------|------------------|
|          |                   | features are present within the development area. The burial exposed at Churchtown is an example of accidental discovery during ground disturbance. All ground disturbance within the four complexes of archaeological monuments, all greenfield areas, including off-road locations of works and any ground disturbance associated with the excavation of launch and receptor pits, the development of a converter station and tail station at Greatisland and the temporary construction compound at Lewistown will be monitored by a suitably qualified archaeologist. Topsoil strip will be re-inspected after some days to locate any Stone Age (Mesolithic and Neolithic) lithic material that may not be apparent in freshly-turned soil. The archaeologist will secure an excavation licence for monitoring in the event of an archaeological discovery. The licence is issued by The Heritage Service, Department of Culture, Heritage and The Gaeltacht and approved by the National Museum of Ireland. The monitoring archaeologist will be empowered to halt the development if buried archaeological features or finds |            |                  |



| Receptor | Potential Effects | Mitigation   | Monitoring | Residual Effects |
|----------|-------------------|--|------------|------------------|
|          |                   | are uncovered, these sites become an archaeological site and are protected by the National Monuments legislation. Further work on the site will require consultation with the archaeological staff of The Heritage Service, Department of Culture, Heritage and The Gaeltacht. Any newly discovered site will be archaeologically resolved. At the site of the proposed converter station and tail station, where a number of archaeological sites are extant in the wider area, and where previous works during gas pipeline construction uncovered previously unknown archaeological sites, a geophysical survey will be undertaken. If potential archaeological material is detected, this will be archaeologically resolved prior to construction.  Provisions, including financial and time will be made at the outset of the proposed development to facilitate any excavation or recording of archaeological material that may be uncovered during the developmental works. All test pits for engineering purposes will also be archaeologically monitored to |            |                  |



| Receptor                              | Potential Effects  | Mitigation   | Monitoring  | Residual Effects   |
|---------------------------------------|--|--|---|--|
|                                       |  | prevent accidental damage to buried archaeological features and to record any accidental discovery of features and/or finds. Previous archaeological monitoring of test pits is discussed further in <b>Appendix 10.3</b> .  As the proposed route for much of the cable trench is along the existing road network it is not expected that any townland boundaries will be breached. If townland boundaries are impacted in greenfield areas, these will be archaeologically recorded. | >   |  |
| Architectural Heritage                | None   | None   | None  | No significant effects   |
| Underwater Archaeology                | None   | None   | None  | No significant effects   |
| Landscape and Visual                  |  |  |   |  |
| Vicinity of Converter<br>Station Site | Construction: locally moderate negative temporary effects on the landscape character  Operation: locally slight to moderate negative long-term visual effects, with slight negative/ neutral and long-term | Embedded mitigation measures which have been incorporated into the design process include:  Selection of materials and colours  Provision of landscape mitigation as follows:  Integration of the development into the surrounding landscape, in particular to the buildings, roads, fences and services,  | Implementation of<br>Construction<br>Environmental<br>Management Plan | In general, on maturity of the landscape mitigation, there will be no significant visual impacts, and no significant impacts on landscape character during the operation of the proposed development. There will |





| Receptor | Potential Effects  | Mitigation  | Monitoring | Residual Effects   |
|----------|--|---|------------|--|
|          | landscape character effects  Visual impacts from light will be slight negative for views and areas to the north and north-east | <ul> <li>minimising where possible landscape and visual impact.</li> <li>The proposed buildings will have a restricted range of materials and colours in order to create a degree of visual consistency. The colour scheme will be based upon the visibility of the structure when viewed against a mixed and coniferous woodland backdrop, using natural, colours in a matt finish. Elements viewed predominantly against rural backdrop will be dark grey (Anthracite Grey RAL 7016 and Merlin Grey RAL 180 50 05). Upper portions of the southern elevations which may be seen against the sky from views from the south will be in a lighter grey colour (Goosewing Grey RAL 080 70 05). Perimeter security fencing to be black (RAL 9005).</li> <li>Placement of external electrical equipment (transformers, compound etc.) behind buildings and topography where possible.</li> <li>Use of native, mixed woodland shelterbelt planting to define the boundaries, and the entrance road.</li> <li>Retention and incorporation of existing landscape features i.e. the trees and hedgerows on the boundaries and in the lands</li> </ul> |            | be moderate visual impact on views from the north, with slight impacts on views to the east and south. There will be an intensification of use of the site and there will be no significant cumulative impacts |



