

Environmental Impact Assessment Report

Proposed Clonberne Wind Farm Development, Co. Galway

Chapter 17 – Interaction of the Effects







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17.

INTERACTION OF EFFECTS

17.1 Introduction

The preceding Chapters 5 to 16 of this EIAR identify the potential significant environmental effects that may occur in terms of Population and Human Health, Biodiversity (Flora and Fauna) Ornithology (Birds), Land, Soils and Geology, Water (Hydrology and Hydrogeology), Air Quality, Climate, Noise and Vibration, Landscape and Visual, Cultural Heritage (Archaeological, Architectural and Cultural Heritage), Material Assets (Roads and Traffic, Telecommunications and Aviation), and Major Accidents and Natural Disasters as a result of the Proposed Project as described in Chapter 4 of this EIAR. All of the potential significant effects of the Proposed Project and the measures proposed to mitigate them have been outlined in the preceding chapters of this EIAR. Mitigation measures and best practice measures for the construction, operation and decommissioning of the Proposed Project are detailed in the accompanying Construction and Environmental Management Plan (CEMP) (Appendix 4-4 of this EIAR). However, for any development with the potential for significant environmental effects there is also the potential for interaction between these potential significant effects. The result of interactive effects may exacerbate the magnitude of the effects or ameliorate them or have a neutral effect.

A matrix is presented in Table 17-1 below to identify potential interactions between the various aspects of the environment already assessed in this EIAR. The matrix highlights the occurrence of potential positive or negative effects during both the construction (C) and operational (O) phases. It is considered that the potential effects during the decommissioning phase will be similar to the construction phase but of a lesser magnitude. The matrix is symmetric, with each environmental component addressed in the chapters of this EIAR being placed on both axes of a matrix, and therefore, each potential interaction is identified twice. In Section 17.2 below, the potential interactions between each environmental component have been discussed in order of the relevant chapters of the EIAR. Once a potential interaction between two environmental components has been discussed, for example, Population & Human Health and Water, the interaction will not be discussed again in the following relevant section, therefore there is no Water and Population & Human Health section.



Table 17-1 Interaction Matrix: Potential for Interacting Impacts

Table 17-1 Inte	raction Mai	trix: Potenti	al for Int	eracting .	Impacts								
	Phase	Population and Human Health	Biodiversity, Flora and Fauna	Ornithology	Land, Soils and Geology	Water	Air Quality	Climate	Noise and Vibration	Landscape and Visual	Cultural Heritage	Material Assets	Major Accidents and Natural Disasters
Population and	С												
Human Health	О												
Biodiversity, Flora	С												
and Fauna	О												
O salada a Prida	С												
Ornithology, Birds	О												
Land, Soils and	С												
Geology	О												
Water	С												
	О												
Air Quality	С												
	0												
Climate	C												
	C												
Noise and Vibration	0												
	C												
Landscape and Visual	О												
	С												
Cultural Heritage	O												
	C												
Material Assets	О												
	C												
Major Accidents and Natural Disasters	О												
Leg	gend:	No	Intera	cting E	ffect:			Pos	itive Eff	ect:			

Neutral Effect:

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Negative Effect:



The potential for interaction of impacts has been assessed, throughout this EIAR, as part of the Impact Assessment process. While the work on all parts of the Environmental Impact Assessment Report (EIAR) was not carried out by MKO, the entire project and all the work of all sub-consultants was managed and coordinated by the company. This EIAR was edited and collated by MKO as an integrated report of findings from the impact assessment process, by all relevant experts, and impacts that potentially interact have been assessed in detail in the individual chapters of the EIAR above and summarised in Section 17.2 below.

Where any potential negative impacts have been identified during the assessment process, these impacts have been avoided or reduced by design and the proposed mitigation measures, as presented throughout the EIAR and highlighted in Section 17.2 below.

17.1.1 Statement of Authority

This section of the EIAR has been prepared by Jonny Fearon and reviewed by Owen Cahill, both of MKO. The Statement of Authority for Jonny and Owen are detailed in Section 1.8 in Chapter 1 of this FIAR

17.2 Impact Interactions

17.2.1 **Population and Human Health**

Population and Human Health, Land, Soils and Geology

The use of plant machinery on site during excavation works and the movement of peat and spoil may result in the potential for soil and ground contamination. A wind farm and associated underground grid connection cabling is not a recognised source of pollution and so the potential for effects during the operational phase are imperceptible. With the implementation of mitigation and monitoring measures detailed in Chapter 8 and the Construction and Environmental Management Plan (CEMP) (Appendix 4-4), the potential for residual effects associated with soil or ground contamination during the construction and operational phases and subsequent health effects are imperceptible.

