



Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

Volume 3

Appendix 21.4 – Annex 21.4.1: Onshore Substation Setting Assessment Screening Tables

August 2022

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| Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Environmental Statement Annex 21.4.1 Onshore Infrastructure Setting Assessment Screening Tables | |
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Annex 21.4.1 - Step 1: Identify which heritage assets and their settings are affected

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|----------------------------|--|--|--|---|
| Scheduled Monuments | | | | |
| 1002887 | Sites discovered by air photography at Markshall | <p>A possible henge or henge like monument of Late Neolithic to Early Bronze Age date is visible as cropmarks on aerial photographs. It is also thought that the site could be an elaborate round barrow. To the immediate south-west is a large D-shaped enclosure (disc barrow) of similar date.</p> <p>To the south (approximately 0.6km) are cropmarks of a possible medieval settlement along with boundaries and trackways of late Saxon to post-medieval date, visible on aerial photographs. Excavations within the area (not on the asset itself) revealed Neolithic pits, a possible Saxon Grave, medieval and post-medieval ditches.</p> <p>The surrounding landscape is primarily of agricultural fields, with the addition of the A47</p> | <ul style="list-style-type: none"> • These assets are spread over a large area of agricultural land, with the closest aspect being approximately 2.3km north-east of the proposed substation location. • The general topography of the area of the asset is of wide, rising undulations westwards towards the A140/Ipswich Road. • It is generally screened by trees and woodland along the A140/Ipswich Road, alongside visibility being intersected by the Norwich Southern Bypass/A47. • It is possible that from some areas of the Scheduled Monument, the tallest aspect of the substation (Lightning rods) may be visible, as the existing electrical pylons | <ul style="list-style-type: none"> • No further assessment required |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---|---|--|---|
| | | to the north, and Stoke Road to the east. Vegetation along the roadside and in agricultural land along field boundaries. | <p>leading to Norwich Main Substation near to the A140/Ipswich Road were observed.</p> <ul style="list-style-type: none"> • No further assessment required. | |
| 1002888 | Two round barrows near Norwich Lodge, Ketteringham Hall | <p>Two possible Bronze Age round barrows. One was excavated in the mid-19th century and a fragment of roman pottery was discovered. Both barrows visible as earthworks on aerial photographs from 1956.</p> <p>The surrounding landscape is primarily of agricultural landscape, with the assets adjacent to a crossroads of which the road is lined with interspersed trees. There Grade II Listed Norwich Lodge is adjacent to the south-west.</p> | <ul style="list-style-type: none"> • The asset lies approximately 4.5km west-northwest of the proposed substation location. • Whilst generally flat topography exists between the asset and proposed substation location, it is generally screened by trees and woodland located far away from the asset. • Along the horizon in the direction of the proposed substation, some electrical pylons are visible in long-distance views. • No further assessment required. | <ul style="list-style-type: none"> • No further assessment required. |
| 1021463 | Venta Icenorum: Roman town and associated | Venta Icenorum was a civitas capital, first laid out in c. 70AD on the site of an Iron | <ul style="list-style-type: none"> • The south-western extent of the Scheduled Monument is 1km north-east of the | <ul style="list-style-type: none"> • Asset lies between 10 and 30m AOD, the substation l |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---|---|---|--|
| | prehistoric, Anglo-Saxon and medieval remains | <p>Age and Romano-British settlement of the Iceni tribe. RAF aerial photography in 1928 revealed the parched layout of streets and buildings within the enclosure, with subsequent excavations undertaken in 1929-1935. The buried remains of a possible 3rd century triple-ditch defensive system town enclosed a larger, broadly kite-shaped area which may represent a defended Late Iron Age tribal centre, like Colchester. Occupation at the site continued into the 4th century, however several buildings appeared to have burnt down towards the end of the 4th/beginning of the 5th century, which may represent the end of the occupation of the town. The settlement did continue in some form with the Anglo-Saxon cremation and inhumation cemetery in the extra-mural zone to the east. Further evidence of the Anglo-Saxon period at the site is present in the form of</p> | <p>proposed substation location.</p> <ul style="list-style-type: none"> The general topography of the asset is of wide, rising undulations westwards towards the A140/Ipswich Road and eastwards, with the River Tas valley running through the centre of the Scheduled Monument, creating natural screening along the western extent of the Scheduled Monument from the proposed buildings. Large areas of woodland along the A140/Ipswich Road and from Dunston Golf Course to the adjacent south do intersect the visibility between the asset and the proposed substation locations, providing some screening. It is possible that from some areas of the Scheduled Monument, the tallest aspect of the substation (Lightning rods) may be visible, as existing | <p>location lies between 24 and 31m AOD.</p> <ul style="list-style-type: none"> Screened by vegetation and topography. Wire frames and LVIA viewpoints indicate no views between the asset and the proposed substation location (see Figure 21.4.2). No further assessment required. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|-----------------------------------|-----------------------|---|---|--|
