The Sizewell C Project

6.11 Volume 10 Project-wide, Cumulative and Transboundary Effects
Chapter 4 Assessment of Cumulative Effects with Other Plans, Projects and Programmes
Appendices 4A - 4C

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May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
VOLUME 10, CHAPTER 4, APPENDIX 4A: TRANSPORT CUMULATIVE ASSESSMENT AND SCREENING OF LINKS
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Plates

None provided.
Figures

None provided.
# Traffic Link Screening

## Table 1.1: 2023 Screening of Links

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### Transport Cumulative Assessment and Screening of Links

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### A Transport Cumulative Assessment and Screening of Links

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<td>2028 Peak Construction Links Screened In</td>
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2 Assessment Tables

2.1 Severance

Table 2.1: Severance 2023 24hr AAWT Cumulative

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<th>2023 Reference Case 24hr AAWT total traffic</th>
<th>2023 Reference + Sizewell + Scottish Power (busiest) 24hr AAWT total traffic</th>
<th>% Change</th>
<th>Magnitude</th>
<th>Sensitivity</th>
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<td>% Change</td>
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### Transport Cumulative Assessment and Screening of Links

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### Table 2.2: Severance 2028 24hr AAWT Cumulative

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<td>Magnitude</td>
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<td>% Change</td>
<td>Magnitude</td>
<td>Sensitivity</td>
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<td>High</td>
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## 2.2 Pedestrian Delay

### Table 2.3: Pedestrian Delay 2023 24 AAWT Cumulative

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<th>Link Number</th>
<th>Link Name</th>
<th>2023 Reference Case</th>
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<th>Mean Pedestrian Delay Increase (seconds)</th>
<th>Magnitude</th>
<th>Sensitivity</th>
<th>Effect Significance</th>
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<td>Average vehicles per hour</td>
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<td>24 hour AAWT vehicles</td>
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<td>41335</td>
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<td>14.0</td>
<td>41335</td>
<td>1722</td>
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<td>49019</td>
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Table 2.4: Pedestrian Delay 2028 24 AAWT Cumulative

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<th>2028 Reference Case + Sizewell Scottish Power (busiest)</th>
<th>Mean Pedestrian Delay Increase (seconds)</th>
<th>Magnitude</th>
<th>Sensitivity</th>
<th>Effect Significance</th>
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<td>Average vehicles per hour</td>
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<td>24 hour AAWT vehicles</td>
<td>Average vehicles per hour</td>
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<td>43803</td>
<td>1825</td>
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### 2.3 Amenity

#### Table 2.5: Amenity 2023 24hr AAWT Total Traffic Cumulative

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<th>Magnitude</th>
<th>Sensitivity</th>
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<tr>
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<tr>
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### Table 2.6: Amenity 2023 24hr AAWT HDVs Cumulative

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<th>Link Number</th>
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<th>2023 Reference Case 24hr AAWT HDVs</th>
<th>2023 Reference + Sizewell + Scottish Power (busiest) 24hr AAWT HDVs</th>
<th>% Change</th>
<th>Magnitude</th>
<th>Sensitivity</th>
<th>Effect Significance</th>
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## Table 2.7: Amenity 2028 24hr AAWT Cumulative

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<th>Link Number</th>
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<th>2028 Reference Case 24 hr AAWT total traffic</th>
<th>2028 Reference + Sizewell + Scottish Power (busiest) 24 hr AAWT total traffic</th>
<th>% Change</th>
<th>Magnitude</th>
<th>Sensitivity</th>
<th>Effect Significance</th>
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<td>2028 Reference + Sizewell + Scottish Power (busiest) 24 hr AAWT total traffic</td>
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<td>Magnitude</td>
<td>Sensitivity</td>
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<td>2028 Reference + Sizewell + Scottish Power (busiest) 24 hr AAWT total traffic</td>
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<td>Magnitude</td>
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<td>2028 Reference + Sizewell + Scottish Power (busiest) 24 hr AAWT total traffic</td>
<td>% Change</td>
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### Table 2.8: Amenity 2028 24hr AAWT HDVs Cumulative

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<th>% Change</th>
<th>Magnitude</th>
<th>Sensitivity</th>
<th>Effect Significance</th>
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<td>2028 Reference + Sizewell + Scottish Power (busiest) 24hr AAWT HDVs</td>
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<td>Sensitivity</td>
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### 2.4 Fear and Intimidation

Table 2.9: Fear and Intimidation 2023 18 hr AAWT Cumulative

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**Effect Significance**

- Negligible
- Minor adverse
- Minor adverse
- Moderate adverse
- High adverse
- Very Low
- Very Low
- Very Low
- Very Low
- Very Low
- Very Low
- Very Low
- Very Low
- Very Low
### Transport Cumulative Assessment and Screening of Links

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**Note:** The table above shows the cumulative assessment and screening of links for the SIZEWELL C Project's environmental statement. The data includes link numbers, link names, and various metrics such as average vehicle per hour (AAWT), and the effect significance of potential adverse effects. The table highlights sensitivity and magnitude for both the current reference case and the reference case with Sizewell and Scottish Power considerations.
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Table 2.11: Fear and Intimidation 2028 18 hr AAWT Cumulative

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### Table 2.12: Fear and Intimidation 2028 18 hr AAWT HDVs Cumulative

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Plates

None provided.

Figures

None provided.
### B.1. Cumulative Transport Emissions Results

#### Table 1.1: Modelled NO\textsubscript{2} concentrations at receptors for 2023 cumulative scenario

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### SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT

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### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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## Sizewell C Project – Environmental Statement

**Not protectively marked**

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## SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT

### NOT PROTECTIVELY MARKED

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## Volume 10 Appendix 4B Cumulative Transport Emissions Results

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Table 1.2: Modelled PM$_{10}$ concentrations at receptors for 2023 cumulative scenario

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### Cumulative Transport Emissions Results

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## Cumulative Transport Emissions Results

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Table 1.3: Modelled PM$_{2.5}$ concentrations at receptors for 2023 cumulative scenario

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<th>2023RC Road + Rail (µg/m$^3$)</th>
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## SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT

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Volume 10 Appendix 4B Cumulative Transport Emissions Results | 27
## Cumulative Transport Emissions Results

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## Cumulative Transport Emissions Results

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## Volume 10 Appendix 4B Cumulative Transport Emissions Results

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### Cumulative Transport Emissions Results

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### Table 1.5: Modelled PM$_{10}$ concentrations at receptors for 2028 average day cumulative scenario

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## Volume 10 Appendix 4B Cumulative Transport Emissions Results

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### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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### SizeWell C Project – Environmental Statement

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## Volume 10 Appendix 4B Cumulative Transport Emissions Results | 53

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#### SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT

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NOT PROTECTIVELY MARKED

Volume 10 Appendix 4B Cumulative Transport Emissions Results | 54
## NOT PROTECTIVELY MARKED

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### NOT PROTECTIVELY MARKED

#### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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Table 1.7: Modelled NO\textsubscript{2} concentrations at receptors for 2028 busiest day cumulative scenario

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## Cumulative Transport Emissions Results

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### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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## NOT PROTECTIVELY MARKED

### Cumulative Transport Emissions Results

| Receptor | 2023 Background (µg/m³) | 2023RC Road + Rail (µg/m³) | 2023RC Total (µg/m³) | 2023AD Road + Rail (µg/m³) | 2023AD Total (µg/m³) | Magnitude of Change (µg/m³) | Magnitude of Change Descriptor | Effect Descriptor |
|----------|-------------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|-----------------------------|-----------------
| WM10     | 6.7                     | 4.7                         | 11.4                 | 5.1                         | 11.8                 | 0.4                         | Very Low                    | Negligible       |
| WB1      | 7.4                     | 5.5                         | 12.9                 | 5.2                         | 12.6                 | -0.3                        | Imperceptible               | Negligible       |
| BC6      | 6.0                     | 2.2                         | 8.2                  | 2.5                         | 8.5                  | 0.3                         | Imperceptible               | Negligible       |
| LW4      | 8.7                     | 2.5                         | 11.3                 | 2.6                         | 11.4                 | 0.1                         | Imperceptible               | Negligible       |
| LW7      | 8.0                     | 1.2                         | 9.3                  | 1.3                         | 9.3                  | >0.0                        | Imperceptible               | Negligible       |
| LW8      | 19.4                    | 2.8                         | 22.2                 | 2.1                         | 21.5                 | -0.7                        | Very Low                    | Negligible       |
| LW9      | 8.0                     | 2.2                         | 10.2                 | 2.3                         | 10.3                 | 0.1                         | Imperceptible               | Negligible       |
| LE2      | 6.0                     | 0.7                         | 6.8                  | 1.2                         | 7.2                  | 0.4                         | Very Low                    | Negligible       |
| WM5      | 7.3                     | 1.3                         | 8.6                  | 1.4                         | 8.7                  | 0.1                         | Imperceptible               | Negligible       |
| WM11     | 6.5                     | 1.8                         | 8.3                  | 2.0                         | 8.5                  | 0.2                         | Imperceptible               | Negligible       |
| WM12     | 6.5                     | 0.7                         | 7.2                  | 0.8                         | 7.3                  | 0.1                         | Imperceptible               | Negligible       |
| SX15     | 6.0                     | 10.9                        | 16.9                 | 0.5                         | 6.5                  | -10.4                       | High                        | Moderate beneficial |
| YX9      | 5.8                     | 0.4                         | 6.2                  | 0.5                         | 6.3                  | 0.1                         | Imperceptible               | Negligible       |
| LE15     | 5.9                     | 0.3                         | 6.1                  | 0.4                         | 6.3                  | 0.1                         | Imperceptible               | Negligible       |
| LE16     | 5.9                     | 0.2                         | 6.1                  | 0.3                         | 6.2                  | 0.1                         | Imperceptible               | Negligible       |
| LE19     | 6.0                     | 0.3                         | 6.3                  | 0.4                         | 6.4                  | 0.1                         | Imperceptible               | Negligible       |
| LE17     | 5.8                     | 0.2                         | 6.1                  | 0.3                         | 6.1                  | 0.1                         | Imperceptible               | Negligible       |
| LE18     | 6.0                     | 0.2                         | 6.2                  | 0.3                         | 6.2                  | 0.1                         | Imperceptible               | Negligible       |
| LE20     | 6.0                     | 0.3                         | 6.2                  | 0.3                         | 6.3                  | >0.0                        | Imperceptible               | Negligible       |
### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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Sizewell C Project – Environmental Statement

Table 1.8: Modelled PM$_{10}$ concentrations at receptors for 2028 busiest day cumulative scenario

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<th>Receptor</th>
<th>2023 Background (µg/m$^3$)</th>
<th>2023RC Road + Rail (µg/m$^3$)</th>
<th>2023RC Total (µg/m$^3$)</th>
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### NOT PROTECTIVELY MARKED

#### Volume 10 Appendix 4B Cumulative Transport Emissions Results

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<th>2023 RC Total (µg/m³)</th>
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## Table 1.9: Modelled PM$_{2.5}$ concentrations at receptors for 2028 busiest day cumulative scenario

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## Table of Cumulative Transport Emissions Results

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# SIZEWELL C PROJECT – ENVIRONMENTAL STATEMENT

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<th>2023RC Total (µg/m³)</th>
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## Volume 10 Appendix 4B Cumulative Transport Emissions Results

### ND4
- **Receptor:** ND4
- **2023 Background (µg/m³):** 8.5
- **2023RC Road + Rail (µg/m³):** 1.1
- **2023RC Total (µg/m³):** 9.6
- **2023AD Total (µg/m³):** 1.2
- **Magnitude of Change (µg/m³):** 9.7
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### ND5
- **Receptor:** ND5
- **2023 Background (µg/m³):** 8.6
- **2023RC Road + Rail (µg/m³):** 1.0
- **2023RC Total (µg/m³):** 9.6
- **2023AD Total (µg/m³):** 1.0
- **Magnitude of Change (µg/m³):** 9.6
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### ND6
- **Receptor:** ND6
- **2023 Background (µg/m³):** 8.4
- **2023RC Road + Rail (µg/m³):** 0.2
- **2023RC Total (µg/m³):** 8.6
- **2023AD Total (µg/m³):** 0.2
- **Magnitude of Change (µg/m³):** 8.6
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### WM9
- **Receptor:** WM9
- **2023 Background (µg/m³):** 8.3
- **2023RC Road + Rail (µg/m³):** 0.3
- **2023RC Total (µg/m³):** 8.6
- **2023AD Total (µg/m³):** 0.4
- **Magnitude of Change (µg/m³):** 8.7
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### ND7
- **Receptor:** ND7
- **2023 Background (µg/m³):** 8.8
- **2023RC Road + Rail (µg/m³):** 0.9
- **2023RC Total (µg/m³):** 9.8
- **2023AD Total (µg/m³):** 0.9
- **Magnitude of Change (µg/m³):** 9.8
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR1
- **Receptor:** FR1
- **2023 Background (µg/m³):** 8.4
- **2023RC Road + Rail (µg/m³):** 0.6
- **2023RC Total (µg/m³):** 9.0
- **2023AD Total (µg/m³):** 0.6
- **Magnitude of Change (µg/m³):** 9.0
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR2
- **Receptor:** FR2
- **2023 Background (µg/m³):** 8.3
- **2023RC Road + Rail (µg/m³):** 0.9
- **2023RC Total (µg/m³):** 9.3
- **2023AD Total (µg/m³):** 1.0
- **Magnitude of Change (µg/m³):** 9.3
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR3
- **Receptor:** FR3
- **2023 Background (µg/m³):** 8.3
- **2023RC Road + Rail (µg/m³):** 0.3
- **2023RC Total (µg/m³):** 8.6
- **2023AD Total (µg/m³):** 0.3
- **Magnitude of Change (µg/m³):** 8.6
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR4
- **Receptor:** FR4
- **2023 Background (µg/m³):** 8.4
- **2023RC Road + Rail (µg/m³):** 0.6
- **2023RC Total (µg/m³):** 9.0
- **2023AD Total (µg/m³):** 0.6
- **Magnitude of Change (µg/m³):** 9.0
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR5
- **Receptor:** FR5
- **2023 Background (µg/m³):** 8.2
- **2023RC Road + Rail (µg/m³):** 0.4
- **2023RC Total (µg/m³):** 8.6
- **2023AD Total (µg/m³):** 0.4
- **Magnitude of Change (µg/m³):** 8.6
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### FR6
- **Receptor:** FR6
- **2023 Background (µg/m³):** 8.3
- **2023RC Road + Rail (µg/m³):** 0.3
- **2023RC Total (µg/m³):** 8.6
- **2023AD Total (µg/m³):** 0.3
- **Magnitude of Change (µg/m³):** 8.7
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### IP12
- **Receptor:** IP12
- **2023 Background (µg/m³):** 9.1
- **2023RC Road + Rail (µg/m³):** 0.1
- **2023RC Total (µg/m³):** 9.2
- **2023AD Total (µg/m³):** 0.1
- **Magnitude of Change (µg/m³):** 9.2
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### IP13
- **Receptor:** IP13
- **2023 Background (µg/m³):** 9.7
- **2023RC Road + Rail (µg/m³):** 0.1
- **2023RC Total (µg/m³):** 9.8
- **2023AD Total (µg/m³):** 0.1
- **Magnitude of Change (µg/m³):** 9.8
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### IP14
- **Receptor:** IP14
- **2023 Background (µg/m³):** 9.0
- **2023RC Road + Rail (µg/m³):** 2.0
- **2023RC Total (µg/m³):** 11.0
- **2023AD Total (µg/m³):** 2.0
- **Magnitude of Change (µg/m³):** 11.0
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### IP15
- **Receptor:** IP15
- **2023 Background (µg/m³):** 8.9
- **2023RC Road + Rail (µg/m³):** 1.7
- **2023RC Total (µg/m³):** 10.6
- **2023AD Total (µg/m³):** 1.8
- **Magnitude of Change (µg/m³):** 10.7
- **Magnitude of Change Descriptor:** >0.0
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### WB11
- **Receptor:** WB11
- **2023 Background (µg/m³):** 8.8
- **2023RC Road + Rail (µg/m³):** 0.7
- **2023RC Total (µg/m³):** 9.5
- **2023AD Total (µg/m³):** 0.8
- **Magnitude of Change (µg/m³):** 9.6
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### WB12
- **Receptor:** WB12
- **2023 Background (µg/m³):** 8.5
- **2023RC Road + Rail (µg/m³):** 0.5
- **2023RC Total (µg/m³):** 9.0
- **2023AD Total (µg/m³):** 0.8
- **Magnitude of Change (µg/m³):** 9.3
- **Magnitude of Change Descriptor:** 0.2
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### WB7
- **Receptor:** WB7
- **2023 Background (µg/m³):** 8.7
- **2023RC Road + Rail (µg/m³):** 0.8
- **2023RC Total (µg/m³):** 9.5
- **2023AD Total (µg/m³):** 0.9
- **Magnitude of Change (µg/m³):** 9.6
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible

### WB6
- **Receptor:** WB6
- **2023 Background (µg/m³):** 8.5
- **2023RC Road + Rail (µg/m³):** 0.7
- **2023RC Total (µg/m³):** 9.2
- **2023AD Total (µg/m³):** 0.8
- **Magnitude of Change (µg/m³):** 9.3
- **Magnitude of Change Descriptor:** 0.1
- **Effect Descriptor:** Imperceptible
- **Effect Descriptor:** Negligible
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<th>2023RC Total (µg/m³)</th>
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<th>Magnitude of Change (µg/m³)</th>
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## Cumulative Transport Emissions Results

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### Cumulative Transport Emissions Results

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VOLUME 10, CHAPTER 4, APPENDIX 4C: MARINE ECOLOGY AND WATER QUALITY CUMULATIVE EFFECTS ASSESSMENT
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1. Marine Ecology and Fisheries

1.1 Rationale CEA

1.1.1 The requirement for cumulative effects assessment (CEA) is set out in Article 4(3) and Article 5(1) of the Environmental Impact Assessment (EIA) Directive. As a Nationally Significant Infrastructure Project (NSIP) the proposed development is subject to the requirements of the Directive implemented through the Infrastructure Planning (Environmental Impact Assessment) Regulations 2009 (as amended). Schedule 4 of these regulations states that the ES should include:

- “A description of the likely significant effects of the development on the environment, which should cover the direct effects and any indirect, secondary, cumulative, short, medium and long-term, permanent and temporary, beneficial and adverse effects of the development, resulting from:
  - the existing development;
  - the use of natural resources;
  - the emission of pollutants, the creation of nuisances and the elimination of waste;
  - and the description by the applicant of the forecasting methods used to assess the effects on the environment”.

1.1.2 Guidance in the form of Advice Note Seventeen: Cumulative Effects Assessment (Ref. 1.1) has been used to develop the CEA. The Advice Note sets out a four-stage approach to CEA as follows:

- Stage 1: Establish the NSIP’s zone of influence and identify a list of ‘other development’;
- Stage 2: Identify a shortlist of ‘other development’ for CEA;
- Stage 3: Information Gathering, and;
- Stage 4: Assessment.

1.1.3 ‘Other development’ types that should be considered in the CEA are as follows;

- projects under construction;
- permitted application(s), but not yet implemented;
• submitted application(s), but not yet determined;
• projects on the Planning Inspectorate’s Programme of Projects where a scoping report has been submitted, and;
• projects either on the Planning Inspectorate’s Programme of Projects where a scoping report has not been submitted, or identified in the relevant Development Plan (and emerging Development Plans - with appropriate weight being given as they move closer to adoption) recognising that much information on any relevant proposals will be limited, or identified in other plans and programmes (as appropriate) which set the framework for future development consents/approvals, where such development is reasonably likely to come forward.

1.1.4 It is acknowledged that the availability of information necessary to conduct the CEA is dependent on the current status of the ‘other developments’.

a) Topic specific methodology

1.1.5 The CEA broadly follows the Marine Ecology and Fisheries ES methodology detailed in Appendix 6R of Chapter 6 of Volume 1 in terms of impact assessment. Differences in the approach are described here.

1.1.6 The zone of influence (ZOI) for water quality and marine ecology receptor groups considers the most appropriate scale for the assessment.

1.1.7 The scope of the Marine Ecology CEA has been informed following consultation with statutory stakeholders through comments on the draft of the Environmental Statement (Chapter 22 of Volume 2 of the ES), during Marine Technical Forum meetings and following similar consultation processes at Hinkley Point. For most receptors the ZOI will be the extent of potential impacts from the proposed development. In the case of highly mobile species the CEA considers similar impacts within the ZOI with the potential to overlap temporally at the population scale. For example, the primary impacts associated with the proposed development on fish receptors relates to water abstraction causing mortality of fish receptors through impingement and entrainments. The effects of impingement and entrainment act as a form of non-selective fishing pressure that can act on all life-history stages of fish (from eggs to adult individuals). Fish entrapment assessments are contextualised against International Council for the Exploration of the Seas derived SSB (spawning stock biomass), which represents the international best practice approach for determining effects on a stock for either a fleet or individual vessel. However, International Council for the Exploration of the Seas stock assessment areas represent large spatial areas and cumulative effects from other relevant projects within the UK EEZ are considered at the
same spatial scale. Table 1.1 summarises the ZOIs used and therefore the extent of search for the project screening exercise.