Population and Human Health, and Water

Potential health effects arise mainly through the potential for surface and groundwater contamination which may have negative effects on public and private water supplies. The Proposed Wind Farm site is drained by four 1st and 2nd order streams and lies within Clare[Galway]_SC_040 and the Sinking_SC_010 Water Framework Directive (WFD) sub-catchments. Junction accommodation works along the L6466 Local Road between the N83 National Road and the R328 Regional Road are located in the Clare[Galway]_SC_030 and Clare[Galway]_SC_040 WFD river sub-basins. The Proposed Grid Connection Route is predominantly located in the Clare[Galway]_SC_040 sub-catchment.

The Proposed Project design and mitigation measures detailed in Chapter 9 and the CEMP (Appendix 4-4 in the EIAR) ensures that the potential for effects on the water environment are not significant. A comprehensive Surface Water Management Plan (SWMP) (Appendix 4-5 in the EIAR) is provided, and controls are outlined in Chapter 9 to ensure protection of all downstream receiving waters. Mitigation measures will ensure that surface runoff from the developed areas of the Proposed Project site will be of a high quality and will therefore not impact on the quality of downstream surface water bodies, no impact on group water schemes, wells and therefore, no subsequent health effects.



Population and Human Health, and Air Quality

The excavation and movement of peat and spoil during the construction phase of the Proposed Project is likely to create dust and exhaust emissions which will result in a permanent, slight, negative effect on local air quality (once air pollutants are emitted into the atmosphere, they are considered permanent). Mitigation measures to reduce dust and exhaust emissions generated during the construction phase of the Proposed Project are presented in Chapter 10. During the operational phase, the Proposed Project will generate additional traffic to the area in the form of light goods vehicles (LGVs) visiting the site an average of 1-2 times per day for inspections and maintenance, giving rise to a long-term imperceptible negative impact on air quality. However, wind turbines are not a recognised source of pollution, and will instead be providing clean energy into the National Grid. This will have a long-term positive effect on human health.

Population and Human Health, and Climate

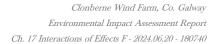
The construction of the Proposed Project will result in greenhouse gas emissions, e.g., carbon dioxide (CO2), carbon monoxide and nitrogen oxides, associated with tree felling, production of construction materials, and operation of vehicles and plant. This impact will be permanent and slight only, given the quantity of greenhouse gases that will be emitted to the atmosphere, and will be restricted to the duration of the construction phase. The Proposed Project when in operation, will reduce the input of carbon intensive energy into the national grid and reduce the amount of greenhouse gas emissions being released to the atmosphere that are associated with electricity generation and use. Harnessing more energy by means of renewable sources will reduce dependency on fossil fuels, thereby resulting in a reduction in harmful emissions that can be damaging to human health and the environment. The rated output of 7.2MW per turbine for the Proposed Wind Farm would result in an estimated installed capacity of 79.2MW, displacing approximately 72,217 tonnes of carbon dioxide per annum or 2,527,595 tonnes over its operational life from traditional carbon-based electricity generation. This will have a long-term moderate positive effect on climate and therefore a long-term positive effect on health.

Population and Human Health, and Noise and Vibration

As identified in Chapter 5 of this EIAR, the construction phase will generate an increase in noise levels in the vicinity of the site which has the potential to cause a nuisance to sensitive receptors in the area. The contractor undertaking the construction of the works will be obliged to take specific noise abatement measures and comply with the recommendations of British Standard BS 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites - Noise and all mitigation measures as detail in Chapter 12 Nosie and Vibration and the CEMP (Appendix 4-4) will be implemented. The construction phase will likely create a short-term, slight negative effect on human health due to the nuisance caused by construction plant and vehicle noise emissions. As detailed in Chapter 12, the predicted noise emissions during the operational phase are not significant. Furthermore, as noise emissions from turbines are controllable via inbuilt technologies, the Proposed Wind Farm will be able to comply with the 'Wind Energy Development Guidelines for Planning Authorities' (Department of the Environment, Heritage, and Local Government (DoEHLG), 2006) (hereafter referred to as DoEHLG 2006 Guidelines). A noise assessment an assessment utilising the DoEHLG's 'Draft Revised Wind Energy Development Guidelines' (hereafter referred to as Draft DoEHLG 2019 Guidelines) is not technically feasible or appropriate and has not therefore been undertaken. Please refer to Section 12.2 of Chapter 12 of this EIAR for further details.