| | | possible sunken-floored buildings of the early medieval period overlying the Roman archaeological deposits. | electrical pylons leading to Norwich Main Substation near to the A140/Ipswich Road were observed. <ul style="list-style-type: none"> • Further consideration and setting assessment required. | |
| Grade II* Listed Buildings | | | | |
| 1050515 | Gowthorpe Manor House | A two-storey and attic house that dates to the 16 th and 17 th centuries, with additions and alterations in 1908, for the Styward (Steward) family. Constructed of brick, part encased timber frame, with plain tiles and crowstepped gables. | <ul style="list-style-type: none"> • The collection of Listed Buildings at Gowthorpe Manor are the closest to the proposed substation location, being 0.5-0.7km to the north-west. • There is some screening by the adjacent woodland and surrounding vegetation to the immediate east of the Manor House, however, there will be some visibility due to the close proximity, more likely with the taller aspects of the proposed substations. • There will most likely be some visibility of the proposed substation location | <ul style="list-style-type: none"> • Asset is surrounded by vegetation and tree belts, so screened from substation location. • Confirmed by site visit. • Limited views as shown by wire frames (Figures 21.4.3, 21.4.4 & 21.4.5). • No further assessment required. |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---|--|---|---|
| | | | <p>from the third storey of the Manor House.</p> <ul style="list-style-type: none"> The proposed substation will most likely change the landscape setting of this asset with further loss of the surrounding agricultural landscape (in addition to the existing Norwich Main substation to the east). Further consideration and setting assessment required | |
| 1366141 | Barn c. 40m west of Gowthorpe Manor House | Early 17 th century barn which now houses grain silos, comprising brick, pantiles, with five steads and crowstepped gables. The roof has been re-tiled. The plinth is in Flemish bond with rounded cap, and has a large moulded platband, with the walls below in English bond and the walls above in English bond. | <ul style="list-style-type: none"> Similar to Gowthorpe Manor House, this asset lies to the north-west of the proposed substation location, approximately 0.9km. Whilst the Cowshed appeared to be no longer used for agricultural purposes, it still forms a part of the setting for Gowthorpe Manor House. It has not been altered in its form in any way. The Barn is slightly screened from the proposed | <ul style="list-style-type: none"> Asset is surrounded by vegetation and tree belts, so screened from substation location. Confirmed by site visit. Limited views as shown by wire frames (Figures 21.4.3, 21.4.4 & 21.4.5). No further assessment required. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---------------|---|--|--|
| | | | <p>substation location by the Manor House and intervening adjacent woodland and surrounding vegetation however, there will be some visibility due to the close proximity, more likely with the taller aspects of the proposed substation.</p> <ul style="list-style-type: none"> The proposed substation will most likely change the landscape setting of this asset with the further loss of the surrounding agricultural landscape (in addition to the existing Norwich Main substation to the east). Further consideration and setting assessment required. | |
| 1366150 | Mangreen Hall | House with the façade of c.1700 with additions on an earlier core, and further additions of c.1910. Constructed of brick in Flemish bond with coloured headers and plain tiles. Double depth; range to right with gable to north probably | <ul style="list-style-type: none"> Lies approximately 0.9km north of the proposed substation location. The asset is surrounded by woodland, of which is concentrated to the south and east of the asset. | <ul style="list-style-type: none"> Lies approximately 1km north of the proposed substation location Screened by vegetation, trees, topography and built development. Limited views to proposed substation as indicated by |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|----------------------|---|---|--|
| | | <p>17th century, attached range to left with gable to north and single bay set back c.1700; various additions to rear c.1910; two storeys and attic.</p> <p>Surrounding landscape includes agricultural land, with the addition of woodland surrounding the asset. Manor Hall Farm complex is located to the adjacent south of the asset, which includes the Grade II Listed Barn at Hall Farm with attached Cattle Shelters</p> | <ul style="list-style-type: none"> The agricultural buildings of Mangreen Hall Farm (Farmhouse is Grade II Listed) to the south provide further screening. Further consideration and setting assessment required | <p>viewpoints taken from a footpath to the south of the asset (Figure 21.4.6).</p> <ul style="list-style-type: none"> No further assessment required. |