| Receptor | Potential Effects | Mitigation   | Monitoring | Residual Effects |
|----------|-------------------|--|------------|------------------|
|          |                   | between the existing power station and the proposed site.  |            |                  |
|          |                   | Along the route of the underground cable, existing hedgerows and vegetation will be maintained and protected where possible during construction. However, there will be a requirement for sections of existing vegetation to be removed to facilitate the cable laying, which will be replanted with native hawthorn hedgerow planting upon completion of the works. At the Campile River estuary crossing, the existing riparian/riverside trees will be protected during construction. | >          |                  |
|          |                   | Landscape planting is proposed to further ameliorate visual impact and enhance the overall development. Its principal objectives are to:   |            |                  |
|          |                   | <ul> <li>Screen and/or 'filter' views from nearby<br/>residential properties and roads.</li> </ul>   |            |                  |
|          |                   | <ul> <li>Assist a visual integration of the development<br/>into the surrounding landscape by screening<br/>the lower elements of the development such<br/>as roads, administration buildings, and<br/>ancillary features of the converter station.</li> </ul>   |            |                  |
|          |                   | <ul> <li>To provide an internal site landscape<br/>structure, enhance internal road corridors<br/>and further reduce the impact of the built<br/>environment from outside the site.</li> </ul>   |            |                  |
|          |                   | <ul> <li>Car parking throughout the scheme will be<br/>screened by tree, hedge, and shrub planting,</li> </ul>   |            |                  |



| Receptor                  | Potential Effects  | Mitigation   | Monitoring  | Residual Effects   |
|---------------------------|--|--|---|--|
|                           |  | while still allowing passive supervision of these areas.   |   |  |
|                           |  | The planting scheme will be implemented with the appropriate tree and shrub species that will suit the site's location and character with an emphasis on indigenous species to the woodland shelter belts.   |   |  |
|                           |  | All landscape areas shall be formed using adequate depths of subsoil and good quality topsoil. Subbases/subsoil shall be adequately decompacted prior to topsoiling. Where areas are not free draining, land drains connected to appropriate drainage shall be used to alleviate possible ponding or waterlogging. | >   |  |
| Vicinity of Landfall Site | Construction: locally moderate negative temporary effects on the landscape character  Construction: locally significant negative cumulative temporary effects on residents and beach visitors  Operation: no effects | Construction activities will avoid the peak tourism season of July and August. There will be full re-instatement of the area post construction, with the removal of compound, topsoiling and landscaping. A new public car parking area will also be provided.   | Implementation of<br>Construction<br>Environmental<br>Management Plan | Construction: locally moderate negative temporary effects on the landscape character  Construction: locally significant negative cumulative temporary effects on residents and beach visitors  Operation: no effects |
| Cabling Route             | Construction: locally significant negative temporary effects on  | Undergrounding the entire length of the cables.  |   | Construction: locally significant negative temporary effects on  |



| Receptor                                    | Potential Effects  | Mitigation   | Monitoring          | Residual Effects   |
|---|--|--|---------------------|--|
|   | landscape character for nearby residents Operation: no effects                                       | Construction compounds at HDD landfall close to Baginbun Beach, Lewistown and the Campile estuary crossing.  |                     | landscape character for nearby residents Operation: no effects |
| Land and Soils                              |  |  |                     |  |
| Compression of Substrata                    | Removal of soils and replacement with structures will not impact on the characteristics of the soils | Implementation of CEMP   | Movement Monitoring | Imperceptible  |
| Loss of agricultural land overburden        | Irreversible loss of a small proportion of local high fertility soils                                | Area in which soils will be removed permanently has been minimised in the design. Soils will be replaced in the cable trench and at the construction compounds on completion of construction |                     | Imperceptible  |
| Loss of solid geology                       | Loss of a small proportion of any possible aggregate reserves  | Volume of bedrock removed permanently has been minimised in the design   |                     | Slight   |
| Effects of excavation on surrounding ground | Adequate design of temporary works limits movements to an acceptable limit                           | Excavation support Ground settlement control Implementation of CEMP  | Movement Monitoring | Imperceptible  |



