



# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

## **Volume 2**

Supporting Figures to Chapter 26 -

Landscape and Visual Impact Assessment

March 2023

Document Reference: 6.2.26.1

APFP Regulation: 5(2)(a)



Title:	
<b>Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Examination submission Supporting Figures to Chapter 26: Landscape and Visual Impact Assessment Volume 2 Figures (Part 1 of 12)</b>	
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Prepared by:	
<b>Royal HaskoningDHV</b>	
Approved by:	Date:
<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.17 – Viewpoint 1 – Bridleway (Swardeston BR9) – Part 1

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

Z:\7273\_UK\_EXTENSION\_PROJECTS\6DOCS\DCO EXAMINATION\VISUALS\PB8164\_LDA\_ZZ\_ON\_DR\_Z\_0052\_VIEWPOINT1BRIDLEWAYSWARDESTONBR9\_EX\_UPDATE.INDD



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

**LEGEND**

- External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development
- Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development



Camera Location (OS Grid Reference): 621207 E 302180 N  
 Ground Level (mAOD): 36.6m  
 Direction of View: bearing from North (0°): 115°  
 Distance to Substation: 0.6km

Horizontal Field of View: 90° (Cylindrical projection)  
 Paper Size: 841mm x 297mm (Half A1)  
 Enlargement Factor: 96%  
 Visualisation Type: Type 3

Photo Date / Time: 17/02/2021 15:07  
 Camera Model and Sensor Format: Canon EOS 6D Mark II, FFS  
 Lens Make, Model and Focal Length: Sigma 50mm f1.4  
 Height of Camera Lens above Ground (mAOD): 1.5m

**NOTES**  
 The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
 DOCUMENT: Environmental Statement (ES)  
 Chapter 26 Landscape and Visual Impact Assessment  
 APPLICATION DOC. NO.: 6.2.26

Figure 26.17  
**Viewpoint 1 - Bridleway (Swardeston BR9)**  
 EQUINOR DOC. NO.: C282-LD-Z-GA-00004  
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# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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Supporting Figures to Chapter 26 -

Landscape and Visual Impact Assessment

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<b>Royal HaskoningDHV</b>	
Approved by:	Date:
<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

**List of Figures**

26.17 – Viewpoint 1 – Bridleway (Swardeston BR9) – Part 2

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].



Photomontage Year 1

	Camera Location (OS Grid Reference): 621207 E 302180 N Ground Level (mAOD): 36.6m Direction of View: bearing from North (0°): 115° Distance to Substation: 0.6km	Horizontal Field of View: 90° (Cylindrical projection) Paper Size: 841mm x 297mm (Half A1) Enlargement Factor: 96% Visualisation Type: Type 3	Photo Date / Time: 17/02/2021 15:07 Camera Model and Sensor Format: Canon EOS 6D Mark II, FFS Lens Make, Model and Focal Length: Sigma 50mm f1.4 Height of Camera Lens above Ground (mAOD): 1.5m	NOTES: The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18, Outline Landscape Management Plan'. The photomontage is based on LIDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.		COPYRIGHT Ordnance Survey material by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. All rights reserved. 2020 Reference number 0100031673.		<b>Sheringham Shoal and Dudgeon Extension Projects</b> DOCUMENT: Environmental Statement (ES) Chapter 26 Landscape and Visual Impact Assessment APPLICATION DOC. NO.: 6.2.26	Figure 26.17 Viewpoint 1 - Bridleway (Swardeston BR9)	Sheet 1 of 1 EQUINOR DOC. NO.: C282-LD-Z-GA-00004 RHDHV DOC. NO.: PB8164_LDA_ZZ_ON_DR_Z_0052 REV: A DATE: 11/07/2022 STATUS: First Issue DRW: VW CHK: NA APR: CG
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# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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26.17 – Viewpoint 1 – Bridleway (Swardeston BR9) – Part 3

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

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Photomontage Year 15



Camera Location (OS Grid Reference): 621207 E 302180 N  
 Ground Level (mAOD): 36.6m  
 Direction of View: bearing from North (0°): 115°  
 Distance to Substation: 0.6km

Horizontal Field of View: 90° (Cylindrical projection)  
 Paper Size: 841mm x 297mm (Half A1)  
 Enlargement Factor: 96%  
 Visualisation Type: Type 3