| 1373136 | Church of All Saints | <p>12th century parish church restored in 1852-3. Constructed on flint with some erratics and iron conglomerate, with minimal dressings and stone window surrounds. Has plain tiles to the south and pantiles to the north. The church has a 12th century tall, round west tower with a 15th century octagonal upper stage, alongside a nave, chancel, south porch, and north vestry. South chancel with marble mural monument to Joseph Muskett</p> | <ul style="list-style-type: none"> Adjacent to Intwood Hall Registered Park and Garden, on the eastern side, although not part of it. Lies approximately 2.8km to the north-west of the proposed substation location. The surrounding landscape, topography (whilst generally flat does have some undulations), alongside several areas of woodland intersect and screen the | <ul style="list-style-type: none"> Lies approximately 2.8km to the north-west of the proposed substation location. Church lies at 15m AOD, with the substation lying at 31m AOD. Topography between the two lies at 37m AOD. Screened by topography and vegetation. Wire frames indicate no views of the substation location from the assets (Figure 21.4.7). |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---------------------|--|---|---|
| | | <p>1832; memorial to Clement W.O. Unthank 1900, died at Lucknow from "the effects of a fall at polo", brass plaque by P. Orr of Madras.</p> <p>Surrounding landscape comprises mostly woodland to the north, and interspersed trees along surrounding roads leading to adjacent RPG Intwood Hall.</p> | <p>visibility with the proposed substation location.</p> <ul style="list-style-type: none"> • There may be some visibility of the proposed substation location from the top of the church tower; this will require an additional site visit. • Further consideration and setting assessment required. | <ul style="list-style-type: none"> • No further assessment required. |
| 1373145 | Church of St Edmund | <p>Early 14th century parish church with some later additions, constructed of uncoursed broken flint, mainly rendered, with stone and brick dressing and slate roof. Comprises a west tower, nave and chancel under two roofs separated by a gable parapet, and a north porch. Canvas achievement to Queen Anne over tower arch.</p> <p>Surrounded by the open landscape of Venta Icenorum.</p> | <ul style="list-style-type: none"> • Lies approximately 2.1km to the north-east of the proposed substation location. • Is surrounded (but not included) by the Scheduled Monument of Venta Icenorum • Similar to the Scheduled Monument, large areas of woodland along the A47 and from Dunston Golf Course to the adjacent south do intersect the visibility with the proposed substation location, providing some screening. | <ul style="list-style-type: none"> • Lies approximately 2.1km to the north-east of the proposed substation location. • The church lies at c.13m AOD, while substation location lies at 31m AOD. Intervening topography lies at 34m AOD. • Screened by vegetation and topography. Wire frames indicate no views between the assets and the proposed substation location (Figure 21.4.3). • No further assessment required. |



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|---------|----------------------------|--|---|---|
| | | | <ul style="list-style-type: none"> The existing electrical pylons leading to Norwich Main Substation are visible from the asset, as it is on a slight peak of an undulation, and as such the tallest aspect of the proposed substation location may be visible, especially from the tower, however this will require an additional site visit. Further consideration and setting assessment required. | |
| 1172267 | Church of St Mary Magdalen | <p>14th century parish church with later additions, constructed of flint stone and some brick dressings, with lead and slate roofs. Comprises a west tower, nave with north aisle and south porch, and chancel with vestry to the north. Wall monument to Sir Edwin Rich (died 1675) with flanking foliage scrolls and model of hourglass above.</p> <p>Surrounded by small areas of woodland to the adjacent north-east, alongside being</p> | <ul style="list-style-type: none"> Within Mulbarton Conservation Area, towards the north-eastern end. Lies approximately 2.3km south-west of the proposed substation location. Whilst the surrounding topography is flat, the asset is generally screened by adjacent vegetation and trees surrounding the church, limiting visibility beyond the church boundary. There may be | <ul style="list-style-type: none"> Lies approximately 2km south-west of the proposed substation location. The church and churchyard are screened by trees and vegetation; however, the tower stands above this. The church lies at c.46m AOD while the site lies at 31m AOD. Viewpoints and wireframes from a footpath to the east of the church show some visibility with the proposed |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|--------------------|---|---|---|
| | | situated within Mulbarton conservation Area, with the common to the adjacent south-west. | <p>some visibility of the proposed substation location from the top of the tower; however, this would require an additional site visit.</p> <ul style="list-style-type: none"> • Further consideration and setting assessment required. | <p>substation location. As such, there will be more visibility from the tower.</p> <ul style="list-style-type: none"> • Further assessed. |