| Receptor                         | Potential Effects  | Mitigation   | Monitoring   | Residual Effects       |
|----------------------------------|--|--|--|------------------------|
| Excavation of soft mineral soils | Requirements to excavate small proportion of soft mineral soils beneath the route    | Implementation of CEMP   |  | Imperceptible          |
| Mobilisation of sediments        | Based on ground conditions, there should be limited mobilisation of those sediments. | Implementation of CEMP   | >  | Imperceptible          |
| Water & Hydrology                |  |  |  |                        |
| Existing watercourses and land   | Pollution associated with silt-laden or cementitious construction run-off            | Preparation and implementation of the CEMP (refer to <b>Appendix 4.1</b> ) | Controls and<br>management established<br>in the CEMP to be<br>implemented | No significant effects |
| Existing watercourses and land   | Pollution associated with washing of vehicles and equipment during construction      | Preparation and implementation of the CEMP (refer to <b>Appendix 4.1</b> ) | Controls and management established in the CEMP to be implemented          | No significant effects |
| Existing watercourses and land   | Pollution associated with spills of fuel or oils during construction                 | Preparation and implementation of the CEMP (refer to <b>Appendix 4.1</b> ) | Controls and<br>management established<br>in the CEMP to be<br>implemented | No significant effects |



| Receptor                       | Potential Effects  | Mitigation   | Monitoring   | Residual Effects             |
|--------------------------------|--|--|--|------------------------------|
| Existing watercourses and land | Accidental spillage of hydrocarbons during operation   | Installation of hydrocarbon interceptors in the surface water drainage network at the converter station site | Hydrocarbon interceptors<br>to be checked and<br>maintained on an ongoing<br>basis   | No significant effects       |
| Existing watercourses and land | Contamination due to coliforms during operation  | Installation and maintenance of a proprietary wastewater treatment unit                                      | Wastewater treatment unit to be checked and maintained on an ongoing basis   | No significant effects       |
| Resource and Waste Manag       | ement  |  |  |                              |
| Construction                   | Waste: Generation of waste during site clearance, excavation and general construction works. Considering the predicted quantities of these waste streams are small in the wider context of the national generation of waste materials, with an imperceptible adverse effect on waste recycling / processing and disposal facilities. | Implementation of a Construction Waste Management Plan.  | Ongoing monitoring as part of the Construction Environmental Management Plan to ensure all opportunities for reduction, reuse and recycling are taken. | Imperceptible adverse effect |



| Receptor  | Potential Effects   | Mitigation   | Monitoring  | Residual Effects              |
|-----------|---|--|---|-------------------------------|
|           | Resource Use required during construction include the use of weak mix concrete, bentonite, crushed stone. In addition, power and water usage will be required. The predicted quantities of resources that will be consumed are typical for a construction project of this scale, with a slight adverse effect on resources predicted to arise from the use of key construction materials. |  |   | Slight adverse and long-term. |
| Operation | Waste: Considering the limited occupancy of the converter station site relatively very small quantities of household-type and office-type municipal waste will be generated. Maintenance works associated with the proposed development will generate municipal   | Considering the imperceptible effect, no mitigation measures are required. | Apart from good housekeeping practices no additional monitoring is considered necessary | Imperceptible and permanent   |