**Table 1.1: CEA Zone of Influence (ZOI) summary table**

<table>
<thead>
<tr>
<th>Receptor</th>
<th>Description of zone of influence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water quality</td>
<td>Within 10km of the Greater Sizewell Bay (GSB) as most impacts from the project alone are spatially restricted, although recognising that increases in SSC above background could extend further than 10km.</td>
</tr>
<tr>
<td>Benthic ecology</td>
<td>Benthic receptors found within the GSB are ubiquitous of the southern North Sea communities and impacts are spatially restricted. As such the GSB is considered to be the most appropriate ZOI.</td>
</tr>
<tr>
<td>Fish</td>
<td>The CEA adopts the same assessment area as those used to contextualise impacts from the proposed development. The most wide ranging impact from the proposed development relates to impingement. To assess the potential for effects, impingement losses are considered at the appropriate sea-area or regional stock/population level. Accordingly, the CEA follows the same approach. In the case of seabass, for example, assessment areas are International Council for the Exploration of the Seas Divisions 4.b-c, 7.a, and 7.d-h (Central and southern North Sea, Irish Sea, English Channel, Bristol Channel and Celtic Sea. The International Council for the Exploration of the Seas stock unit means the proposed development and Hinkley Point C would affect fish from the same management unit. Accordingly, the cumulative effects of Sizewell C and Hinkley Point C entrapment are assessed together in a CEA context.</td>
</tr>
</tbody>
</table>
| Marine mammals.  | Marine mammals are highly mobile species with high conservation value. Impacts from the proposed development have the potential to act cumulatively to effect species across the population range.  
The North Sea Management Unit (MU) is considered the appropriate area for assessment of effects on harbour porpoise.  
The UK south-east England MU, north-east England MU and east coast of Scotland MU are considered for seals.  
The southern North Sea Special Area of Conservation (SAC), designated for harbour porpoise, is adjacent to the proposed development. One of the conservation objectives of the SAC is to prevent significant noise disturbance to harbour porpoise. Cumulative impacts of the proposed development in conjunction with other projects are considered at the spatial scale of the SAC. Potential effects on harbour porpoise in relation to the conservation objectives of the site are provided in further detail in the shadow HRA (Doc Ref. 5.10). |
1.1.8 In accordance with the guidance issued by the Planning Inspectorate (Ref. 1.1), the first stage of the CEA identified a long list of ‘other developments’ with the potential to result in cumulative effects in the marine environment.

1.1.9 Projects identified with possible cumulative impacts on marine receptors are detailed in Appendix 4C.1 – Cumulative Effects Assessment Project Screening. Construction and operational impacts of the proposed development are considered in relation to other developments.

1.1.10 Receptor specific shortlists of ‘other developments’ to be included in the CEA are identified. Relevant impacts in a CEA context have undergone a scoping exercise and a rational is presented for impacts that are scoped out of further assessment.

1.1.11 In accordance with the Planning Inspectorate Advice Note 17 (Ref. 1.1), projects have been assigned to a ‘tier’. Natural England and the JNCC have published advice on definitions for a tiered approach to the types of plans and projects included in a CEA, as provided for Scottish Power Renewables (Ref. 1.2). This approach is based on the stage of projects within the planning and development process and allows for different levels of uncertainty and differences in quality of data to be taken into account. The Natural England and JNCC advice use a five-tier approach compared to the advice from the Planning Inspectorate which uses a three-tier approach. The five-tier approach has been used and accepted by regulators for OWF projects and is applied here for marine water quality, ecology and fisheries assessments.

1.1.12 The total number of projects considered in the CEA is presented in Table 1.2. The types of projects considered are discussed further in Appendix 4C.1.

<table>
<thead>
<tr>
<th>Receptor</th>
<th>Description of zone of influence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial fisheries.</td>
<td>The CEA considers the potential for direct effects on commercial fisheries within the GSB arising from impacts of the proposed development and other developments. Indirect effects on the fishery due to effects on fish and shellfish (e.g. impingement) are considered.</td>
</tr>
</tbody>
</table>

Table 1.2: Total number of projects considered in the CEA

<table>
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<th>Tier</th>
<th>Description</th>
<th>Number of projects</th>
</tr>
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<td>Operational projects - no potential for temporal or geographic overlap with the construction or operational phase of the proposed development.</td>
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</tr>
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<td>Tier</td>
<td>Description</td>
<td>Number of projects</td>
</tr>
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<td>------</td>
<td>-----------------------------------------------------------------------------</td>
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<td>Tier 2</td>
<td>Marine infrastructure projects currently under construction and will be operational prior to the construction of proposed development.</td>
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</tr>
<tr>
<td>Tier 3</td>
<td>Marine infrastructure projects that have been consented but for which construction has not yet started.</td>
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<tr>
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<td>Marine infrastructure projects which have been submitted to the relevant regulatory body but not yet determined or projects consented but on hold due to legal challenge or appeal.</td>
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</tr>
<tr>
<td>Tier 5</td>
<td>Marine infrastructure projects which the regulatory body are expecting to be submitted for determination. These projects are excluded from the CEA due to the amount of uncertainty and lack of information to allow for a robust assessment</td>
<td>3</td>
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</tbody>
</table>

1.1.13 Tier 5 projects are included in the initial long list as potential future concerns. However, due to the paucity of information and the high degree of uncertainty regarding these projects, qualitative assessments are made in the CEA. This approach conforms with the guidance within Planning Inspectorate Advice Note 17 (Ref. 1.1) and follows a similar approach used for the Norfolk Vanguard Offshore Wind Farm.

b) Indicative timeline

1.1.14 The CEA has been based on the potential for pressures from other projects to overlap temporally and/or spatially according to the timeline detailed in Section 1.1 of Appendix 4C.1. Cumulative effects assessments are inherently tied to the timelines of the proposed development and other (third party) developments. The CEA is therefore based on the following indicative timelines:

- Peak construction for the development is anticipated to occur in 2028. For the purposes of the marine assessments, the early construction phase for the development is defined as the six year period leading up to the peak construction year in 2028.
- Construction of the beach landing facility (under water noise assessments) is anticipated during the early construction phase (Appendix 4C.1).
- The station is anticipated to be operational by 2033 with both units operational by 2034.
1.1.15 Based on the CEA scoping exercise, assessment of cumulative effects considers the cumulative impact magnitude and the sensitivity of the receptor to the impact. Sensitivity information is based on assessments within Chapter 22 of Volume 2 of the ES.

1.1.16 The conclusions of the CEA and any additional (secondary) mitigation is detailed in Section 1.7.

1.1.17 A shadow Habitats Regulations Assessment (HRA) accompanies the ES and specifically details effects on the designated features of European Marine Sites. This chapter does not consider designated features per se with the exception of marine mammals.

1.1.18 The following assumptions have been made in this assessment:

- The timeline of the of the proposed development and other developments is assumed to be accurate and is applied to determine the potential for temporal overlap of development activities. Whilst development timelines are subject to variation the assessed effects from the proposed development acting cumulatively with other developments, are not anticipated to change significantly if timelines shift by the order of years.

- It is assumed that Tier 4 projects are consented using the current worst-case scenario.

- Due to the timescales involved and difficulty with accurately predicting impacts so far in advance it is assumed that the projects considered will have to undertake a detailed assessment of decommissioning activities nearer the time. For these reasons decommissioning activities associated with the proposed development are scoped out of the CEA.

1.1.19 The following limitations have been identified:

- Project timelines for the developments considered within this chapter are indicative, particularly in regard to third party developments.

- Information published relating to other developments has been considered up to 1st June 2019.
1.2 Water Quality

a) Receptor specific assessment approach

1.2.1 Detailed water quality assessments for the proposed development are assessed in Chapter 21 of Volume 2 of the ES. The ZOI for water quality impacts was determined as being a 10km radius of the proposed development and details were gathered on projects within this area.

1.2.2 Cumulative increase in chemical, biological or thermal pollutants have the potential to exceed Environmental Quality Standards (EQS) or to affect the Water Framework Directive ecological status of coastal waterbodies.

1.2.3 The CEA for water quality considers pressures from all stages of any project where there is potential to overlap with the proposed development.

b) Project screening

1.2.4 Projects with active environmental permits for discharges to surface water and groundwater, including those associated with Sizewell B, were identified as having the potential for cumulative effects (Appendix 4C.1). These pressures could impact marine receptors by the release of contaminants into surface runoff, wastewater effluent and flow through storm drain outfalls. However, these projects have been considered as part of the baseline for water quality and are not considered further in terms of CEA.

1.2.5 The project screening did not identify any projects within the 10km radius that had planned thermal or chlorinated discharges that would impact on EQS levels.

1.2.6 Nutrient/sewage discharges exist but are on-going projects, which form part of the baseline and therefore have been screened out for further consideration in the CEA.

1.2.7 There are active licences along the coast for outfall/sluice/marker works and the RNLI have an existing licence for their annual maintenance works. These have been considered but are relatively small-scale works and not considered to impact water quality and therefore have been screened out for further consideration in the CEA.

1.2.8 The project screening exercise identified four projects that have the potential for a spatial overlap with the ZOI for water quality issues in terms of changes is suspended sediments. These projects are:

- East Anglia One North OWF;
• East Anglia Two OWF;
• Eurolink National Grid Interconnector, and;
• Nautilus National Grid Interconnector.

1.2.9 East Anglia One North OWF and East Anglia Two OWF are Tier 4 projects with DCO applications submitted in October 2019. The OWF locations at 50km and 35km, respectively from the proposed development. The nearest point of the offshore cable corridor is 550m from infrastructure associated with the proposed development and landfall for the East Anglia One North and East Anglia Two export cables would be north of Thorpeness (Plate 1.1). As such the potential impacts from construction and operational maintenance of the offshore cables is considered.

1.2.10 The application for Nautilus National Grid Interconnector is expected by the Planning Inspectorate in Q2 of 2022, by which time construction is anticipated to have begun at the proposed development. At the time of writing the EuroLink National Grid Interconnector is in the very early stages of development with no publicly available information.

1.2.11 Cable laying activities (including trenching), which would cause sediment disturbance resulting in increases in suspended sediment concentrations potentially effecting water quality. A pre-lay grapnel run would proceed the installation of the OWF export cables and could disturb the seabed up to a depth of 3m. At any given location along the cable route the sediment release volumes would be low and confined to near the seabed. A summary of the suspended sediments from the East Anglia One North and East Anglia Two Environmental Statements (Ref. 1.3; 4) is provided:

• In shallow subtidal environments (less than 5m LAT) suspended sediments would peak at 400mg/l. Plumes would be localised, extending to less than 1km from the trenching activity and persist for a few hours.
• In deeper waters (greater than 20m LAT) suspended sediments would typically be at less than 100mg/l, higher concentrations would occur within tens of meters of the trenching.
• Within 180 hours of the activity, sediment plumes would have fully dispersed.

1.2.12 Increases in suspended sediments and sedimentation from the proposed development is also predicted to be short-term and localised with conditions returning to baseline shortly after dredging activities ceasing. Furthermore, the magnitude of impacts is relatively small in comparison to high baseline
concentrations with mean suspended sediment concentrations of ca. 500mg/l at the seabed near the offshore infrastructure and peaks over 2,000mg/l (Chapter 22 of Volume 2 of the ES). As such, significant cumulative effects on water quality are not anticipated should activities resulting in increases in suspended sediment temporally overlap with other developments.

Plate 1.1: Sizewell C proposed infrastructure and construction safety buffer zones relative to indicative cable routes for East Anglia One North and East Anglia Two
1.2.13 Whilst East Anglia Three, Norfolk Vanguard and Norfolk Boreas have the potential for cable laying activities to have a temporal overlap with the proposed development, the planned cable routes would be outside of the ZOI, as such no spatial overlap exists. The landfall for cables associated with East Anglia Three is at Bawdsey, Suffolk, over 20km from the GSB. The proposed landfall site for both Norfolk Vanguard and Norfolk Boreas is Happisburgh South, over 70km to the north of GSB.

1.2.14 Aggregate extraction has the potential to cause sediment disturbance and add to the cumulative effect alongside the proposed development. The nearest aggregate extraction site is over 20km from the ZOI (Area 430) and whilst a sediment plume would be present, screening of the aggregate suspended sediment levels has been assessed as returning to background within 6-7 tidal cycles (Ref. 1.5). In addition, sediment transport is in a predominantly north-south direction and so the plume from Area 430 (located further offshore) would not be expected to reach the GSB and hence interact spatially with activities from the proposed development.

1.2.15 Operational maintenance of the existing cables in the ZOI including for Greater Gabbard OWF and Galloper OWF along with the proposed East Anglia One North and East Anglia Two cables is feasible. There is no scheduled repair or replacement of the export cables for East Anglia One North and East Anglia Two. Periodic inspection of all cables routes is anticipated. During inspection sections of cables would be uncovered, repaired and reburied. Maintenance impacts, including changes in suspended sediments and sedimentation rate changes are assumed to be smaller scale than during construction. Should such impact occur during the operational phase of the proposed development, the only activity with the potential to act cumulatively to increase suspended sediments and sedimentation rate changes would be occasional dredging for the BLF (deliveries anticipated every 5-10 years). The cumulative effects of the assumed small-scale impacts of cable maintenance and the short-term, localised effects from the proposed development are not considered to result in significant water quality effects.

c) Summary

1.2.16 Operationally on-going projects are considered part of the baseline environment for construction of the proposed development. These projects, typically small-scale wastewater treatment operations, were screened out of the CEA. Increases in suspended sediments from dredging activities associated with the proposed development are predicted to be short-term and localised with conditions returning to baseline within days of dredging activities ceasing. No information available regarding other developments
indicates the potential for cumulative impacts to significantly effect water quality within the GSB.
### Table 1.3: Impacts on marine water quality and sediment considered in the CEA

<table>
<thead>
<tr>
<th>Phase</th>
<th>Activity</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Construction (and operation where activities are the same).</strong></td>
<td></td>
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<tr>
<td></td>
<td>Dredging and disposal for infrastructure installation, and navigational dredging for the BLF.</td>
<td>Changes in suspended sediments.</td>
<td>Extent of plumes above 100mg/l during construction activities and maintenance dredging are spatially restricted and short-term, returning to baseline conditions within days of dredging ceasing.</td>
<td>Yes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Minor adverse, Not Significant.</td>
<td>Potential for other developments with similar activities to cause short-term changes in suspended sediments within the GSB.</td>
</tr>
<tr>
<td></td>
<td>Construction discharges of un-ionised ammonia and heavy metals.</td>
<td>Pollution and other chemical changes.</td>
<td>Un-ionised ammonia - GSB. Discharges from the CDO throughout construction phase the EQS exceeded only within 6.3m of CDO (worst-case). When commissioning discharges are added, un-ionised ammonia would be below EQS within 25m.</td>
<td>No. Very localised effects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Negligible, Not significant</td>
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<td></td>
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<td>Metals – GSB. Zinc and chromium discharges only detectable above background and EQS over an area of 0.11ha and 5.49ha of the sea surface, respectively during month long dewatering activities. There was no exceedance at the bed for either metal</td>
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<td></td>
<td></td>
<td></td>
<td>Negligible, Not significant</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Commissioning discharges of tunnelling chemicals, hydrazine and ethanolamine</td>
<td>Synthetic compound contamination</td>
<td>Tunnelling chemicals - GSB. Small areas affected at both seabed and sea surface.</td>
<td>No. Very localised effects and activities with similar pressures are not anticipated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Negligible, Not significant</td>
<td></td>
</tr>
<tr>
<td>Phase</td>
<td>Activity</td>
<td>Pressure</td>
<td>Level assessed, effect conclusion and significance (Sizewell C)</td>
<td>Assessed in CEA context</td>
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<td></td>
<td>Hydrazine – GSB. PNEC exceeded over small area at seabed and surface. <strong>Minor adverse effect</strong>, Not Significant.</td>
<td>Yes. Potential for other developments with similar activities to cause short-term changes in suspended sediments within the GSB.</td>
</tr>
<tr>
<td>Operation</td>
<td>Navigational dredging for the BLF.</td>
<td>Changes in suspended sediments.</td>
<td>Extent of plumes above 100mg/l are spatially restricted and short-term, returning to baseline conditions within days of dredging ceasing. <strong>Minor adverse</strong>, Not Significant.</td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>Thermal discharges</td>
<td>Temperature changes</td>
<td>Temperature changes due to cooling water discharges - GSB. <strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No. Sizewell B forms part of the baseline and no other third-party developments would have similar overlapping impacts.</td>
</tr>
<tr>
<td>Operation</td>
<td>Thermal discharges and chlorinated discharges (TROs and chlorinated by-products).</td>
<td>Temperature changes and synthetic compound contamination</td>
<td>Temperature &amp; TRO and Chlorinate by-products - GSB. The Sizewell C TRO plume is highly stratified, and concentrations exceed the EQS over a sea surface area of 338ha and a seabed area of 2.1ha. For chlorinated by-products (bromoform) areas of PNEC exceedance would be 52ha at the surface and 0.15ha at the seabed. These areas overlap with thermal plume at the seabed, and the surface. <strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No. Effects of TROs from the proposed development and Sizewell B are considered together during the initial assessment of effects. No further discharges are planned within the Zone of Influence (ZOI).</td>
</tr>
<tr>
<td>Phase</td>
<td>Activity</td>
<td>Pressure</td>
<td>Level assessed, effect conclusion and significance (Sizewell C)</td>
<td>Assessed in CEA context</td>
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<tr>
<td></td>
<td>Thermal discharges and discharges of total residual oxidants and hydrazine.</td>
<td>Temperature changes and synthetic compound contamination</td>
<td>Temperature &amp; Hydrazine - GSB. At the seabed, acute and chronic PNECs are predicted to be exceeded over &lt;1ha, while at the sea surface the acute PNEC would be exceeded over a maximum of 17.9ha and the chronic PNEC would be exceeded over 158.1ha. <strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No. Effects of hydrazine from the proposed development and Sizewell B thermal are considered together during the initial assessment of effects. No further discharges are planned within the ZOI.</td>
</tr>
</tbody>
</table>
1.3 Benthic ecology

a) Receptor specific assessment approach

1.3.1 The ZOI for cumulative effects on benthic ecology from the proposed development and third-party developments is the Greater Sizewell Bay (GSB). Benthic receptors found within the GSB are ubiquitous in the southern North Sea communities and impacts from the project alone are largely spatially restricted. The GSB extends from Walberswick in the north to the Coralline Crag outcrops near Thorpeness in the south. The seaward boundary extends to the eastern flank of the Sizewell-Dunwich Bank, so includes the spatial extent of the proposed cooling water infrastructure. The landward limit is delineated by Mean High Water Springs (MHWS).

1.3.2 Based on the results of Benthic Ecology assessments (Chapter 22 of Volume 2 of the ES) the CEA for benthic communities considered the types of impact from all stages of any project where there is the potential to overlap with the proposed development, these are summarised in Table 1.4. Where relevant, assessments consider inter-relationships of the proposed development acting cumulatively with third-party projects, thereby representing the worst-case scenario.
### Table 1.4: Impacts on marine benthos considered in the CEA

<table>
<thead>
<tr>
<th>Phase</th>
<th>Activity Description</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction (and operation where activities are the same).</td>
<td>Heavy plant operations associated with installation of the CDF.</td>
<td>Compaction of substratum.</td>
<td>Population level effects on benthic invertebrates.</td>
<td>No – Very localised impact. A small proportion of any intertidal benthic invertebrate population would be affected, and rapid recovery is expected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Minor adverse effect</em>, Not Significant.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dredging and disposal for infrastructure installation, and navigational dredging for the BLF.</td>
<td>Removal of substratum (extraction).</td>
<td>Population level effects on benthic invertebrates.</td>
<td>No – Limited spatial extent during construction. A small proportion of any subtidal benthic invertebrate population would be affected. Rapid recovery is expected, except where maintenance dredging occurs or where infrastructure is installed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Minor adverse effect</em>, Not Significant.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dredging and disposal for infrastructure installation, and navigational dredging for the BLF.</td>
<td>Changes in suspended sediments.</td>
<td>Population level effects on benthic invertebrates.</td>
<td>Yes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Minor adverse effects</em>, Not Significant.</td>
<td>Potential for other developments with similar activities to cause changes in suspended sediments within the GSB.</td>
</tr>
<tr>
<td></td>
<td>Dredging and disposal for infrastructure installation, and navigational dredging for the BLF.</td>
<td>Sedimentation rate changes.</td>
<td>Population level effects on benthic invertebrates.</td>
<td>Yes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Minor adverse effect</em>, Not Significant, for benthic invertebrates.</td>
<td>Potential for other developments with similar activities to cause changes in sedimentation rates within the GSB.</td>
</tr>
<tr>
<td></td>
<td>Navigational dredging and piling</td>
<td>Underwater noise and vibration.</td>
<td>Population level effects on benthic invertebrates.</td>
<td>No – Localised impact.</td>
</tr>
<tr>
<td>Phase</td>
<td>Activity</td>
<td>Pressure</td>
<td>Level assessed, effect conclusion and significance (Sizewell C)</td>
<td>Assessed in CEA context</td>
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<td></td>
<td></td>
<td></td>
<td><strong>Minor adverse effect</strong>, Not Significant.</td>
<td>A small proportion of any benthic invertebrate population would be affected, and rapid recovery is expected.</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td><strong>Negligible effect</strong>, Not significant</td>
<td>No – Very localised impact. Changes in population densities are expected to be within the range of natural variability.</td>
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<td></td>
<td></td>
<td></td>
<td><strong>Minor adverse effect</strong>, Not Significant.</td>
<td>Yes – Potential for other developments to increase the extent of habitat change within the GSB. Despite the limited spatial extent of infrastructure associated with the proposed development, this pressure is included as a precautionary measure.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No – Very localised impact. Operational and planned offshore wind farms (OWF) are at least 35km away from the proposed development. Moreover, to date, no reports through compliance monitoring indicate the spread of NIS via OWF structures. The inter-relationship between cooling water discharges and climate change on the spread of NIS via infrastructure associated with the proposed development are assessed in Chapter 22 of Volume 2 of the ES.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No – Very localised impact and developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td>Phase</td>
<td>Activity</td>
<td>Pressure</td>
<td>Level assessed, effect conclusion and significance (Sizewell C)</td>
<td>Assessed in CEA context</td>
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</tr>
<tr>
<td></td>
<td>Ionised ammonia from the combined drainage outfall (CDO).</td>
<td></td>
<td><strong>Negligible effects</strong>, Not significant</td>
<td>No – Very localised impact and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td></td>
<td>Construction discharges of heavy metals from the CDO.</td>
<td>Pollution and other chemical changes.</td>
<td><strong>Negligible effects</strong>, Not significant</td>
<td>No – Very localised impact and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td></td>
<td>Commissioning discharges of tunnelling boring machine (TBM) chemicals from the CDO.</td>
<td>Synthetic compound contamination</td>
<td><strong>Negligible effects</strong>, Not Significant</td>
<td>No – Very localised impact and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td></td>
<td>Commissioning discharges of hydrazine from the CDO.</td>
<td>Synthetic compound contamination</td>
<td><strong>Minor adverse effect</strong>, Not Significant, for benthic invertebrates.</td>
<td>No – Localised impact and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td></td>
<td>Operation</td>
<td>Emergence regime changes</td>
<td><strong>Minor adverse effect</strong>, Not Significant, for S. spinulosa.</td>
<td>No – Very localised impact due to future coastal squeeze that would occur after 2053 and only in the absence of mitigation. Other developments with similar pressures are not anticipated.</td>
</tr>
</tbody>
</table>

