



Immingham Green Energy Terminal

TR030008

Volume 7

7.7 Utilities Statement

Planning Act 2008

Regulation 5(2)(q)

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended)

September 2023

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended)

Immingham Green Energy Terminal Development Consent Order 2023

7.7 Utilities Statement

Regulation Reference	APFP Regulation 5(2)(q)
Planning Inspectorate Case Reference	TR030008
Application Document Reference	TR030008/APP/7.7
Author	Associated British Ports
	Air Products BR

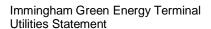
Version	Date	Status of Version
Revision 1	21 September 2023	DCO Application





Table of Contents

Exec	utive Summary	1
1. 1.2. 1.3. 1.4.	Introduction	3 3
2. 2.1.	Summary of Existing Utilities Purpose of this Section	
3. 3.1.	Required New Utility Infrastructure and Connections Purpose of this section	
4. 4.1.	Planned Diversions/Stopping Up and Protection of Existing Utilities Purpose of this section	
5. Parti	Statement of Engagement with Statutory Undertakers and Other Affects	
	endix A Plans showing existing utilities endix B Plans showing new utilities	22 23
Table	es	
Table	e 2-1: Existing electricity infrastructure	7
	e 2-2: Existing gas infrastructure	
	e 2-3: Existing surface water drainage infrastructure	
	e 2-4: Existing water mains	
	2-5: Existing sewers	
	e 2-6: Existing telecommunications infrastructure	
	e 3-1: Proposed electricity Infrastructure	
	e 3-3: Proposed gas infrastructure	
	e 3-4: Proposed drainage infrastructure	
	e 3-5: Proposed potable and non-potable water connections	
	e 3-6: Proposed temporary potable water connection	
	e 3-7: Proposed sewer connections	
	e 3-8: Proposed telecommunications connections	
	e 4-1: Electricity infrastructure to be diverted/ stopped up	
Table	e 4-2: Existing electricity infrastructure subject to protective provisions	18
Table	e 4-3: Water and sewer connections to be protected	19
	e 4-4: Water and sewer connections to be diverted	
	e 4-5: Telecommunications infrastructure to be protected	
	e 4-6: Telecommunications infrastructure to be diverted	
Lable	e 5-1: Summary of communications and agreements with utility companies	21







Executive Summary

This Utilities Statement ("this Statement") sets out the existing and new utility requirements for the Project. The utilities identified in this Statement are electricity, gas, surface water drainage, potable and non-potable water, sewerage, and telecommunications. Lighting is dealt with separately in the **Lighting Assessment Report** at **Appendix 2.B** of the Environmental Statement ("ES") [TR030008/APP/6.4].

This Statement also provides a summary of the engagement with utility providers that has been ongoing since Project launch and a number of agreements in principle have been obtained from utility providers. This Statement demonstrates that discussions are well progressed with utility providers in relation to securing connections to the required utility networks.





1. Introduction

- 1.1.1. This Utilities Statement ("this Statement") has been prepared on behalf of Associated British Ports ("ABP") ("the Applicant") to support its application to the Secretary of State for Transport for development consent ("the Application") for the construction, operation and maintenance of a multi-user liquid bulk green energy terminal which would be located on the eastern side of the Port of Immingham (the "Port"), as well as associated development (collectively termed the "Project"). A part of the associated development is the construction and operation of a green hydrogen production facility for the on-site production of green hydrogen from imported ammonia by Air Products (BR) Ltd ("Air Products"). Air Products will be the first customer for the new terminal as the owner and operator of the proposed green hydrogen production facility.
- 1.1.2. The green energy terminal is a Nationally Significant Infrastructure Project ("NSIP") under the Planning Act 2008 and the landside works including the green hydrogen production facility is classed as the "Associated Development".
- 1.1.3. The purpose of this Statement is to set out the existing and new utility requirements for the Project. The utilities identified in this Statement are electricity, gas, surface water drainage, potable and non-potable water, sewerage and telecommunications. Lighting is dealt with separately in the **Lighting Assessment** at **Appendix 2.B** of the ES [TR030008/APP/6.4].
- 1.1.4. Engagement with utility providers has been ongoing since Project launch regarding agreements for the connection to, and diversion and/or protection of, existing utilities. The status of this engagement (as at the date of this Statement) is summarised in **Section 5** of this Statement. The Applicant will continue to progress discussions with the statutory undertakers post-submission of the Application and will update this Statement during examination to account for any changes in discussions with utilities providers, or changes in how utilities will be treated. To ensure compliance with any agreements reached in respect of utility connections, diversions and connections, these will be secured by protective provisions contained in the draft Development Consent Order ("DCO").
- 1.1.5. Other documents that should be referred to in respect of this Statement are the draft DCO [TR030008/APP/2.1], Appendix 18.B: Drainage Strategy of the ES [TR030008/APP/6.4] and the Consultation Report [TR030008/APP/5.1].
- 1.1.6. Plans 1 to 6 that are presented at Appendix A of this Statement show the locations of relevant existing utilities. Note that the utilities shown on each plan appear incomplete, however, this is because the plans mainly show the relevant existing utilities where they fall within the Site Boundary, as represented in Figure 1.1 accompanying the Application [TR030008/APP/6.3]. The sections of the existing utilities which fall outside of the Site Boundary are not shown on the plans, except where they are relevant to this Statement.