The Proposed turbines will be capable of achieving compliance with noise conditions imposed should the Proposed Wind Farm receive a grant of planning permission.

Construction works associated with the Proposed Grid Connection Route in any one location will be limited in duration and adverse noise effects are anticipated to be not significant. Where construction activities occur directly beside a dwelling, the noise levels at that location are likely to be in the region of 75 - 80 dB(A) for a short period of time.





At some watercourse, culvert and drain crossings, there may be a requirement for Horizontal Directional Drilling (HDD). Specifically, this could be required for some small bridge or water crossings. For small crossings, the work would likely be completed within 1 and 2 weeks so it will be short term only. Where activities involving the small HDD drilling rig are within 30m of a dwelling then noise mitigation measures will be implemented.

Construction works related to distant road junction improvements may also occur without the Construction Nosie Assessment Locations (detailed in Chapter 12 of this EIAR) considered above, in close proximity to some residential receptors. It is possible that noise from these activities may at times exceed the guideline levels, however it should be noted that this will be a short-term, temporary impact.

Accordingly, the impact is deemed not significant for construction activities associated with cable trenching, bridge crossings and distant road junction upgrades.

As outlined in Chapter 12 Noise of the EIAR, there will be no significant effects on noise from the Proposed Project during the operational phase.

Population and Human Health, and Landscape and Visual

The construction phase of the Proposed Project will see the temporary introduction of construction machinery and the erection of wind turbines into a natural, but already heavily modified landscape. The erection of the Proposed turbines in particular will change the existing landscape. Whether the long-term change in landscape created by the erection of the turbines is deemed to be positive or negative is a subjective matter. What appears to be a positive visual effect to one viewer could be deemed to be a negative effect by another viewer. Chapter 14 of this EIAR comprises the landscape and visual impact assessment of the Proposed Project. The Proposed Wind Farm adheres to the recommended minimum 500m set back distance in the DoEHLG 2006 Guidelines and also the 4 times tip height set-back distance from residential dwellings set out the Draft DoEHLG 2019 Guidelines specifically for visual amenity purposes.

Population and Human Health, and Material Assets

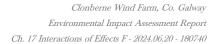
The Proposed Project will give rise to traffic movements of abnormal loads and increased traffic volumes on the local road network and, therefore, is likely to create some short-term inconvenience for other road users as well as dust and exhaust emissions. A Traffic Management Plan (Appendix 15-1) will be in place to minimise all disruption, as described in Chapter 15 Material Assets and the CEMP (see Appendix 4-4). During the operational phase, impacts on the surrounding local road network will be imperceptible. With the implementation of measures detailed in Chapter 5 and the CEMP (Appendix 4-4), dust and exhaust emission will be contained and the potential for impact on health will be imperceptible.

As detailed in Chapter 15, the Proposed Wind Farm will have a short-term effect on utilities imperceptible effect during the construction phase. During the operational phase, there will be an imperceptible effect on utilities, Gas Networks Ireland, telecoms, and aviation with the implementation of the mitigation measures outlined in Chapter 15.

17.2.2 **Biodiversity**

Biodiversity and Land, Soils and Geology

The excavation and removal of peat and spoil, during the construction phase of the Proposed Project is likely to result in some disturbance of flora and fauna in and adjacent to the Proposed Project footprint thereby, potentially causing a long term, slight, negative effect on biodiversity. These potential impacts





have been assessed in Chapter 6 of this EIAR and excavated spoil will be contained on site in the peat and spoil repository areas or used for landscaping.

