East Midlands Gateway
Phase 2 (EMG2)

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ENVIRONMENTAL STATEMENT

Volume 1 Main Statement

Chapter 16

Utilities

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16

The East Midlands Gateway Phase 2 and Highway Order 202X and The East Midlands Gateway Rail Freight and Highway (Amendment) Order 202X

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16. Utilities

16.1. Introduction

16.1.1. This chapter evaluates the environmental impacts resulting from the impact on, and supply of, utility services, specifically relating to electricity, gas, potable water and telecommunications.

16.1.2. This chapter should be read in conjunction with the Utilities Assessment Report (**Appendix 16a**).

16.1.3. This ES chapter seeks to:

- Describe the baseline conditions currently existing within the boundaries of the **Scheme** and the surrounding areas.
- Identify potential diversions and upgrading works required to accommodate and service the proposed development, including the proposed off-site highway improvement works.
- Evaluate the significance of any potential impacts in terms of beneficial adverse / neutral consequences.
- Establish appropriate mitigation measures where appropriate.
- Identify any residual/cumulative impacts.

16.2. Scope and Methodology of the Assessment

Assessment Method

16.2.1. Information on the existing utilities and services was obtained through consultation with the relevant statutory undertakers and a review of their asset records where available.

The asset records reviewed as part of this assessment include:

- National Grid Electricity Distribution (NGED)
- UK Power Distribution (UKPD)
- Cadent Gas Networks
- ESP Gas
- Severn Trent Water (STW)
- Openreach
- Virgin Media
- Vodafone
- Mast Data

16.2.2. Information relating to new supply arrangements for the proposed development in relation to points of connection, the identification of offsite upgrade and/or reinforcement requirements have been provided by the incumbent statutory undertakers.

The incumbent statutory undertakers are as follows:

- NGED
- UKPD
- Cadent Gas Networks
- Severn Trent Water
- Openreach

16.2.3. In respect of new utility supplies to serve the **Scheme**, the capacities have been estimated based on the proposed usage of the buildings and the potential for EV charging. This information has been provided to the incumbent statutory undertakers as the basis to determine new supply and offsite reinforcement requirements for the **Scheme**.

16.2.4. Statutory undertakers have provided an assessment of the anticipated reinforcement and/or upgrading works required to their networks together with the potential diversions necessary to facilitate the construction of the **Scheme**. This information has been used to determine the potential impact of the **Scheme** on the relevant utilities.

16.2.5. References to 'on-site apparatus' relate to the existing utility infrastructure within the boundaries of the **Scheme** , references to 'off-site apparatus' relate to the existing utility infrastructure within the vicinity of the **Scheme** but outside of the proposed order limits.

16.2.6. [Section to be completed with details of scoping issued raised during PINS scoping]

Assumptions and Limitations

16.2.7. It should be noted that the existing asset records provided by the statutory undertakers are issued for guidance purposes and don't necessarily reflect the 'as-laid' positions of the existing services identified within the search area.

16.2.8. The estimated capacities for the **Scheme** have been calculated based on the current illustrative masterplan at **Figure 3.2** and will need to be reviewed again at the detailed design stage.

16.2.9. Each statutory undertaker has provided an assessment of the anticipated reinforcement and/or upgrades to their existing network to support the connection of the **Scheme**. Consultation has been undertaken with the incumbent statutory undertakers (electricity, gas, potable water and telecommunications) who have identified the anticipated points of connection to supply the **Scheme**.

16.3. Policy, Guidance and Legislative Context

16.3.1. [Section to be completed. To include reference to Planning Act 2008 (s127 and s138) and National Policy Statement National Networks]

16.4. Baseline Conditions

16.4.1. This section describes the baseline conditions at the site (and the surrounding areas as appropriate), further details on the existing utility constraints can be found within the Utilities Assessment Report provided as Appendix 16a.