1.2. Structure of this Statement

- 1.2.1. Following this introduction, this Statement sets out the following information:
 - a. Section 2: summary of existing utilities;
 - Section 3: required new utility infrastructure and connections to service the Project;
 - c. **Section 4**: planned diversions/stopping up, decommissioning/removal of existing utilities, and other ways existing utilities would be affected; and
 - d. Section 5: statement of engagement with statutory undertakers detailing discussions to date and how the utilities are addressed in the draft DCO including through proposed protective provisions [TR030008/APP/2.1].
- 1.3. The Application Site and Surrounding Area
- 1.3.1. The Project is located in North-East Lincolnshire on the south bank of the Humber Estuary to the east of the Port. The **Location Plan [TR030008/APP/4.1]** illustrates the Project's location, which is approximately centred on National Grid Reference E:520783 N:415271 (the "Site").
- 1.3.2. The landside works fall within the administrative boundary of North East Lincolnshire Council ("NELC"). That part of the Project that extends seaward and falls beyond the local authority's boundary will take place in the bed of the Humber Estuary which is owned by the Crown Estate and over which ABP, in its capacity as the Humber Conservancy Commissioner, has the benefit of a long lease. The Project in its entirety covers an area of approximately 121ha. The Site includes all land required to deliver the Project. This includes land that would be required temporarily to facilitate the development.
- 1.3.3. The area surrounding the Port is industrial in nature, being dominated by chemical manufacturing, oil processing and power generation facilities. Residential and commercial properties are present to the south of the Port on Queens Road and lie within, and adjacent to, the Site Boundary. Beyond the industrial facilities, the wider area is largely agricultural. The nearest residential area is on the eastern edge of the town of Immingham approximately 460m from the western edge of the Site.

1.4. The Project

- 1.4.1. In summary, the Project would comprise the following components (references to Work are as per **Chapter 2: The Project**, of the ES **[TR030008/APP/6.2]**):
 - The Nationally Significant Infrastructure project ("NSIP"), Work No. 1, comprising:
 - i. On the marine side, a terminal for liquid bulks comprising:
 - 1. A jetty (defined by **Work No. 1a**) including a loading platform, associated dolphins, fenders and walkways, topside infrastructure but not limited to control rooms, marine loading arms, pipe-racks, pipelines and other infrastructure.



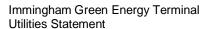


- 2. A single berth, with a berthing pocket with a depth of up to 14.5m below chart datum.
- Related landside infrastructure including, but not limited to, a jetty access ramp, a flood defence access ramp and works to raise the seawall locally under the jetty access ramp;
- b. Associated Development on the landside, comprising:
 - i. A corridor between the new jetty and Laporte Road which would support a private road (the 'jetty access road'), pipe-racks, pipelines to enable the ammonia import to the East Site, as well as security gates, a security building, a power distribution building and associated utilities (**Work No. 2**).
 - ii. 'East Site Ammonia Storage' (**Work No. 3**) on which an ammonia storage tank and related plant including an ammonia tank flare would be constructed (**Work No. 3a**) as well as additional buildings (including welfare building, power distribution building and a process instrumentation building), pipe-racks, pipelines, pipes, cable-racks, utilities and other infrastructure.
 - iii. Construction of a culvert (**Work No. 4**) under Laporte Road for pipelines, pipes and cables and other conducting media linking the two parts of the East Site.
 - iv. 'East Site Hydrogen Production Facility' (Work No. 5) on which up to three hydrogen production units and associated plant including flue gas stacks and flare stacks_would be constructed (Work No. 5a) together with additional buildings (including process control building, power distribution buildings, process instrumentation buildings, analyser shelters), pipe-racks, pipelines, pipes, utilities and other infrastructure.
 - v. Underground pipelines, pipes, cables and other conducting media (**Work No. 6**), between the East and West Sites, for the transfer of ammonia, hydrogen, nitrogen and utilities, with cathodic protection against saline corrosion.
 - vi. 'West Site' (Work No. 7) involving the construction of up to three hydrogen production units with associated flue gas stacks and flare stacks and up to four liquefier units (Work No. 7a and Work No. 7b combined); hydrogen storage tanks, hydrogen trailer filling stations, a hydrogen vent stack and associated process equipment (Work No. 7c); and hydrogen vehicle and trailer filling stations, hydrogen compressors and associated process equipment (Work No. 7d). Also additional buildings (including but not limited to control room and workshop building, security and visitor building, contractor building, warehouse, driver administration building, safe haven building, electrical substation and metering station, power distribution buildings, process instrumentation buildings, analyser buildings and additional temporary buildings during construction), process and utility plant including cooling towers and pumps, fire water tank, instrument air equipment, pipe-racks, pipelines, pipes, cable-racks, utilities and other infrastructure.
 - vii. Formation of temporary construction and laydown_areas on Queens Road (Work No. 8) and off Laporte Road (Work No. 9).