| Receptor        | Potential Effects  | Mitigation  | Monitoring | Residual Effects                |
|-----------------|--|---|------------|---------------------------------|
|                 | waste. The potential effects are predicted to be imperceptible.  |   |            |                                 |
|                 | Resource Usage: The operation of the converter station and tail station will have ongoing electrical power requirements. This demand will have a slight adverse long-term effect. However indirectly the proposed development will support renewable generation by reducing curtailment, reduce fuel consumption in fossil fuel power plant and the generation of waste. |   |            | Slight adverse long-term effect |
| Decommissioning | Waste: It is expected that, by the time the proposed development will need to be decommissioned, circular economy principles will be in full operation and nearly all  | Implementation of a decommissioning materials management plan which will cover the same topics as the CWMS, updated to reflect best practice at the time. |            | Not Significant                 |



| Receptor                       | Potential Effects   | Mitigation   | Monitoring  | Residual Effects   |
|--------------------------------|---|--|---|--|
|                                | of the material arising from the decommissioning works will be reusable. Consequently, it is expected that the effects on resources or waste management from the decommissioning phase are not significant. |  |   |  |
|                                | Resource Usage: Electrical power, water and fuel will be used during the decommissioning phase. The quantities will be relatively insignificant.  |  |   | Not Significant  |
| Population and Human Hea       | ilth  |  |   |  |
| Construction Phase             |   |  |   |  |
| Local and transient population | Possible effects on<br>the general amenity<br>of the surrounding<br>area (air and noise<br>emissions, effects on  | <ul> <li>Mitigation measures relating to traffic and<br/>transportation, air quality, noise and visual<br/>amenity are discussed in Chapters 6, 7, 8<br/>and 11 respectively.</li> </ul> | Monitoring measures in relation to air quality and noise are discussed in Chapters 7 and 8 respectively | Short-term, significant negative, for duration of HVDC cable installation. |



| Receptor | Potential Effects  | Mitigation  | Monitoring | Residual Effects |
|----------|--|---|------------|------------------|
|          | the visual amenity) in particular in close proximity to Baginbun Beach.  Possible effects on road network  Possible disruption to accessibility to local businesses and community facilities | <ul> <li>Access to local residences, shops and community facilities along the onshore cable route will be maintained during the construction phase.</li> <li>Additional mitigation measures include -</li> <li>The erection of directional and information signage where paths are temporarily closed;</li> <li>The provision of information to local householders during the construction phase;</li> <li>The provision of community liaison and nomination of personnel to manage community relations;</li> <li>The implementation of a Construction Environmental Management Plan (CEMP) to minimise effects of construction works on local amenity and on traffic flow (refer to Chapter 4 Construction Strategy and Appendix 4.1 for further details);</li> <li>The preparation of an emergency response plan to cover foreseeable risks; and</li> <li>Construction works in the landfall site (close to Baginbun Beach) will be completed outside of July and August to avoid impacts in this peak season in the area.</li> </ul> |            |                  |



| Receptor                     | Potential Effects  | Mitigation  | Monitoring               | Residual Effects  |
|------------------------------|--|---|--------------------------|---|
|                              |  | No on road works will be carried out during<br>July or August to avoid disturbance during<br>peak season at Dunbrody.   |                          |   |
| Tourism                      | There is potential for a disturbance to tourists in the form of traffic, noise and air emissions and possible visual effects due to the close proximity of the works to Baginbun Beach and the wider area including Ramsgrange (e.g. cycle routes may receive additional traffic due to diversions). | <ul> <li>Construction works in the landfall site (close to Baginbun Beach) will be completed outside of July and August to avoid impacts in this peak season in the area.</li> <li>The implementation of a Construction Environmental Management Plan (CEMP) to minimise effects of construction works on local amenity and on traffic flow (refer to Chapter 4 Construction Strategy and Appendix 4.1 for further details).</li> </ul> |                          | Short-term, significant negative on tourism, for duration of HVDC cable installation. |
| Human Health                 | Possible effects on human health as a result of the construction works   | Implementation of the CEMP in<br>relation to control of dust, noise, and<br>emissions to air from construction<br>vehicles  | As specified in the CEMP | None  |
| Businesses and<br>Employment | There is like to be a positive effect on businesses as a result of the proposed development as there is likely to be an increase   | None  | None                     | None  |