Electricity

16.4.2. A detailed review of the NGED asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected.

On-site apparatus:

- The NGED asset record indicates there are existing overhead 11kV high voltage (HV) cables and poles which run adjacent to the western boundary of the **EMG2 Main Site**.
- The NGED asset record indicates there are existing underground 11kV (HV) and low voltage (LV) cables which enter the **EMG2 Main Site** boundary from the A453 Ashby Road and run through the site before terminating within Donington Park Services.
- The NGED asset record indicates there are existing overhead 11kV (HV) cables and poles which run along the southern boundary of the **EMG2 Main Site**.
- The NGED asset record indicates there are existing underground 11kV (HV) cables running down the verges on the northern and southern sides of the A453 Ashby Road.
- The NGED asset record indicates there are existing underground 11kV (HV) and LV cables on the northern and southern sides of the roundabout on A453 Ashby Road.
- The NGED asset record indicates there are existing underground 11kV (HV) cables which runs along the southern and western sides of Finger Farm Roundabout.
- The NGED asset record indicates there are existing underground 11kV (HV) cables which run across the existing EMG1 access roundabout.
- The NGED asset record indicates there are existing underground 11kV (HV) and LV cables which run along the verge on the western side of the A50.
- The NGED asset record indicates there are existing underground 11kV (HV) and LV cables which run across the junction with the A453 and J24.
- The NGED asset record indicates there are existing underground 11kV (HV) cables which run along the verge of A453 Ashby Road opposite the junction with The Green.

16.4.3. A detailed review of the UKPD asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

- The UKPD asset record indicates there are existing underground 11kV (HV) cables to the west of the existing roundabout adjacent to EMG1 near the bus interchange.

Gas

16.4.4. A detailed review of the Cadent Gas Networks asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The Cadent Gas Networks asset record indicates there is an existing underground 125mm Polyethylene (PE) medium pressure (MP) gas main which enters the **EMG2 Main Site** boundary from the A453 Ashby Road and runs through the site before terminating within Donington Park Services.

- The Cadent Gas asset record indicates there is an existing 250mm PE Medium Pressure (MP) gas main running down the carriageway of the A453 Ashby Road.

- The Cadent Gas asset record indicates there are existing 315mm PE and 125mm PE Medium Pressure (MP) gas mains within the existing roundabout on A453 Ashby Road.

- The Cadent Gas asset record indicates there is an existing 315mm PE Medium Pressure (MP) gas main which runs near to the existing EMG1 access roundabout.

- The Cadent Gas asset record indicates there is an existing 6inch SI Low Pressure (LP) gas main which runs along the verge on the western side of the A50.

- The Cadent Gas asset record indicates there is an existing 27inch ST Medium Pressure (MP) gas main which runs along the verge on the western side of the A50.

- The Cadent Gas asset record indicates there is an existing 24inch DI Medium Pressure (MP) gas main which runs along the verge on the western side of the A50.

- The Cadent Gas asset record indicates there is an existing gas governor positioned in the verge on the western side of the A50.

- The Cadent Gas asset record indicates there is an existing 600mm ST Medium Pressure (MP) gas main running across the A453 adjacent to J24.

- The Cadent Gas asset record indicates there is an existing 180mm PE Medium Pressure (MP) gas main which runs along the verge of A453 Ashby Road opposite the junction with The Green.

16.4.5. A detailed review of the ESP Gas asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The ESP Gas asset record indicates there is an existing 315mm PE Medium Pressure (MP) gas main which runs near the existing EMG1 access roundabout.

Potable Water

16.4.6. A detailed review of the STW asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The STW asset record indicates there is an existing underground main which runs across the A453 and terminates into a valve within the grass verge.
- The STW asset record indicates there is an existing 12'' DI water main which runs down the verge on the northern side of the A453 Ashby Road.
- The STW asset record indicates there are existing 12'' DI and 250mm PE MDPE water mains which run across the existing roundabout on A453 Ashby Road.
- The STW asset record indicates there are existing 300mm DI, 450mm and 225mm PE water mains which run near the existing EMG1 access roundabout.
- The STW asset record indicates there is an existing 125mm PE water main which runs underneath both the A50 and the existing railway track.
- The STW asset record indicates there are existing 9inch CI and 125mm MDPE potable water mains which run across the junction with the A453 and The Green.

Telecommunications

16.4.7. A detailed review of the Openreach asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The Openreach asset record indicates there are existing underground ducts and chambers which enter the site boundary from the A453 Ashby Road and run through the site before terminating within Donington Park Services.
- The Openreach asset record indicates there are existing underground ducts which run down the verge on the northern side of A453 Ashby Road.

- The Openreach asset record indicates there are existing underground chambers and ducts which run across the existing roundabout on A453 Ashby Road.