| 1169726 | Church of St Peter | <p>Parish church with 12th century west tower, whilst remainder dates to 14th century. Restored in 1885 when south porch was rebuilt. Constructed of flint with ashlar dressings and plain tile roofs. Comprised of west tower, nave, north aisle and chancel. The west tower is a two-stage circular tower with a 14th century belfry. Memorial brass in chancel to Gilbert Havers 1628: inscription only; he was Captain of Infantry to Elizabeth I.</p> <p>Located within the centre of the urban setting of Swainsthorpe, with agricultural lands beyond (to the south).</p> | <ul style="list-style-type: none"> • Lies approximately 1km south-southeast of the proposed substation location. • Intervening vegetation and trees, alongside the surrounding houses/village of Swainsthorpe intersect the visibility with the proposed substation location. Visibility may be achieved from the top of the tower; however, this would require an additional site visit. • Further consideration and setting assessment required. | <ul style="list-style-type: none"> • Lies approximately 750m south-southeast of the proposed substation location. • Intervening vegetation and trees, along with the surrounding houses/village of Swainsthorpe intersect the visibility between the main body of the church and the proposed substation location. • The church tower stands above the vegetation, trees and houses. • The church lies at 32m AOD while the proposed substation location lies at 31m AOD. • Visibility will be achieved from the top of the tower. • Further assessed. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|--------------------------|---|---|--|
| 1050437 | Church of the Holy Cross | <p>Parish church that mainly dates to the 13th century with 14th century alterations and was heavily restored in 1879. Constructed of flint with ashlar dressings, the nave and chancel are rendered, and has plain tile roofs. Comprises a west tower, nave and chancel. The west tower is a three-stage tower with diagonal buttresses to the west.</p> <p>Immediately surrounded by vegetation and trees, with agricultural land beyond. Located to the south of Stoke Holy Cross.</p> | <ul style="list-style-type: none"> Lies approximately 2.3km east-southeast of the proposed substation location. The surrounding landscape has wide undulations in the topography as the asset is located within the River Tas valley, although near to the top of the valley. This, alongside the trees surrounding the asset, as well as areas of woodland in the landscape intersect the visibility with the proposed substation location. Visibility may be achievable from the top of the tower, although the adjacent trees are likely to limit visibility. This would require an additional site visit to inform the assessment. Further consideration and setting assessment required. | <ul style="list-style-type: none"> Lies approximately 2km east-southeast of the proposed substation location. The churchyard and main body of the church are surrounded by trees, so are screened from the substation location. The church tower stands above the trees. Viewpoints and wireframes taken from Norwich Road adjacent to the church, show intervisibility between it and the proposed substation location. As such, the proposed substation location can be viewed from the church tower. Further assessed. |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| 1050644 | Church of All Saints | <p>Medieval and later parish church constructed of flint with ashlar and some brick dressings with pantiled roofs. Comprised of west tower with vestry to the south, an aisleless nave with north porch and chancel with south aisle. The 15th century west tower has diagonal buttresses. Surviving late medieval wall paintings with one complete figure being burnt. Jacobean communion rail with turned balusters. Located within the undulation of the River Tas Valley within the centre of Shotesham. Has Shotesham Common to the adjacent north-west, with woodland to the south-west.</p> | <ul style="list-style-type: none"> • Located within the south-eastern side of Shotesham Conservation Area, approximately 4.3km south-east of the proposed substation location. • The topography, woodland and vegetation provide screening and intersect the visibility with the proposed substation location. • Similar to the other churches visited, visibility may be achieved from the top of the tower; however, the adjacent trees do limit visibility. This would require an additional site visit to inform the assessment. • Further consideration and setting assessment required. | <ul style="list-style-type: none"> • Located approximately 4km south-east of the proposed substation location. • The church lies at 18m AOD, while the substation option lies at 31m AOD. • Intervening topography lies between 34m AOD and 40m AOD towards Hawes Green and Skeets Hill. • Screened by topography and vegetation (Figure 21.4.8). • No further assessment required. |
| Grade II Listed Buildings | | | | |
| 1050554 | Monument at TG 1735 0342 | <p>Obelisk constructed in 1897 of white marble. Made of a grey granite square base; white marble plinth to obelisk recording its erection at</p> | <ul style="list-style-type: none"> • Lies approximately 4.5km west-northwest of the proposed substation location. | <ul style="list-style-type: none"> • No further assessment required. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|-----------------|---|---|--|