NOT PROTECTIVELY MARKED
<table>
<thead>
<tr>
<th>Phase</th>
<th>Activity</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
</table>
|       | Cooling water abstraction. | Entrainment | Population level effects on benthic invertebrates and *Sabellaria spinulosa* reef.  
*Minor adverse effect*, Not Significant. | No – Sizewell B forms part of the baseline and other developments with similar pressures are not anticipated. The potential influence of cooling water discharges and climate change on the effects of entrainment are assessed in Chapter 22 of Volume 2. |
|       | Cooling water abstraction. | Impingement | Population level effects on benthic invertebrates.  
*Minor adverse effect*, Not Significant. | No – Sizewell B forms part of the baseline and other developments with similar pressures are not anticipated. The potential influence of cooling water discharges on the effects of impingement is assessed in Chapter 22 of Volume 2. |
|       | Thermal discharges from cooling water system (CWS) outfalls. | Temperature changes. | Population level effects on benthic invertebrates.  
*Minor adverse to minor beneficial effect*, Not Significant, for benthic invertebrates | No – Sizewell B forms part of the baseline and other developments with similar pressures are not anticipated. The potential influence of climate change on the effects of thermal discharges is assessed in Chapter 22 of Volume 2. |
|       | Cooling water discharges of total residual oxidants (TROs) and chlorination by-products from CWS outfalls. | Synthetic compound contamination | Population level effects on benthic invertebrates.  
*Minor adverse effects*, Not Significant. | No – Footprint of pressure does not overlap with that of Sizewell B and other developments with similar pressures are not anticipated. |
### Phase 3: Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling water discharges of hydrazine from CWS outfalls.</td>
<td>Synthetic compound contamination</td>
<td>Population level effects on benthic invertebrates. <strong>Minor adverse effects</strong>, Not Significant.</td>
<td>No – Localised impact (very localised at the seabed) and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td>Discharges of dead and moribund biota from fish recovery and return (FRR) system.</td>
<td>Organic loading</td>
<td>Population level effects on benthic invertebrates. <strong>Minor beneficial effect</strong>, Not Significant.</td>
<td>No – Sizewell B forms part of the baseline and other developments with similar pressures are not anticipated.</td>
</tr>
<tr>
<td>Increases in un-ionised ammonia due to discharges of dead and moribund biota from FRR system.</td>
<td>Pollution and other chemical changes</td>
<td>Population level effects on benthic invertebrates. <strong>Minor adverse effect</strong>, Not Significant, for benthic invertebrates.</td>
<td>No – Sizewell B forms part of the baseline and other developments with similar pressures are not anticipated.</td>
</tr>
</tbody>
</table>
b) Project screening

1.3.3 The project screening exercise identified four projects that have the potential for a spatial overlap with the zone of influence for benthic ecology in terms of changes is suspended sediments, sedimentation rate changes and physical change to another seabed type. These projects are;

- East Anglia One North OWF;
- East Anglia Two OWF;
- Eurolink National Grid Interconnector, and;
- Nautilus National Grid Interconnector.

1.3.4 Eurolink National Grid Interconnector and Nautilus National Grid Interconnector are Tier 5 with limited information available. East Anglia One North OWF and East Anglia Two OWF are Tier 4 projects with DCO applications submitted in October 2019. The OWF locations at 50km and 35km, respectively from the proposed development. The nearest point of the offshore cable corridor is 550m from infrastructure associated with the proposed development and landfall for the East Anglia One North and East Anglia Two export cables would be north of Thorpeness (Plate 1.1). As such the potential impacts from construction and operational maintenance of the offshore cables is considered.

1.3.5 Cable laying activities (including trenching), resulting in increases in SSC and sedimentation from sediment disturbance, and possible changes in habitat (due to cable protection).

1.3.6 A pre-lay grapnel run would precede the installation of the OWF export cables and could disturb the seabed up to a depth of 3m. At any given location along the cable route the sediment release volumes would be low and confined to near the seabed. A summary of the suspended sediments from the East Anglia One North and East Anglia Two Environmental Statements (Ref. 1.3; 4) is provided:

- In shallow subtidal environments (less than 5m depth at Lowest Astronomical Tide) suspended sediments would peak at 400mg/l. Plumes would be localised, extending to less than 1km from the trenching activity and persist for a few hours.

- In deeper waters (greater than 20m depth at Lowest Astronomical Tide) suspended sediments would typically be at less than 100mg/l, higher concentrations would occur within tens of meters of the trenching.
Within 180 hours of the activity, sediment plumes would have fully dispersed.

1.3.7 Increases in suspended sediments and sedimentation from the proposed development is also predicted to be short-term and localised with conditions returning to baseline shortly after dredging activities ceasing. Furthermore, the magnitude of impacts is relatively small in comparison to high baseline concentrations with mean suspended sediment concentrations of ca. 500mg/l at the seabed near the offshore infrastructure and peaks over 2,000mg/l (Chapter 22 of Volume 2 of the ES). Therefore, the potential for significant cumulative effects is low. Changes in suspended sediments and are predicted to have a minor adverse/minor beneficial effect on benthic receptors. Sedimentation rate changes are predicted to have a minor adverse effect on benthic receptors. Effects are not significant. The CEA is consistent with the assessment of effects from the proposed development alone.

1.3.8 Cable installation and protection measures for OWF export cables (e.g. the introduction of hard substrate) have the potential to result in a physical change in seabed type. Furthermore, where export cables reach landfall, intertidal habitat could be altered. In the predominantly soft sediment environment, cable burial through ploughing is anticipated (except for pipeline crossings), thus reducing the requirement for cable protection. The preparation of the seabed for cable laying may permanently change the baseline habitat, however in the dynamic environment the change in habitat is likely to be small and support similar diversity (Ref. 1.3; 4). Landfall for the East Anglia One North and East Anglia Two export cables would be north of Thorpeness. Horizontal directional drilling would be applied, thereby eliminating the requirement for works or impact to the intertidal. As such, significant effects on benthic receptors are not anticipated. Physical change in seabed type is predicted to have a minor adverse effect on benthic receptors and not is not significant. The CEA is consistent with the assessment of effects from the proposed development alone.

1.3.9 Operational maintenance of the existing cables in the ZOI including for Greater Gabbard OWF and Galloper OWF along with the proposed East Anglia One North and East Anglia Two cables is feasible. There is no scheduled repair or replacement of the export cables for East Anglia One North and East Anglia Two. Periodic inspection of all cables routes is anticipated. During inspection sections of cables would be uncovered,

1 Some species, such as Sabellaria spinulosa, may benefit from increases in suspended sediment concentrations and effects may be minor beneficial although not significant. Further details are provided in Chapter 22 of Volume 2 of the ES.
repaired and reburied. Maintenance impacts, including changes in suspended sediments and sedimentation rate changes are assumed to be smaller scale than during construction. Should such impact occur during the operational phase of the proposed development, the only activity with the potential to act cumulatively to increase suspended sediments and sedimentation rate changes would be occasional dredging for the BLF (deliveries anticipated every 5-10 years). The cumulative effects of cable maintenance and the short-term, localised effects from the proposed development are not considered to result in significant effects on benthic receptors.

1.4 Fish

a) Receptor specific assessment approach

1.4.1 The project-level assessment has considered a range of pressures from activities in the construction and operational phases with the potential for significant effects to marine and migratory fish receptors. The assessment of effects has been based upon a tiered approach, with consideration of effects at the following levels:

- The sea-area or regional stock/population level, considering effects on the viability of the stock/population.
- Localised displacement effects, with consideration of fish receptors as prey species for designated features such as seabirds or marine mammals and as fisheries resources.

1.4.2 The approach to the CEA involves considering pressures which could generate potentially significant cumulative effects to fish receptors at a sea-area or regional stock/population level. This approach, therefore, aligns the CEA and the project-specific assessments in Chapter 22 of Volume 2 of the ES.

1.4.3 The CEA considers activities and resulting pressures from the proposed development with the potential to interact with other developments. The CEA considers effects from the proposed development where effects are predicted to be minor or greater. The activities and associated pressures from the proposed development that are considered in a CEA context are provided in Table 1.5.

1.4.4 CEA assessments for fish consider other developments with the potential for significant cumulative underwater noise impacts, notably OWFs, that may be constructed within the same time frame as the BLF. During the operational phase, other developments that will abstract large volumes of seawater with
the potential to cause in-combination effects are also considered cumulatively with the proposed development. For example, the International Council for the Exploration of the Seas stock unit for seabass means the proposed development and Hinkley Point C would effect fish from the same management unit. Accordingly, the cumulative effects of Sizewell C and Hinkley Point C impingement and entrainment are assessed together in a CEA context.
<table>
<thead>
<tr>
<th>Phase</th>
<th>Activity</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Navigational dredging for BLF and construction dredging for intakes, outfalls and CDO.</td>
<td>Suspended sediment concentration increases.</td>
<td>Stock level and local displacement effects. No barrier to the movement of migratory species. Mortality of ichthyoplankton and adults predicted to be minimal but chronic effects and avoidance behaviours could occur. Effects are short lived and not significant for fish populations.</td>
<td>No – Sediment plumes generated during dredging and disposal, are predicted to be transient and would return to background levels several days after dredging.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Minor adverse effect</strong>, Not Significant.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dredging and disposal for cooling water infrastructure.</td>
<td>Sedimentation.</td>
<td>Stock level and local displacement effects. Smothering of eggs and adults (unable to avoid the SSC plume) would occur over a very limited spatial area and natural resuspension rates are high.</td>
<td>No - Areas of ecologically relevant sedimentation are very localised and sedimentation depth rapidly reduces with distance from the disposal site and is subject to natural resuspension.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Negligible effects</strong>, Not Significant.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Navigational dredging for BLF and construction dredging for intakes, outfalls and CDO.</td>
<td>Underwater noise.</td>
<td>Stock level and local displacement effects. ‘Fish with swim bladder or other air cavities to aid hearing’; are considered more acoustically sensitive. Continuous noise sources from dredging produce no instantaneous effects. Mortality (up to 2ha in the worst case) and recoverable injury from cumulative (24-h) exposure are predicted over very small areas. Behavioural responses could result in temporary avoidance behaviours.</td>
<td>No - Continuous noise levels associated with navigational and construction dredging, are predicted to be short-term and localised.</td>
</tr>
<tr>
<td>Phase</td>
<td>Activity</td>
<td>Pressure</td>
<td>Level assessed, effect conclusion and significance (Sizewell C)</td>
<td>Assessed in CEA context</td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>----------</td>
<td>---------------------------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td></td>
<td>Impact piling for BLF</td>
<td>Underwater noise.</td>
<td>Stock level and local displacement effects. ‘Fish with swim bladder or other air cavities to aid hearing’; are considered more acoustically sensitive. Impact piling has the potential to cause localised instantaneous mortality and behavioural responses may occur over wider areas. Cumulative (24-h) exposure is predicted over relatively small areas for mortality and recoverable injury (assuming no avoidance behaviours). <strong>Minor negative effects</strong>, Not Significant.</td>
<td>Yes – Pilling represents the largest confirmed noise impact from the proposed development and has the potential to occur concurrently with other developments.</td>
</tr>
<tr>
<td></td>
<td>Hypothetical unexploded ordnance (UXO) clearance.</td>
<td>Underwater noise.</td>
<td>Should a UXO be identified on site, a full assessment would be completed considering the exact UXO specifications and location. Alternative disposal methods or relocation would be considered as well as appropriate management actions and mitigation measures in order to minimise the risk of potential impacts. <strong>Minor adverse effect</strong>, Not Significant.</td>
<td>No – UXO modelling is based on a hypothetical scenario and whilst other developments may also include UXO clearance the details of clearance approaches and any mitigation is not sufficient at this stage to allow a robust assessment.</td>
</tr>
<tr>
<td></td>
<td>Commissioning discharges: Hydrazine.</td>
<td>Synthetic compound contamination.</td>
<td>Stock level and local displacement effects. No barrier to the movement of migratory species. Discharges at ecologically relevant concentrations are predicted to be highly localised. <strong>Minor adverse effects</strong>, Not Significant.</td>
<td>No - No further hydrazine discharges are planned within the ZOI.</td>
</tr>
</tbody>
</table>
### Phase Activity

**Operation.**

- **Cooling water discharge via cooling water outfalls.**
  - Pressure: Thermal plume and temperature changes (absolute water temperature and thermal uplift).
  - Level assessed, effect conclusion and significance (Sizewell C):
    - Stock level and local displacement effects, considering absolute temperature change and thermal uplift.
    - There is potential for avoidance behaviours in close proximity to the discharge. Behavioural avoidance would reduce the potential for acute effects. However, there is also the potential for attraction of warmed areas for some of the species, capable of exploiting the heated cooling water. Thermal discharges may result in localised changes in physiology and behaviour.
    - No barrier to the movement of migratory species are predicted.
    - **Minor adverse effects**, Not Significant.
  - Assessed in CEA context:
    - No - Sizewell B thermal discharges forms part of the baseline. Thermal plumes from the proposed development and Sizewell B are considered together during the initial assessment of effects. No further thermal discharges are planned within the ZOI.

- **Cooling water discharge via cooling water outfalls.**
  - Pressure: Chemical discharges including TROs, chlorinated by-products and hydrazine.
  - Level assessed, effect conclusion and significance (Sizewell C):
    - Stock level and local displacement effects.
    - No barrier to the movement of migratory species.
    - Behavioural avoidance may reduce the potential for acute effects in adult life stages, which would be limited to a very small spatial area. TRO discharges may result in localised chronic effects and/or behavioural avoidance.
    - **Minor adverse effects**, Not Significant.
  - Assessed in CEA context:
    - No – The discharge plumes for Sizewell B and the proposed development are spatially distinct. Impacts for Sizewell B form part of the baseline and no other developments are expected to contribute to these discharges.

- **Cooling water abstraction via Impingement.**
  - Pressure: Impingement is assessed in terms of losses of the relevant stock and/or fisheries unit.
  - Level assessed, effect conclusion and significance (Sizewell C):
    - Impingement is assessed in terms of losses of the relevant stock and/or fisheries unit.
  - Assessed in CEA context:
    - Yes – Impingement from the proposed development has the
<table>
<thead>
<tr>
<th>Phase</th>
<th>Activity</th>
<th>Pressure</th>
<th>Level assessed, effect conclusion and significance (Sizewell C)</th>
<th>Assessed in CEA context</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cooling water intakes.</td>
<td>Impingement losses are predicted to have a negligible effect on stock viability. However due to the long-term nature of the impacts and the predicted fish mortality <em>negligible to minor adverse effects</em> are concluded depending on the specific species tested. Not Significant.</td>
<td>potential to occur concurrently with other developments.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooling water abstraction via cooling water intakes.</td>
<td>Entrainment. The loss of ichthyoplankton and small juvenile fish during entrainment is predicted to have a negligible effect on stock viability.</td>
<td>Yes – Entrainment from the proposed development has the potential to occur concurrently with other developments.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Negligible effect</em>, Not Significant.</td>
<td></td>
</tr>
</tbody>
</table>
b) Project screening for construction impacts

i. Underwater noise from impact piling

1.4.5 The timeline for the proposed development indicates there is the potential for piling activities associated with the indicative construction window of the BLF to occur simultaneously with offshore wind farm (OWF) projects. The worst-case temporal overlap of piling with the BLF includes the following OWFs:

- Hornsea Project Two OWF;
- Dogger Bank Creyke Beck A OWF;
- Dogger Bank Teeside A OWF;
- East Anglia Three OWF, or;
- Norfolk Vanguard OWF.

1.4.6 Norfolk Vanguard and East Anglia Three OWFs have the potential to overlap with piling activities at the proposed development but would not temporally overlap each other (Section 1.5; Table 1.15).

1.4.7 Two Tier 4 projects, the Thanet Extension OWF and Hornsea Project Three OWF, may also occur during the same period. These projects are screened in for further assessment.

1.4.8 East Anglia ONE North and East Anglia TWO OWFs are Tier 4. Offshore construction, including piling, is anticipated 2026-2028 for East Anglia ONE North and 2025-2027 for East Anglia TWO. Piling is not anticipated to overlap with the construction of the BLF in the early construction phase. These projects are screened out for further assessment.

Unexploded ordnance

1.4.9 The detonation and clearance of hypothetical unexploded ordnance (UXO) has been considered for fish receptors within the ES of the proposed development (Chapter 22 of Volume 2 of the ES), thereby encompassing the full suite of potential auditory impacts. However, to-date UXOs have not been identified on site. Should an UXO be identified a full assessment would be completed considering the exact UXO specifications and location in relation to site-specific factors such as proximity to existing nuclear infrastructure. Alternative disposal methods or relocation would be considered as well as appropriate mitigation measures in order to minimise the risk of potential impacts. Given the uncertainty regarding the very
presence of UXOs and mitigation/management scenarios, impact piling was used to inform underwater assessment scenarios.

1.4.10 It is noted that a Marine licence (MLA/2019/00191) for Galloper UXO detonation has been issued. Hence there is the potential for cumulative effects should UXO clearance and detonation be required during the proposed development. However, effects from Galloper UXO detonation and hypothetical UXO clearance from the proposed development cannot be assessed because full details of the planned activities are not currently available. Should UXOs be identified at the proposed development, an assessment of the potential effects of different detonation strategies and mitigation measures would be undertaken.

c) Construction phase CEA – Impact Piling

i. Sensitivity of receptors

1.4.11 Table 1.6 summarises the receptors of interest, grouped into hearing categories of: Category 1 ‘fish with swim bladder or other air cavities to aid hearing; Category 2 ‘fish with swim bladder that does not aid hearing’; and Category 3 ‘fish without a swim bladder’.

<table>
<thead>
<tr>
<th>Category</th>
<th>Receptors</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Fish with swim bladder or other air cavities to aid hearing.</td>
<td>Atlantic herring.</td>
</tr>
<tr>
<td></td>
<td>European sprat.</td>
</tr>
<tr>
<td></td>
<td>Allis and Twaite shad.</td>
</tr>
<tr>
<td></td>
<td>Anchovy</td>
</tr>
<tr>
<td></td>
<td>European cod.</td>
</tr>
<tr>
<td>(2) Fish with swim bladder that does not aid hearing.</td>
<td>European seabass.</td>
</tr>
<tr>
<td></td>
<td>Whiting</td>
</tr>
<tr>
<td></td>
<td>Thin-lipped grey mullet.</td>
</tr>
<tr>
<td></td>
<td>European smelt*</td>
</tr>
<tr>
<td></td>
<td>Sea trout.</td>
</tr>
<tr>
<td></td>
<td>Atlantic salmon.</td>
</tr>
<tr>
<td></td>
<td>European eel.</td>
</tr>
<tr>
<td>(3) Fish without a swim bladder.</td>
<td>Mackerel</td>
</tr>
<tr>
<td></td>
<td>Horse mackerel.</td>
</tr>
<tr>
<td></td>
<td>Dover sole (swimbladder larval stages).</td>
</tr>
</tbody>
</table>
### Table 1.7

<table>
<thead>
<tr>
<th>Category</th>
<th>Receptors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptors</td>
<td></td>
</tr>
<tr>
<td>European plaice.</td>
<td></td>
</tr>
<tr>
<td>Dab</td>
<td></td>
</tr>
<tr>
<td>European flounder.</td>
<td></td>
</tr>
<tr>
<td>Sand gobies (swimbladder larval stages).</td>
<td></td>
</tr>
<tr>
<td>Thornback ray.</td>
<td></td>
</tr>
<tr>
<td>Tope</td>
<td></td>
</tr>
<tr>
<td>River and sea lamprey.</td>
<td></td>
</tr>
</tbody>
</table>

1.4.12 Category 1 receptors (‘fish with swim bladder or other air cavities to aid hearing’) are regarded as acoustically sensitive. Within this category, nursery grounds of cod, herring and sprat are considered to intersect the proposed development. Whiting, a Category 2 receptor, is considered less acoustically sensitive than, herring and sprat. Category 3 receptors (‘fish without a swim bladder’) are not considered acoustically sensitive. Within Category 3, there are nursery grounds of Dover sole, plaice, thornback ray, and mackerel, as well as spawning grounds of Dover sole and plaice intersecting the proposed development.