Photo Date / Time: 17/02/2021 15:07  
 Camera Model and Sensor Format: Canon EOS 6D Mark II, FFS  
 Lens Make, Model and Focal Length: Sigma 50mm f1.4  
 Height of Camera Lens above Ground (mAOD): 1.5m

NOTES:  
 The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18, Outline Landscape

Management Plan'. The photomontage is based on LIDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
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Figure 26.17  
**Viewpoint 1 - Bridleway (Swardeston BR9)** Sheet 1 of 1  
 EQUINOR DOC. NO.: G282-LD-Z-GA-00004  
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# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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Approved by:	Date:
<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.17 – Viewpoint 1 – Bridleway (Swardeston BR9) – Part 4

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].



Wireline drawing

**LEGEND**

- External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development
- Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.







# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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Supporting Figures to Chapter 26 -

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March 2023

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<b>Royal HaskoningDHV</b>	
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<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.18 – Viewpoint 2 – Permissive Bridleway, west of A410 – Part 1

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].





# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.18 – Viewpoint 2 – Permissive Bridleway, west of A410 – Part 2

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

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Photomontage Year 1



Camera Location (OS Grid Reference): 622134 E 301913 N  
 Ground Level (mAOD): 24.4m  
 Direction of View: bearing from North (0°): 265°  
 Distance to Substation: 0.2km

Horizontal Field of View: 90° (Cylindrical projection)  
 Paper Size: 841mm x 297mm (Half A1)  
 Enlargement Factor: 96%  
 Visualisation Type: Type 3

Photo Date / Time: 19/02/21 10:16  
 Camera Model and Sensor Format: Canon EOS 6D Mark II, FFS  
 Lens Make, Model and Focal Length: Sigma 50mm f1.4  
 Height of Camera Lens above Ground (mAOD): 1.5m

**NOTES**  
 The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18, Outline Landscape

Management Plan'. The photomontage is based on LIDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
 DOCUMENT: Environmental Statement (ES)  
 Chapter 26 Landscape and Visual Impact Assessment  
 APPLICATION DOC. NO.: 6.2.26

Figure 26.18 Viewpoint 2 - Permissive Bridleway, west of A140 Sheet 1 of 1  
 EQUINOR DOC. NO.: C282-LD-Z-GA-00004  
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# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.18 – Viewpoint 2 – Permissive Bridleway, west of A410 – Part 3

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

Z:\2723\_UK\_EXTENSION\_PROJECTS\6DOCS\DOCS\EXAMINATION\VISUAL\SPB8164\_LDA\_ZZ\_ON\_DR\_Z\_0053\_VIEWPOINT2\PERMISSIVEBRIDLEWAYWESTOF140\_EX\_UPDATE.INDD



Photomontage Year 15



Camera Location (OS Grid Reference): 622134 E 301913 N  
 Ground Level (mAOD): 24.4m  
 Direction of View: bearing from North (0°): 265°  
 Distance to Substation: 0.2km

Horizontal Field of View: 90° (Cylindrical projection)  
 Paper Size: 841mm x 297mm (Half A1)  
 Enlargement Factor: 96%  
 Visualisation Type: Type 3

Photo Date / Time: 19/02/21 10:16  
 Camera Model and Sensor Format: Canon EOS 6D Mark II, FFS  
 Lens Make, Model and Focal Length: Sigma 50mm f1.4  
 Height of Camera Lens above Ground (mAOD): 1.5m

**NOTES**  
 The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18, Outline Landscape

Management Plan'. The photomontage is based on LIDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
 DOCUMENT: Environmental Statement (ES)  
 Chapter 26 Landscape and Visual Impact Assessment  
 APPLICATION DOC. NO.: 6.2.26

Figure 26.18  
**Viewpoint 2 - Permissive Bridleway, west of A140**  
 EQUINOR DOC. NO.: C282-LD-Z-GA-00004  
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# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

## **Volume 2**

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Landscape and Visual Impact Assessment