It is also proposed to plant and manage approximately 2.89ha of native woodland, 2,419m of hedgerow and enhance 11.6ha of uncut raised bog through drain blocking measures within the Proposed Project site. The measures listed above will have a slight long term positive effect on mammals, birds, bats, and invertebrates as these measures will both create and increase suitable habitat for foraging, commuting, and nesting for a wide range of fauna including those listed above. In addition, it is proposed to transplant the areas of *Molinia* meadow habitat to a new location within the Site to encourage expansion of that habitat and it is proposed that the spoil repository areas will be reseeded with native wildflower meadow mix. Please see Chapter 6 Biodiversity and the associated Biodiversity Management and Enhancement Plan (BMEP) (Appendix 6-6), for details.

Biodiversity and Water

Site activities during the construction phase of the Proposed Project may have the potential to give rise to water pollution, and consequential indirect effects (such as disturbance and deterioration of habitat quality) on flora and fauna that use that water within the same catchment. These potential impacts have been assessed in Chapter 6 and Chapter 9 and the relevant mitigation measures outlined in these chapters and the CEMP Appendix 4-4 will be in place to avoid any water pollution and subsequent effect on biodiversity. In addition, as detailed in the BMEP (Appendix 6-6), habitat creation and enhancement will be completed in a way that avoids use of fertilisers or slurries, therefore reducing the potential impact on surface water and groundwater.

Biodiversity and Air Quality

During the construction phase of the Proposed Project, increased vehicular and dust emissions within and around the Proposed Project site have the potential to be a nuisance to flora and fauna, thereby having a temporary, slight, negative effect. The mitigation measures outlined in Chapter 10 of the EIAR will ensure that the potential for negative effects is reduced or eliminated. During the operational phase, the potential for effects on biodiversity from vehicular and dust emissions are imperceptible, however the overall displacement of fossil fuel emissions will have a long-term moderate positive effect on air quality for biodiversity.

Biodiversity and Climate

The construction of the Proposed Project will result in greenhouse gas emissions associated with felling, production of construction materials, and operation of vehicles and plant. The impact on biodiversity will be negative and slight only given the quantity of greenhouse gases that will be emitted to the atmosphere and will be restricted to the duration of the construction phase. As discussed above in Section 17.2.1, once emitted to the atmosphere, the greenhouse gas emissions that will arise from construction phase activities will have a permanent imperceptible negative effect on Climate and therefore biodiversity. This is assessed further in Chapter 11 of this EIAR, and mitigation measures are presented to minimise any potential effects.

During operational phase, the Proposed Project will help offset carbon emissions from fossil fuel-based electricity generation plants, which will help contribute to a slower increase in the rate of global warming and a reduction in air pollution, consequently, could in combination with other renewable energy projects, have a long term, moderate positive effect on biodiversity.

The construction of the Proposed Project will involve the removal of carbon fixing vegetation and habitat, however, as detailed in Appendix 6-6 Biodiversity Management and Enhancement Plan, it is proposed to plant and manage approximately 2.89ha of native woodland, 2,419m of hedgerow, enhancement of 11.6ha of uncut raised bog, transplant the areas of *Molinia* meadow habitat and reseed the proposed spoil repository area within the Proposed Project site and afforest the 10.3ha of forestry



being felled for the Proposed Project (Section 4.4.8 of Chapter 4 of this EIAR). As outlined in Chapter 11, the Proposed Project will displace carbon dioxide from fossil fuel-based electricity generation, over the proposed 35-year lifespan operational phase which will help contribute to a slower increase in the rate of global warming and a reduction in air pollution, consequently, could in combination with other renewable energy projects, have a long-term positive effect on biodiversity.

Biodiversity and Noise & Vibration

Site activity during the construction phase could give rise to noise that could be a nuisance for fauna who use the site. Best practice mitigation measures are included in Chapter 6 and Chapter 12 and the CEMP (Appendix 4-4) to minimise the potential negative effect of noise generated during the construction phase on biodiversity. The limited onsite noise activity generated by the Proposed Project during the operational phase will have an imperceptible negative effect on biodiversity.

17.2.3 **Birds**

Birds and Land, Soils & Geology

The removal of hedgerows and soil, during construction phase of the Proposed Project is likely to result in some disturbance of fauna, including birds, in the areas surrounding the Proposed Project works area. The relevant mitigation measures outlined in Chapter 7, Chapter 8 and the CEMP (Appendix 4-4) will be in place to avoid any subsequent effect on ornithology.