- The Openreach asset record indicates there are existing underground chambers and ducts which run down the verges to the east and north of Finger Farm roundabout

- The Openreach asset record indicates there are existing underground chambers and ducts both within and near the existing EMG1 access roundabout.

- The Openreach asset record indicates there are existing underground chambers and ducts which run along the verge on the western side of the A50.

- The Openreach asset record indicates there are multiple existing underground chambers and ducts adjacent to the existing junction with the A453 and The Green.

16.4.8. A detailed review of the Virgin Media asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The Virgin Media asset record indicates there are existing underground ducts and chambers which runs down the verge on the northern side of the A453 Ashby Road.

- The Virgin Media asset record indicates there are existing underground chambers and ducts which run across the existing roundabout on A453 Ashby Road.

- The Virgin Media asset record indicates there are existing underground chambers and ducts which run through the area to the north of the Finger Farm roundabout.

- The Virgin Media asset record indicates there are existing underground chambers and ducts near the existing EMG1 gyratory roundabout.

- The Virgin Media asset record indicates there are existing underground chamber and ducts adjacent to the existing junction with the A453 and The Green.

16.4.9. A detailed review of the Vodafone asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

On-site apparatus:

- The Vodafone asset record indicates there are existing underground ducts and chambers which run down the verge on the southern side of the A453 Ashby Road.

- The Vodafone asset record indicates there are existing underground chambers and ducts which run across the existing roundabout on A453 Ashby Road.

- The Vodafone asset record indicates there are existing underground chambers and ducts which in the verge to the north of the Finger Farm roundabout.

- The Vodafone asset record indicates there are existing underground chambers and ducts both within and near the existing EMG1 access roundabout.

- The Vodafone asset record indicates there is an existing underground duct which runs across the existing junction with the A453 and The Green.

16.4.10. A detailed review of the Mata Data asset record information has been undertaken, based on our assessment the following assets have the potential to be either directly or indirectly affected by the construction of the **Scheme**.

Adjacent apparatus:

- The Mast Data asset record indicates there is an existing telecoms mast located at the eastern end of Hyam's Lane adjacent to Donington Park Services. The Mast is encircled by the EMG2 Main Site but is excluded from the DCO Limits itself.

16.4.11. Other statutory undertakers were contacted as part of this assessment, however following an initial consultation they have confirmed that their assets are not affected by the **Scheme**. The companies not affected by the **Scheme** are as follows:

- Airwave Solution Limited
- Arelion
- BOC Limited
- BPA
- BT Mast Data
- Cemex
- CenturyLink Communications
- CityFibre
- Colt Networks
- CTIL Cornershore
- DIO (MOD abandoned pipelines)
- Drax (Damhead Creek Power Station)
- Eclipse
- EE
- Energy Assets Networks
- ENGIE
- Envoy Asset Management
- ESP Electricity
- ESSAR
- ESSO Petroleum
- euNetworks
- EXA
- Exolum Pipelines
- Fibrenet UK Ltd
- Fibrespan Limited
- Global Crossing UK Ltd

- Gamma Telecom Limited
- Gigaclear plc
- GPSS
- GTC – Electric
- GTC – Fibre
- GTC – Waste
- GTC – Water
- Independent Water Networks
- Inovyn
- Interoute Ltd
- Interoute Vtesse Ltd
- Kingston Communications
- KPN International C/O McNicholas Construction Services
- Last Mile
- Leep Utilities
- Local Council Highways
- Local Council S50 Notices
- National Grid Electricity Transmission
- National Grid Gas Transmission
- Neo Networks
- Network Rail
- NY Net
- O2 UK Limited
- Redcentric plc
- Scotia Gas Networks (SGN)
- Sky
- Sota
- SSE Pipelines Ltd
- SSE Water (IWC)
- Tata Communications C/O McNicholas Construction Services
- TFL – London Underground
- Three
- Trafficmaster Plc
- Uniper UK Ltd
- Utility Assets Ltd
- Verizon Business
- Vodafone (formerly cable and wireless)
- Vodafone (formerly Thus Plc)
- Zayo Europe

16.5. Potential Impacts

16.5.1. This section summarises any potential impacts on the existing utility infrastructure (electricity, gas, potable water and telecommunications) and the impact of installing new supplies as proposed by the **Scheme**.