1.4.13 For the proposed development, Table 1.7 shows the predicted impact ranges applicable to the three hearing categories, based on modelling for the worst-case hammer energy (200kJ). It should be noted that a 90kJ hammer energy is anticipated to be applied for the installation of BLF piles (Chapter 22 of Volume 2 of the ES), however, to encompass the worst-case engineering scenario results for a precautionary 200kJ assessment are applied in the fish CEA.

1.4.14 Table 1.8 shows the predicted behavioural effect zones for impact piling, applicable to the three hearing categories for the worst-case hammer energy (200kJ). The applied threshold for behavioural effects is based on observations of a startle response in sprat (135 dB re 1 µPa2s) and in mackerel (142 dB re 1 µPa2s). In the case of ‘fish with swim bladder or other air cavities to aid hearing’ and for ‘fish with a swim bladder that does not aid hearing’, behavioural effects are predicted at a range of 5.60km (3,816ha) from piling based on the 200kJ hammer energy scenario (Table 1.8). Behavioural effects from piling at proposed development, are likely to be short-lived and do not necessitate displacement from the ensonified area.

1.4.15 The spatial ‘footprint’ from the combined piling at the proposed development and up to six OWFs being pilled consecutively, is predicted to affect a small area of the expansive spawning and nursery grounds for the key taxa. In the case of herring, an acoustically sensitive species, the closest known large-
scale spawning ground (Downs herring) from the proposed development is beyond the ZOI of the proposed development, and it is located towards the English Channel.

1.4.16 It is predicted that there would be no changes to fish sensitivity with the proposed development and OWFs combined. Therefore, the sensitivity assessment in Chapter 22 of Volume 2 of the ES is applied. Accordingly, Category 1 receptors (‘fish with swim bladder or other air cavities to aid hearing’) are predicted to have a sensitivity of Medium. While the sensitivity of Category 2 receptors (‘fish with swim bladder that does not aid hearing’) and Category 3 (‘fish without a swim bladder’) is predicted to be Low.

Table 1.7: Auditory effect zones areas (expressed in hectares) and/or auditory effect zone maximum ranges (expressed in metres) for the three hearing categories in fish, based on a 200kJ piling hammer energy. The grey shaded boxes indicate that TTS is not defined for instantaneous noise exposure for fish. (From: Appendix 22L)

<table>
<thead>
<tr>
<th>Hearing category</th>
<th>Threshold</th>
<th>Instantaneous</th>
<th>Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Fish with swim bladder or other air cavities to aid hearing.</td>
<td>Mortality.</td>
<td>66m.</td>
<td>206m; 8ha.</td>
</tr>
<tr>
<td></td>
<td>Recoverable injury.</td>
<td>66m.</td>
<td>303m; 16ha.</td>
</tr>
<tr>
<td></td>
<td>Temporary Threshold Shift.</td>
<td></td>
<td>1,955m; 443ha.</td>
</tr>
<tr>
<td>(2) Fish with swim bladder that does not aid hearing.</td>
<td>Mortality.</td>
<td>66m.</td>
<td>158m; 5ha</td>
</tr>
<tr>
<td></td>
<td>Recoverable injury.</td>
<td>45m.</td>
<td>303m; 16ha</td>
</tr>
<tr>
<td></td>
<td>Temporary Threshold Shift.</td>
<td></td>
<td>1.96km; 443ha</td>
</tr>
<tr>
<td>(3) Fish without a swim bladder.</td>
<td>Mortality.</td>
<td>40m.</td>
<td>&lt;25m.</td>
</tr>
<tr>
<td></td>
<td>Recoverable injury.</td>
<td>40m.</td>
<td>111m; 2ha.</td>
</tr>
<tr>
<td></td>
<td>Temporary Threshold Shift.</td>
<td></td>
<td>1,955m; 443ha.</td>
</tr>
</tbody>
</table>

Table 1.8: Behavioural effect zones for impact piling, with the area (expressed in hectares) and maximum range (expressed in metres) are shown. The applied threshold is based on observations of a startle
response in sprat (135 dB re 1 μPa²s) and in mackerel (142 dB re 1 μPa²s). (From: Appendix 22L)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Threshold</th>
<th>Behavioural zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact piling BLF (200kJ).</td>
<td>135 dB. Applicable to Atlantic herring, shad, sprat, seabass; cod, whiting, mullet.</td>
<td>5,597m. 3,816ha.</td>
</tr>
<tr>
<td></td>
<td>142 dB. Applicable to makerel, horse mackerel, flatfish e.g. Dover sole; sand gobies, tope; and, thornback ray.</td>
<td>3,104m; 1,093ha.</td>
</tr>
</tbody>
</table>

ii. Magnitude of impact

1.4.17 The proposed development is closest to the Thanet Extension and East Anglia Three OWFs (both approximately 80km away). Hornsea Project Two and Three are >180km from the proposed development, and then the furthest OWFs are Dogger Bank Creyke Beck A and Dogger Bank Teesside A, at approximately 270km and >300km, respectively.

1.4.18 At a stock/population level, there may be an increased spatial effect, should construction occur concurrently, or increased temporal effects if construction occurs sequentially. However, piling would be intermittent and short-term, with a limited period of piling in the construction phase of the proposed development and the OWFs (Hornsea Project Two; East Anglia Three; Dogger Bank Creyke Beck A; Dogger Bank Teesside A; Thanet Extension, and Hornsea Project Three). The combined impact magnitude is assessed as Low.

iii. Cumulative Effect Significance

1.4.19 In Chapter 22 of Volume 2 of the ES, a minor adverse effect is predicted for fish receptors in Category 1, 2 and 3. Effects of the proposed development alone are not considered significant at the sea area and regional stock/population levels.

1.4.20 Considering the installation of 12 piles for the proposed development and the associated limited modelled effect zones, the impact magnitude and resulting effects in-combination with the six OWFs, is predicted to remain as minor adverse effect. Hence, no significant cumulative effects are predicted at the stock/population level.
d) Project screening for operational impacts

i. Seawater Abstraction: Entrainment and Impingement

1.4.21 Entrainment and impingement of adult and juvenile fish and ichthyoplankton can result from seawater abstraction. Information on licenced seawater abstraction was obtained by consulting the Environment Agency for data in England.

1.4.22 A summary is given in Appendix 4C.1 Section 1.7 for all permitted developments within 10km of the English coastline. Power stations in abstracting seawater from the North-East Atlantic and North Sea are given in Appendix 4C.1 Section 1.8. Based on this information, the baseline consists of licensed seawater abstraction for one of six purposes:

- agriculture and aquaculture;
- amenity;
- water supply;
- environmental (wetland support projects);
- industrial, commercial and public services; and,
- energy (biomass, coal-fired, gas, biomass and nuclear).

1.4.23 There are a substantial number of sites around the UK, including 66 (non-nuclear) developments within 10km of the English coast, licensed by the Environment Agency to abstract seawater (Appendix 4C.1 Section 1.7). Variations in daily/annual abstraction volumes are apparent.

1.4.24 The available data on developments licensed for water abstraction was interrogated. Developments abstracting >1 million m³ water per day, equating to approximately 10% of the proposed development when functioning at full capacity (approximately 11.4x10⁶m³) been identified in Table 1.9.

1.4.25 Licenced operational seawater abstraction activities fall into Tier 1 of the screening CEA stage (i.e. consented and operational) and form part of the existing baseline against which impacts of the proposed development have been assessed and are, therefore, not considered further. These include:

- industrial, Commercial and Public Services: Marchwood station (River Test, Southampton Water), and;
• production of energy: Hartlepool, Great Yarmouth power station, Sizewell B, Dungeness B, Hunterston B, Heysham; Hinkley Point B; South Humber Bank power station, Hartlepool power station and Medway power station, and the Isle of Grain.

1.4.26 Existing UK nuclear power stations shown in Table 1.9, are expected to have ceased operations by the time the proposed development is operational in 2033 with the exception of Sizewell B. Therefore, the existing impingement and entrainment effects would be removed.

1.4.27 Planned nuclear power stations with the potential to have operational overlap with the proposed development include:

• Hinkley Point C, a Tier 2 project currently in development, located >350km from the proposed development.

• Wylfa Newydd on Anglesey North Wales, a Tier 4 project currently on hold by the developer.

• Bradwell B in Maldon Essex, a Tier 5 development located 90km from the proposed development. The project is currently in the process of carrying out technical assessment work in order to inform emerging proposals. Based on the current status of the proposed project, Bradwell B is not considered in the CEA.

1.4.28 The main station for consideration is Hinkley Point C, which is consented and is in the construction phase (Tier 2).

1.4.29 The water pumping rate for Hinkley Point C is 132m$^3$/s (11.4 million m$^3$ per day).

1.4.30 All details presented are based on the most up-to-date information for each project at the time of writing.
Table 1.9: Summary of UK power stations abstracting seawater and screening of project phases for the cumulative effect assessment. (bold text = temporal overlap with the proposed development)

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Power station type</th>
<th>Status</th>
<th>Tier</th>
<th>Phase Screened into CEA</th>
<th>Construction</th>
<th>Operation and Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medway</td>
<td>Natural gas</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2025(^2).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Humber Bank, Grimsby</td>
<td>Natural gas</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2027(^2).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marchwood, River Test</td>
<td>Gas-fired combined cycle power</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2039(^2) and forms part of the current baseline.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shoreham</td>
<td>Natural gas</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2032(^2).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hunterston B</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2023.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torness</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2030.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hartlepool</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2024.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sizewell B</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; forms part of the baseline. End of generation expected 2035, but potential extension up to 2055 (worst-case assessment scenario).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heysham 1</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2024.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heysham 2</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; End of generation expected 2030.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dungeness B</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No; Estimated decommissioning in 2028.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^2\) End of generation based on assumption of 30-year life span of gas-fired power station in UK.
<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Power station type</th>
<th>Status</th>
<th>Tier</th>
<th>Phase Screened into CEA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td>Hinkley B</td>
<td>Nuclear</td>
<td>Operational</td>
<td>1</td>
<td>No</td>
</tr>
<tr>
<td>Hinkley C</td>
<td>Nuclear</td>
<td>Construction</td>
<td>2</td>
<td>No</td>
</tr>
<tr>
<td>Wylfa Newydd</td>
<td>Nuclear</td>
<td>Examination in progress, but</td>
<td>4</td>
<td>Unknown at time of writing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>projects on hold by developer.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
e) Operational phase CEA - Entrainment

1.4.31 The operation of Hinkley Point C (HPC) has the potential to act cumulatively with the proposed development in relation to entrainment of fish eggs, larvae and juveniles.

1.4.32 The location of the proposed development is on the coast of the southern North Sea, while HPC is located on the south coast of Inner Bristol Channel.

1.4.33 A review of the ichthyoplankton recorded in the BEEMS Comprehensive Entrainment Monitoring Programme (CEMP) at Sizewell B, indicates that seabass is the only taxa where the stock encompasses the Central and southern North Sea, as well as the Irish Sea, English Channel, Bristol Channel, and Celtic Sea. Accordingly, seabass ichthyoplankton could be exposed to entrainment at both stations and so an assessment is made.

i. Sensitivity of receptors

1.4.34 For the operation of HPC and the proposed development, the assessment of the proposed development is applied (Chapter 22 of Volume 2 of the ES). Sensitivity of seabass ichthyoplankton is Not Sensitive.

ii. Magnitude of impact

1.4.35 It is generally considered that the higher the volume of seawater pumped through the power station the higher the number of passively transported biota that are entrained. The rate of water abstraction at the proposed development (132m³/s) would be the same as HPC (132m³/s). Water abstraction and resulting entrainment would occur during the operational lifetime of the proposed development and HPC. The combined impact magnitude is Medium.

iii. Cumulative effect significance

1.4.36 For the proposed development alone, the predicted entrainment losses of seabass ichthyoplankton are negligible (Appendix 22G of Volume 2 of the ES). The predicted entrainment loss is considered ecologically negligible when considered against the natural variability in recruitment and the natural mortality of the species (Appendix 22G of Volume 2 of the ES).

1.4.37 It stands to reason that the combined entrainment of seabass ichthyoplankton from the proposed development and HPC, is unlikely to increase the significance of the effect. Negligible effects are concluded and no significant cumulative effects to the stocks/populations are predicted.
f) Operational phase CEA – Impingement at stock/population level

1.4.38 The operation of the proposed development and HPC have the potential to act cumulatively, in relation to impingement of juvenile and adult fish.

1.4.39 Impingement can be considered a form of fishing (harvesting), but of lower selectivity and much lower impact magnitude. To have a negligible impact on a fish stock, the predicted total anthropogenic harvest rate must be less than the value whereby the stock can replace itself on a year to year basis (Appendix 22I of Volume 2 of the ES).

1.4.40 For well monitored stocks (data-rich stocks) quantitative stock assessment can be carried out. This produces spawning stock biomass (SSB) reference points, below which a stock is either at risk of becoming unsustainable or is in an unsustainable condition, together with limits on the maximum harvest rate.

1.4.41 It is useful to consider a 1% negligible effects threshold applied to impingement assessment for the proposed development alone, in the context of sustainable harvest rates for data-rich stocks, which in many cases, are much greater than 20% (Appendix 22I of Volume 2 of the ES).

1.4.42 Fish stocks are subject to considerable annual variability due to highly variable levels of recruitment, food availability and predation pressure. A precautionary level of 1% is much less than the natural variability of any species at Sizewell, which the ecosystem is adapted to and, hence, would have no significant effects on predator-prey relationships (Appendix 22I of Volume 2 of the ES).

1.4.43 Moreover, it should be recognised that fish stocks experience natural variability, as evident in some the International Council for the Exploration of the Sea advice, displayed in Table 1.10, for European seabass and eel.

1.4.44 The assessment is undertaken with the inclusion of the FRR and low-velocity site entry (LVSE) intake heads (embedded mitigation), at the proposed development. The mitigation is described fully in Chapter 22 of Volume 2 of the ES for the proposed development.

Table 1.10: Available International Council for the Exploration of the Seas stock advice in 2017-2018 for European seabass and eel

<table>
<thead>
<tr>
<th>Taxa</th>
<th>Stock advice where available</th>
</tr>
</thead>
<tbody>
<tr>
<td>European seabass.</td>
<td>“Spawning–stock biomass (SSB) has been declining since 2005 and is now below B\text{lim.} Fishing mortality (F) has increased over the time-series, peaking in 2013 before a rapid decline to below F\text{MSY.} Recruitment was estimated to be poor since 2008, with the exception</td>
</tr>
</tbody>
</table>


i. Receptor screening

1.4.45 Key taxa recorded in the Sizewell B Comprehensive Impingement Monitoring Programme (CIMP) dataset were related to the applicable stock unit where information was available. Information on stock units for taxa assessed for impingement losses at Hinkley Point C (Ref. 1.8) were also consulted. It was then possible to identify the stocks spanning the southern North Sea, the Channel and into the Bristol Channel, Irish and Celtic Seas, hence stocks coinciding geographically with the proposed development and HPC (Table 1.11; Plate 1.2). As a result, the following taxa were identified and have been screening into the CEA:

- seabass (*Dicentrarchus labrax*);
- thin-lipped grey mullet (*Liza ramada*); and,
- European eel (*Anguilla anguilla*).

1.4.46 It is unlikely there would be impingement of taxa from the North Sea stocks at Hinkley Point C and the proposed development combined, given the geographic separation of the stocks and stations. Therefore, the relevant taxa are screened out from the CEA (Plate 1.2; Table 1.12).

1.4.47 There are taxa where very limited impingement occurred at Sizewell B. Where limited impingement is predicted for taxa at the proposed development alone, negligible effects are concluded. This applies to tope, smelt, sea lamprey, Allis shad, sea trout and salmon (Table 1.13). These taxa are screened out from the CEA.

<table>
<thead>
<tr>
<th>Taxa</th>
<th>Stock advice where available</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Eel</td>
<td>“Indices of both glass and yellow eel recruitment strongly declined from 1980 to about 2010 and have remained at a low level since. The annual recruitment of glass eel to European waters in 2018 is 2.1% of the 1960–1979 level in the “North Sea” series and 10.1% in the “Elsewhere Europe” series. The annual recruitment of young yellow eel to European waters in 2018 was 29% of the 1960–1979 level” (Ref. 1.7).</td>
</tr>
<tr>
<td></td>
<td>of the 2013 and 2014 year-class estimates which show average recruitment” (Ref. 1.6).</td>
</tr>
</tbody>
</table>
Table 1.11: Taxa, stock unit and rationale for screening into the cumulative effect assessment at stock level screened into assessment.

<table>
<thead>
<tr>
<th>Taxa</th>
<th>Stock unit</th>
<th>Screened in /out of CEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>European seabass.</td>
<td>Divisions 4.b-c, 7.a, and 7.d-h (Central and southern North Sea, Irish Sea, English Channel, Bristol Channel and Celtic Sea).</td>
<td>In</td>
</tr>
<tr>
<td>(Dicentrarchus labrax)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Liza ramada)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European eel.</td>
<td>Europe and North Africa.</td>
<td>In</td>
</tr>
<tr>
<td>(Anguilla anguilla)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Plate 1.2: International Council for the Exploration of the Seas stock unit areas for cumulative effects of Hinkley Point C and Sizewell C
<table>
<thead>
<tr>
<th>Taxa</th>
<th>Stock unit</th>
<th>Screened in/out of CEA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dover sole (Solea solea)</td>
<td>Subarea 4 (North Sea).</td>
<td>Out</td>
</tr>
<tr>
<td>Dab (Limanda limanda)</td>
<td>Subarea 4 and Division 3.a (North Sea, Skagerrak and Kattegat).</td>
<td>Out</td>
</tr>
<tr>
<td>European flounder (Platichthys flesus)</td>
<td>Subarea 4 and 3.a (North Sea and Skagerrak and Kattegat).</td>
<td>Out</td>
</tr>
<tr>
<td>European plaice (Pleuronectes platessa)</td>
<td>Subarea 4 IV and Subdivision 20 (North Sea and Skagerrak).</td>
<td>Out</td>
</tr>
<tr>
<td>Sand goby (Pomatoschistus spp)</td>
<td>Not defined.</td>
<td>Out</td>
</tr>
<tr>
<td>European sprat (Sprattus sprattus)</td>
<td>Subarea 4 (North Sea).</td>
<td>Out</td>
</tr>
<tr>
<td>Whiting (Merlangius merlangus)</td>
<td>Subarea 4, Division 7.d (North Sea, Eastern Channel).</td>
<td>Out</td>
</tr>
<tr>
<td>Atlantic cod (Gadus morhua)</td>
<td>Subarea 4 and Subdivisions 7.d and 20 (North Sea, Eastern Channel, Skagerrak and Kattegat).</td>
<td>Out</td>
</tr>
<tr>
<td>Thornback ray (Raja clavata)</td>
<td>Subarea 4 and Divisions 3.a and 7.d (North Sea, Skagerrak, Kattegat and eastern English Channel).</td>
<td>Out</td>
</tr>
<tr>
<td>Atlantic herring (Clupea harengus)</td>
<td>Subarea 4 and Divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, Eastern Channel).</td>
<td>Out</td>
</tr>
</tbody>
</table>
### Table 1.13: Taxa, stock unit and rationale for screening out of the cumulative effect assessment (impingement risk).

<table>
<thead>
<tr>
<th>Taxa</th>
<th>Stock unit</th>
<th>Screened in/out of CEA</th>
<th>Occurrence of stock unit and rationale for screening decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchovy (Engraulis encrasicolus)</td>
<td>Given as ‘Northerly anchovy’.</td>
<td>Out</td>
<td>Impingement at the proposed development alone, with full mitigation, is predicted to take 530 individuals or 0.04t of river lampreys. This equates to 0.07% of the estimated 2018 lamprey run in the Humber catchment. The Southern North Sea population of river lamprey are probably one stock. Therefore, no potential for cumulative effects is predicted with HPC. Spawning is thought to take place in the Ouse in the UK, in the Scheldt in the Netherlands where the adult population is estimated to be in the 100,000s (Ref. 1.9), and in other European rivers that drain into the North Sea.</td>
</tr>
<tr>
<td>Mackerel (Scomber scombrus)</td>
<td>Subareas 1–8 and 14, and in Division 9.a (the Northeast Atlantic and adjacent waters).</td>
<td>Out</td>
<td>Given the genetic information on the smelt at Sizewell, it is probable that the smelt impinged are from multiple locations on the east coast of the UK. As well as probably from European estuaries in at least Belgium, the Netherlands and Germany (Appendix 22I of Volume 2 of the ES). Screened out from assessment.</td>
</tr>
<tr>
<td>European smelt (Osmerus eperlanus)</td>
<td>Not defined. But includes the East Anglian coast and rivers on the European coast from the Elbe to the Scheldt.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
<tr>
<td>Tope (Galeorhinus galeus)</td>
<td>North East Atlantic.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
<tr>
<td>River lamprey (Lampetra fluviatilis)</td>
<td>Humber catchment.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
<tr>
<td>Sea lamprey (Petromyzon marinus)</td>
<td>Not defined.</td>
<td>Out</td>
<td>Impingement at the proposed development alone, with full mitigation, is predicted to take 530 individuals or 0.04t of river lampreys. This equates to 0.07% of the estimated 2018 lamprey run in the Humber catchment. The Southern North Sea population of river lamprey are probably one stock. Therefore, no potential for cumulative effects is predicted with HPC. Spawning is thought to take place in the Ouse in the UK, in the Scheldt in the Netherlands where the adult population is estimated to be in the 100,000s (Ref. 1.9), and in other European rivers that drain into the North Sea.</td>
</tr>
<tr>
<td>Taxa</td>
<td>Stock unit</td>
<td>Screened in /out of CEA</td>
<td>Occurrence of stock unit and rationale for screening decision</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------</td>
<td>-------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Allis shad ((Alosa alosa))</td>
<td>Garonne.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
<tr>
<td>Twaiite shad ((Alosa fallax))</td>
<td>Not defined but includes the River Elbe and Belgian river Scheldt. A separate spawning population on the river Weser has not been included in the assessment.</td>
<td>Out</td>
<td>The populations on the east coast are genetically distinct from the HPC populations *(Appendix 22I of Volume 2 of the ES)*. Therefore, no potential for cumulative effects.</td>
</tr>
<tr>
<td>Sea trout ((Salmo trutta))</td>
<td>Not defined.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
<tr>
<td>Salmon ((Salmo salar))</td>
<td>North Atlantic.</td>
<td>Out</td>
<td>Very limited impingement predicted for the proposed development, thus negligible cumulative effects predicted.</td>
</tr>
</tbody>
</table>
ii. Sensitivity of receptors

1.4.48 Changes in the sensitivity of receptors during the combined operation of Hinkley Point C and the proposed development are not predicted. As such, the sensitivity assessment for the proposed development (Chapter 22 of Volume 2 of the ES) is applied to the following taxa:

- seabass - *Low* sensitivity;
- thin-lipped grey mullet - *Not Sensitive*, and;
- European eel - *Low* sensitivity.