It is also proposed to plant and manage approximately 2.89ha of native woodland, 2,419m of hedgerow, enhance 11.6ha of uncut raised bog, transplant the areas of *Molinia* meadow habitat and reseed the proposed spoil repository area within the Proposed Project site. The measures listed above will have a slight long term positive effect on mammals, birds, bats, and invertebrates as these measures will both create and increase suitable habitat for foraging, commuting, and nesting for a wide range of fauna including those listed above. In addition, it is proposed to convert/manage land for enhancement purposes for pine marten, red squirrel and marsh fritillary. Please see Chapter 6 Biodiversity and the associated Biodiversity Management and Enhancement Plan (Appendix 6-6), for details.

Birds & Water

Site activities during the construction phase of the Proposed Project may have the potential to give rise to some water pollution, and consequential short term indirect effects on birds and their prey species (such as disturbance and deterioration of habitat quality) that use that water within the same catchment. With the implementation of mitigation and monitoring measures outlined in Chapter 7, Chapter 9 and the CEMP (Appendix 4-4), the effects during the operational phase from site activities will be not significant.

Birds and Air Quality

During the construction phase of the Proposed Project, increased vehicular and dust emissions within and around the site have the potential to be a nuisance for birds. The mitigation measures outlined in Chapter 10 and the CEMP (Appendix 4-4) will ensure that the potential for negative effects is reduced or eliminated. During the operational phase, the potential for effects on ornithology from vehicular and dust emissions are imperceptible.

Birds and Climate

The construction of the Proposed Project will result in greenhouse gas emissions associated with production of construction materials and operation of vehicles and plant. This impact on ornithology



will be negative and slight only, given the quantity of greenhouse gases that will be emitted to the atmosphere, and will be restricted to the duration of the construction phase. As discussed above in Section 17.2.1, once emitted to the atmosphere, the greenhouse gas emissions that will arise from construction phase activities will have a permanent imperceptible negative effect on Climate.

During the operational phase, the Proposed Project will help offset carbon emissions from fossil fuel-based electricity generation plants, which will help contribute to a slower increase in the rate of global warming and, consequently, could in combination with other renewable energy projects, contribute to preventing the loss of bird species from Ireland as a result of climate change.

Birds and Noise & Vibration

Site activity during the construction phase could give rise to noise that could be a nuisance for birds that use the Proposed Project site. Best practice mitigation measures are included in Chapter 7 and Chapter 12 and the CEMP (Appendix 4-4) to minimise the potential negative effect of noise generated during the construction phase on ornithology.

Site activity during the operational phase could give rise to noise that could be a nuisance for birds, which use the Proposed Project site. Best practice mitigation measures are included in Chapter 7 and Chapter 12 and to minimise the potential negative effect of noise generated during the operational phase. The limited onsite noise activity generated by the Proposed Project during the operational phase will have an imperceptible negative effect on birds.

17.2.4 Land, Soils and Geology

Land, Soils & Geology, and Water

As identified in Chapter 8 of this EIAR, the movement and removal of peat and spoil during the construction phase has the potential to have a significant, negative effect on water quality through potentially silt-laden runoff from the Proposed Project works areas. Mitigation measures to ensure there are not significant, negative effects on water quality are presented in Chapter 8, Chapter 9, and the CEMP (Appendix 4-4).

Land, Soils & Geology and Cultural Heritage

The removal of peat and spoil during the construction phase is likely to have a permanent, significant, negative effect on any previously unrecorded sub-surface archaeological site and artefacts. Any archaeological sites/features, if detected, during monitoring will be preserved by record (archaeologically excavated) or preserved in-situ (avoidance) and therefore a full record made of the same. Mitigation measures outlined in Chapter 13 will reduce the potential for negative effects on unrecorded sites and artefacts during excavations.

Land, Soils & Geology and Landscape & Visual

The removal of peat and spoil and the subsequent replacement with crushed stone for the construction of the site roads and hardstanding areas within the Proposed Wind Farm site has the potential to alter the local landscape. The visual effect of this change is expected to be long term, localised in nature and slight.

Land, Soils & Geology and Air Quality

The excavation works and transportation of vehicles to/from and around the site will give rise to dust and exhaust emissions which is considered a short-term, slight, negative impact on air quality.