| | | <p>expense of Sir Francis Boileau to commemorate the sixtieth year of the reign to Queen Victoria.</p> <p>Located at the centre of a crossroads, with other designated assets adjacent (LB Norwich Lodge to the south-west, SM Two round barrows near Norwich Lodge). Surrounding landscape includes agricultural fields, with woodland to the south-west, alongside trees interspersed along roadside.</p> | <ul style="list-style-type: none"> Whilst the topography is generally flat between the asset and proposed substation location, it is mostly screened by trees and woodland in the distance in the direction of the proposed substation. In long-distance views of the horizon, in the direction of the proposed substation, some electrical pylons are visible. No further assessment required. | |
| 1172291 | The Old Rectory | <p>Former rectory mainly dating to the 18th century, with earlier and later parts. Has a small section rendered timber framed, otherwise constructed of lime-washed brick with modern plain tiled roofs. 17th century timber frame of two-storeys with attic and 18th century fenestration on south gable-end with metal casements. Also has single storied</p> | <ul style="list-style-type: none"> Within Mulbarton Conservation Area, towards the south-eastern end. Lies approximately 2.3km south-west of the proposed substation location. The surrounding topography is generally flat, which would generally provide limited screening towards the proposed substation locations, however views | <ul style="list-style-type: none"> No further assessment required. |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| | | <p>service wings to east and north.</p> <p>Located within eastern side of Mulbarton Conservation Area, surrounding by vegetation and agricultural land.</p> | <p>towards the proposed substation location were generally screened by intervening vegetation and trees, limiting visibility.</p> <ul style="list-style-type: none"> • No further assessment required. | |
| 1306331 | Keswick Hall | <p>House originally built in 1817, with additions of c. 1839, by William Wilkins for Richard Hudson Gurney. Constructed of Gault brick with stone and rendered dressings with slate roof. Three-storeys, with attached two-storey single range to north with single-storey addition. Principal façade to the garden located to the south. Extensive additions to left and right of building in 1951 for Teacher Training College (not part of listing).</p> <p>Woodland to the adjacent north, with surrounding landscape included Keswick Hall ground, with agricultural land beyond. The A47 is to the south, adjacent to the ground boundary.</p> | <ul style="list-style-type: none"> • Lies approximately 2.2km north-northwest of the proposed substation location. • The landscape between the asset and the proposed substation is intersected by the Norwich southern Bypass/A47 which does limit visibility of the proposed substation location. • Some electrical pylons are visible in long-distance views; however, an additional site visit would confirm if these are in the area of the proposed substation location. • Further consideration and setting assessment required. | <ul style="list-style-type: none"> • Lies approximately 2.3km north-northwest of the proposed substation location. • The hall lies at c.27m AOD while the substation lies at 31m AOD. Intervening topography lies between 24m AOD and 41m AOD. • Screened by topography and vegetation. • Viewpoints and wire frames from the assets indicate no intervisibility with the proposed substation location (Figure 21.4.10). • No further assessment. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|---|--|---|--|
| 1050702 | Paddock Farmhouse | <p>Late 17th century and later farmhouse constructed of brick with pantiled roof, two-storeys with attic and cellar. Later extensions to side and rear.</p> <p>Located within northern end of Mulbarton Conservation Area, surrounding by vegetation and agricultural land. Grade II Listed Paddock Barn to the adjacent north (connected).</p> | <ul style="list-style-type: none"> • Within Mulbarton Conservation Area, towards the northern end. • Lies approximately 2.2km west-southwest of the proposed substation location. • The surrounding topography is generally flat, which would generally provide limited screening towards the proposed substation locations, however views towards the proposed substation locations were screened by intervening vegetation and trees, limiting visibility. • Some electrical pylons were visible in long-distance views towards the proposed substation location. • Further consideration and setting assessment required. | <ul style="list-style-type: none"> • Lies approximately 2km west-southwest of the proposed substation location. • The farmhouse lies at c.38m AOD while the substation lies at 31m AOD. Intervening topography lies at 41m AOD. • Screened by intervening topography and vegetation. • Viewpoints and wireframes from Mulbarton CA show very limited intervisibility between it and the proposed substation location (see Figure 26.21 of Chapter 26: Landscape and Visualisation). • No further assessment. |
| 1050517 | Cowshed c.10m north-west of Barn at Gowthorpe Manor House | 18 th century cowshed constructed of flint with some brick, pantile roof and gable | <ul style="list-style-type: none"> • The furthest of the Listed Buildings at Gowthorpe Manor House, this asset lies | <ul style="list-style-type: none"> • Asset is surrounded by vegetation and tree belts, so |