Impingement assessment (with embedded mitigation)

1.4.49 The assessment is made with the FRR systems and LVSE intake heads fitted, as embedded mitigation at the proposed development, and as mitigation at Hinkley Point C. High survival rates from the presence of the FRR embedded mitigation are predicted for robust, demersal/epi-benthic species like the seabass, mullet and eel (Chapter 22 of Volume 2 and Appendix 22I of the ES). The combination of the FRR systems and LVSE intake heads, are considered to have a 78.9% effectiveness in reducing impingement losses (compared to unmitigated losses) for seabass and mullet. This value is higher at 92.1% for European eel (Chapter 22 of Volume 2 and Appendix 22I).

iii. Magnitude of impact

1.4.50 Impingement assessments are specifically designed to account for the magnitude of impact (annual abstraction) and sensitivity of the impinged species (age-dependent mortality). Given these assessment criteria are intrinsically linked they are considered together.

iv. Cumulative effect significance

Seabass impingement with embedded mitigation

1.4.51 As shown in Table 1.14, the predicted impingement of seabass (as a % SSB) is 0.28% for the proposed development (Chapter 22 of Volume 2 of the ES and Appendix 22I) and 0.011% for HPC (Ref. 1.8).

1.4.52 Seabass are not uniformly distributed immediately offshore from Sizewell with evidence suggesting juvenile seabass are attracted to the warm water effluents of Sizewell B in Winter when seabass are most commonly impinged at Sizewell B. Seabass surveys identified that 95% of seabass were
recorded inside the Sizewell-Dunwich Bank. Once operational, the proposed development would generate a thermal plume offshore, however, in the deeper water the thermally buoyant plume has reduced interaction with the seabed but would enhance the warming effect within the Sizewell-Dunwich Bank. Therefore, should the distribution of seabass remain similar to that currently observed, impingement predictions represent a marked overestimate. Accounting for the greater distribution of seabass in the inshore waters away from the Sizewell C intakes, impingement predictions are estimated to be as low as 0.03% of SSB. Further details are provided in Appendix 22I of Volume 2 of the ES.

1.4.53 It is acknowledged SSB values for different years, were incorporated into the seabass calculations for the respective stations. Nonetheless, the combined value of predicted impingement loss indicates the value is below the proposed 1% threshold for significant effects. With consideration of the current status of the seabass stock (Table 1.10), minor adverse effects are predicted to seabass stocks. Effects are not significant for stock sustainability.

Thin-lipped grey mullet impingement with embedded mitigation

1.4.54 As shown in Table 1.14, the predicted impingement of thin-lipped grey mullet stock for the proposed development is considered to be 0.52% of landings. The data is from International Council for the Exploration of the Seas’ Official Nominal Catches 2006 – 2017 (Ref. 1.10). Trend data for HPC impingement, concluded negligible effects. With the stations combined, negligible effects are predicted for thin-lipped grey mullet stocks. Effects are not significant for stock sustainability.

European eel impingement with embedded mitigation

1.4.55 The European eel is present in rivers and estuaries throughout northern Europe. In open coastal area of the North Sea, there is a high level of dispersal for the glass eel life stages (Appendix 22D and 22I of Volume 2 of the ES).

1.4.56 The predicted impingement of European eel is given in Table 1.14. The predicted impingement for the proposed development alone, is 0.15% SSB for the Anglian River Basin District, based on silver eel biomass estimates. The predicted losses are 0.84% of eel landings. Effects of the proposed development are negligible. An assessment of losses of an independent stock population assessment of eels at Hinkley Point C, predicted a loss of 0.043% of the SSB. It is acknowledged that stock units for assessment of the effects of the power stations differ; however, the effects are small in both cases.
1.4.57 With consideration of the current status of the European eel stock (Table 1.10) then with the stations combined, minor adverse effects are predicted for European eel stocks. Effects are not significant for stock sustainability.
### Table 1.14: Impingement predictions at Hinkley Point C and the proposed development with inclusion of embedded mitigation. Predicted impingement expressed as a % of the fishery and % of spawning stock biomass for select taxa. Impingement indicators and assessment conclusions are also presented. (Sources: Ref. 1.8 and Appendix 22I)

<table>
<thead>
<tr>
<th>Taxa</th>
<th>Hinkley Point C</th>
<th>Proposed development</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% of fishery</td>
<td>% of SSB</td>
</tr>
<tr>
<td>European seabass</td>
<td>-</td>
<td>0.011</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thin-lipped grey mullet</td>
<td>Population trend increasing.</td>
<td>HPC routine impingement monitoring programme trend analysis.</td>
</tr>
<tr>
<td>European eel</td>
<td>-</td>
<td>0.043</td>
</tr>
</tbody>
</table>

3 Seabass are not uniformly distributed across the site with evidence demonstrating that juvenile seabass are attracted to the warm water effluents of Sizewell B in Winter. Accounting for the significantly greater distribution of seabass in the inshore waters away from the Sizewell C intakes, impingement predictions reduce to 0.03% of SSB and 0.14% of landings. Further details are provided in Appendix 22I of Volume 2 of the ES.

4 There is not a directed commercial fishery for grey mullet in the southern North Sea and therefore the landings data (120t) are considered highly likely to represent less than 20% SSB. Therefore, the predicted impingement at 0.52% of landings is equivalent to approximately 0.1% of a conservative SSB estimate. Further details are provided in Appendix 22I of Volume 2 of the ES.
v. Future baseline and species trends

1.4.58 The cooling water intakes would act as a sampler of taxa in the receiving waters; therefore, a declining stock/population trend would be reflected in a corresponding decline in numbers of fish impinged, and vice versa. This enables long-term trends to be identified with respect to changes in species distribution and abundance over the 60-year lifetime of the proposed development.

1.5 Marine Mammals

a) Receptor specific assessment approach

1.5.1 Three species of marine mammals have been included as key taxa within the EIA of the proposed development. These include harbour porpoises (*Phocoena phocoena*), grey seal (*Halichoerus grypus*) and harbour seal (*Phoca vitulina*). Baseline assessments and receptor specific impact arising from the proposed development is provided in Chapter 22 of Volume 2 of the ES.

1.5.2 All three species of marine mammals are highly mobile Annex II species. As such, the ZOI for CEA purposes encompasses their relevant Management Units (MUs) in order to allow assessment at the population level (Table 1.1).

1.5.3 The ZOI for harbour porpoise assessments is the North Sea MU. This area encompasses the Southern North Sea SAC designated for harbour porpoises. In addition to the MU, spatial assessments consider the conservation objectives of the SAC.

1.5.4 The ZOI for seals includes the UK south-east England MU, north-east England MU and east coast of Scotland MU.

1.5.5 The CEA for marine mammals has considered pressures from all stages of projects where there is the potential to spatially or temporally overlap with the proposed development.

1.5.6 The following pressures from the proposed development are considered for the marine mammals CEA:

- underwater noise from impact pilling, drilling and dredging activities;
- suspended sediments;
- visual disturbance;
• physical disturbance and;
• indirect effects due to impingement and entrainment of prey species.

i. Underwater noise

1.5.7 Impact piling results in the highest acoustic effect area for marine mammals. Pilling auditory effect zones have been modelled based on a stationary and fleeing individual for instantaneous and cumulative (24h) effects (Appendix 22L of Volume 2 of the ES). Fleeing behaviours incorporated into the underwater noise modelling, eliminates or reduces auditory effects to highly restricted areas. However, fleeing infers (temporary) displacement. Therefore, as a precautionary measure, the CEA considers the stationary model results for temporary auditory damage (TTS) based on the worst-case cumulative noise scenario whereby five piles are installed within a 24h period using a 200kJ hammer energy. The CEA considers harbour porpoise, grey seal and harbour seal relative to the MU population sizes.

1.5.8 Two methods have been used for the CEA for underwater noise effects on harbour porpoise. The first method follows that used in previous assessments for offshore wind farms (e.g. Norfolk Vanguard) and applies a population approach to determines the total number of harbour porpoise effected by simultaneous piling activities within the MU. The second approach considers the area of the SAC impacted in relation to the draft thresholds for noise disturbance produced by JNCC (Ref. 1.14).

1.5.9 Advice on the Conservation Objectives of the Southern North Sea SAC was produced in March 2019 (Ref. 1.14). In relation to Conservation Objective 2: ‘There is no significant disturbance of the species’, disturbance is considered to be significant if it leads to the exclusion of harbour porpoise from a significant proportion of the site. ‘Noise disturbance within the SAC from a plan/project individually or in combination is significant if it excludes harbour porpoises from more than:

• 20% of the relevant area\(^5\) of the site in any given day\(^6\), and;
• an average of 10% of the relevant area of the site over a season.

---

\(^5\) The relevant area is defined as that part of the SAC that was designated on the basis of higher persistent densities for that season (Summer defined as April to September inclusive, Winter as October to March inclusive). The proposed development is within the Winter area.

\(^6\) The assessment is only applicable for Habitats Regulations Assessments (HRA) due to impracticality of daily noise limit management of activities, but retrospective compliance analysis advised. Herein, an indicative assessment is provided.
1.5.10 A Rochdale envelope approach can be applied to consider the worst-case scenario for the duration of effects (12 piles) and the worst case for cumulative auditory effects. The worst-case scenario of cumulative auditory effects assumes a maximum of five piles installed in a given 24-hour period (the period for modelling cumulative auditory effects). Under such circumstances pilling would be completed within three days. The cumulative noise assessment (3 days of piling) results in the greatest auditory effect ranges and is considered as the worst-case CEA. As the worst-case auditory impacts from piling for the proposed development is expected to last no more than three days the assessment focusses on the first of the two conservation objectives.

1.5.11 Dredging for the BLF results in the largest cumulative impact ranges for continuous noise sources (Appendix 22L of Volume 2 of the ES). However, minimal noise is associated with the capital dredge of the BLF and the activity is anticipated to be short term (days). In comparison, the scale of the dredging operations is less than the usual period required for the maintenance dredge for a port or removal of aggregates from a licensed extraction site. Maintenance dredging by ploughing, likely to be used to maintain the navigable depth of the BLF, results in small scale auditory effect zones. All the projects considered in the project screening (e.g. aggregate extraction projects, see Appendix 4C.1 Section 1.6) are operationally ongoing projects which form part of the baseline and therefore have been screened out for further consideration in the CEA.

1.5.12 Drilling due to the insertion of vertical connecting shafts for the offshore cooling water system creates mainly low frequency noise. Underwater noise modelling (Appendix 22L of Volume 2 of the ES) has indicated that drilling activities result in negligible auditory impact zones for stationary animals and no effects are anticipated for fleeing animals. Drilling has been excluded from the marine mammals CEA.

1.5.13 The detonation and clearance of hypothetical unexploded ordnance (UXO) has been considered for marine mammal receptors within the ES of the proposed development (Chapter 22 of Volume 2 of the ES), thereby encompassing the full suite of potential auditory impacts. However, to-date UXOs have not been identified on site. Should a UXO be identified a full assessment would be completed considering the exact UXO specifications and location in relation to site-specific factors such as proximity to existing nuclear infrastructure, sensitive habitats and geomorphic features. Alternative disposal methods or relocation would be considered as well as appropriate mitigation measures in order to minimise the risk of potential impacts. Such considerations would be critical in determining management and mitigation measures in the tidally dominated, high turbidity inshore
waters at Sizewell and would be presented in a dedicated Marine Mammal Mitigation Protocol (MMMP). Further details are provided in Chapter 22 of Volume 2 of the ES.

1.5.14 There is the potential for cumulative effects should UXO clearance and detonation be required during the proposed development in-combination with other projects. However, effects from other potential detonations\(^7\) and hypothetical UXO clearance from the proposed development cannot be assessed because full details of the planned activities are not currently available. Should UXOs be identified at the proposed development, an assessment of the potential effects of different detonation strategies and mitigation measures would be undertaken.

\(^{ii.}\) Dredging and suspended sediments

1.5.15 Dredging, and to a much lesser extent drilling activities, during the construction phase and occasional maintenance of the BLF access channel during the operational phase would result in increases in suspended sediments.

1.5.16 Installation of the cooling water infrastructure would result in the largest suspended sediment plumes\(^8\) (Chapter 22 of Volume 2 of the ES). The plume size and duration are predicted to be less than those resulting from large maintenance dredge projects or aggregate extraction which occur on a more regular basis. Increased suspended sediments can also result from seabed clearance works associated with OWF construction and cable laying (Section 1.2). Marine mammals are considered to be Not Sensitive to increases in suspended sediments associated with the proposed development and effects are assessed as negligible (Chapter 22 of Volume 2 of the ES).

1.5.17 The aggregate extraction and dredging projects identified in the CEA screening (Appendix 4C.1 Section 1.6) are all on-going projects (i.e. active dredge zones). To date no consented dredging project, aggregate extraction operation or OWF development has undertaken a CEA on the effects of increased suspended sediments on marine mammals. Given effects from the proposed development are predicted to have negligible effects on marine mammals, increased suspended sediment has been scoped out of the CEA.

\(^7\) Other likely projects that might require UXO clearance include Galloper OWF, East Anglia Three OWF, Norfolk Boreas OWF, Norfolk Vanguard OWF.

\(^8\) Plumes with instantaneous SSC of >100mg/l above background levels are expected to form over an area of up to 373ha (depth averaged, 291ha at the sea surface). A smaller area of up to 14ha is expected to experience a depth averaged instantaneous SSC of >1,000mg/l above background levels (34ha at the sea surface).
iii. Visual disturbance

1.5.18 Artificial lighting from the main development site, the BLF and moored vessels would introduce light into the marine environment. The introduction of artificial lighting in the marine environment could potentially cause visual disturbance to marine mammals. A lighting strategy, provided in Lighting Management Plan; Appendix 2C, Volume 2 of the ES, for the construction and operational sites has been designed and is outlined in the CoCP (Doc Ref. 8.11). The strategy considers is designed to minimise, where practicable, landscape, seascape and visual effects; minimise light spill without compromising either safety or security, and reduce disturbance to protected species and habitats, where reasonably practicable. The implementation of the lighting strategy during all stages of the project would minimise the lighting pollution. Therefore, expected effects are negligible and as such, visual disturbance is scoped out of the CEA.

iv. Physical disturbance

1.5.19 Vessel activity associated with the inshore construction, deliveries and maintenance have the potential to cause physical disturbance to marine mammals. The most likely behavioural reaction is short-term avoidance of the immediate vicinity of vessels. The resulting effects in terms of local abundance is assessed as minor adverse. The expected volume and frequency of the vessel activity would be much less than that experienced within busy shipping lanes and thus would not significantly add to the already existing marine traffic in the North Sea. Physical disturbance is not considered further in the CEA.

v. Changes in prey availability

1.5.20 Marine mammals as top predators are heavily impacted by their prey availability and are known to shift their distribution in response to changes in prey availability and density. One of the conservation objectives of the SACs designated for marine mammals is maintaining prey availability for protected species and considering that ZOI encompasses such areas, this impact resulting from impingement/entrapment as well as underwater noise will be considered further in the CEA.

vi. Impacts considered for CEA

1.5.21 Based on the assessment of effects presented in Chapter 22 of Volume 2 of the ES and summarised here, the following impacts on marine mammals have been taken forward in the CEA;

- underwater noise from piling on harbour porpoise;
underwater noise from piling on phocid seals, and;

changes in prey availability (indirect impact from impingement and entrainment and underwater noise).

b) Project screening

1.5.22 The greatest noise source from other developments is likely to result from pile driving during the construction of offshore wind farms (OWF) and other construction activities (e.g. bridge construction). Here the cumulative assessment of underwater noise considers the potential disturbance of harbour porpoise and seals during piling operations from the proposed development and other projects screened into the CEA that could be piled at the same time (Table 1.15). Timelines have been taken from Environmental Statements or Scoping Reports submitted to the Planning Inspectorate.

1.5.23 The CEA has been based on single piling of the BLF at the proposed development, i.e. one piling vessel installing a single pile at a time. A total of 12 piles (eight of approximately 1m diameter and four of approximately 1.5m diameter) would be installed in shallow water. The anticipated hammer energies (90kJ is the most likely required energy while 200kJ hammer energy is considered as the worst case) would be relatively small when compared with OWF installation (e.g. 5,000kJ maximum quoted for some OWF developments). Cumulative auditory effects assume a maximum of five piles installed in a given 24-hour period (the period for modelling cumulative auditory effects). Under such circumstances pilling would be completed within three days. Construction is scheduled for years 0-2 from 2022 onwards (Appendix 4C.1 Plate 1.1). As a precautionary worst case it is assumed that piling could take place at any time during the construction period of the BLF, although it would not be continuous for the duration of the construction period.

1.5.24 In the case of OWF projects, it is important to realise that the likelihood of several projects piling at the same time is comparatively low as the piling period is a small percentage of the whole construction period. The risk of concurrent piling activity is usually limited by piling vessel availability but can also be limited by seasonality and weather.

1.5.25 The proposed development is a relatively small project in terms of scale of piling and thus levels of underwater noise. Nonetheless, being adjacent to the Southern North Sea SAC, underwater noise impacts have the potential to affect the conservation objectives of the site. Thus, projects where piling has potential to overlap with the Southern North Sea SAC were screened into the assessment.
Table 1.15: Marine developments considered in cumulative effect assessment (CEA) for the potential disturbance of harbour porpoise or seals. Timelines are taken from project specific Environmental Statements or Scoping Reports but should be considered indicative.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Distance from Sizewell C</th>
<th>Number of turbines/piles</th>
<th>Expected construction window</th>
<th>Dates of piling</th>
<th>Piling potentially occurring at same time as Sizewell C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizewell C</td>
<td>0km</td>
<td>5</td>
<td>2022 - 2028</td>
<td>2022 - 2024</td>
<td>N/A</td>
</tr>
<tr>
<td>Tier 3: Consented</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hornsea Project Two</td>
<td>179km</td>
<td>165</td>
<td>2020 – 2025</td>
<td>2021 – 2024</td>
<td>Yes (16 months)</td>
</tr>
<tr>
<td>East Anglia Three</td>
<td>84km</td>
<td>100 – 172</td>
<td>2022 – 2026</td>
<td>2022 – 2023</td>
<td>Yes</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>272km</td>
<td>200</td>
<td>2020 – 2023</td>
<td>Unknown²</td>
<td>Yes¹</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck B</td>
<td>294km</td>
<td>200</td>
<td>2020 – 2023</td>
<td>Unknown²</td>
<td>No¹</td>
</tr>
<tr>
<td>Dogger Bank Teeside A</td>
<td>311km</td>
<td>200</td>
<td>2023 – 2029</td>
<td>Unknown</td>
<td>Yes¹</td>
</tr>
<tr>
<td>Sofia (formerly Teeside B)</td>
<td>294km</td>
<td>200</td>
<td>2023 – 2029</td>
<td>Unknown</td>
<td>No¹</td>
</tr>
<tr>
<td>Tier 4: Application submitted and not yet determined or project on hold.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>83km</td>
<td>35</td>
<td>2021 – 2024</td>
<td>Unknown (6 months)</td>
<td>Yes</td>
</tr>
<tr>
<td>Norfolk Vanguard</td>
<td>85km</td>
<td>120 – 257</td>
<td>2024 – 2028</td>
<td>2024 – 2026</td>
<td>Yes (8 months)</td>
</tr>
<tr>
<td>Hornsea Project Three</td>
<td>181km</td>
<td>342</td>
<td>2020 – 2026</td>
<td>Earliest possible Q1 2023</td>
<td>Yes</td>
</tr>
<tr>
<td>Norfolk Boreas</td>
<td>105km</td>
<td>90 – 180</td>
<td>2024 – 2028</td>
<td>2027 – 2028</td>
<td>No</td>
</tr>
<tr>
<td>East Anglia One North</td>
<td>50km</td>
<td>Up to 67</td>
<td>2026 – 2028</td>
<td>Unknown</td>
<td>No</td>
</tr>
<tr>
<td>East Anglia Two</td>
<td>35km</td>
<td>Up to 75</td>
<td>2025 – 2027</td>
<td>Unknown</td>
<td>No</td>
</tr>
</tbody>
</table>
### Tier 5: Application in process.

