

## Chapter 16: Residual effects summary tables

16.1 These tables summarise the potential residual effects of the proposed wind farm after appropriate mitigation measures have been employed. Explanations of the methods of assessment of the significance and mitigation measures are given in each of the chapters.

### Birds

Significant residual effect	Importance of receptor	Magnitude of change	Nature	Duration	Significance	Level of certainty
Golden plover collision risk	Medium	Medium	Adverse	Long term	Moderate	Uncertain
Skylark collision risk	Medium	Negligible to small	Adverse	Long term	None to slight	Uncertain

### Cultural heritage

Significant residual effect	Receptor sensitivity	Impact magnitude	Nature	Duration	Significance	Certainty
Potential improvements in knowledge of the archaeology of the site gained from investigations	High/medium	Medium/small	Beneficial	Long term	Moderate/substantial	Reasonable
Effects on settings of historic buildings and areas	High/medium	Medium/none	Adverse	Short term	Moderate/substantial – none	Reasonable
Effect on historic landscape of West Wight	Medium	Medium/none	Adverse	Short term	Moderate/none	Reasonable

**Landscape and visual**

	<b>Significant residual effects</b>	<b>Sensitivity of receptor</b>	<b>Magnitude of change</b>	<b>Duration</b>	<b>Significance</b>	<b>Nature</b>	<b>Level of certainty</b>
Landscape resources - character areas / types	Open Farmland (Type 6)	High	Large	Long term/ reversible	Substantial	Adverse	Reasonable
	Chalk Downs (Type 1 and LCT1)	High	Medium/ large	Long term/ reversible	Substantial	Adverse	Reasonable
	Bays (Type3) Soft Cliffs(Type8) Northern Coastal Cliffs(LCT11)	High	Small	Long term/ reversible	Moderate	Adverse	Reasonable
	Estuaries (Type5)	High	Small/ medium	Long term/ reversible	Moderate	Adverse	Reasonable
	Settled Farmland (Type7)	Medium/ High	Small	Long term/ reversible	Moderate	Adverse	Reasonable
	Rolling Farmland (Type9) Traditional Enclosed Pasture (LCT2)	High	Small/ medium	Long term/ reversible	Moderate/substantial	Adverse	Reasonable
	Coastal and Inter-tidal Area	Medium	Small	Long term/ reversible	Moderate/slight	Subjective	Reasonable
	North West Solent Estates	High	Small/ medium	Long term/ reversible	Moderate	Subjective	Reasonable
	Lymington and Pennington Coastal Plain	High	Small/ medium	Long term/ reversible	Moderate	Subjective	Reasonable
	Barton and Milford Coastal Plain	Medium	Small	Long term/ reversible	Moderate/slight	Subjective	Reasonable
	Beaulieu Heath	High	Small/ negligible	Long term/ reversible	Slight	Subjective	Reasonable
	Eastern Forest Heaths	High	Small/ negligible	Long term/ reversible	Slight	Subjective	Reasonable
	Open Coastal plain and Cliff Coastline	Medium	Medium/ small	Long term/ reversible	Slight	Subjective	Reasonable

	<b>Residual effects</b>	<b>Receptor</b>	<b>Sensitivity of receptor</b>	<b>Magnitude of change</b>	<b>Overall effect</b>	<b>Nature</b>	<b>Level of certainty</b>	<b>Duration</b>
Visual amenity - viewpoints	Viewpoint 1: Wellow Millennium Green adjacent to B4301	Residents	High	V substantial / substantial	Major+	Significant Adverse	Reasonable	Long term/ reversible
		Green users (dog walking and sports)	High / medium	Substantial	Major / moderate+			
	Viewpoint 2: B3399 west of Shalcombe	Motorists	Medium	V Substantial	Major/ moderate+	Significant Adverse	Reasonable	Long term/ reversible
	Viewpoint 3: Thorley Church Gate	Residents	High	Substantial	Major	Significant Adverse	Reasonable	Long term/ reversible
		Church goers, cyclists	High / medium		Major/ moderate+			
		Motorists	Medium		Major/ moderate			
	Viewpoint 4: Tennyson Trail on Compton Down Golf Course	Walkers, Horse riders, cyclists	High	Substantial	Major	Significant Adverse	Reasonable	Long term/ reversible
		Golfers	High/ medium		Major/ moderate+			
	Viewpoint 5: Freshwater Way, near Kings Manor Farm	Walkers, Horse riders, cyclists	High/ medium	Moderate	Moderate+	Significant Adverse	Reasonable	Long term/ reversible