- viii. Temporary removal of street furniture and modification of overhead cables on Kings Road (**Work No. 10**) associated with the transport of large construction components from the Port to the Site.
- 1.4.2. In addition to Work No. 1 to 10 which are each spatially defined within the Works Plans [TR030008/APP/4.2], Schedule 1: Authorised Project of the draft DCO [TR030008/APP/2.1] includes 'Further associated development' and 'Ancillary Works' which both extend across the full extent of the Site. In broad terms, 'Further associated development' would be the undertaking, as required, of works such as site clearance, creation of additional construction compounds, utility works, landscaping works and street works on a site wide basis. 'Ancillary works' constitute works that would not necessarily constitute development, such as vegetation removal, the installation of fencing and the demobilisation of construction works.
- 1.4.3. The proposed terminal would extend seawards into the Humber Estuary and the jetty would be located to the east of the existing Immingham Oil Terminal jetty. This area falls within the boundaries of the Humber Estuary Special Area of Conservation, Special Protection Area and Ramsar Site, which collectively form the Humber European Marine Site.
- 1.4.4. The corridor which links the proposed terminal to the East Site includes a section of woodland known as the 'Long Strip' between Laporte Road and the Humber Estuary that is subject to a Tree Preservation Order ("TPO"). A bridleway, Bridleway 36, runs through the eastern edge of the Long Strip, connecting users from Laporte Road to the coastal path that follows the Humber Estuary east to Grimsby as shown in Figure 2.1 [TR030008/APP/6.3].
- 1.4.5. The East Site comprises two parcels of land, which are bisected by Laporte Road. The first parcel of land consists of an area of hardstanding to the north of Laporte Road which is currently in use by the Applicant as a storage area. The second parcel of land is a triangular shaped area of brownfield land, that is currently covered by gravel and various stockpiles, which is accessed via Queens Road (A1173) and lies to the south of Laporte Road. The Associated Petroleum Terminals works complex is situated to the north/north-east of the East Site, whilst to the south are various industrial facilities. To the west and north-west is the Port and associated industrial facilities and the 'Immingham Dock East Gate' Port entry point from Queens Road. To the south-east of the East Site is the Long Strip woodland described above and the Anglian Water Sewage Treatment Works (accessed via a private road off Queens Road).
- 1.4.6. The West Site currently comprises three agricultural fields, which are bounded by linear hedgerows and drainage ditches. An electrical sub-station and gas-fired power generator installation are situated to the north-west. The north-west and western boundaries of the West Site are defined by Kings Road and the A1173, including the Grimsby to Immingham 'Cycle Superhighway' which runs along the A1173 between the Kings Road and Kiln Lane roundabouts. A landfill is located to the south separated by a landscape buffer strip. Queens Road forms the north-eastern boundary of the West Site with a number of residential and mixed residential/commercial properties located within the Site Boundary. The east and south-eastern boundary is adjacent to another gas fired power generator installation, a community recycling centre and a large waste gypsum landfill. A







short tarmac access road has been constructed from Kings Road into the West Site, associated with an extant planning consent. A series of overhead power cables run across the middle and southern boundaries of the West Site, with a buried mains water and a buried high-pressure gas pipeline present along the southern boundary.

- 1.4.7. A proposed underground Pipeline Corridor connects the West Site to the East Site. It would run through an area that has been impacted by industrial development alongside Queens Road and Laporte Road, and would also run underneath the Grimsby Docks Branch Line.
- 1.4.8. Further information on the components of the Project is provided in **Chapter 2: The Project [TR030008/APP/6.2]** of the ES.





2. Summary of Existing Utilities

2.1. Purpose of this Section

2.1.1. This section describes the relevant existing utilities infrastructure within the vicinity of the Site with reference to illustrative plans. The utilities described largely fall within the Site Boundary, with some exceptions including drainage ditches, which extend over a wider area, and gas and electricity substations which are outside of the Site Boundary but relevant to connections into the Site. The existing utilities have been given unique reference numbers to enable the required connections, diversion and protective works, described in subsequent sections, to be accurately described. These reference numbers have no meaning beyond this Statement for the Application.

Electricity

2.1.2. **Plan 1** at Appendix A shows the approximate locations of relevant existing electricity infrastructure within the vicinity of the Site. Using the same reference numbers as indicated on **Plan 1** at Appendix A, these are set out in **Table 2-1**.

Table 2-1: Existing electricity infrastructure

Reference	Description
E.1	Immingham substation (located at the corner of the A1173 and Kings Road) near the West Site. This is the main connection point for the Project.
E.2	420kV incoming power cables connecting into Immingham substation. These are suspended on high pylons running across the western edge of the West Site and crossing the A1173.
E.3	Incoming power cables on poles which cross the A1173 near the West Site.
E.4	A 33kV low level transmission cable running on poles across the A1173 and across centre of the West Site.
E.5	33kV underground cables which run beneath Laporte Road near the East Site and beneath a section of disused highway within the East Site (the disused highway is to be permanently stopped up as shown on the Stopping Up and Restriction of Use of Streets and Public Rights of Way Plan [TR030008/APP/4.7] (hereinafter referred to as the "disused highway" in this Statement).
E.6	11kV underground cables in Laporte Road near the East Site.
E.7	A 33kV underground cable which runs along the field boundary between the East Site - Ammonia Storage area and the Long Strip/TPO area.
E.8	33kV underground cables which run from Immingham Substation adjacent to the West Site, along Kings Road and then along Queens Road on the west side of the East Site.
E.9	11kV underground cables which run from Immingham Substation adjacent to the West Site, along Kings Road and then along Queens Road on the west side of the East Site (following the same route as E.8 above).