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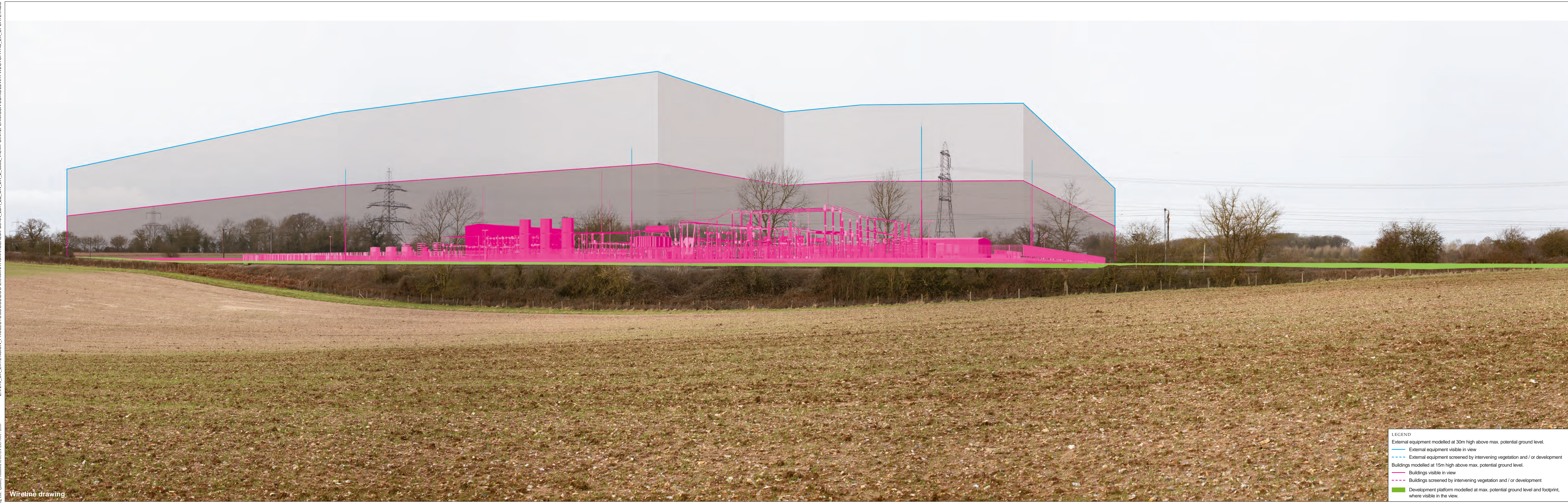
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<b>Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Examination submission</b>	
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<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

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26.18 – Viewpoint 2 – Permissive Bridleway, west of A410 – Part 4

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

Z:\27273\_UK\_EXTENSION\_PROJECTS\6DOCS\DCO EXAMINATION\VISUAL SP\B8164\_LDA\_ZZ\_ON\_DR\_Z\_0063\_VIEWPOINT2\PERMISSIVE BRIDLEWAY WEST OF A140\_EX\_UPDATE.INDD



Wireline drawing

**LEGEND**

- External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development
- Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.



Camera Location (OS Grid Reference):	622134 E 301913 N
Ground Level (mAOD):	24.4m
Direction of View: bearing from North (0°):	265°
Distance to Substation:	0.2km

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	19/02/21 10:16
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

**NOTES:** This visualisation has been produced at the request of the Examining Authority at Deadline 2 for the Accompanied Site Inspection on Friday 24th March 2023, and is to be read alongside the LVIA visualisations submitted to the Examining Authority as part of the DCO application (see APP-157 to APP-162). This visualisation presents the existing view at Year 1, with overlays of both the parameters and indicative 3D model of the substation, allowing only for the screening effects of existing landform. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
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Figure 26.18  
**Viewpoint 2 - Permissive Bridleway, west of A140**  
EQUINOR DOC. NO.: C282-LD-Z-GA-00004  
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26.19 – Viewpoint 3 – Bridleway (Stoke Holy Cross BR3) – Part 1

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

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Baseline photograph

This image provides landscape and visual context only



Wireline drawing

LEGEND

- External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development
- Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development



Camera Location (OS Grid Reference):	622059 E 302189 N	Horizontal Field of View:	90° (Cylindrical projection)
Ground Level (mAOD):	30.6m	Paper Size:	841mm x 297mm (Half A1)
Direction of View: bearing from North (0°):	220°	Enlargement Factor:	96%
Distance to Substation:	0.3km	Visualisation Type:	Type 3

Photo Date / Time:	19/02/2021 11:42
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES  
 The 3D substation wireline model (blue and red lines) is indicative and not based on an accurate design, but shows the maximum design scenario. In reality development is likely to occupy a smaller area, which will be determined at detailed design stage. Solid lines show potential development areas that would be visible. Dashed lines show potential development areas that would be screened by intervening vegetation and / or development. The wireline does not show the parts of the development that would be obscured by landform. The wireline model is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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26.19 – Viewpoint 3 – Bridleway (Stoke Holy Cross BR3) – Part 2

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].