Construction Phase

Electricity

Diversion Works

16.5.2. Predicted impacts resulting from diversionary works to the existing electricity infrastructure to facilitate the construction of the **Scheme** are:

- Diversion of the existing on-site overhead and underground 11kV (HV) and LV cables within the **EMG2 Main Site**, a formal diversion enquiry will be submitted to NGED as the host distribution network operator.

- Diversion of the existing underground 11kV (HV) and LV cables within the highway to accommodate the proposed **EMG2 Access Works**, a formal diversion enquiry will be submitted to NGED as the host distribution network operator (DNO).

- Diversion of the existing underground 11kV (HV) and LV cables within the highway to accommodate the proposed **Highways Works**, formal diversion enquiries will be submitted to NGED as the host distribution network operator (DNO) and UKPD as the Independent Distribution Network Operator (IDNO) who own the apparatus.

New Supply

16.5.3. Through consultation with NGED as the host distribution network operator, NGED have advised that there is insufficient capacity in the existing local electricity infrastructure to support the connection to the **Scheme** without the completion of network reinforcement.

The NGED network reinforcement necessary to support the connection is as follows:

- Installation of a new 33,000V IDNO circuit breaker on a new 3-panel switchboard at Toton BSP.

- Diversion of GT interplant cable and the installation of a 33kV busbar interconnector.

- Completion of a 30,000V indoor switchgear termination.

16.5.4. The UKPD network reinforcement necessary to support the connection is as follows:

- Installation of a new 33,000V circuit from the IDNO boundary circuit breaker at Toton BSP to a new 33kV switchboard within the compound of the EMG1 PSS. This is included within the extent of the EMG1 Works

Gas

Diversion Works

16.5.5. Predicted impacts resulting from diversionary works to the existing gas infrastructure to facilitate the construction of the proposed development are:

- Diversion of the existing on-site underground Medium Pressure (MP) gas main within the **EMG2 Main Site**, a formal diversion enquiry will be submitted to Cadent Gas Networks as the host Gas Transporter (GT).

- Diversion of the existing underground Medium Pressure (MP) gas mains within the highway to accommodate the proposed EMG2 Access Works, a formal diversion enquiry will be submitted to Cadent Gas Networks as the host Gas Transporter (GT).

- Diversion of the existing underground Medium Pressure (MP) and Low Pressure (LP) gas mains within the highway to accommodate the proposed **Highways Works**, formal diversion enquiries will be submitted to Cadent Gas Networks as the host Gas Transporter (GT) and ESP Gas as the Independent Gas Transporter (IGT).

New Supply

16.5.6. A land enquiry has been submitted to Cadent Gas Networks to establish if there is sufficient capacity within the local network to support the connection to the **Scheme**.

16.5.7. Predicted impacts resulting from provision of gas services to the **Scheme** are as follows:

- The Point of Connections for the **EMG2 Main Site** will be provided from the existing 315mm PE and 250mm PE Medium Pressure gas mains within the verge of A453 Ashby Road, it has been confirmed by Cadent Gas Networks that there is sufficient capacity in the existing network to support the connection.

- The Point of Connection for Plot 16 will be provided from the existing 315mm PE Medium Pressure gas main within the private access road adjacent to the plot, it has bee confirmed that there is sufficient capacity in the network to support the connection.

Potable Water

Diversion Works

16.5.8. Predicted impacts resulting from diversionary works to the existing water infrastructure to facilitate the construction of the **Scheme** are:

- Diversion of the existing underground potable water mains within the highway to accommodate the proposed EMG2 Access Works, a formal diversion enquiry will be submitted to Severn Trent Water (STW) as the host water company.

- Diversion of the existing underground potable water mains within the highway to accommodate the proposed **Highways Works**, formal diversion enquiries will be submitted to Severn Trent Water (STW) as the host water company.

New Supply

16.5.9. A pre-planning enquiry has been submitted to STW to establish if there is sufficient capacity within the local network to support the connection to the **Scheme**.

16.5.10. Predicted impacts resulting from provision of water services to the proposed development are as follows:

- The Point of Connections for the **EMG2 Main Site** will be provided from the existing 12inch potable water main within the verge of A453 Ashby Road, it has been confirmed by Severn Trent Water (STW) that there is sufficient capacity in the existing network to support the connection.