| Receptor                          | Potential Effects   | Mitigation   | Monitoring | Residual Effects   |
|-----------------------------------|---|--|------------|--|
|                                   | in demand for their goods and services. The construction phase will also generate demand for some locally sourced inputs such as materials or machinery.  The proposed development will provide employment during the construction                              |  |            |  |
| Operational Phase                 |   |  |            |  |
| Local and Transient<br>Population | <ul> <li>Possible effects on the general amenity of the surrounding area (noise emissions, effects on the visual amenity) in particular in close proximity to the converter station site.</li> <li>The proposed development will provide an improved</li> </ul> | All plant at the converter station and tail station, which have the potential to generate noise, will be housed within buildings, thereby limiting noise breakout to the atmosphere.  The converter station and tail station will be located adjacent to the current power station and sub-station at Great Island and mounding of earthworks will be created around the converter station and will be landscaped appropriately. It will be visually in keeping with the immediate surroundings. | None       | The provision of long-term energy security for the people of Ireland.  Additional parking spaces on the access road to Baginbun Beach and extended footpath and additional street lighting at Ramsgrange village will be a permanent moderate beneficial effect. |



| Receptor  | Potential Effects  | Mitigation | Monitoring | Residual Effects   |
|---|--|------------|------------|--|
|   | energy security to the people of Ireland  • Additional parking spaces on access road to Baginbun Beach will be a positive effect  Extended footpath and additional street lighting at Ramsgrange village   |            |            |  |
| Business, Tourism,<br>Employment and<br>Consumers | Contribution to security and continuity of electricity supply;  Increased efficiency of the interconnected systems - commercial electricity exchanges established result in more efficient technologies and allow energy to be transported from cheaper to more expensive locations; | None       | None       | <ul> <li>Contribution to security and continuity of electricity supply;</li> <li>Increased efficiency of the interconnected systems - commercial electricity exchanges established result in more efficient technologies and allow energy to be transported from cheaper to more expensive locations;</li> </ul> |



| Receptor | Potential Effects   | Mitigation | Monitoring | Residual Effects  |
|----------|---|------------|------------|---|
|          | Increased     competition between     neighbouring  |            |            | <ul> <li>Increased competition<br/>between neighbouring<br/>systems;</li> </ul>   |
|          | <ul><li>systems;</li><li>Greater integration of renewable</li></ul>   |            |            | Greater integration of renewable energies; and  |
|          | energies; and  • By reducing curtailment of wind and solar energy, and facilitating export of surplus power, Greenlink will improve efficiency of power networks, with associated improvements in |            |            | By reducing curtailment of wind and solar energy, and facilitating export of surplus power, Greenlink will improve efficiency of power networks, with associated improvements in wholesale power prices for renewable generation. |
|          | wholesale power prices for renewable generation.  • Greenlink is anticipated to provide permanent employment for approximately 20 people during the   |            |            | Greenlink is anticipated to provided permanent employment for approximately 20 people during the operational phase for the overall project, of which approximately five people will have  |
|          | operational phase for<br>the overall project,   |            |            | particular<br>responsibility for the  |



| Receptor                        | Potential Effects   | Mitigation   | Monitoring                                  | Residual Effects  |
|---------------------------------|---|--|---|---|
|                                 | five people will have particular responsibility for the proposed development.  • Additional parking spaces on access road to Baginbun Beach will be a positive effect |  | >   | proposed development.  • Additional parking spaces on the access road to Baginbun Beach will be a permanent moderate beneficial impact. |
| Material Assets                 |   |  |   |   |
| Land use and existing utilities | Temporary occupation of farmland and temporary disturbance to services during construction  | Measures will be put in place to protect existing services | Ongoing consultation with service providers | Short term significant effects on land use  |
| National energy security        | Improved energy security and promotion of the use of sustainable energy   | None required  | None  | Long-term positive effects  |
| Land use                        | Restrictions on activities and development over the cable wayleave during operation   | None   | None  | Long-term slight negative effects   |