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Distance from Sizewell C</th>
<th>Number of turbines/piles</th>
<th>Expected construction window</th>
<th>Dates of piling</th>
<th>Piling potentially occurring at same time as Sizewell C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horsea Project Four</td>
<td>180km</td>
<td>Up to 180</td>
<td>Unknown</td>
<td>Unknown</td>
<td>No</td>
</tr>
</tbody>
</table>

1. It is highly unlikely that all four Dogger Bank projects would be piling at the same time (as per EIAs for these projects); therefore only two projects that could be constructed at the same time (i.e. with different developers) have been included in this assessment.

2. Offshore works to begin in 2021

#### 1.5.26
Details from the Environmental Statement for Hornsea Project Two suggest a construction window of six years beginning in 2020. The earliest piling could begin in Q1 of year two, with a potential window until Q3 of year five, although piling is only scheduled to last for 16 months (Ref. 1.15). There has been no commitment by the developers of the Hornsea zone to schedule piling to prevent overlap between projects. It is theoretically possible that Hornsea Projects Two and Three could be under construction at the same time (Ref. 1.16). At the time of writing, the Hornsea Project Four application to the Planning Inspectorate is in the pre-application stage and project information has been taken from the published scoping document (Ref. 1.17), however as a Tier 5 project it is not considered further in the CEA due to project uncertainties.

#### 1.5.27
Creyke Beck A and B construction may take place continuously or in phases with either project being constructed first. Offshore construction will last between three and six years (Ref. 1.18). This also applies for Dogger Bank Teeside A and Sofia (Ref. 1.19). Currently the developers have not published details of their construction plans and so no specific information on the timing of piling activities is available.

#### 1.5.28
The Environmental Statement for East Anglia Three (Ref. 1.20) suggests offshore construction would begin in 2020 at the earliest but could begin as late as 2025. Both a one and two phased approach are still being considered. If a single phase were used the construction window would be 41 months and 45 months for a two phased approach. It is expected to take seven months to install the monopiles (which would be the worst-case scenario in terms of underwater noise levels). It is noted that this timeframe differs slightly to that in the shadow HRA (Doc Ref. 5.10) but in both cases the project is scoped into the assessment.
1.5.29 East Anglia One North and East Anglia Two OWFs are Tier 4. Offshore construction, including pilling, is anticipated 2026-2028 for East Anglia One North and 2025-2027 for East Anglia Two. Piling is not anticipated to overlap with the construction of the BLF in the early construction phase (Table 1.15). East Anglia One North and East Anglia Two OWFs would not pile concurrently and only single piling ins anticipated at the sites (Ref. 1.3; 4). These projects are screened out for further assessment.

1.5.30 The Thanet Extension consists of a relatively small number of turbines. Offshore construction is expected to start in 2021 at the earliest. The timeframe for piling of the turbines has not been determined but could occur at any point during offshore construction but is expected to last for six months (Ref. 1.21).

1.5.31 The Norfolk Boreas application was submitted to the Planning Inspectorate in June 2019 and information is based on the project description in the submitted ES (Ref. 1.22). Offshore construction is expected to take approximately three years starting in 2024, with piling beginning in Q2 of 2027.

1.5.32 The Norfolk Vanguard application is currently being considered by the Planning Inspectorate (March 2020) and information is based on the project description in the submitted ES (Ref. 1.23). Offshore construction is expected to take eight months between 2024 and 2026 and is scoped into the assessment as a precautionary measure.

c) Assigning impact magnitude

1.5.33 A cumulative effects assessment for piling has recently been completed for Norfolk Vanguard (Ref. 1.23) and Norfolk Boreas (Ref. 1.22) EIAs.

1.5.34 The methodology outlined in the Norfolk Vanguard and Norfolk Boreas EIAs ((Ref. 1.23) and (Ref. 1.22)) has been applied here assuming single piling occurring consecutively at all OWFs with temporal overlap of piling activities and at the proposed development. The spatial extent of the impact magnitude for cumulative underwater noise assessments from other developments (OWFs), considers a potential impact area during single pile installation of 2,124km², based on a radius of 26km from each OWF piling location.

1.5.35 In the case of the relatively small scale underwater noise impact areas from the proposed development, predicted effects ranges for TTS in stationary animals are applied as a precautionary measure. The fleeing model predicts no PTS and spatially limited TTS cumulative auditory impact zones for BLF piling associated with the proposed development. However, the fleeing
model assumes fleeing behaviours may occur up to distance of 25km, which is well beyond the predicted range of auditory effects. Therefore, the stationary auditory impact zones for TTS are applied as a precautionary assessment of temporary auditory effects for animals that remain within the ensonified area for the duration of pilling.

1.5.36 The impact magnitude associated with cumulative assessments of underwater noise considers the total area of exposure to piling noise and the proportion of the reference population of marine mammals (porpoise or seals) that are potentially disturbed. Impact magnitude scales are provided in Table 1.16.

<table>
<thead>
<tr>
<th>Impact Magnitude</th>
<th>Percentage of reference population disturbed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negligible (Very Low)</td>
<td>&lt;1% of the reference population.</td>
</tr>
<tr>
<td>Low</td>
<td>1-5% of the reference population.</td>
</tr>
<tr>
<td>Medium</td>
<td>5-10% of the reference population.</td>
</tr>
<tr>
<td>High</td>
<td>&gt;10% of the reference population.</td>
</tr>
</tbody>
</table>

1.5.37 The potential sources of underwater noise during each stage of the proposed development is detailed in Chapter 22 of Volume 2 of the ES. A total of 12 piles would be installed below MHWS in the intertidal and shallow subtidal.

1.5.38 The worst-case TTS cumulative auditory impact zone for five piles being installed within a 24-h period and piling using 200kJ hammer energy, without fleeing, are applied. The cumulative auditory impact zones extend furthest in the north and south directions from the proposed development. Thresholds for auditory effects of stationary animals are exceeded up to 12.5km from the BLF for harbour porpoise TTS and around 2km for PTS. The fleeing model predicts no PTS and spatially limited TTS cumulative auditory impact zones (Table 1.17).

1.5.39 The CEA applies the stationary model. Whilst the fleeing model predicts no PTS and spatially limited TTS cumulative auditory impact zones, the model assumes fleeing behaviours may occur up to distance of 25km, which is well beyond the predicted range of auditory effects. Therefore, the quantitative stationary auditory impact zones for TTS are applied.
### Table 1.17: Harbour porpoise auditory impact zones for piling activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Threshold</th>
<th>Instantaneous</th>
<th>Stationary Cumulative (5 piles in 24h period)</th>
<th>Fleeing Cumulative (5 piles in 24h period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact piling 90kJ.</td>
<td>PTS 27m</td>
<td>1,297m; 1.9km²</td>
<td>No impact.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TTS 45m</td>
<td>6,624m; 49.94km²</td>
<td>2,765m; 7.68km²</td>
<td></td>
</tr>
<tr>
<td>Impact piling 200kJ.</td>
<td>PTS 41m</td>
<td>2,081m; 5.61km²</td>
<td>No impact.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TTS 67m</td>
<td>12,450m; 102.23km²</td>
<td>4,795m; 21.79km²</td>
<td></td>
</tr>
</tbody>
</table>

### i. Magnitude of impact

1.5.40 The approach to assessing underwater noise has been undertaken using the following parameters:

- a potential impact area during single pile installation, based on a radius of 26km from each OWF piling location (2,124km²);
- the predicted cumulative (24 hour) auditory impact range for TTS in stationary harbour porpoises of 12.5km (102.2km²) for worst case pilling scenarios (Table 1.17). Population Density Approach.

1.5.41 There are a total of seven projects where the timeline for piling has the potential to overlap with the indicative construction window for BLF piling at the proposed development (Table 1.15). However, the potential worst-case scenario for other projects that could simultaneously be piling at the same time as the proposed development includes six projects. This is because the current timeframes for East Anglia Three and Norfolk Vanguard do not overlap (Table 1.15). The assessment has been undertaken using the following projects to represent the worst-case scenario (Plate 1.3):

- Hornsea Project Two OWF;
- Dogger Bank Creyke Beck A OWF;
- Dogger Bank Teeside A OWF;
- Thanet Extension OWF, and;
- Hornsea Project Three OWF, and;
Norfolk Vanguard OWF.

1.5.42 SCANS-III density estimates (Ref. 1.24) for the relevant survey block that the proposed development is located in have been used to estimate the number of harbour porpoise within the potential impact areas. The assessment has been undertaken using Norfolk Vanguard instead of East Anglia Three as the density estimate for harbour porpoise for Norfolk Vanguard is higher than that of East Anglia Three and is thus more precautionary in terms of numbers of harbour porpoise exposed.

1.5.43 Norfolk Vanguard spans SCANS-III survey blocks O and L. The Norfolk Vanguard CEA (Ref. 1.23) density estimate is based on block O, where higher porpoise numbers are reported, to depict worst-case in terms of numbers impacted. As a comparison the assessment has also been undertaken substituting Norfolk Vanguard for East Anglia Three and is presented in Appendix 4C.2, although conclusions are drawn using the worst-case scenario (Norfolk Vanguard).

1.5.44 If each of the six OWF projects adopted a method of single pile installation (i.e. one piling vessel in operation on each project) the estimated maximum area of disturbance would be approximately 12,846 km² (i.e. 6 x 2,124 km² + 102.23 km² from the proposed development). The area estimate is precautionary in that it does not account for overlap of projects impact areas (Plate 1.3).

1.5.45 The maximum number of harbour porpoise that could potentially be disturbed is 10,782 (3.12% of the reference population) (Table 1.18). The proposed development has the potential to expose 62 animals (stationary TTS model) and contributes just 0.58% of the total number of animals disturbed.

1.5.46 The magnitude for the cumulative effects of single piling for projects in combination with the proposed development is between 1% and 5% of the reference population (3.12%) and therefore, based on the methodology applied in previous OWF EIAs (Table 1.16), is assessed as Low.

1.5.47 Table 1.1 in Appendix 4C.2 shows the magnitude of impact if East Anglia Three were included instead of Norfolk Vanguard. In this case, 2.95% of the reference population could potentially be disturbed under single piling scenarios (Low impact magnitude).
Plate 1.3. Marine Mammal Cumulative Noise Assessment
Table 1.18: CEA for the potential disturbance of harbour porpoise during single piling of marine developments with possible temporal overlap with the BLF at Sizewell C.

<table>
<thead>
<tr>
<th>Project</th>
<th>Tier</th>
<th>Distance to Sizewell C</th>
<th>SCANS-III Survey Block</th>
<th>SCANS-III density estimate (No./km²)</th>
<th>Potential number of harbour porpoise disturbed during single piling event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizewell C</td>
<td>4</td>
<td>N/A</td>
<td>L</td>
<td>0.607</td>
<td>62.05</td>
</tr>
<tr>
<td>Hornsea Project Two</td>
<td>3</td>
<td>179km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>3</td>
<td>272km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Dogger Bank Teeside A</td>
<td>3</td>
<td>311km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Norfolk Vanguard</td>
<td>4</td>
<td>85km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>4</td>
<td>83km</td>
<td>L</td>
<td>0.607</td>
<td>1,289.26</td>
</tr>
<tr>
<td>Hornsea Project Three</td>
<td>4</td>
<td>181km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>10,781.86</strong></td>
</tr>
<tr>
<td>% of North Sea Management Unit reference population (345,373 individuals)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>3.12%</strong></td>
</tr>
</tbody>
</table>
**Conservation Objectives Approach**

1.5.48 Noise disturbance within a SAC from a plan/project individually or in combination is significant if it excludes harbour porpoises from more than 20% of the relevant Summer or Winter area of the site in any given day. Relevant areas are delineated based on the persistent seasonal population densities within the SAC. The proposed development is located within the south of the SAC where Winter (October to March inclusive) densities are higher. As such the Winter Area is applied.

1.5.49 Three projects have the potential to overlap with piling at the proposed development within the winter area. These are:

- Thanet Extension OWF;
- East Anglia Three OWF, and;
- Norfolk Vanguard OWF.

1.5.50 East Anglia Three and Norfolk Vanguard would not overlap (Table 1.15). East Anglia Three is applied as it represents the worst-case scenario in terms of spatial overlap with the SAC Winter area (Plate 1.4). Therefore, the proposed development could temporally overlap with East Anglia Three and the Thanet Extension OWF.

1.5.51 A precautionary scenario assuming piling at the proposed development, East Anglia Three and the Thanet Extension OWF results in a total area of 214,458ha (2,145km²) of spatial overlap with the Winter area of the Southern North Sea SAC, representing 16.9% of the 12,687km² (Table 1.19). Predicted TTS auditory effect zones based on stationary models indicated the proposed development contributes 0.8% to the total. Furthermore, cumulative effects would only transpire for a period of three days and only then if piling at the proposed development occurred in the Winter period (October to March Inclusive).

1.5.52 For completeness, spatial overlap of all OWF in Plate 1.3 at the scale of the SAC is provided in Appendix 4C.2.
Plate 1.4. Cumulative noise assessment for the Southern North Sea Conservation Objective showing the relevant Winter area for the proposed development.
Table 1.19: Spatial area and percentage of the Winter area of the Southern North Sea SAC exposed to disturbance events from consecutive piling activities. Projects in bold are assessed for worst-case temporal overlap.

<table>
<thead>
<tr>
<th>OWF</th>
<th>Intersect area (ha)*</th>
<th>Percentage of Southern North Sea Winter area (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thanet Extension</td>
<td>99,588</td>
<td>7.85</td>
</tr>
<tr>
<td>Norfolk Vanguard East</td>
<td>22,954</td>
<td>1.81</td>
</tr>
<tr>
<td>Norfolk Vanguard West</td>
<td>48,418</td>
<td>3.82</td>
</tr>
<tr>
<td>Norfolk Vanguard Combined</td>
<td>71,373</td>
<td>5.63</td>
</tr>
<tr>
<td>East Anglia Three</td>
<td>104,638</td>
<td>8.25</td>
</tr>
<tr>
<td>Sizewell C 140 dB TTS</td>
<td>10,132</td>
<td>0.80</td>
</tr>
<tr>
<td>Total</td>
<td>214,458</td>
<td>16.90</td>
</tr>
</tbody>
</table>

* It should be noted areas are calculated based on WGS84 UTM 31N projections, however, errors between geodetic transformations are approximately 0.06% and has no bearing on the outcome of the assessment.

ii. Sensitivity of receptor

1.5.53 The potential effects of underwater noise from piling range from direct injury and/or auditory damage at close range to short-term behavioural or barrier effects. To date, there has been no documented evidence of injury or mortality in harbour porpoises or seals as a result of pile driving noise. This could be due to employment of the avoidance strategies by animals and/or implementation of mitigation measures thus reducing the occurrence of injury and lethal effects (Ref. 1.25).

1.5.54 Changes in the behaviour of harbour porpoises in response to pile driving have been reported at multiple offshore wind farm sites. However, harbour porpoises returned to the area once the piling noise stopped. Piling duration has a large impact on harbour porpoise displacement from an area with longer pile driving durations leading to a longer displacement (Ref. 1.26).

1.5.55 Even though clear adverse short term effects on individual animals have been recorded in different studies (Ref. 1.26–30), there is currently no indication that harbour porpoises are significantly affected by construction piling at the population level (Ref. 1.31). The Marine Evidence Group tasked with assessing the population effects of spatial displacement of harbour porpoises during OWF construction concluded that despite some small, measurable population-level effects, the magnitude of the potential changes are much less significant than those related to other human activities and are
unlikely to affect the long-term viability of this species in the North Sea (Ref. 1.31).

1.5.56 For the purpose of the CEA, displacement at a radius of 26km is assumed for other projects. This temporary avoidance would cause disturbance but minimise acoustic injury. The auditory impact ranges applied for the proposed development are based on the theoretical model assuming no fleeing behaviour and represent the maximum TTS ranges.

1.5.57 Maximum temporary auditory damage ranges from the proposed development and displacement behaviours from OWFs mean harbour porpoises have the potential to recover and sensitivity is adjudged as Medium.

iii. Cumulative effect significance

1.5.58 The assessment of population effects is based on complete temporal overlap of all the construction projects. The theoretical assessment does not consider the limited availability of piling vessels involved in the construction of offshore wind farms which is a constraint in terms of actual project build timeframes

**Population Density Approach**

1.5.59 The relative contribution of Sizewell C piling to underwater noise is extremely low. In quantitative terms, predicted numbers of harbour porpoise potentially disturbed due to piling noise from Sizewell C constitutes approximately 0.02% of the reference population. In the single piling event scenario, the proposed development contributes 0.58% of the total number of animals disturbed. Therefore, the proposed development contributes very little to the overall effect.

1.5.60 In the case of the proposed development acting cumulatively with six OWFs piling concurrently with single pilling events the impact magnitude in terms of intersection with the North Sea MU area populations is Low (3.12% of population). Taking into account the receptor sensitivity (Medium) there is the potential for minor adverse effects for harbour porpoise. Effects are not significant at the level of the reference population.

**Conservation Objectives Approach**

1.5.61 The proposed development is directly adjacent to the Southern North Sea SAC. The SAC conservation objective is to maintain Favourable Conservation Status (FCS) for harbour porpoise in UK waters (Ref. 1.14). The CEA for single pilling activities predicts no significant effects pertaining
to the disturbance of harbour porpoise with the Winter (worst case) area for any given day. The cumulative area disturbed accounts for 16.9% of the Winter area, less than the 20% threshold (Table 1.19). The proposed development would contribute less than 1% of the total area affected and only for three days if piling were to occur in winter. Therefore, the integrity of the site is maintained.

e) Impact assessment 2 - Underwater noise from piling on phocid seals

1.5.62 The potential sources of underwater noise during each stage of the proposed development and effects on seals is detailed in Chapter 22 of Volume 2 of the ES.

1.5.63 The assessment of underwater noise effects on seals applies the same rationale as for harbour porpoises. The worst-case scenario considers the stationary cumulative model auditory impact zones from piling with a 200kJ hammer energy. The resulting impact zones extend to ~3.1km and 303m for TTS and PTS, respectively (Table 1.20).

<table>
<thead>
<tr>
<th>Activity</th>
<th>Threshold</th>
<th>Instantaneous</th>
<th>Stationary Cumulative</th>
<th>Fleeing cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact piling 90kJ.</td>
<td>PTS</td>
<td>6m</td>
<td>206m; 0.10km²</td>
<td>No impact.</td>
</tr>
<tr>
<td></td>
<td>TTS</td>
<td>10m</td>
<td>1,882m; 4.30km²</td>
<td>No impact.</td>
</tr>
<tr>
<td>Impact piling 200kJ.</td>
<td>PTS</td>
<td>9m</td>
<td>303m; 0.20km²</td>
<td>No impact.</td>
</tr>
<tr>
<td></td>
<td>TTS</td>
<td>16m</td>
<td>3,104m; 10.64km²</td>
<td>No impact.</td>
</tr>
</tbody>
</table>

1.5.64 The grey seal reference population is based on the most recent counts and telemetry data (Ref. 1.32). Due to the transient nature of grey seals (Ref. 1.33) the south-east England MU (8,716), north-east England MU (7,004) and east coast of Scotland MU (3,652) are included in the reference population (Ref. 1.32) (Plate 1.5) with a total of 19,372 grey seals used for the assessment.
Plate 1.5: Locations of the main grey seal breeding sites around the UK (Ref. 1.32) and the boundaries of the seal MUs indicating the location of the SE England MU (9), north-east England MU (8) and east coast of Scotland MU (7).
Plate 1.6: Locations of the main harbour seal breeding sites around the UK Ref 1.32) and the boundaries of the seal MUs indicating the location of the SE England MU (9).
1.5.65 Harbour seals on the east coast on the UK tend to have a restricted distribution, with a population being predominantly concentrated in the Thames and The Wash (Ref. 1.33).

1.5.66 The harbour seal reference population is based on the most recent count for the south-east England MU = 4,965 harbour seal (Ref. 1.32) (Plate 1.6).

i. Sensitivity of receptor

1.5.67 The potential effects of underwater noise from piling range from direct injury and/or auditory damage at close range to short-term behavioural or barrier effects. Behavioural changes, for example avoidance, have also been observed in harbour seals as a result of pile driving up to 25km from the sound source. However, seals returned to the area shortly after piling ceased (within two hours) (Ref. 1.34). It is suggested that the extent of spatial avoidance depends on differences in piling characteristics and the effects of bathymetry on sound propagation, resulting in various degrees of displacement between sites (Ref. 1.35).

1.5.68 For the purpose of the CEA, displacement at a radius of 26km is assumed for other projects. This temporary avoidance would cause disturbance but minimise acoustic injury. The auditory impact ranges applied for the proposed development are based on the theoretical model assuming no fleeing behaviour and represent the maximum TTS ranges.

1.5.69 Following the same rationale as for the harbour porpoises, seals are assigned Medium sensitivity to impacts from piling.

ii. Magnitude of cumulative effects

1.5.70 The magnitude of the potential disturbance of grey and harbour seals has been estimated based on the following parameters:

- A potential (behavioural) impact area during single pile installation, based on a radius of 26km\(^9\) from each piling location (2,124km\(^2\)).

- The predicted cumulative (24 hour) auditory impact range for TTS in stationary harbour seals of 3.1km (10.6km\(^2\)) for worst case piling scenarios (Table 1.20).

\(^9\) The radius of 26km was assigned to encompass potential behavioural impacts to harbour porpoises. This cetacean species is known to be more sensitive to underwater noise than two species of pinnipeds. Nonetheless, the same radius is considered for pinnipeds applying the precautionary principle.
1.5.71 The latest seal at sea usage maps (Ref. 1.36) have been used to estimate the density of grey and harbour seals in the potential impact areas relevant to the area that the projects are located in for the most recent projects. For older projects, the data published in the relevant ES chapters is based on the previous assessment (Ref. 1.37).