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| | | <p>parapets. The gable to the south is formerly rendered with fire insurance shield. The doorway is to the right.</p> <p>Converted into modern creative business space, within the Gowthorpe Manor complex. Surrounded by agricultural land and woodland beyond.</p> | <p>to the north-west of the proposed substation location, approximately 0.9km.</p> <ul style="list-style-type: none"> Whilst the Cowshed appeared to be no longer used for agricultural purposes and has been converted into modern creative business space (a business called Production Bureau), it still forms a part of the setting for Gowthorpe Manor House. Generally, the overall form has been little altered. The Cowshed is slightly screened from the proposed substation location by the Barn and Manor House, and intervening adjacent woodland and surrounding vegetation however, there will likely be some visibility due to the close proximity, more likely of the taller aspects of the proposed substation. | <p>screened from substation location.</p> <ul style="list-style-type: none"> Confirmed by site visit. Limited views as shown by wire frames (Figures 21.4.3, 21.4.4 & 21.4.5). No further assessment required. |



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|---------|---|--|---|---|
| | | | <ul style="list-style-type: none"> The proposed substation location will most likely change the landscape setting of this asset with the further loss of the surrounding agricultural landscape (the previous loss associated with the Norwich Main substation to the east). Further consideration and setting assessment required. | |
| 1050516 | Gazebo c.10m South of Gowthorpe Manor House | <p>Early 17th century gazebo made of red brick in English bond with some coloured headers and pantiles. It is a single storey cell with shaped gables and rubbed brick-kneelers. Principal facade to north with four brick pilaster strips and entablature, central doorway with flat arch; small flanking lozenge openings with leaded lights; two moulded bricks to gable above. Returns each with square opening having brick hood mould. South facade with wide inserted doorway, a square opening above with hood mould, now blocked</p> | <ul style="list-style-type: none"> The closest of the Listed Buildings at Gowthorpe Manor House, this asset lies to the north-west of the proposed substation location, approximately 0.8km. The smallest of the assets, it is presumed that the Gazebo is still in use for the Manor House and forms a part of the setting for Gowthorpe Manor House. It has not been altered in its form. | <ul style="list-style-type: none"> Asset is surrounded by vegetation and tree belts, so screened from substation location. Confirmed by site visit. Limited views as shown by wire frames (Figures 21.4.3, 21.4.4 & 21.4.5). No further assessment required. |



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| | | <p>with lozenge honeycomb brick.</p> <p>Within the Gowthorpe Manor complex, located adjacent to the Manor House.</p> <p>Surrounded by agricultural land and woodland beyond</p> | <ul style="list-style-type: none"> The Gazebo is the most screened of the surrounding assets from the proposed substation location due to its small form and stature. It is screened by the intervening adjacent woodland and surrounding vegetation however, there is potential for some visibility due to the close proximity, more likely with the taller aspects of the proposed substation. Further consideration and setting assessment required. | |
| 1170357 | Garden Walls and Gate Piers immediately south-west of Gowthorpe Manor House | <p>16th to 18th century garden walls and gate piers made of brick and flint, with the walls enclosing a garden c.30m x 35m. Gateway to south of two large, rusticated brick piers with overhanging caps having small stone ball finials.</p> <p>Within the Gowthorpe Manor complex, located adjacent to the Manor House.</p> | <ul style="list-style-type: none"> Adjoining and adjacent to Gowthorpe Manor House, this asset lies approximately 0.8km to the north-west of the proposed substation location. The walls encapsulate the adjoining garden to the south-west, whilst the gate piers are located to the front entrance of the Manor House. | <ul style="list-style-type: none"> Asset is surrounded by vegetation and tree belts, so screened from substation locations. Confirmed by site visit. Limited views as shown by wire frames (Figures 21.4.3, 21.4.4 & 21.4.5). No further assessment required. |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|--|--|---|--|
| | | Surrounded by agricultural land and woodland beyond | <ul style="list-style-type: none"> Similar to the other assets within the collection at Gowthorpe Manor, the garden walls and gate piers are screened by the intervening adjacent woodland and surrounding vegetation, and partially by Gowthorpe Manor House itself, however, there most likely will be some visibility due to the close proximity, more likely with the taller aspects of the proposed substation. Further consideration and setting assessment required. | |
| 1050518 | Mangreen Lodge c.50m east of Mangreen Hall | <p>Former stables to Mangreen Hall, it is now two dwellings of two-storeys and attic. Built in c.1700 of brick in Flemish bond with pantiled roof, and shaped gables.</p> <p>Adjacent to Mangreen Hall, with surrounding landscape comprised of woodland to the adjacent south and</p> | <ul style="list-style-type: none"> Lies approximately 0.9km north of the proposed substation location. The asset is surrounded and screened by woodland, of which is concentrated to the south and east of the asset. The visibility with the substation location is also partly screened by the | <ul style="list-style-type: none"> Asset is surrounded by vegetation and tree belts, so screened from substation location. Confirmed by site visit. Limited views as shown by wire frames (Figure 21.4.6). No further assessment required. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| | | agricultural land of Mangreen Hall Farm to south. | agricultural buildings of Mangreen Hall Farm. <ul style="list-style-type: none"> Further consideration and setting assessment required. | |