Planning Inspectorate Scheme Ref: TR030008 Application Document Ref: TR030008/APP/7.7



Immingham Green Energy Terminal Utilities Statement

Reference	Description
E.10	A small stub/loop of 11kV underground cable which connects into the 11kV cable in Laporte Road. This "stub" falls within the boundary of the East Site Hydrogen Production area;
E.11	11kv cable running the length of the A1173 on the west side of the West Site

2.1.3. In addition to the above existing infrastructure, the Applicant is aware of new electricity infrastructure that is being installed on pylons and runs along the length of the A1173 adjacent to the west side of the West Site. It is understood that these are additional lights and a transformer pole for the nearby 'Cycle Superhighway' rather than a new electricity line. Air Products is in discussions with Northern Powergrid (Yorkshire) plc ("Northern Powergrid") to understand more about these works so that it can consider any protective measures that need to be put in place in relation to the new cables during construction and operation of the Project.

Gas

2.1.4. Plan 2 at Appendix A shows the locations of the relevant existing gas infrastructure within the Site. Using the same reference numbers as indicated on Plan 2 at Appendix A, these are set out in Table 2-2.

Table 2-2: Existing gas infrastructure

Reference	Description
G.1	A high-pressure underground gas line running along southern boundary of the West Site.
G.2	An intermediate pressure underground gas line beneath Queens Road.
G.3	An intermediate pressure underground domestic main in Kings Road.
G.4	A gas main adjacent to an existing gas governor compound on Laporte Road to the east of the East Site with pipelines connected to it.

Surface Water Drainage System

2.1.5. The **Drainage Strategy, Appendix 18.B** of the ES **[TR030008/APP/6.4]** provides further details of the existing surface water conditions on the Site. There are no watercourses running directly across the East Site, but there are some ditch drains running alongside the boundaries of the two parts. The wider area surrounding the Project has a complex network of ditch drains feeding into the North Beck Drain. The West Site is crossed by local watercourses forming part of the wider managed low land drainage network. These discharge to the existing drainage ditch along the southern boundary. **Plan 3** at Appendix A shows the locations of the relevant existing surface water drainage ditches within the vicinity of the Project including flow paths. **Table 2-3** sets out the existing surface water drainage infrastructure.





Table 2-3: Existing surface water drainage infrastructure

Reference	Description
D.1	Two existing surface water drainage pathways running across the West Site in a north-south direction towards D.2 (shown in yellow on Plan 3).
D.2	Land drainage ditches along the southern and eastern boundaries of the West Site
D.3	A land drainage ditch to the south-east side of East Site - Ammonia Storage
D.4	A land drainage ditch to the south-east side of East Side – Hydrogen Production
D.5	A land drainage ditch running parallel to the sea wall
D.6	The North Beck Drain to the east of the main Temporary Construction Area next to the estuary

Water and Sewerage

2.1.6. **Plan 4** at Appendix A shows the locations of the relevant existing potable/non-potable water mains and sewers within the vicinity of the Site. Using the same reference numbers as indicated on **Plan 4** at Appendix A, these comprise the water mains set out in **Table 2-4**.

Table 2-4: Existing water mains

Reference	Description
W.1	Potable water main running the length of Kings Road and Queens Road.
W.2	Potable water main running the length of Laporte Road and along the section of disused highway. Note that Plan 4 indicates a section of the relevant utility for illustrative purposes but does not show its full extent. Its full extent runs the length of Laporte Road.
W.3	Non-potable water main running the length of Queens Road.
W.4	Non-potable water main running the length of Laporte Road. Note that Plan 4 indicates a section of the relevant utility for illustrative purposes but does not show its full extent. Its full extent runs the length of Laporte Road.

2.1.7. **Plan 5** at Appendix A shows the location of the following relevant existing sewers within the vicinity of the Site. Existing sewers are set out in **Table 2-5**.

Table 2-5: Existing sewers

Reference	Description
S.1	Domestic sewer on Kings Road and Queens Road.
S.2	Trade effluent sewer on Queens Road.





Immingham Green Energy Terminal Utilities Statement

Reference	Description
S.3	Domestic sewer on the access road to the water treatment works (the works being located on the south side of the East Site).
S.4	Final effluent discharge underground from treatment works to Humber estuary, under the main Temporary Construction Area next to the estuary.

Telecommunications

2.1.8. **Plan 6** at Appendix A shows the locations of the existing relevant telecommunications infrastructure within the vicinity of the Site. Using the same reference numbers as indicated on **Plan 6** at Appendix A, these comprise the telecommunications set out in **Table 2-6**.

Table 2-6: Existing telecommunications infrastructure

Reference	Description
T.1	Data and telecommunications cables beneath the pavement on Kings Road adjacent to the West Site.
T.2	Data and telecommunications cables beneath the pavement on Laporte Road adjacent to the East Site.
T.3	Data and telecommunications cables in pavement on Queens Road adjacent to the East Site.
T.4	Telephone cables and telecommunications lines in the East Site.
T.5	Telecommunications cables running beneath A1173 to the west side of the West Site.





3. Required New Utility Infrastructure and Connections

3.1. Purpose of this section

- 3.1.1. This section describes the new utility infrastructure and connections that will be required to connect the Project to the existing external utilities network.
- 3.1.2. Once connected to the external utilities network, various utilities will then be transferred around the Site via internal infrastructure. Some utilities (electricity, gas and telecommunications cables) will be transferred via the Pipeline Corridor connecting the West Site to the East Site (Work No. 6), and through the culvert under Laporte Road connecting the two parts of the East Site (Work No. 4).
- 3.1.3. The location of connections shown on the following plans are indicative. The precise location of connections will be identified at the detailed design stage, post-consent.