1.5.72 The TTS effect area for piling at Sizewell C extends over several 5x5km grids thus for the purpose of the assessment the block with the highest density has been used. This results in 1.145 animals for grey seal and 1.322 animals for harbour seals per 25km² grid (Ref. 1.36). The number of individuals per km² has been calculated as 0.046 (1.145/25) for harbour seals and 0.053 (1.322/25) for grey seals.

1.5.73 There are a total of seven projects where the timeline for piling has the potential to overlap with piling at the proposed development (Table 1.15). However, the potential worst-case scenario for other projects that could simultaneously be piling at the same time as the proposed development includes only six projects. This is because the current timeframes for East Anglia Three and Norfolk Vanguard do not overlap (Table 1.15). The assessment has been undertaken using the following projects (Plate 1.3):

- Hornsea Project Two OWF;
- Dogger Bank Creyke Beck A OWF;
- Dogger Bank Teeside A OWF;
- Thanet Extension OWF;
- Hornsea Project Three OWF, and;
- Norfolk Vanguard OWF.

1.5.74 The assessment has been undertaken using Norfolk Vanguard instead of East Anglia Three as the density estimates for both grey and harbour seals for Norfolk Vanguard are higher than that of East Anglia Three. As a comparison the assessment has also been undertaken substituting Norfolk Vanguard for East Anglia Three and is presented in Appendix 4C.2, although conclusions on significance are drawn using the worst-case scenario (Norfolk Vanguard).

1.5.75 The total area of potential disturbance from single piling of all six OWFs along with the proposed development is 12,766km². The area estimate is precautionary in that it does not account for overlap of projects impact areas (Plate 1.3).
1.5.76 The maximum number of grey seals that could potentially be disturbed as a result of single piling is 646 (3.34% of the reference population).

1.5.77 The maximum number of harbour seals that could be disturbed as a result of single piling is 165 (3.33% of the reference population) (Table 1.21).

1.5.78 The magnitude for the cumulative effects of single piling for projects in combination with the proposed development is between 1% and 5% of the reference population for both grey and harbour seals (3.34% and 3.33% respectively). Therefore, based on the scales in Table 1.16, the magnitude is assessed as Low for both species.

1.5.79 Appendix 4C.2 (Table 1.2) shows the magnitude of impact if East Anglia Three were included instead of Norfolk Vanguard. This shows 3.31% and 3.33% of the grey seal and harbour seal populations could potentially be disturbed under single piling scenarios, respectively. As per Table 16 this equates to the same impact magnitude (Low) for each species as for the worst-case scenario (Norfolk Vanguard).
### Table 1.21: CEA for the potential disturbance of grey seals and harbour seals during single piling of marine developments with possible temporal overlap with the BLF at Sizewell C.

<table>
<thead>
<tr>
<th>Project</th>
<th>Tier</th>
<th>Distance to the proposed development</th>
<th>Grey seal density estimate (No/km²)¹</th>
<th>Harbour density estimate (No/km²)¹</th>
<th>Potential number of grey seals disturbed</th>
<th>Potential number of harbour seals disturbed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizewell C</td>
<td>4</td>
<td>0</td>
<td>0.046</td>
<td>0.053</td>
<td>0.49</td>
<td>0.56</td>
</tr>
<tr>
<td>Hornsea Project 2</td>
<td>3</td>
<td>179km</td>
<td>0.08</td>
<td>0.008</td>
<td>169.92</td>
<td>16.99</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>3</td>
<td>272km</td>
<td>0.05</td>
<td>0.0004</td>
<td>106.20</td>
<td>0.85</td>
</tr>
<tr>
<td>Dogger Bank Teeside A</td>
<td>3</td>
<td>311km</td>
<td>0.09</td>
<td>0.001</td>
<td>191.16</td>
<td>2.12</td>
</tr>
<tr>
<td>Norfolk Vanguard</td>
<td>4</td>
<td>85km</td>
<td>0.002</td>
<td>0.0001</td>
<td>4.25</td>
<td>0.21</td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>4</td>
<td>83km</td>
<td>0.002</td>
<td>0.06</td>
<td>4.25</td>
<td>127.44</td>
</tr>
<tr>
<td>Hornsea Project 3</td>
<td>4</td>
<td>181km</td>
<td>0.08</td>
<td>0.008</td>
<td>169.92</td>
<td>16.99</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>646.19</strong></td>
<td><strong>165.16</strong></td>
</tr>
</tbody>
</table>

% of Management Unit (19,372 grey seals; 4,965 harbour seals).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% of Management Unit (19,372 grey seals; 4,965</td>
</tr>
<tr>
<td></td>
<td>harbour seals).</td>
</tr>
<tr>
<td></td>
<td><strong>3.34%</strong></td>
</tr>
<tr>
<td></td>
<td><strong>3.33%</strong></td>
</tr>
</tbody>
</table>

¹ Single piling events only are planned for the proposed development, but assessment was based on installing five piles in one day.
iii. **Cumulative effect significance**

1.5.80 The cumulative assessment is based on complete overlap between all OWF construction projects. The current assessment does not take into account the limited availability of piling vessels involved in the construction of OWFs.

1.5.81 The conservation objectives for seals within the Humber Estuary SAC and the Wash and North Norfolk Coast SAC are for no significant change to:

- the extent and distribution of qualifying natural habitats and habitats of qualifying species;
- the structure and function (including typical species) of qualifying natural habitats;
- the structure and function of the habitats of qualifying species;
- the supporting processes on which qualifying natural habitats and the habitats of qualifying species rely;
- the populations of qualifying species; or
- the distribution of qualifying species within the site.

1.5.82 The effects on designated sites are dealt with within the HRA. The CEA has been undertaken using populations at the MU level in line with assessments for other projects.

1.5.83 In the case all six OWF projects were to undertake impact piling concurrently with the proposed development the cumulative effects are predicted to expose 3.34% and 3.33% of the grey and harbour seals reference populations, respectively. This represents a **Low** impact magnitude, combined with a **Medium** sensitivity, **minor adverse effects** are predicted. Effects are not significant at the reference population level.

1.5.84 The relative contribution of the proposed development to underwater noise effects on seals is extremely low. In quantitative terms, the predicted impacts on grey and harbour seals from piling at the proposed development would affect (less than) 1 individual of each species. The removal of the proposed development from this cumulative assessment would result in the same prediction of effects. Any additive effect from the proposed development would be very short lived, in the order of days. Therefore, significant effects from the proposed development are considered to be unlikely.
f) Impact Assessment 3 – Changes in prey availability (indirect impact) due to impingement/entrainment and underwater noise

1.5.85 Marine mammals, as top predators, are heavily influenced by availability and presence of their prey. Changes in prey availability for marine mammals can result in a number of effects including changes in geographical distribution, changes in number of animals and community structure, increased competition for food and reduced disease resilience (Ref. 1.23).

1.5.86 The proposed development is adjacent to the Southern North Sea SAC for which Conservation Objective 3 states that ‘the condition of supporting habitats and processes, and the availability of prey is maintained’.

i. Effect of underwater noise on prey availability

1.5.87 As described in Chapter 22 of Volume 2 of the ES, marine mammals feed on a variety of small shoaling demersal or pelagic fish, some of which are sensitive to piling noise. Table 1.7 and Table 1.8 shows that the auditory and behavioural impact zones in terms of impact pilling are smaller for fish that for marine mammals. The CEA for the effects of underwater noise from piling on fish (Chapter 22) concludes that no significant effects are predicted at the stock/population level. Therefore, it is reasonable to conclude that, as the auditory and behavioural impact zones are smaller for fish than marine mammals, and as there is no significant effect at the stock/population level then there would be no significant impact in terms of prey availability.

ii. Effect of impingement and entrainment of prey availability

1.5.88 As presented in Chapter 22 of Volume 2 of the ES, fish impingement and entrainment results in losses of prey species, however this represents a small percentage of prey available in the area.

1.5.89 The cumulative effects assessment for impingement and entrainment of selected fish species at the relevant stock/population level is presented in Section 1.4 concludes minor adverse effects with no significant effects on the stock. Therefore, impingement/entrainment losses are unlikely to represent a significant change in the availability of prey. As such, the conservation objectives of the SAC are not compromised.

1.6 Commercial and recreational fisheries

1.6.1 The CEA for commercial and recreational fisheries considers pressures from all stages of projects where there is the potential to overlap with the proposed development. Each type of pressure has been considered where relevant for commercial fisheries receptors (netters, potters and longliners) and
recreational fisheries receptors (recreational fishing vessels and beach anglers).

1.6.2 For reference purposes the proposed development is located within International Council for the Exploration of the Seas rectangle 33F1. Netting, potting and longlining all occur within this rectangle. Commercial fishing activity within the GSB is limited. From Sizewell itself, a single, beach-launched ≤10 metre (m) vessel operates, using either pots for brown crab and lobster (Cancer pagurus and Homarus gammarus, respectively), or nets during the winter for cod (Gadus morhua), herring (Clupea harrengus), sprat (Sprattus sprattus), sea bass (Dicentrarchus labrax), sole (Solea solea) and thornback ray (Raja clavata). Another small vessel from Aldeburgh to the south regularly operates of Sizewell, using pots to fish for lobsters and crabs over an area of Coralline Crag off Thorpeness Appendix 22F of Volume 2 of the ES.

1.6.3 Spatial resolution of landings is available at the International Council for the Exploration of the Seas rectangle scale, whereas the vessels fishing within the ZOI of the proposed development off Sizewell operate over a limited spatial area.

1.6.4 Recreationally, camera analysis conducted by Cefas estimate that ~1,570 beach anglers fish from Sizewell beach per year, with peaks in January, July and December. Recreational sea vessels activity off Sizewell is low, primarily due to the lack of access for launching.

1.6.5 The ZOI for cumulative effects on commercial and recreational fishing activities is considered to be the GSB.

1.6.6 The ES has concluded minor adverse effects from the proposed development on netters, potters, long-liners and otter trawlers and negligible effects on recreational boat anglers.

1.6.7 Cables from the Galloper OWF have already been installed within the vicinity of the proposed development and hence form part of the baseline in terms of displacement of fishing activities.

1.6.8 The construction of four projects have the potential to spatially overlap with the proposed development and have impacts in terms of temporary displacement of fishing activities during the construction period. These projects are;

- Nautilus National Grid Interconnector, connecting the UK to Belgium;
• EuroLink National Grid Interconnector, connecting the UK to the Netherlands;

• East Anglia One North (cable routes), and;

• East Anglia Two (cable routes).

1.6.9 East Anglia One North OWF and East Anglia Two OWF are Tier 4 projects with DCO applications submitted in October 2019. The OWF locations at 50km and 35km, respectively from the proposed development. The offshore cable corridor for the East Anglia One North and East Anglia Two is located within the GSB and ZOI for fishing activities, with landfall anticipated to be north of Thorpeness (Plate 1.1). As such the potential impacts from construction and operational maintenance of the offshore cables is considered.

1.6.10 Both interconnector projects are in the very early stages of planning and as such are also considered as Tier 5 projects. The application for Nautilus National Grid Interconnector is expected by the Planning Inspectorate in Q2 of 2022. At the time of writing the EuroLink National Grid Interconnector is in the very early stages of development with no publicly available information. Details of any operational and maintenance activities for these developments are currently unknown.

1.6.11 During the 60-year operational life of the proposed development, each reactor unit would undergo refuelling and maintenance shutdowns (otherwise known as ‘outages’) at approximately 18-month intervals. The duration of these outages would vary according to the maintenance and inspections required, but would typically be up to two months. Occasional maintenance of the offshore cooling water infrastructure may result in temporary loss of access to fishing areas.

1.6.12 During maintenance of offshore infrastructure hierarchical safety buffer zones of approximately 250m to 500m depending on the activity would likely be applied surrounding construction vessels. These safety buffer zones would be implemented through Notice to Mariners (NTM). EDF Energy has a history of offshore operations within the area and has developed and maintained communications with fishers prior to offshore works. Such communications would be expected to continue throughout the operational phase for maintenance activities.

1.6.13 An application for a Marine Licence for operation and maintenance works along the export cables for Galloper OWF has been made for works including export cable repair and replacement as well as remedial burial of the export cable (MLA/2019/00256). It anticipates a maximum number of four events
to replace or repair the export cable during the lifetime of the project (25 years) lasting approximately three months each. A maximum of four events are also predicted for remedial burial of the export cable although predicted timeframes for this are not given. An assessment of the impacts of the works on commercial and recreational fisheries has not been undertaken but a Fisheries Liaison and Coexistence Plan has been produced which establishes a Commercial Fisheries Working Group (CFWG) to provide a point of contact for representatives of commercial fishermen and to promote engagement and understanding of each other’s activities during the operational phase of GWF. Galloper Offshore Wind Limited are also required to produce NtM in advance of works as a condition of the Marine Licence.

1.6.14 To-date UXOs have not been identified on site. Should an UXO be identified a full assessment would be completed considering the exact UXO specifications and location in relation to site-specific factors such as proximity to existing nuclear infrastructure. It is noted that a Marine Licence (MLA/2019/00191) for Galloper UXO detonation has been issued. Hence there is the potential for cumulative effects should UXO clearance and detonation be required during the proposed development. However, effects from Galloper UXO detonation and hypothetical UXO clearance from the proposed development cannot be assessed because full details of the planned activities are not currently available. Should UXOs be identified at the proposed development, an assessment of the potential effects of different detonation strategies and mitigation measures would be undertaken.

1.6.15 Cable laying activities (including trenching), associated with the aforementioned developments and UXO clearance have the potential to result in temporary restrictions to fishing vessels within the ZOI of the proposed development (Plate 1.1). However, any closures to vessels are predicted to be short-term and localised. Once construction and maintenance works are complete activities such as the potting and netting currently undertaken would be able to resume. As such, significant effects on commercial and recreational fisheries are not anticipated.

1.7 Residual effects

1.7.1 The following table presents a summary of the CEA assessments.
### Table 1.22: Summary of cumulative effects

<table>
<thead>
<tr>
<th>Receptor</th>
<th>Impact</th>
<th>Primary or Tertiary Mitigation</th>
<th>Assessment of effects</th>
<th>Additional Mitigation</th>
<th>Residual Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quality</td>
<td>Changes in suspended sediments due to construction activities of the proposed development and cables associated with four other developments.</td>
<td>None</td>
<td>No information is available regarding proposed other developments which would indicate a potential for cumulative impacts to significantly effect water quality within the GSB area. Increases in suspended sediments and sedimentation from the proposed development is predicted to be short-term and localised with conditions returning to baseline shortly after dredging activities ceasing thereby minimising the potential for significant cumulative effects with other small scale impacts from other developments.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant.</td>
</tr>
<tr>
<td>Benthic Ecology</td>
<td>Changes in suspended sediments, sedimentation rate changes and physical change to other sea bed type due to construction activities of the proposed development and four other developments.</td>
<td>None</td>
<td>No information is available regarding proposed other developments which would indicate a potential for cumulative impacts to significantly effect benthic ecology within the GSB area. Increases in suspended sediments and sedimentation from the proposed development is predicted to be short-term and localised with conditions returning to baseline shortly after dredging activities ceasing thereby minimising the potential for significant cumulative effects with other small scale impacts from other developments.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant.</td>
</tr>
<tr>
<td>Receptor</td>
<td>Impact</td>
<td>Primary or Tertiary Mitigation</td>
<td>Assessment of effects</td>
<td>Additional Mitigation</td>
<td>Residual Effects</td>
</tr>
<tr>
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<td>------------------------</td>
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<td>-----------------</td>
</tr>
<tr>
<td>Fish receptors.</td>
<td>Underwater noise from piling for the BLF and six OWFs with potential temporal overlap in pilling activities.</td>
<td>Statutory nature conservation agency protocol for minimising the risk of injury to marine mammals from piling noise (Ref. 1.38). Where feasible pilling should be avoided during periods of high water to reduce the potential for underwater noise propagation.</td>
<td>At a stock/population level, there may be an increased spatial effect, should construction occur concurrently, or increased temporal effects if construction occurs sequentially. However, piling would be intermittent and short-term, with a limited period of piling in the construction phase of the proposed development and the six OWFs that may pile concurrently. Effects at the stock level are considered to be minor adverse effect. Not significant.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant.</td>
</tr>
<tr>
<td>Ichtyoplankton (seabass)</td>
<td>Entrainment in the cooling water abstracted for the proposed development and Hinkley Point C.</td>
<td>None</td>
<td>Seabass ichthyoplankton from the same stock could be exposed to entrainment from both stations. However, the predicted entrainment losses are ecologically negligible when considered against the natural variability in recruitment and the natural mortality of the species. Negligible effects, Not significant.</td>
<td>None</td>
<td>Negligible effects. Not Significant.</td>
</tr>
<tr>
<td>Seabass</td>
<td>Impingement in the cooling water abstracted for the proposed development and Hinkley Point C (HPC).</td>
<td>Low cross section intake head and unchlorinated FRR systems fitted.</td>
<td>The combined losses of seabass from both stations is below the 1% spawning stock biomass threshold. Effects are minor adverse at the stock level and are not significant relative to natural variability.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant.</td>
</tr>
<tr>
<td>Receptor</td>
<td>Impact</td>
<td>Primary or Tertiary Mitigation</td>
<td>Assessment of effects</td>
<td>Additional Mitigation</td>
<td>Residual Effects</td>
</tr>
<tr>
<td>----------</td>
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</tr>
<tr>
<td>European Eel</td>
<td>Underwater noise from piling for the BLF and six OWFs with potential temporal overlap in piling activities.</td>
<td></td>
<td>The combined losses of eel from both stations is low. Losses from the proposed development is below 1% of eel landings, whilst losses from HPC are less than 0.1% of SSB. Effects are <em>minor adverse</em> at the stock level and are not significant relative to natural variability.</td>
<td>None</td>
<td>Minor adverse effects.</td>
</tr>
<tr>
<td>Harbour porpoise.</td>
<td>Underwater noise from piling for the BLF and six OWFs with potential temporal overlap in piling activities.</td>
<td>Statutory nature conservation agency protocol for minimising the risk of injury to marine mammals from piling noise (Ref. 1.38). Where feasible piling should be avoided during periods of high water to reduce the potential for underwater noise propagation.</td>
<td>If all six projects were to undertake single piling at the same time as the proposed development there is the potential for <em>minor adverse effects</em> for harbour porpoise. The proposed development will not exceed, neither individually nor in combination, the proposed thresholds for Southern North Sea SAC. Therefore, the conservation objectives and site integrity will be maintained. No significant disturbance of harbour porpoises is expected.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant.</td>
</tr>
<tr>
<td>Grey and Harbour seals</td>
<td>Underwater noise from piling for the BLF and six OWFs with potential temporal overlap in piling activities.</td>
<td>Statutory nature conservation agency protocol for minimising the risk of injury to marine mammals from piling noise (Ref. 1.38). Where feasible piling should be avoided during periods of high water to reduce the potential for underwater noise propagation.</td>
<td><em>Minor adverse effects</em> are predicted for single piling events with less than 5% of the reference population exposed to disturbance. The relative contribution of the proposed development to underwater noise effects is extremely low. Predicted impacts on harbour seals from piling at the proposed development would effect 1 individual. The removal of the proposed development from</td>
<td>None</td>
<td>Minor adverse effects. Not Significant</td>
</tr>
<tr>
<td>Receptor</td>
<td>Impact</td>
<td>Primary or Tertiary Mitigation</td>
<td>Assessment of effects</td>
<td>Additional Mitigation</td>
<td>Residual Effects</td>
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<td>the cumulative assessment would result in the same prediction of effects. Any additive effect from the proposed development would be very short lived, in the order of days.</td>
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<tr>
<td>Marine mammals</td>
<td>Changes in prey availability due to impigement, entratement and underwater noise from piling</td>
<td>The FRR system designed to minimise impacts on impinged fish and invertebrates. Coarse bar screens at the intake are in place to prevent large prey entering the cooling water system.</td>
<td>No significant cumulative effect on the availability of prey species for marine mammals in the North Sea.</td>
<td>None</td>
<td>Minor adverse effects. Not Significant</td>
</tr>
<tr>
<td>Commercial and recreational fisheries</td>
<td>Displacement of fishing activities due to construction of the proposed development and four other developments with the potential for spatial overlap.</td>
<td>Provision of Notice to Mariners (NtM).</td>
<td>Limited information is available meaning quantitative assessments of cumulative effects are not feasible. However, any closures to vessels are predicted to be short-term and localised. Once construction works are complete activities such as the potting and netting currently undertaken would be able to resume. As such, significant effects on commercial and recreational fisheries are not anticipated.</td>
<td>None</td>
<td>No significant effects anticipated.</td>
</tr>
</tbody>
</table>
References


1.6. ICES. Sea Bass (Dicentrarchus Labrax) in Divisions 4.b–c, 7.a, and 7.d–h (Central and Southern North Sea, Irish Sea, English Channel, Bristol Channel, and Celtic Sea). Celtic Seas and Greater North Sea Ecoregions. Bss.27.4bc7ad-h. Published 29 June 2018. 2018.


phocoena) at the First Offshore Wind Farm in Germany. Environmental Research Letters, 2013, 8 (2), pp. 025002.