| 1170403 | Barn at Hall Farm with attached Cattle Shelters | c. 1800 Barn and attached covered mid-19 th century cattle shelters. Barn is located within the Mangreen Hall Farm complex, surrounded by agricultural buildings and agricultural land as well as woodland areas to the adjacent north and east. | <ul style="list-style-type: none"> Lies approximately 0.7km north of the proposed substation location. The asset is located within the Mangreen Hall Farm complex, which is surrounded and screened by intersecting buildings. The visibility with the substation location is also partly screened by the intersecting woodland across the topography to the south of the asset. Further consideration and setting assessment required. | <ul style="list-style-type: none"> Lies approximately 1km north of the proposed substation location The asset is located within the Mangreen Hall Farm complex, which is surrounded and screened by intersecting buildings, vegetation, trees and topography Limited views of the proposed substations as indicated by viewpoints taken from a footpath to the south of the assets (Figure 21.4.6). No further assessment required. |
| 1050519 | Wattle Cottage at TG 2130 0308 c.230m west-north-west of Mangreen Hall | Early 16 th century single storey house with 18 th and 19 th century additions. Constructed of timber frame and brick, which is rendered and colour-washed, with pantiled roof. | <ul style="list-style-type: none"> Lies approximately 0.8km north of the proposed substation location. The southern side of the building is lined with trees | <ul style="list-style-type: none"> No further assessment required. |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|-------------------------------------|--------------------------|---|--|--|
| | | Located to the north-west of Mangreen Hall, surrounded by trees, vegetation and agricultural land beyond. | which extends southwards along Mangreen Lane. <ul style="list-style-type: none"> There is potential for some views of the proposed substation location, although this is likely to be of the taller aspects. No further assessment required. | |
| Registered Parks and Gardens | | | | |
| 1000320 | Intwood Hall (Grade II*) | Intwood Hall lies c.4km south-west of Norwich, immediately south of the southern bypass and to the east of the A11 junction. Although close to the city and road, the Hall and park face south and east across a rural landscape of well-wooded farmland. The park is c.20ha, with gardens of c.2ha and is roughly rectangular in shape with thick plantations along the north and west boundaries. The gardens which surround the hall comprise five walled garden compartments built of red brick (some Grade II Listed). | <ul style="list-style-type: none"> Lies approximately 2.7km to the north-west of the proposed substation location. The surrounding landscape, topography (whilst generally flat does have some undulations), along with several areas of woodland intersect and limit the visibility with the proposed substation locations, although there is potential for the taller aspects of the proposed substation location to be visible. | <ul style="list-style-type: none"> RPG lies between 15m AOD, while substation location lies at 31m AOD. Intervening topography lies between 34m and 37m AOD. Screened by vegetation and topography. Wire frames indicate no views of the substation. Viewpoint from Intwood Hall, shows the asset is screened from the proposed substation location by thick tree cover (Figure 21.4.7). No further assessment required. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------------------------|--------------|---|---|---|
| | | <p>To the south-east a hedge screens the road from the Hall and the park beyond is bounded by plantation woodland. The ground is virtually flat with a slight fall to the south-east. The Hall is located in the centre of the northern boundary on the highest ground and enjoys views across the park to the countryside beyond.</p> <p>Intwood Hall (unlisted) is a 16th century mansion of the Gresham family, rebuilt in the 19th century. The present building is a red-brick country house in the Jacobethan style, which was limited to the east, west, and to the north of the house in the mid-20th century.</p> | | |
| Conservation Areas | | | | |
| N/A | Keswick Mill | <p>Very rural parish despite abutting Norwich, with development concentrated on Low Road. Includes Keswick Mill (1373138), an 18th century watermill that replaced a medieval</p> | <ul style="list-style-type: none"> Lies approximately 3km to the north of the proposed substation location. Views are intersected by the Norwich Southern | <ul style="list-style-type: none"> Lies approximately 3km to the north of the proposed substation location. Views are intersected by the Norwich Southern Bypass/A47, |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| | | <p>watermill. Includes a further two Grade II Listed Buildings: Mill House (1306307), and the dovecote c.20m north-west of Mill House (1050546).</p> | <p>Bypass/A47, screening the Conservation Area.</p> <ul style="list-style-type: none"> Partially screened by surrounding trees and vegetation, along with the topography of the land with the Conservation Area being adjacent to the Mill Stream, which is within the River Tas valley running through the centre of the Conservation Area, creating natural screening. | <p>screening the Conservation Area.</p> <ul style="list-style-type: none"> The Conservation Area is completely screened by surrounding trees and vegetation along with intervening topography. Viewpoint taken from the Conservation Area shows no views between the Conservation Area and proposed substation location (Figures 21.4.9 & 21.4.10). No further assessment. |