Electricity

3.1.4. The Project requires a power feed of approximately 90MW for the landside works. The power feed for the landside works would be provided by Northern Powergrid to the West Site and internally distributed across the West Site and via the Pipeline Corridor to the East Site. **Table 3-1** sets out the new facilities that are expected to be required (as highlighted on **Plan 7** at Appendix B). References in **Table 3-1** to existing infrastructure are as per the references given in **Plan 1** at Appendix A.

Table 3-1: Proposed electricity Infrastructure

Reference	Description
NE.1	The terminal will be supplied with electricity from a separate connection located in Laporte Road which will connect to an electrical substation on the East Site for onward transmission to the terminal. The approximate location of the electrical substation is shown on Plan 7 . The most recent discussions with Northern Powergrid indicate that the temporary 11kV connection from Laporte Road (reference TE.3 below) may be converted into a permanent connection for this purpose. However, this is yet to be determined.
NE.2	Modifications to Immingham substation (Ref E.1) adjacent to the West Site (and locally) to accommodate new connections. Northern Powergrid would decide what modifications are required and would be responsible for making them.
NE.3	A new 132kV connection from Immingham substation (Ref E.1) to 132kV/33kV transformers on the West Site. The approximate location of the transformers is shown on Plan 7 .





- 3.1.5. Temporary electricity connections will also be required to power three of the temporary construction areas during construction of the Project. Further details of the temporary construction areas are provided in **Chapter 2: The Project** of the ES [TR030008/APP/6.2] (see in particular Table 2-10). The approximate location of the construction areas is set out below.
 - a. Air Products' and contractor offices will be located on the north side of Queens Road, opposite the recycling centre between the East and West Sites. This area will be used for offices, meeting rooms and car parking and will require electrical, potable water and domestic sewerage connections.
 - b. West Site contractor offices, car parking and laydown storage which will be located in the southern corner of the West Site. This will be used for contractor and subcontractor cabins, laydown, warehouse storage and car parking and will require electrical, potable water and domestic sewerage connections.
 - c. East Site contractor offices, car parking, laydown and storage which will be located on the East Site - Hydrogen Production during the first phase of construction. This will be used for contractor and subcontractor cabins, laydown, warehouse storage and car parking for the ammonia tank and terminal contractors and will require electricity, potable water and domestic sewerage connections.
- 3.1.6. The temporary electrical connections comprise those set out in **Table 3-2**.

Table 3-2: Proposed temporary electricity infrastructure

Reference	Description
TE.1	A new 11kV connection into the West Site via a tie-in to the existing 11kV located along the A1173 (reference E.11 on Plan 1);
TE.2	A new 11kV connection into the temporary construction area on Queens Road via a tie- in to the existing 11kV cable running under Queens Road (reference E.9 on Plan 1);
TE.3	A new 11kV connection into the temporary construction area (for Phase 1 works) located in the East Site via a tie-in to the existing 11kV cable running beneath Laporte Road (reference E.6 on Plan 1).

3.1.7. Discussions are underway with Northern Powergrid in relation to the provision of permanent power to the West Site, the provision of temporary power during construction, and the permanent diversion of power lines running across the West Site. Details of the formal applications made are set out in **Section 5** below.

Gas

3.1.8. The Project requires a gas feed, dependent on heater design and configuration, of up to 1700 Nm³ /h for operations in Phase 1 of the Project (indicative construction phases are set out in Table 2-9 of ES **Chapter 2: The Project** [TR030008/APP/6.2] (with further details of infrastructure per phase in Table 2-10)) rising to 4900Nm³ /h when all phases are operational. This will be provided by Cadent Gas from a tie-in to an existing intermediate pressure gas main located in Queens Road. AP will internally distribute gas across the West Site and via the Pipeline Corridor to the East Site – Ammonia Storage.





- 3.1.9. A separate gas connection to the East Site Hydrogen Production is required in the later phases of the Project from the existing Cadent Gas governor compound on Laporte Road. Plan 8 at Appendix B indicates the approximate location of the new gas infrastructure tie-ins.
- 3.1.10. Table 3-3 sets out the new gas infrastructure that would be required.

Table 3-3: Proposed gas infrastructure

Reference	Description
NG.1	A new intermediate pressure gas connection to the West Site via a tie-in from the existing main intermediate pressure underground gas line beneath Queens Road (reference G.2 on Plan 2);
NG.2	A new intermediate pressure gas connection from an existing gas main adjacent to a governor compound on Laporte Road (reference G.4 on Plan 2) which will connect into the East Site – Hydrogen Production area. The details of the new connection are yet to be agreed, but it is expected that a new pipeline will be supplied by Cadent Gas and a general indication of its location is shown at Plan 8 . Work on this new line is not expected in the first stages of the Project and is likely to be carried out at a later date after the Project is operational.

3.1.11. Discussions have been ongoing with Cadent Gas covering provision of gas to the West and East Sites. Details of the formal application made are set out in **Section** 5 of this Statement.

Surface water drainage system

- 3.1.12. The Project requires a site-wide drainage system for surface water run-off. The **Drainage Strategy, Appendix 18.B** of the ES **[TR030008/APP/6.4]** provides further details regarding the management of surface water and its disposal, including how surface water is to be handled within the Site and discharged at a rate agreed with North East Lindsey Internal Drainage Board.
- 3.1.13. Surface water from the Project would ultimately be discharged into the existing land drainage system managed by North East Lindsey Internal Drainage Board. As set out in **Table 3-4** and on **Plan 9** (based on an extract from Annex A of the **Drainage Strategy [TR030008/APP/6.4]**), the following new infrastructure will be required.

