

## **Wylfa Newydd Project**

### **6.3.7 ES Volume C - Project-wide effects C7 - Combined topic effects**

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## 7 Combined topic effects

### 7.1 Introduction

- 7.1.1 Combined topic effects, also known as intra-development effects, occur when a single receptor is affected in more than one way by the same development.
- 7.1.2 This combined topic effects chapter considers those receptors that would experience more than one of the minor, moderate or major residual effects identified in the preceding topic assessment chapters.
- 7.1.3 Embedded, good practice and additional mitigation measures are identified in the individual topic chapters and not in this chapter, which is based on the residual effects. It has not been possible to identify any additional mitigation to address combined effects that has not already been identified and committed to through the earlier steps in the Environmental Impact Assessment process.
- 7.1.4 Combined topic effects may be contributed to by multiple effects reported in one topic chapter (e.g. both a noise and a vibration effect) and/or in more than one topic chapter (e.g. both a noise and an air quality effect). Where combined topic effects result from individual effects reported in different topic areas, there is no published methodology for assessing such effects and assigning a level of significance to them, and so the assessment is limited to descriptions of the effects that would combine, based on professional judgement as to which effects would combine. The potential is recognised for some of the people affected to perceive the combined effect to be significant. Where combined topic effects result from individual effects reported within one topic, the significance criteria are as described in the relevant topic chapter.

### 7.2 Scope

- 7.2.1 The scope of this chapter is limited to the scope of this volume of the Environmental Statement, i.e. project-wide, non-development-specific effects.
- 7.2.2 In some cases, the effects reported in one topic chapter already have combined topic effects embodied within them (for example, amenity effects in the public access and recreation chapter, Application Reference Number: 6.3.3, are based in part on noise effects) and so they are not considered again in this chapter. Cumulative effects, both intra-project (resulting from the various developments that comprise the Wylfa Newydd Project) and inter-project (resulting from the Wylfa Newydd Project together with external projects) are not considered here, but are reported in volume I (Application Reference Numbers: 6.9.1 to 6.9.14).
- 7.2.3 Combined effects are also reported in the Community Impact Report (Application Reference Number: 8.23). The Community Impact Report splits Anglesey and part of Gwynedd into seven geographic areas and identifies the key community effects likely to be experienced in those areas. The

Community Impact Report presents an assessment that is focussed on communities and does not necessarily align with the split of receptors presented in this Environmental Statement. As such, the findings of the Community Impact Report are not outlined further in this chapter.

## 7.3 Combined effects

- 7.3.1 Appendix C7-1 (matrix of receptors and which topics affect them) (Application Reference Number: 6.3.31) lists the receptors that would experience minor, moderate or major residual effects as identified in the topic assessment chapters reported in this volume. No directly comparable receptors associated with multiple topics are identified in Appendix C7-1.
- 7.3.2 It should be noted that the various topics have grouped receptors at different scales as is appropriate for the particular assessments, and individuals that identify within some of these subgroups may overlap. For example, residents of residential areas considered in the air and noise assessments may also be active travellers considered in the public access and recreation assessment and also be part of the labour market on Anglesey or in the wider Daily Construction Commuting Zone. Because the individual effects were assessed at these different scales, it is not practical to tease out the combined effects down to this individual level.
- 7.3.3 At all of the assessed human receptors considered for the project-wide effects there could potentially be combined health effects and/or equality effects. Depending on the geographic scale and vulnerable groups present there may be a range of different combinations of factors that affect health and equality. These include: environmental effects (such as noise, increase in air pollutant concentrations, route diversions or visual disturbance); social effects (such as changes in community identity, social networks or culture); economic effects (such as new investment, employment or training opportunities); and infrastructure effects (such as the public benefits of an uninterrupted and affordable electricity supply). The potential for significant effects on population and human health, including the combined effects are considered in the Health Impact Assessment Report (Application Reference Number: 8.19), and the Equality Impact Assessment (Application Reference Number: 8.22) identifies potential effects on equality; hence, these are not considered again in this chapter.
- 7.3.4 Based on the receptors identified in this Environmental Statement, no further combined topic effects have been identified within the scope of volume C (Application Reference Numbers: 6.3.1 to 6.3.6), which is limited to project-wide effects. However, it should be noted that the development-specific effects relating to socio-economics, public access and recreation, air quality and noise and vibration are reported in volumes D to H (Application Reference Numbers: 6.4.1 to 6.8.6), and each of those volumes includes a chapter on combined topic effects (Application Reference Numbers: 6.4.16, 6.5.12, 6.6.12, 6.7.12 and 6.8.12).