Mitigation measures outlined in Chapter 10 will reduce the potential for negative effects on land, soils, and geology, including includes dust suppression measures which is further outlined in the CEMP (Appendix 4-4). No ground works are required for the operational phase.

Land, Soils & Geology and Climate

The construction of the Proposed Project will result in greenhouse gas emissions associated with production of construction materials and operation of vehicles and plant. This impact will be negative and slight only, given the quantity of greenhouse gases that will be emitted to the atmosphere, and will be restricted to the duration of the construction phase. As discussed above in Section 17.2.1, once emitted to the atmosphere, the greenhouse gas emissions that will arise from construction phase activities will have a permanent imperceptible negative effect on Climate.

17.2.5 Air Quality

Air Quality and Material Assets

The transportation of vehicles to/from and around the Proposed Project site will give rise to dust and exhaust emissions which is considered a short-term, slight, negative impact on air quality. Following implementation of mitigation measures as outlines in Chapter 10, Chapter 12, and the CEMP (Appendix 4-4) there will be a short-term imperceptible negative effect on air quality due to transportation movements. Dust and exhaust emissions generated through the transportation of vehicles to/from and around the Proposed Project site during the operational phase (average of 1-2 LGVs per day) are imperceptible.

17.2.6 **Climate**

Climate and Material Assets

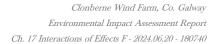
The construction of the Proposed Project will result in greenhouse gas emissions, e.g., carbon dioxide (CO2), carbon monoxide and nitrogen oxides, associated with tree felling, production of construction materials, and operation of vehicles and plant. This impact will be permanent and slight only, given the quantity of greenhouse gases that will be emitted to the atmosphere, and will be restricted to the duration of the construction phase. This is assessed further in Chapter 11 of this EIAR, and mitigation measures are presented to minimise any potential effects.

The Proposed Project will displace carbon dioxide from fossil fuel-based electricity generation, over the proposed 35-year lifespan of the Proposed Project. Therefore, while there will be greenhouse gas emissions associated with the operation of the Proposed Project, this will be offset by the operation of the Proposed Project which will offset 72,217 tonnes of carbon dioxide per annum or 2,527,595 tonnes over its operational life from traditional carbon-based electricity generation. Subsequently, this will cause a long-term positive effect on Climate as a result of reduced greenhouse gas emissions.

17.2.7 Landscape and Visual

Landscape & Visual and Cultural Heritage

As described in Chapter 14 of this EIAR, the Proposed Project has the potential to change the landscape setting of recorded sites and monuments in the wider area. However, it is concluded in Chapter 13 that any potential, indirect, visual effect of the Proposed Project on sites and monuments range from Not Significant to Significant. In reality the effect will be less severe due to natural screening, boundaries, buildings and vegetation, which will alleviate if not remove the impact on setting altogether. Furthermore, some monuments may not be readily visible in the landscape which further





ameliorates potential effects on setting. Additionally, many of these monuments are located on private land which are not formally accessible to the public.

17.2.8 Major Accidents and Natural Disasters

As described in Chapter 16 of the EIAR, major accidents or natural disasters are hazards which have the potential to affect the Proposed Project and lead to environmental effects both directly and indirectly. These include accidents during construction, operation and decommissioning of the Proposed Project caused by operational failure and/or natural hazards. The assessment of the potential for significant accidents or disasters is conducted in connection with the information that must be included in the EIAR. This includes aspects such as population and human health, biodiversity, land and soil, hydrology and hydrogeology, air quality, climate, material assets, cultural heritage, and landscape. The risk of a major accident and/or disaster during the construction of the Proposed Project is considered 'low' in accordance with the 'Guide to Risk Assessment in Major Emergency Management' (DoEHLG, 2010).

When the above mitigation is implemented, and all mitigation detailed in the EIAR is implemented, the residual effect(s) associated with the construction, operation and decommissioning of the Proposed Project are not significant.

17.3 Mitigation and Residual Impacts

Where any potential interactive negative effects have been identified in the above, a full suite of appropriate mitigation measures has already been included in the relevant sections (Chapters 5-16) of the EIAR and are detailed in the CEMP (Appendix 4-4). The implementation of these mitigation measures will reduce or remove the potential for their effects. Information on potential residual impacts and the significant of effects, is also presented in each relevant chapter.