Table 3-4: Proposed drainage infrastructure

Reference	Description
ND.1	Two new tie-ins to the existing land drainage system on south side of the West Site (reference D.2). This will connect new water retention ponds and associated internal drainage system within the West Site to the existing external infrastructure.
ND.2	Two new tie-ins to the existing land drainage system on south-east side of the East Site – Ammonia Storage (reference D.3). This will connect a new water retention pond and associated internal drainage system within the southern section of the East Site to the existing external infrastructure on the south side of the East Site.

Planning Inspectorate Scheme Ref: TR030008 Application Document Ref: TR030008/APP/7.7





Immingham Green Energy Terminal Utilities Statement

Reference	Description
ND.3	Three new tie-ins to the existing land drainage system on south-east side of the East Site – Hydrogen Production (reference D.4). This will connect a new water retention pond and associated internal drainage system within the east side of the East Site – Hydrogen Production to the existing external infrastructure on the east side of the East Site.
	The jetty access road will also connect into this existing land drainage at several locations. Surface water run-off from the jetty access road will utilise existing ditches (although culverted in places).

3.1.14. Discussions are ongoing with North East Lyndsey Internal Drainage Board and NELC to seek approval for the approach set out in the Drainage Strategy.

Water and Sewerage

- 3.1.15. The Project requires domestic potable water connections and domestic sewer connections for occupied buildings throughout the Site. The sewerage at the terminal (jetty control room and jetty head toxic refuge) and at the jetty access road security building will be removed via road tanker and no new sewerage connections are envisaged.
- 3.1.16. The Project will have cooling towers and a closed loop cooling water system. This will require approximately 3,640m³/day of make-up water (to replace water lost to evaporation in the cooling cycle) and will discharge blow down water into the existing trade effluent sewer in Queens Road. **Table 35** sets out the new water connections that are required to facilitate this. The references in **Table 35** to existing water mains are as per the references used in **Plan 4** at Appendix A. The approximate location of these new connections is shown at **Plan 10** at Appendix B.

Table 35: Proposed potable and non-potable water connections

Reference	Description
NW.1	A new potable water connection from Laporte Road to the terminal serving the control buildings and welfare facilities at the jetty head (ref W.2).
NW.2	A new potable water connection on the West Site which will connect into the existing potable water main on Kings Road (ref W.1).
NW.3	A new potable water connection located in the East Site – Ammonia Storage which will connect into the existing potable water main running the length of Laporte Road (ref W.2).
NW.4	A new non-potable water connection located in the East Site – Ammonia Storage which will connect into the existing non-potable water main running the length of Laporte Road (ref W.4). Non-potable water will be routed internally to the West Site through the Pipeline Corridor.





3.1.17. Temporary potable water connections will also be required to supply three of the temporary construction areas during construction of the Project. The temporary connections are set out in **Table 3-6**.

Table 3-6: Proposed temporary potable water connection

Reference	Description
TW.1	Temporary potable water connections to temporary contractor offices located within Work Nos. 5, 7, and 8 during construction.

3.1.18. Table 3-7 sets out the new sewer connections that are also required (references to existing sewers are as per the references given on Plan 5 at Appendix A). The approximate location of the new connections is shown on Plan 11 at Appendix B.

Table 3-7: Proposed sewer connections

Reference	Description
NS.1	A new domestic sewer connection which will connect from the West Site into the domestic sewer beneath Kings Road (reference S.1).
NS.2	A new trade effluent connection which will connect from the West Site into the trade effluent sewer beneath Queens Road (reference S.2).
NS.3	A new domestic sewer connection which will connect from the south side of the East Site into the existing domestic sewer located beneath the access road to the water treatment works abutting the East Site (reference \$.3).

- 3.1.19. Temporary sewerage connections to the temporary contractor offices located within Work Nos. 5, 7, and 8 will also be required during construction of the Project. The temporary connections comprise the following (references to existing sewerage infrastructure is as per **Plan 5** at Appendix A).
- 3.1.20. Discussions are ongoing with Anglian Water regarding the provision of the required potable and non-potable water and receipt of domestic sewerage and trade effluent water. The details of the formal applications are set out in **Section 5** below.
- 3.1.21. The response made by Anglian Water to the first Statutory Consultation drew attention to water scarcity in Lincolnshire. A commercial offer has since been submitted by Anglian Water for a non-potable water supply from an existing non potable source, which would supply the full water needs of the Project (see Section 5 of this Statement). Anglian Water's representation together with the response by the Applicant in relation to this matter is provided in Table 18.1 of ES Chapter 18: Water Use, Water Quality, Coastal Protection, Flood Risk and Drainage [TR030008/APP/6.2] and replicated in Appendix N of the Consultation Report [TR030008/APP/5.1].

Telecommunications

3.1.22. The Project requires data and telecommunications connections in order to connect the Project to the wider internet and phone network.





- 3.1.23. The data and telecommunications connection for the terminal will connect with an external network, to be determined.
- 3.1.24. The data connection for the landside works will allow the buildings on site to access AP's internal network which in turn will allow central control facilities and emergency response centres to monitor plant operation. **Table 3-8** sets out the new connection that is required (references to existing infrastructure are as per **Plan 6** at Appendix A) and the approximate location of the new connection is shown on **Plan 12** at Appendix B.