Photomontage Year 1







# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

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26.19 – Viewpoint 3 – Bridleway (Stoke Holy Cross BR3) – Part 3

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Photomontage Year 15



Camera Location (OS Grid Reference):	622059 E 302189 N
Ground Level (mAOD):	30.6m
Direction of View: bearing from North (0°):	220°
Distance to Substation:	0.3km

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	19/02/2021 11:42
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

**NOTES:**  
The 3D substation photomontage is indicative and not based on an accurate design. The photomontage allows for screening effects of existing landform, vegetation and development, in addition to proposed mitigation planting. The mitigation planting design is set out in document '9.18. Outline Landscape

Management Plan'. The photomontage is based on LIDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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**Sheringham Shoal and Dudgeon Extension Projects**  
DOCUMENT: Environmental Statement (ES)  
Chapter 26 Landscape and Visual Impact Assessment  
APPLICATION DOC. NO.: 6.2.26

Figure 26.19  
**Viewpoint 3 - Bridleway (Stoke Holy Cross BR3)**  
EQUINOR DOC. NO.: C282-LD-Z-GA-00004  
RHDHV DOC. NO.: PB8164\_LDA\_ZZ\_ON\_DR\_Z\_0054  
REV: A DATE: 11/07/2022 STATUS: First Issue DRW: VW CHK: NA APR: CG



# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

## **Volume 2**

Supporting Figures to Chapter 26 -

Landscape and Visual Impact Assessment

March 2023

Document Reference: 6.2.26.1

APFP Regulation: 5(2)(a)



Title:	
<b>Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Examination submission Supporting Figures to Chapter 26: Landscape and Visual Impact Assessment Volume 2 Figures (Part 12 of 12)</b>	
PINS document no.: 6.2.26.1	
Revision: A	
Document no.: C282-LD-Z-GA-00013	
Date:	Classification
<b>March 2023</b>	<b>Final</b>
Prepared by:	
<b>Royal HaskoningDHV</b>	
Approved by:	Date:
<b>Sheery Atkins, Equinor</b>	<b>March 2023</b>

**List of Figures**

26.19 – Viewpoint 3 – Bridleway (Stoke Holy Cross BR3) – Part 4

The locations of the visualisations in this document correspond with Viewpoints 1 to 3 shown on **Figure 26.15** in **Chapter 26: Landscape and Visual Impact Assessment Figures (Part 4 of 20)** [APP-156].

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Wireline drawing

LEGEND

- External equipment modelled at 30m high above max. potential ground level.
- External equipment visible in view
- External equipment screened by intervening vegetation and / or development
- Buildings modelled at 15m high above max. potential ground level.
- Buildings visible in view
- Buildings screened by intervening vegetation and / or development
- Development platform modelled at max. potential ground level and footprint, where visible in the view.



Camera Location (OS Grid Reference):	622059 E 302189 N
Ground Level (mAOD):	30.6m
Direction of View: bearing from North (0°):	220°
Distance to Substation:	0.3km

Horizontal Field of View:	90° (Cylindrical projection)
Paper Size:	841mm x 297mm (Half A1)
Enlargement Factor:	96%
Visualisation Type:	Type 3

Photo Date / Time:	19/02/2021 11:42
Camera Model and Sensor Format:	Canon EOS 6D Mark II, FFS
Lens Make, Model and Focal Length:	Sigma 50mm f1.4
Height of Camera Lens above Ground (mAOD):	1.5m

NOTES: This visualisation has been produced at the request of the Examining Authority at Deadline 2 for the Accompanied Site Inspection on Friday 24th March 2023, and is to be read alongside the LVIA visualisations submitted to the Examining Authority as part of the DCO application (see APP-157 to APP-162). This visualisation presents the existing view at Year 1, with overlays of both the parameters and indicative 3D model of the substation, allowing only for the screening effects of existing landform. The 3D substation photomontage is indicative and not based on an accurate design. The photomontage is based on LiDAR 2m digital terrain data, which does not precisely model small scale changes in landform or sharp breaks in slope.



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Figure 26.19  
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