| Receptor                   | Potential Effects  | Mitigation   | Monitoring  | Residual Effects   |  |
|----------------------------|--|--|---|--|--|
| Electricity supply         | Slight Increase in<br>demand for electricity<br>from the operation of<br>the proposed<br>development   | None   | None  | Not significant  |  |
| Mains water supply         | Slight increase in water demand during operation   | None   | None  | Not significant  |  |
| Wastewater                 | Moderate volume to be discharged local sewage treatment plant during operation  Negligible volume to be discharge to local sewage treatment plant during operation | None   | None  | Moderate, during construction phase  Negligible during operation |  |
| Major Accidents and Disast | Major Accidents and Disasters  |  |   |  |  |
| Environment                | No major accident or disaster identified, no potential effects predicted   | No major accident or disaster identified, no mitigation required | No major accident or disaster identified, none required | None predicted   |  |
| Cumulative and Interactive | Effects  |  |   |  |  |



| Receptor                      | Potential Effects   | Mitigation   | Monitoring  | Residual Effects                         |  |  |
|-------------------------------|---|--|---|--|--|--|
| Interactive and Indirect E    | Interactive and Indirect Effects  |  |   |  |  |  |
| Traffic and Visual<br>Amenity | During construction of the landfall and cable route, there will be local, short term, significant effects on the visual amenity of residents and visitors along the cable route and at Baginbun Beach. Once construction is completed there will be no significant effects on landscape or visual amenity resulting from the traffic generation by the project. | Implementation of construction environmental controls, which are specified in the CEMP and the construction traffic management plan  | Monitoring will be in accordance with the CEMP and construction traffic management plan                             | Local, short term, significant, negative |  |  |
| Traffic and Population        | There will be a short-term significant impact on the residents and road users in the vicinity of the HVDC cable trench excavations and cable installation works for the duration of the works. Once the cable works have been completed, there will not be a  | Implementation of construction environmental controls, which are specified in the CEMP, and the construction traffic management plan | Monitoring will be in accordance with the CEMP and construction traffic management plan as committed-to in the CEMP | Local, short term, significant, negative |  |  |



| Receptor   | Potential Effects  | Mitigation   | Monitoring  | Residual Effects                         |
|--|--|--|---|--|
|  | significant impact on the road network or on traffic.  |  |   |  |
| Visual amenity and population                            | During construction of the landfall and cable route, there will be local, short term, significant effects on the visual amenity of residents and visitors along the cable route and at Baginbun Beach. Once construction is completed there will be no significant effects on landscape or visual amenity. | Implementation of construction environmental controls, which are specified in the CEMP, and the construction traffic management plan | Monitoring will be in accordance with the CEMP and construction traffic management plan as committed-to in the CEMP | Local, short term, significant, negative |
| Population, Natural<br>Resources and Waste<br>Management | The construction and decommissioning phases of the proposed development will create employment, which will give rise to greater use of natural resources and greater waste generation in the region. The direct employment arising from the operation of   | none   | none  | Local, short term, slight negative       |



| Receptor                                       | Potential Effects  | Mitigation | Monitoring | Residual Effects      |
|--|--|------------|------------|-----------------------|
|  | Greenlink will be negligible.  |            |            |                       |
| Material Assets and Air<br>Quality and Climate | The operation of Greenlink will support renewable generation by reducing curtailment at times of surplus generation. The indirect effect will be to reduce emission to air of nitrous oxides, sulphur dioxide, particulate and carbon dioxide from fossil fuel power plants. This will improve air quality and reduce a cause of climate change. | none       | none       | Positive, significant |
| Material Assets and<br>Natural Resources       | The operation of Greenlink will support renewable generation by reducing curtailment at times of surplus generation. The indirect effect will be to reduce fuel consumption in fossil fuel power plants, and the generation of   | none       | none       | Positive, significant |