Visual amenity - viewpoints	Viewpoint 6: Bridge over River Yar, Yarmouth	Motorists	High/ medium	Moderate	Moderate+	Significant Adverse	Reasonable	Long term/ reversible
		Yachtsmen, Fishermen	High/ medium		Moderate+			
	Viewpoint 7: Newtown National Nature Reserve	Walkers	High	Moderate	Major/ moderate	Significant Adverse	Reasonable	Long term/ reversible
		Birdwatchers, Sailors	High/ medium		Moderate+			
	Viewpoint 8: Swainstondown Gate	Walkers, Horse riders, cyclists	High	Moderate/slight	Moderate+	Significant Adverse	Reasonable	Long term/ reversible
	Viewpoint 9: Tennyson’s Monument, Tennyson’s Down	Walkers, Horse riders, cyclists	High	Moderate	Major/ moderate	Significant Adverse	Reasonable	Long term/ reversible
	Viewpoint 10: Ferry Terminal	Ferry users	Medium	Moderate/slight	Moderate/ minor+	Not Significant	Reasonable	Long term/ reversible
	Viewpoint 11: Seafront at Milford on Sea	Residents	High	Slight	Moderate	Not Significant	Reasonable	Long term/ reversible
		Walkers, Horse riders, cyclists, visitors	High/ medium		Moderate/ minor+			
		Motorists	Medium		Moderate/ minor			
	Viewpoint 12: Northwood, Cowes	Residents	High/ medium	Slight	Moderate/ minor+	Not Significant	Reasonable	Long term/ reversible
		Motorists	Medium		Moderate/ minor			

Visual amenity - viewpoints	Viewpoint 13: Stone Point, Lepe Country Park	Visitors to the beach, Country Park and National Park	High	Slight	Moderate	Not Significant	Reasonable	Long term/reversible
	Viewpoint 14: Beaulieu Heath, New Forest	Walkers, Horse riders, cyclists	High	Slight	Moderate	Not Significant	Reasonable	Long term/reversible
		Model aircraft flyers	High/ medium		Moderate/ minor+			
		Motorists	High/ medium		Moderate/ minor+			
	Viewpoint 15: Seafront at Barton-on-Sea	Residents	High	Slight /negligible	Moderate/ minor+	Not Significant	Reasonable	Long term/reversible
		Visitors	High/ medium		Moderate/ minor			
		Motorists	Medium		Minor+			
	Viewpoint 16: Brading Down	Walkers, Horse riders, cyclists	High	Negligible	Moderate/ minor	Not Significant	Reasonable	Long term/reversible
		Motorists	High/ medium		Minor+			
	Viewpoint 17: Mudeford Quay, Christchurch	Walkers	High/ medium	Negligible	Minor+	Not Significant	Reasonable	Long term/reversible
		Visitors	High/ medium		Minor+			
		Yachtsmen Fishermen	High/ medium		Minor+			
	Viewpoint 18: New Forest near A31(T)	n/a	High	Negligible	no impact	n/a	Reasonable	n/a

**Land use, and social and community**

	<b>Significant residual effect</b>	<b>Importance of receptor</b>	<b>Magnitude of change</b>	<b>Nature</b>	<b>Duration</b>	<b>Significance</b>	<b>Level of certainty</b>
<b>Land use</b>	Loss of agricultural land	Low	Small	Adverse	Long term	Slight	Absolute
	Use of site for the generation of energy	Medium	Large	Beneficial	Long term	Substantial	Absolute
	Change in walking experience on public rights of way	Low to high	Large	Subjective	Long term	Moderate to substantial	Absolute
	Reduction in use of bridleways	Low to high	Uncertain	Adverse	Long term	Uncertain	Uncertain
<b>Community and social</b>	Improved renewable energy business relationships on the Island	Low to medium	Medium	Beneficial	Long term	Moderate to substantial	Reasonable
	Proposed development will provide an educational resource	Low	Small	Beneficial	Long term	Slight	Reasonable

**Water environment**

Effect	Type	Probability	Sensitivity	Magnitude	Significance	
					Ranking	Rationale
<b>Construction</b>						
Effects on surface water:						
Disturbance to stream bed and bank from a single crossing	-ve	Certain	Local	Low	Negligible	Crossing constructed in accordance with best practice but some effects unavoidable.
Accidental spillage of oils, fuels or polluting substances	-ve	Unlikely	Local	Low	Negligible	Spillages will be controlled and response measures will be in place for accidental events.
Effects on geology:						
Excavation of locally important Bembridge Limestone for turbine foundations and roadstone	-ve	Certain	District	Low	Negligible	No exposures of important geological strata affected. Small volume of limestone removed during construction.
Effects on soils:						
Soil excavations for turbine bases, tracks and other excavations	-ve	Certain	Local	Low	Negligible	A very small volume of soil removed for development: where possible re-used.
<b>Operation</b>						
Effects on surface water:						
Accidental spillage of pollutants from on-site activities	-ve	Unlikely	Local	Low	Negligible	Spillages controlled and response measures in place for accidental events
Symbols and criteria used in the above categories						
	-ve = Negative	Certain	International	Major	Major	
	+ve = Positive	Likely	National	Medium	Minor	
		Unlikely	Regional	Low	Negligible	
			District			
			Local			