- The Point of Connection for **Plot 16** will be provided from the existing 180mm PE water main within the private access road adjacent to the plot, it has been confirmed that there is sufficient capacity in the network to support the connection.

Telecommunications

Diversion Works

16.5.11. Predicted impacts resulting from diversionary works to the existing telecommunications infrastructure to facilitate the construction of the **Scheme** are:

- Diversion of the existing underground duct network within the highway to accommodate the proposed EMG2 Access Works, a formal diversion enquiry will be submitted to Openreach as the host telecoms operator.

- Diversion of the existing underground duct network within the highway to accommodate the proposed **Highways Works**, a formal diversion enquiry will be submitted to Openreach as the host telecoms operator.

- Diversion of the existing underground duct network within the highway to accommodate the proposed EMG2 Access Works, a formal diversion enquiry will be submitted to Virgin Media as the host telecoms operator.

- Diversion of the existing underground duct network within the highway to accommodate the proposed **Highways Works**, a formal diversion enquiry will be submitted to Virgin Media as the host telecoms operator.

- Diversion of the existing underground duct network within the highway to accommodate the proposed EMG2 Access Works, a formal diversion enquiry will be submitted to Vodafone as the host telecoms operator.

- Diversion of the existing underground duct network within the highway to accommodate the proposed **Highways Works**, a formal diversion enquiry will be submitted to Vodafone as the host telecoms operator.

New Supply

16.5.12. The available telecommunications providers within the local area are Openreach, Virgin Media and Vodafone. Provision of a service to the **EMG2 Main Site** will require an extension to the existing duct network in the A453 Ashby Road.

16.5.1. The available telecommunications providers within the local area are Openreach, Virgin Media and Vodafone. Provision of a service to Plot 16 as part of the **EMG1 Works** will require an extension to the existing duct network in the private access road adjacent to the plot.

16.5.2. The options and companies offering telecommunications technologies are significant and range throughout the industry, they are frequently changing and solutions offered and current/future options and opportunities will be fully explored at the detailed design stage.

Completed Development

16.5.3. Once the development is completed, the utility infrastructure diverted to accommodate the **Scheme** and the new utility supply provision will be formally adopted by the incumbent statutory undertakers and will remain under their responsibility with regard to future ownership, operation and maintenance.

16.6. Mitigation Measures

16.6.1. This section outlines the proposed mitigation for the effects identified and details measures which will be adopted to avoid, offset, or reduce adverse effects and enhance beneficial effects.

16.6.2. Mitigation measures relate to arrangements to divert, protect and/or accommodate existing utility infrastructure within the **Scheme** and ensuring new utility supplies and capacity are available to meet the requirements for each phase as the development is built.

16.6.3. Specific requirements for diversionary and/or protections to existing utility apparatus will be progressed at detailed design with the incumbent utility providers following planning consent and as the development phasing progresses. Consideration has been given in the development proposals to the provision of the required easements for future utility services and protective provisions in favour of utility undertakers are included in the EMG1 DCO and the draft DCO submitted with the DCO Application.

Construction Phase

Electricity

16.6.4. It is anticipated the existing overhead 11kV cables and poles within the **EMG2 Main Site** will need to be diverted underground with appropriate measures taken by NGED to maintain security of supply for the existing customers fed from the cables.

16.6.5. It is anticipated that the existing underground 11kV (HV) and LV cables within the highways areas will need to be diverted to accommodate the proposed **Highways Works**, with appropriate measures taken by NGED and UKPD to maintain security of supply for the existing customers fed from the cables.

16.6.6. In order to provide the import supply capacity of 22,000kVA, NGED need to reinforce their existing Bulk Supply Point (BSP) at Toton and UKPD need to install a third 33,000V circuit from Toton BSP to the existing primary substation at EMG1.

Gas

16.6.7. It is anticipated the existing underground Medium Pressure (MP) and Low Pressure (LP) gas mains within the highways areas will need to be diverted to accommodate the proposed **Highways Works**, with appropriate measures taken by Cadent Gas Networks to maintain security of supply for the existing customers fed from the mains.

16.6.8. Cadent Gas Networks have confirmed that the **EMG2 Main Site** can be supplied from the existing underground 315mm PE and 250mm PE Medium Pressure mains in A453 Ashby Road.