Table 3-8: Proposed telecommunications connections

Reference	Description
NT.1	A new dual data connection to the buildings on the West Site which will connect to the existing cable beneath the pavement on Kings Road adjacent to the West Site (reference T.1). Once the connection is made into the West Site, data connections will be made internally via the Pipeline Corridor to the East Site and then on to the terminal.





Planned Diversions/Stopping Up and Protection of Existing Utilities

- 4.1. Purpose of this section
- 4.1.1. Construction of the Project will require the diversion or protection of a number of utility assets. It is likely that most of the required diversions would be undertaken as early works prior to the main phases of Project construction. The following section describes the physical impacts to relevant existing utilities within the vicinity of the Site.
- 4.1.2. Further engagement with utility asset suppliers/owners/managers would be undertaken in order to finalise the utility solution at each location.
- 4.1.3. In all cases, prior to any excavation work around existing utilities, full drawing based surveys will be undertaken with utility stakeholders to identify known assets and a suitable scan would be undertaken to ensure no unidentified assets are in the locations of excavation. All planned protections would be dealt with through the protective provisions in the DCO.

Electricity

4.1.4. Construction of the Project will involve the permanent diversion and/or stopping-up of the following existing electricity infrastructure. **Table 4-1** sets out the electricity infrastructure that will be diverted/ stopped up. References in **Table 4-1** to cables are as per the references provided in **Plan 1** at Appendix A.

Table 4-1: Electricity infrastructure to be diverted/ stopped up

Reference	Description
DE.1	Diversion of the 33kV low level transmission cable running on poles across the centre of the West Site (ref E.4). This will be re-routed around the perimeter of the West Site. The exact location of the diverted cable will be decided by Northern Powergrid and discussions are ongoing regarding this.
DE.2	Diversion of the 33kV underground cables which run beneath Laporte Road near the East Site and the disused highway off Laporte Road within the East Site (ref E.5). This will be diverted where it runs beneath the disused highway and elsewhere in Laporte Road. Northern Powergrid will be responsible for the works and deciding the eventual route of the diversion. Discussions are ongoing regarding this.
DE.3	Potential stopping-up of the small stub/loop of 11kV underground cable which connects into the 11kV cable in Laporte Road. This "stub" falls within the boundary of the East Site-Hydrogen Production area (ref E.10). Discussions are ongoing with Northern Powergrid regarding this section of cable but the likelihood is that it will be stopped-up or removed entirely.

4.1.5. **Table 4-2** sets out the existing electricity infrastructure that will be protected through protective provisions set out in the **draft DCO [TR030008/APP/2.1]**.





Table 4-2: Existing electricity infrastructure subject to protective provisions

Reference	Description
PPE.1	Protection of the 33kV underground cable which runs along the field boundary between the East Site - Ammonia Storage area and Long Strip (ref E.7). Discussions are ongoing with Northern Powergrid regarding the details of the protection and an agreement to provide Northern Powergrid with access for maintenance long term.
PPE.2	Protection of 11kV underground cable running under Laporte Road near the East Site (ref E.6). There are a number of entrances to be constructed on Laporte Road together with a culvert which will run beneath the road (and the utilities therein) to accommodate pipe and utilities running between the two sections of the East Site. The details of how the cables will be protected will be agreed with Northern Powergrid.
PPE.3	Protection of part of the 33kV underground cables which run beneath Laporte Road near the East Site (ref E.5). This refers to the part of the cables which run beneath Laporte Road and not the section of the cables running under the disused highway (which will be diverted as described above). As with the protection of E.6 , the section of cable running through Laporte Road will be protected during construction of the entrances to the Site and the culvert beneath the road and utilities. The details of the protection are to be agreed with Northern Powergrid.
PPE.4	Protection of the 11kV underground cable running under Kings Road and Queens Road (ref E.9). This will be protected during construction of the Project and in particular access roads/entrances into the East Site – Ammonia Storage. The details of the protection are to be agreed with Northern Powergrid.
PPE.5	Protection of 33kV underground cables running under Kings Road and Queens Road (ref E.8). As with E.9 , this will be protected during construction of the Project and in particular during construction of access roads/entrances into the West Site. The details of the protection are to be agreed with Northern Power.

Gas

- 4.1.6. The existing underground high pressure gas line running along the southern boundary of the West Site (reference **G.1** on **Plan 2** at Appendix A) will be protected during the construction of the Project through protective provisions set out in the **draft DCO [TR030008/APP/2.1]**. The details of the protection are to be agreed with Cadent Gas, but it is likely that these will include compliance with a pipeline easement already in place between the Applicant and Cadent Gas, with restrictions on any works within the easement corridor.
- 4.1.7. G2 and G3 (being intermediate pressure lines running beneath Kings Road and Queens Road) are not directly impacted by the Project. During the construction stage the contractor will adopt good construction practices in the area to ensure G2 and G3 remain unaffected.

Surface water drainage

4.1.8. Surface water from the Project would ultimately be discharged into the existing land-drainage system and the new tie-ins required are described above. The two existing water courses running across the West Site (reference **D.1** on **Plan 3** at Appendix A) would be diverted due to accommodate the proposed infrastructure on the West Site. One of the water courses is to be diverted to the west side of the

Planning Inspectorate Scheme Ref: TR030008 Application Document Ref: TR030008/APP/7.7





West Site to connect into the existing watercourse which flows approximately along the path of the A1173 and the other is to be diverted to the east side of the proposed infrastructure on the West Site. The approximate locations of the diversions are shown in green on Plan 9 at Appendix B and further details are provided in the Drainage Strategy, Appendix 18.B of the ES [TR030008/APP/6.4]. These existing water courses will remain independent of the Site's own drainage system. The Drainage Strategy also provides further details regarding the management of wastewater and its disposal including the agreed drainage rates to ensure the existing infrastructure is not overloaded.