| N/A | Shotesham | <p>Placename derives from Saxon <i>Scots-ham</i>, and has numerous buildings dating to medieval period. Has a rolling landscape with numerous level changes.</p> <p>The Parish at one time was divided into twelve portions, which were later amalgamated into four parishes, each served by its own church: All Saints, St. Mary's, St Martin's and St Botolph's. Due to several reasons (Black death,</p> | <ul style="list-style-type: none"> The two areas of the Conservation Area lie approximately 2.9km-3.5km to the south-east of the proposed substation location. The majority of the Conservation Area is within the trough of the River Tas valley, with large undulations within the landscape, limiting views towards the proposed substation location. | <ul style="list-style-type: none"> The two areas of the Conservation Area lie approximately 2.5km-3.5km to the south-east of the proposed substation location. The majority of the Conservation Area is within the trough of the River Tas valley, with large undulations within the landscape, limiting views towards the proposed substation location. |

| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
|---------|------------------|--|--|---|
| | | <p>population decline, church reformation, etc.), St Martin's and St Botolph's parishes were deserted. In 1731, the parishes were amalgamated into one, served by All Saints and St Mary's.</p> | <ul style="list-style-type: none"> The topography, woodland and vegetation provide screening and intersect the visibility between the asset and the proposed substation location | <ul style="list-style-type: none"> The topography, woodland and vegetation provide screening and intersect the visibility between the asset and the proposed substation location (Figure 21.4.8). No further assessment |
| N/A | Stoke Holy Cross | <p>Whilst the parish is large at c.923ha, straddling the River Tas and containing the settlements of Stoke Holy Cross, Upper Stoke and Dunston, the Conservation Area is centered on the mill and bridge over the River Tas. The countryside surrounding the Conservation Area is gently undulating, sloping down to the water meadows either side of the River Tas.</p> <p>Stoke was recorded in Domesday as <i>Stoche</i>: meaning religious or dependent place. The 'Holy Cross' addition is presumed a dedication of the Church.</p> | <ul style="list-style-type: none"> One of the closest Conservation Areas, lies approximately 1.6km to the east of the proposed substation location. The majority of the Conservation Area is within the trough of the River Tas valley, with large undulations within the landscape, with limited views towards the proposed substation location. The topography, woodland and vegetation provide screening and intersect the visibility from the asset and the proposed substation location. | <ul style="list-style-type: none"> Located c.1.6km to the east of the proposed substation location. The majority of the Conservation Area is within the trough of the River Tas valley, with large undulations within the landscape, with limited views towards the proposed substation location. The topography, woodland and vegetation provide screening and intersect the visibility from the asset and the proposed substation location. The Conservation Area lies between 9m AOD and 16m AOD, while the proposed |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| | | | | substation location lies at 31m. <ul style="list-style-type: none"> Intervening topography lies above 16m AOD. Viewpoint taken from the Conservation Area shows no intervisibility with the proposed substation locations (Figure 21.4.11). No further assessment. |
| N/A | Mulbarton | <p>Named <i>Molkebertuna</i> in Domesday, from Old English <i>Meolc-beretun</i>, meaning any outlying dairy farm. In the 13th century, the Manor belonged to Thomas de Omer, who founded the present church.</p> <p>Mulbarton is focused around a large green formed by the clearance of dense woodland. The Parish church appears to be the only surviving medieval building, with the nave and tower dating from the 14th century.</p> | <ul style="list-style-type: none"> Lies approximately 2.1km to the south-west of the proposed substation location. The surrounding topography is generally flat, which would generally provide limited screening towards the proposed substation location, however views towards the proposed substation location were generally screened by intervening vegetation and trees, limiting visibility | <ul style="list-style-type: none"> Lies approximately 2km to the south-west of the proposed substation location. The proposed substation location lies at, while the conservation area lies between 41 AOD and 46 AOD. Intervening topography lies at 41m AOD. Views towards the proposed substation location were generally screened by intervening vegetation and trees, limiting visibility (see Figure 26.21 of Chapter 26: |



| NHLE ID | Asset Name | Description | PEIR screening notes | Setting Assessment notes |
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| | | | | Landscape and Visualisation). • No further assessment. |