16.6.9. Cadent Gas Networks have confirmed that Plot 16 can be supplied from the existing 315mm PE Medium Pressure gas main within the private access road adjacent to the plot.

Potable Water

16.6.10. It is anticipated the existing underground potable water mains within the highways areas will need to be diverted to accommodate the proposed **Highways Works**, with appropriate measures taken by Severn Trent Water to maintain security of supply for the existing customers fed from the mains.

16.6.11. Severn Trent Water have confirmed that the **EMG2 Main Site** can be supplied from the existing underground 12inch potable water main in A453 Ashby Road.

16.6.12. Severn Trent Water have confirmed that Plot 16 can be supplied from the existing 180mm PE potable water main within the private access road adjacent to the plot.

Telecommunications

16.6.13. It is anticipated the existing underground ducts and chambers within the highways areas will need to be diverted to accommodate the **Highways Works**, with appropriate measures taken by Openreach, Virgin Media and Vodafone to maintain security of supply for the existing customers fed from the lines within the ducts.

16.6.14. It is anticipated that the telecoms connection point will be provided from the existing underground duct network within A453 Ashby Road, the **EMG2 Main Site** will be registered with Openreach using their New Sites Registration protocol.

16.6.1. It is anticipated that the telecoms connection point will be provided from the existing underground duct network within the private access road adjacent to the plot, Plot 16 will be registered with Openreach using their New Sites Registration protocol.

16.7. Residual Effects

16.7.1. Residual effects are those which remain after mitigation measures have been taken into account.

Construction Phase

Electricity

16.7.1. With the implementation of the improvements to the facilities set out above, the effect of the **Scheme** on the electricity supply will be **Negligible/Neutral**.

Gas

16.7.2. With the implementation of the improvements to the facilities set out above, the effect of the **Scheme** on the gas supply will be **Negligible/Neutral**.

Potable Water

16.7.3. With the implementation of the improvements to the facilities set out above, the effect of the **Scheme** on the potable water supply will be **Negligible/Neutral**.

Telecommunications

16.7.4. With the implementation of the improvements to the facilities set out above, the effect of the **Scheme** on the telecommunications supply will be **Negligible/Neutral**.

Completed Development

16.7.5. With the implementation of the electricity strategy for the **Scheme,** there will be no significant reduction in the availability of power within the NGED electricity network in the local area.

16.7.1. With the implementation of the water strategy for the **Scheme,** there will be no significant reduction in the availability of water within Severn Trent Water's network in the local area.

16.7.1. With the implementation of the water strategy for the **Scheme,** there will be no significant reduction in the availability of gas within Cadent Gas Network's network in the local area.

16.8. Cumulative Effects

16.8.1. [section to be completed]

16.9. Summary of Effects and Conclusions

16.9.1. This chapter has identified baseline constraints with regard to potential existing utility (electricity, gas, potable water and telecommunications) diversions and/or protections both within and adjacent to the **Scheme** and an approach to progress such matters as the proposed development is built out.

16.9.2. The main utility constraints to the **Scheme** are the overhead 11kV (HV) cables and poles on the **EMG2 Main Site** and the existing underground utility services (electricity cables, gas mains, potable water mains and telecoms chambers and ducts) within the **Highways Works**.

16.9.3. From consultation with the host distribution network operator NGED, an electricity supply strategy has been identified for the **Scheme** with appropriate reinforcement.

16.9.1. From consultation with the independent distribution network operator UKPD, an electricity supply strategy has been identified for the **Scheme** with appropriate reinforcement.

16.9.2. From consultation with the host gas transporter Cadent Gas Networks, a gas supply strategy has been identified for the **Scheme** without the requirement for reinforcement.

16.9.3. From consultation with the host water company STW, a water supply strategy has been identified for the **Scheme** without the requirement for reinforcement.

16.9.4. The existing telecommunications providers within the local area (Openreach, Virgin Media and Vodafone) will be able to confirm that the **Scheme** can be supplied by extending and/or adapting their existing network in the vicinity. Further options and opportunities to provide telecommunication technologies will be advanced at the detailed design stage.

16.9.5. The options and companies offering telecommunications technologies are significant and range throughout the industry, they are frequently changing and solutions offered and current/future options and opportunities will be fully explored at the detailed design stage.

16.9.6. Overall there are no significant effects of the diversion or new supply works arising from the **Scheme**.