| Receptor                       | Potential Effects  | Mitigation   | Monitoring   | Residual Effects                             |
|--------------------------------|--|--|--|--|
|                                | waste by solid fuel plants.  |  |  |  |
| Material Assets and Population | The proposed development will increase the security of electricity supply in Ireland. It should also provide more competition in the electricity market in Ireland. This will provide economic and social benefits to electricity consumers. | none   | none   | Positive, significant                        |
| Combined Effect of Individ     | ual Impacts on a Particular  | Receptor   |  |  |
| Visual Amenity                 | During the construction of the landfall and cable route, there will be a local, short term, significant effect on residents and users of the beach   | Implementation of construction environmental controls, which are specified in the CEMP, and the construction traffic management plan | Monitoring will be in accordance with the CEMP and construction traffic management planAs committed-to in the CEMP | Local, short term, significant, negative     |
| Material Assets,<br>Population | Provision of the 500MW interconnector will enhance security of   | No mitigation  | None   | Widespread, long term, significant, positive |



| Receptor                    | Potential Effects  | Mitigation  | Monitoring  | Residual Effects |
|-----------------------------|--|---|---|------------------|
|                             | energy supply and<br>competition in the Irish<br>energy market, and<br>support renewable<br>energy generation  |   |   |                  |
| Combination of Incrementa   | al Effects - Past, Present an  | d Future with Proposed Development  |   |                  |
| Population                  | Cumulative effects of construction activities with concurrent construction of the Great Island - Kilkenny 110kv Line Uprate project, and the Great Island Energy Storage System Project                                      | Implementation of construction environmental controls, the CEMP, and the construction traffic management plan | Monitoring will be in accordance with the CEMP and construction traffic management plan as committed-to in the CEMP | Not significant  |
| Greenlink Intra-Project Eff | ects   |   |   |                  |
| Amenity                     | Intra-project effects with the construction of the subsea cable.  There is potential that if works in the nearshore area occur at the same time as works at the onshore HDD compound there could be a temporary elevation in | Seasonal restrictions will be implemented to reduce the significance of the effect.                           | None  | Not significant  |



| Receptor | Potential Effects  | Mitigation | Monitoring | Residual Effects |
|----------|--|------------|------------|------------------|
|          | the visual disturbance to the recreational users of Baginbun Beach. At certain times of the year the public will be more sensitive due to increased use of the beach or specific events i.e. May 2020 (Anglo-Norman commemorations), July and August.  |            | >          |                  |
| Birds    | Intra-project effects with the construction of the subsea cable.  The Campile Estuary is spatially too far apart from activities within the Marine Ireland component for there to be intra-project effects on birds between these two project components. Potential effects are fully documented in Chapter 9 of the EIAR. | None       | None       | Not significant  |
|          | The area identified as having potential for  |            |            |                  |



| Receptor   | Potential Effects  | Mitigation | Monitoring  | Residual Effects                             |
|--|--|------------|-------------|--|
|  | intra-project effects is at the interface between onshore works at the landfall site close to Baginbun Beach and nearshore works in the Marine Ireland component.  However, due to a lack of temporal overlap  |            | <b>&gt;</b> |  |
|  | between the two project component activities which could affect birds, and due to the difference in bird species which have the potential to be affected by the different project components, it has been concluded there will be no significant intraproject effects. |            |             |  |
| Population and economic development, material assets | €400 million investment in Ireland, United Kingdom and location of materials and equipment manufacturers, suppliers and contractors.   | None       | None        | Widespread, long term, significant, positive |



| Receptor   | Potential Effects  | Mitigation | Monitoring | Residual Effects                             |
|--|--|------------|------------|--|
|  | 500MW additional interconnector capacity, which will provide increased security of supply, support for low carbon generation in Ireland and Great Britain, lower energy prices and increased market competition.   |            | >          |  |
| Transboundary Effects                                |  |            |            |  |
| Population and economic development, material assets | €400 million investment in Ireland, United Kingdom and location of materials and equipment manufacturers, suppliers and contractors.  500MW additional interconnector capacity, which will provide increased security of supply, support for low carbon generation in Ireland and Great Britain, lower energy prices and increased market competition. | None       | None       | Widespread, long term, significant, positive |