Appendix 4C.1: Cumulative Effects Assessment Project Screening

1.1 Introduction

1.1.1 The information in this Appendix summarise the results of the Cumulative Effect Assessment (CEA) screening process. Projects were screened in or out of the marine ecology CEA based on the following criteria:

- Whether temporally the project has the potential to overlap with the Sizewell C development.
- The potential to cause an impact which could have a cumulative effect with the proposed development.
- From a Tier that was screened into the assessment.
- Projects have been considered from as wide a geographical area as possible and cover the zones of influence for each receptor.
- The geographical overlap of impacts from projects has been considered at a receptor level and the zone of influence is discussed in the relevant section.
- It is likely that the decommissioning of nuclear, renewable and oil and gas projects will themselves require environmental impact assessments. Due to this and the timescales involved it is not possible at this stage to accurately predict the impacts associated with decommissioning. For this reason, whilst considered in the project screening, any decommissioning impacts are scoped out of the CEA.
- The screening is based on the widest likely range of construction dates with an additional temporal buffer to activities that are close to each other in time, as any effects from a preceding activity may not have recovered before the subsequent activity begins (Plate 1.1).
- Screening is divided by industry to assess projects with potential to cause cumulative impacts, including: nuclear power; offshore renewables; aggregate extraction/mining; and oil and gas exploration.
Plate 1.1: Indicative development timeline for assessment scenarios

<table>
<thead>
<tr>
<th>Activity Components</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7</th>
<th>Year 8</th>
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<td>Commissioning (including cold water test)</td>
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<tr>
<td>Not flush testing discharges would be made via the Outfall once the cooling water system is operational</td>
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</table>

Key:
- Impact piling: Primary noise generating activities
- Tunnel boring machine discharges
- Dredging and drilling activities
- Primarily terrestrial activities above M1WSS
- Treated sewage discharges
- Commissioning discharges
- Operational Phase

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1.2. Data Sources

1.2.1 The CIA has been based on data collected from a variety of sources. These include, but are not limited to:

- MMO Marine Information System;
- MMO Licensing Public Register;
- Nationally Significant Infrastructure Planning Portal;
- EMODnet human activities portal;
- Crown Estate Maps and GIS portal;
- Suffolk Coastal and Waveney Council Planning Application Portal;
- East Anglia Project website;
- Defra MAGIC maps;
- 4C Offshore Winds Database (http://www.4coffshore.com/offshorewind/).

1.3. Discharge consents

1.3.1 Discharge considered in the CEA screening process are listed in Table 1.1. Discharges were screened in where there was potential for overlap with the proposed construction, operation and development timetable for the proposed development.

1.3.2 The discharges listed are those that are currently licensed.

1.3.3 The screening identified 12 projects with the potential for cumulative effects on marine ecology receptors.

Table 1.1: CEA screening output for EA discharge consents where there is potential for impacts to overlap with operation or decommissioning phases of the proposed development (within 10km)

<table>
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<th>Consent Number</th>
<th>Consent Holder</th>
<th>Type of Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN/PRECS03962/004</td>
<td>Sizewell B Power Station</td>
<td>Waste Collection/Treatment/Disposal/Materials Recovery</td>
</tr>
<tr>
<td>AN/PR4CS1516/005</td>
<td>Magnox Limited</td>
<td>Waste Collection/Treatment/Disposal/Materials Recovery</td>
</tr>
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</table>
1.4. Renewable Energy

1.4.1 Table 1.1 details the European offshore renewables developments considered in the CEA screening process. Projects listed in Tiers 1-4 within the zones of influence for marine ecology receptors were screened in where construction, operation or decommissioning phases had the potential for overlap with the proposed construction, operation and development timetable for the proposed development.

1.4.2 Whilst listed, Tier 5 projects have not been screened in to the overall assessment given the uncertainties associated with progress of early stage developments. It is expected that the predicted effects of the proposed development should instead be incorporated within the baseline assessment for Tier 5 assessments.

1.4.3 The construction period for all Tier 3 projects (consent projects, where development has not yet started) was assumed to be the maximum allowable (seven-year consent window). This precautionary approach was adopted to account for unforeseen delays or changes to construction schedule, and ensures that screening considers the worst case scenario.
1.4.4 The screening identified 125 offshore renewables developments with the potential for temporal cumulative effects on marine ecology receptors. Of these, nine have the potential for overlap with the construction phase and 119 with the development phase.
Table 1.2: CEA screening output for European offshore renewables where there is potential for impacts to overlap with Sizewell C construction and operation phases. Y = yes; N = no

<table>
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<th>Name of Project</th>
<th>Country</th>
<th>Status</th>
<th>Tier</th>
<th>Phase of Plan Screened into CEA</th>
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<tr>
<td>Inner Dowsing</td>
<td>UK</td>
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<td>N</td>
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<tr>
<td>Kentish Flats</td>
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<td>Kentish Flats Extension</td>
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### Marine Ecology and Water Quality Cumulative Effects Assessment

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Brims (Cantick Head) Tidal Development | UK | Application submitted | 4 | Construction: N, Operation and Maintenance: Y
1.5. Interconnector Projects

1.5.1 UK interconnector projects considered in the CEA screening process are listed in Table 1.1.

1.5.2 No projects were identified in Tiers 1-4. No European projects were screened into the assessment due the absence of available information.

1.5.3 The screening identified 2 projects with the potential for cumulative effects marine ecology receptors in the construction phase.

Table 1.3: CEA screening output for UK interconnector projects with potential to overlap with construction, operation or decommissioning phases of the proposed development. Y = yes; N = no

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1.6. Aggregate Extraction

1.6.1 UK aggregate extraction, dredge disposal areas and sites natural resource exploitation considered in the CEA screening process are listed in Table 1.1. Projects listed in Tiers 1-4 within the zones of influence for marine ecology receptors were screened in where there was potential for overlap with the proposed construction, operation and development timetable for the proposed development.

1.6.2 No projects were identified in Tiers 3, 4 or 5. No European projects were screened into the assessment due the absence of available information.

1.6.3 The screening identified 91 projects with the potential for cumulative effects marine ecology receptors in the operational phase.
Table 1.4: CEA screening output for UK aggregate extraction with potential to overlap with Sizewell C construction and operation phases. Y = yes; N = no

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## Marine Ecology and Water Quality Cumulative Effects Assessment

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1.7. **Water Abstraction**

1.7.1 Water abstraction projects considered in the CEA screening process are listed in **Table 1.2**. Projects were screened where there was potential for overlap with the proposed construction, operation and development timetable for the proposed development.

1.7.2 Data has been provided by the EA with the following notes, which apply to **Table 1.2**.

1.7.3 Information provided for current live water abstraction licences is based on that available at the time of preparation (June 2019). Timing of licence renewals and updates to the dataset may impact on the information available.

1.7.4 The maximum daily and annual authorised quantities, are the quantities that can be abstracted under the licence within the authorised period of abstraction. No account is taken of ‘licence to licence’ aggregate quantity conditions.

1.7.5 If the same water abstraction licence number is listed multiple times it means the licence authorises abstraction from multiple points and/or for multiple purposes.

1.7.6 Maximum authorised annual and daily quantity does not take into account any conditions which may restrict abstraction.

1.7.7 New projects have not been screened in given the uncertainties associated with progress of early stage developments. It is expected that the predicted effects of the proposed development should instead be incorporated within the baseline assessment for new projects. No European projects were screened into the assessment due the absence of available information.

1.7.8 The screening identified 69 projects with the potential for cumulative effects. However, all developments abstracting seawater are Tier 1 (i.e. consented and operational) and form part of the existing baseline.
Table 1.5: Developments within 10km of the English coastline with permits for water abstraction in 2019 (Source: Environment Agency, 2019)

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<th>Development Description</th>
<th>Maximum Abstraction (m³)</th>
<th>Annual Abstraction (m³)</th>
<th>Maximum Daily Abstraction (m³)</th>
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<td>2,520.0</td>
<td>2,520.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>River Tees - Tidal - Tees Dock Potash Terminal</td>
<td>95,557.0</td>
<td>261.8</td>
<td>261.8</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Seaton On Tees Channel - Tidal</td>
<td>14,000.0</td>
<td>108.0</td>
<td>108.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Gladstone Dock (No. 2), Bootle, Merseyside</td>
<td>18,386,000.0</td>
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<td>108,000.0</td>
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<td>Estuary of River Wyre at Burn Naze Fleetwood Lancashire</td>
<td>25,457,600.0</td>
<td>70,008.4</td>
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<td>2,836.7</td>
<td>141.8</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Heysham Harbour, Heysham</td>
<td>1,092,740,204.0</td>
<td>5,987,627.5</td>
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<td>4,309,608.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Devonshire &amp; Buckleuch Docks at Barrow-In-Furness</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Walney Channel at The Deep Water Berth Barrow In Furness</td>
<td>31,822,000.0</td>
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### Description of Water Abstraction

<table>
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<tr>
<th>Description of Water Abstraction</th>
<th>Development Description</th>
<th>Maximum Abstraction (m³)</th>
<th>Annual Abstraction (m³)</th>
<th>Maximum Daily Abstraction (m³)</th>
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</thead>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Walney Channel at The Deep Water Berth Barrow In Furness</td>
<td>18,502.2</td>
<td></td>
<td>654.6</td>
</tr>
<tr>
<td>Industrial, Commercial and Public Services</td>
<td>River Mersey at Birkenhead, Wirral</td>
<td>250,000.0</td>
<td></td>
<td>16,320.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>River Mersey Dock System, Dock Road, West Float</td>
<td>32,000.0</td>
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<td>150.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Canada Dock West A</td>
<td>50,080.0</td>
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<td>501.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Culvert at Tidal River Wyre, Fleetwood Fish Dock, Lancashire</td>
<td>29,000,000.0</td>
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<td>80,000.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>River Medway at Foster Yeoman</td>
<td>35,420.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Shoreham Harbour</td>
<td>180,000,000.0</td>
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<td>500,000.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Canal Basin (Shoreham Harbour)</td>
<td>65,000.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>River Arun Estuary - Tidal</td>
<td>39,277.4</td>
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<td>163.7</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Shoreham Power Station</td>
<td>260,000,000.0</td>
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<td>710,000.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Point A River Itchen Empress Dock Southampton</td>
<td>236,000.0</td>
<td></td>
<td>3,888.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Esso Refinery, Fawley</td>
<td>193,000,000.0</td>
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<td>528,770.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Marchwood Incinerator</td>
<td>28,908,000.0</td>
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<td>79,200.0</td>
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<td>Industrial, Commercial and Public Services</td>
<td>Tidal Reaches of the River Test (Southampton Water)</td>
<td>473,040,000.0</td>
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<td>1,296,000.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Portsmouth Harbour at Portsmouth Commercial Port</td>
<td>128,772.0</td>
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<td>635.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Gunwharf Quays, Portsmouth</td>
<td>36,500.0</td>
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<td>100.0</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>River Teign</td>
<td>60,000.0</td>
<td></td>
<td>1,472.9</td>
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<tr>
<td>Industrial, Commercial and Public Services</td>
<td>Brixham Outer Harbour at Freshwater Quarry</td>
<td>40,320.0</td>
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<td>308.0</td>
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## Description of Water Abstraction

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<th>Development Description</th>
<th>Maximum Abstraction (m³)</th>
<th>Annual</th>
<th>Maximum Daily Abstraction (m³)</th>
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<tr>
<td>Industrial, Commercial and Public Services</td>
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<td></td>
<td></td>
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<tr>
<td>Inland Water Known as Hamoaze - Point A</td>
<td>3,180,000.0</td>
<td>36,000.0</td>
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<td>Inland Water Known as Hamoaze at Devonport Royal Dockyard</td>
<td>5,510,424.0</td>
<td>68,304.0</td>
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<tr>
<td>Restormel Estates Ltd - Tidal River Fowey</td>
<td>1,227,440.0</td>
<td>3,364.0</td>
<td></td>
</tr>
<tr>
<td>River Teign at Teignmouth Docks</td>
<td>43,800.0</td>
<td>120.0</td>
<td></td>
</tr>
<tr>
<td>Mount Wise Swimming Pools, River Tamar, Plymouth</td>
<td>3,120.0</td>
<td>480.0</td>
<td></td>
</tr>
<tr>
<td>Industrial, Commercial and Public Services - Restormel Estates Ltd - Tidal River Fowey</td>
<td>1,227,440.0</td>
<td>3,364.0</td>
<td></td>
</tr>
<tr>
<td>River Teign at Teignmouth Docks</td>
<td>43,800.0</td>
<td>120.0</td>
<td></td>
</tr>
<tr>
<td>Industrial, Commercial and Public Services - River Teign at Teignmouth Docks</td>
<td>43,800.0</td>
<td>120.0</td>
<td></td>
</tr>
<tr>
<td>Industrial, Commercial and Public Services - Mount Wise Swimming Pools, River Tamar, Plymouth</td>
<td>3,120.0</td>
<td>480.0</td>
<td></td>
</tr>
<tr>
<td>Industrial, Commercial and Public Services - Kenwith Pumping Station on the River Torridge</td>
<td>55,000.0</td>
<td>24,000.0</td>
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<tr>
<td>Production of Energy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>River Humber - N. Killingholme</td>
<td>29,300,000.0</td>
<td>80,000.0</td>
<td></td>
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<tr>
<td>Production of Energy</td>
<td>29,300,000.0</td>
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<td></td>
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<tr>
<td>Production of Energy</td>
<td>14,643,600.0</td>
<td>40,013.0</td>
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<td>Production of Energy</td>
<td>869,616,000.0</td>
<td>2,376,000.0</td>
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<td>Production of Energy</td>
<td>293,284,800.0</td>
<td>803,520.0</td>
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<tr>
<td>Production of Energy</td>
<td>1,098,981,800.0</td>
<td>3,010,900.0</td>
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<tr>
<td>Production of Energy</td>
<td>127,344,370.0</td>
<td>380,227.0</td>
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<td>23,652,000.0</td>
<td>64,800.0</td>
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<td>Water Supply</td>
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<td>River Hull - Tidal - Kingston Upon Hull</td>
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<td>150,000.0</td>
<td>28,512.0</td>
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</table>
1.8. Nuclear Power

1.8.1 European nuclear power developments in Tiers 1-4 within the zones of influence were considered for potential overlap with construction, operation and decommissioning at the proposed development (Table 1.3). Developments within Tier 5 were not considered; given the uncertainties associated with progress of early stage developments. It is expected that the predicted effects of the proposed development should instead be incorporated within the baseline assessment for Tier 5 assessments.

1.8.2 The screening identified eight nuclear power developments with the potential for cumulative effects on marine ecology receptors. Of these, one (Hinkley C) has the potential for overlap with the construction phase and eight with the operational phase.
Table 1.6: CEA screening output for European nuclear power developments where there is potential for impacts to overlap with Sizewell C construction and operation phases. Y = yes; N = no

<table>
<thead>
<tr>
<th>Name of Project</th>
<th>Country</th>
<th>Status</th>
<th>Tier</th>
<th>Phase of Plan Screened into CEA</th>
<th>Construction</th>
<th>Operation and Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torness</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Hartlepool</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Sizewell B</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Bradwell B</td>
<td>UK</td>
<td>Pre-Application</td>
<td>5</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Dungeness B</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Hunterston B</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Heysham 1</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Heysham 2</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Hinkley B</td>
<td>UK</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Hinkley C</td>
<td>UK</td>
<td>Construction</td>
<td>2</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Wylfa Newydd</td>
<td>UK</td>
<td>Application submitted</td>
<td>4</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Flamanville (1-2)</td>
<td>France</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Flamanville (3)</td>
<td>France</td>
<td>Construction</td>
<td>2</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
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<td>Gravelines</td>
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<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Penly</td>
<td>France</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Paluel</td>
<td>France</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Name of Project</td>
<td>Country</td>
<td>Status</td>
<td>Tier</td>
<td>Phase of Plan Screened into CEA</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Construction</td>
<td>Operation and Maintenance</td>
<td></td>
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<tr>
<td>Borssele</td>
<td>Netherlands</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td></td>
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<tr>
<td>Unterweser</td>
<td>Germany</td>
<td>Decommissioning</td>
<td>NA</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Brokdorf</td>
<td>Germany</td>
<td>Operational</td>
<td>1</td>
<td>N</td>
<td>N</td>
<td></td>
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<tr>
<td>Brunsbüttel</td>
<td>Germany</td>
<td>Decommissioning</td>
<td>NA</td>
<td>N</td>
<td>N</td>
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</table>
### Appendix 4C.2: Alternative Assessments of Disturbance to Marine Mammals During Piling

Table 1.1: CEA for the potential disturbance of harbour porpoise during single piling of marine developments based on developments which could be piling at the same time with possible temporal overlap with the BLF at Sizewell C (East Anglia Three example).

<table>
<thead>
<tr>
<th>Project</th>
<th>Tier</th>
<th>Distance to Sizewell C</th>
<th>SCANS-III Survey Block</th>
<th>SCANS-III Density Estimate (No./km²)</th>
<th>Potential Number of Harbour Porpoise Disturbed During Single Piling Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizewell C</td>
<td>4</td>
<td>N/A</td>
<td>L</td>
<td>0.607</td>
<td>62.05</td>
</tr>
<tr>
<td>Hornsea Project Two</td>
<td>3</td>
<td>179km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>3</td>
<td>272km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>Dogger Bank Teeside A</td>
<td>3</td>
<td>311km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td>East Anglia Three</td>
<td>3</td>
<td>84km</td>
<td>L</td>
<td>0.607</td>
<td>1,289.26</td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>4</td>
<td>83km</td>
<td>L</td>
<td>0.607</td>
<td>1,289.26</td>
</tr>
<tr>
<td>Hornsea Project Three</td>
<td>4</td>
<td>181km</td>
<td>O</td>
<td>0.888</td>
<td>1,886.11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>10,185.01</strong></td>
</tr>
<tr>
<td>% of North Sea Management Unit reference population (345,373 individuals)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.95%</td>
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</table>
Table 1.2: CEA for the potential disturbance of grey and harbour seals during single piling piling of marine developments based on developments which could be piling at the same timewith possible temporal overlap with the BLF at Sizewell C (East Anglia Three example).

<table>
<thead>
<tr>
<th>Project</th>
<th>Tier</th>
<th>Distance to the Proposed Development</th>
<th>Grey Seal Density Estimate (No/km²)(^1)</th>
<th>Harbour Seal Density Estimate (No/km²)(^1)</th>
<th>Potential Number of Grey Seals Disturbed.</th>
<th>Potential Number of Harbour Seals Disturbed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizewell C</td>
<td>4</td>
<td>0</td>
<td>0.046</td>
<td>0.053</td>
<td>0.49</td>
<td>0.56</td>
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<tr>
<td>Hornsea Project 2</td>
<td>3</td>
<td>179km</td>
<td>0.08</td>
<td>0.008</td>
<td>169.92</td>
<td>16.99</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>3</td>
<td>272km</td>
<td>0.05</td>
<td>0.0004</td>
<td>106.20</td>
<td>0.85</td>
</tr>
<tr>
<td>Dogger Bank Teeside A</td>
<td>3</td>
<td>311km</td>
<td>0.09</td>
<td>0.001</td>
<td>191.16</td>
<td>2.12</td>
</tr>
<tr>
<td>East Anglia Three</td>
<td>3</td>
<td>84km</td>
<td>0.00009</td>
<td>0.00009</td>
<td>0.19</td>
<td>0.19</td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>4</td>
<td>83km</td>
<td>0.002</td>
<td>0.06</td>
<td>4.25</td>
<td>127.44</td>
</tr>
<tr>
<td>Hornsea Project 3</td>
<td>4</td>
<td>181km</td>
<td>0.08</td>
<td>0.008</td>
<td>169.92</td>
<td>16.99</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>642.13</strong></td>
<td><strong>165.14</strong></td>
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<tr>
<td>% of Management Unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.31%</td>
<td>3.33%</td>
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</tbody>
</table>

% of Management Unit (19,372 grey seals; 4,965 harbour seals).
Table 1.3: Spatial area and percentage of the whole Southern North Sea SAC exposed to disturbance events from consecutive piling activities. Projects in bold are assessed for worst-case temporal overlap. To note: conservation objectives are divided into Summer and Winter areas, as assessed, rather than the whole SAC.

<table>
<thead>
<tr>
<th>OWF</th>
<th>Intersect area (ha)</th>
<th>Percentage of Southern North Sea (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hornsea Project Two</td>
<td>133,607</td>
<td>3.62</td>
</tr>
<tr>
<td>Dogger Bank Creyke Beck A</td>
<td>209,154</td>
<td>5.66</td>
</tr>
<tr>
<td>Dogger Bank Teesside A</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Thanet Extension</td>
<td>99,588</td>
<td>2.70</td>
</tr>
<tr>
<td>Hornsea Project Three</td>
<td>13,560</td>
<td>0.37</td>
</tr>
<tr>
<td>Norfolk Vanguard East&lt;sup&gt;2&lt;/sup&gt;</td>
<td>188,105</td>
<td>5.09</td>
</tr>
<tr>
<td>Norfolk Vanguard West&lt;sup&gt;2&lt;/sup&gt;</td>
<td>197,572</td>
<td>5.35</td>
</tr>
<tr>
<td>Norfolk Vanguard Combined&lt;sup&gt;2&lt;/sup&gt;</td>
<td>327,626</td>
<td>8.87</td>
</tr>
<tr>
<td>East Anglia Three</td>
<td>203,643</td>
<td>5.51</td>
</tr>
<tr>
<td>Sizewell C 140 dB TTS</td>
<td>10,132</td>
<td>0.27</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>793,667</strong></td>
<td><strong>21.49</strong></td>
</tr>
</tbody>
</table>

<sup>1</sup> It should be noted areas are calculated based on WGS84 UTM 31N projections, however, errors between geodetic transformations are approximately 0.06% and has no bearing on the outcome of the assessment.

<sup>2</sup> A conservative approach assumes both Norfolk Vanguard OWFs piling concurrently.