Water and Sewerage

4.1.9. Table 4-3 and **Table 4-4** set out the existing water and sewer assets that will be diverted or protected through protective provisions set out in the **draft DCO** [**TR030008/APP/2.1**] (references to the existing utilities is as per the references used in **Plans 4 and 5** at Appendix A). **W.3** (non-potable water main running the length of Queens Road) as shown on **Plan 4** is not affected by the Project and is therefore not considered in **Table 4-3** below.

Table 4-3: Water and sewer connections to be protected

Reference	Description
PPW.1	Protection of the remainder of the potable water main running the length of Laporte Road (ref W.2) and the non-potable water main that also runs the length of Laporte Road (ref W.4). These will be protected during the construction phase of the Project, in particular the creation of entrances into the East Site and the construction of the culvert beneath Laporte Road which accommodates pipe and utilities between the two sides of the East Site. The exact details of the protection are to be agreed with Anglian Water, but it is envisaged that these will include markers to identify the relevant water main and the adoption of appropriate construction methods (such as hand digging and pipe supporting) to protect the pipes during construction.
PPW.2	Protection of the final effluent discharge line which runs underground from the water treatment works located at the south side of the East Site to the Humber estuary (ref S.4). This sewer runs under the main Temporary Construction Area (Work No.9), which will be used for material laydown. As there will be no excavation works in this area, protection measures will involve installation of protective matting, as required, to protect the lines from heavy vehicles.

Table 4-4: Water and sewer connections to be diverted

Reference	Description
DW.1	Diversion of part of the potable water main running beneath the disused highway off Laporte Road near the East Site (ref W.2). Discussions are ongoing with Anglian Water regarding the route of the diversion or removal of this section of line. The portion of the water main that runs along Laporte Road is to remain in place.





Telecommunications

4.1.10. Table 4-5 sets out the existing telecommunications infrastructure that will be protected through protective provisions set out in the draft DCO [TR030008/APP/2.1] (references in Table 4-5 to existing infrastructure are as per Plan 5 at Appendix A).

Table 4-5: Telecommunications infrastructure to be protected

Reference	Description	
PPT.1	Protection of the data and telecommunications cables beneath the pavement on Kings Road adjacent to the West Site (ref T.1).	
PPT.2	Protection of the data and telecommunications cables in the pavement on Queens Road adjacent to the East Site (ref T.3).	
PPT.3	Protection of the telecommunications cables beneath the pavement on Laporte Road (ref T.2), in particular where new site entrances are being created and where the cables run over the area where the culvert which will accommodate pipe and utilities between the two parts of the East Site.	
PPT.4	Protection of the telecommunications cables running beneath the A1173 to the west side of the West Site (ref T.5), particularly where the cables run beneath areas where new site entrances will be created.	

- 4.1.11. The exact details of how the above telecommunications utilities will be protected are to be discussed and agreed with the relevant utility providers.
- 4.1.12. In addition to the above protections, **Table 4-6** sets out the telecommunications infrastructure that will be permanently diverted.

Table 4-6: Telecommunications infrastructure to be diverted

Reference	Description
DT.1	Diversion of the telephone cables and telecommunications lines running into the East Site (ref T.4). The details of the diversion are to be discussed with the relevant utility supplier.





5. Statement of Engagement with Statutory Undertakers and Other Affected Parties

- 5.1.1. Discussions with the relevant statutory undertakers are ongoing. **Table 5-1** summarises the progress of discussions.
- 5.1.2. The Applicant will continue to progress discussions with the statutory undertakers post-submission of the Application. To ensure compliance with any agreements reached in respect of utility connections, diversions and protections, these will be secured via the protective provisions in the DCO.

Table 5-1: Summary of communications and agreements with utility companies

Description (utility reference number in brackets)	Reference	Agreement
Cadent Gas		
West Site IP connection (NG.1)	130031744	Modelling complete awaiting commercial offer
East Site IP connection (NG.2)	130031744	Modelling complete awaiting commercial offer
Northern Powergrid		
HV Diversion 11 KW overhead line (DE.1)	ENQ23123691	In progress
EHV demand permanent connections (NE.3)	ENQ23123681	In progress – technical proposal received
HV demand temporary supply x 3 points (TE.1/2/3)	ENQ23123699	In progress – commercial proposal received
Anglian Water		
Terminal potable water connection (NW.1)	NWC-0176575	In progress – quote for connection at Laporte Road received.
East Site potable water connection (NW.3)	NWC-0173965	In progress – commercial proposal received
West Site potable water connection (NW.2)	NWC-0173958	In progress – commercial proposal received
Non-potable water connection (NW.4)	NSD-0170975	In progress – commercial proposal received
Queens Road sewer connections (NS.1/2/3)	ALD-0159849	In progress – commercial proposal received

Planning Inspectorate Scheme Ref: TR030008 Application Document Ref: TR030008/APP/7.7





Appendix A Plans showing existing utilities





Appendix B Plans showing new utilities

