

Appendix 6A

An Bord Pleanála Pre-Application Submission

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22 November 2022

The Secretary
An Bord Pleanála
64 Marlborough Street
Dublin 1

Dear Sir/Madam,

**RE: Pre-Application Request for SID Determination
Proposed 350MW OCGT Development at Derryfrench, Tynagh, Loughrea, Co. Galway**

We act on behalf of EP Energy Developments Limited¹, who intend to seek planning permission for an Open Cycle Gas Turbine (OCGT) power plant and ancillary buildings and infrastructure on land to the north of the existing Tynagh Power Station in Co. Galway. An overview of the proposed development is contained in the enclosed Planning Statement.

The proposed development's power output will be 350MW and it will connect to electricity and gas infrastructure that serve the existing Tynagh Power Station. As the energy output of the proposed development will be in excess of 300MW it constitutes 'Seventh Schedule' development under the Planning and Development Act (the 'Act')². We consider the proposal to be 'Strategic Infrastructure Development' (SID) under the terms of Section 37A of the Act as it is of **strategic economic importance** to the State and the region in which it is situate. We note, in this regard, the Departmental Circular letter issued to An Bord Pleanála in December 2021³, in light of the ongoing and severe risk to the security of electricity supply for the State identified by the Commission for the Regulation of Utilities (CRU), which emphasises that *"the development of new conventional generation (including gas-fired and gasoil distillate-fired generation) is a national priority"* and that the determination of applications for such infrastructure *"should be prioritised as much as possible"*.

Furthermore, with reference to Section 37A of the Act, the proposed development - by helping to maintain security of supply and facilitating the integration of more renewable generation into the electricity network - would contribute significantly to the fulfilment of national and regional objectives to deliver a *"secure and reliable electricity network"* and will have a significant effect on the area of

¹ 3rd Floor, The Crescent Building, Northwood Park, Santry, Dublin 9, D09 X8W3

² i.e. Infrastructure development for the purposes of Sections 37A and 37B of the Act

³ Circular Letter PL 12/2001

more than one planning authority (Notwithstanding that the site is located entirely within the administrative area of Galway County Council).

We hereby submit a Pre-Application Request for a Determination from An Bord Pleanála as to the status of the proposed development as Strategic Infrastructure Development. The following drawings and documents are enclosed (2 copies):

- Planning Statement
- Rural Place Map
- Site Location Map
- Existing Site Plan
- Proposed Site Plan

We look forward to receiving a determination from An Bord Pleanála at its earliest convenience and, should a consultation meeting be required, we respectfully request confirmation of same as soon as possible.

A cheque for the required fee of €4,500 (Fee Category SP1) is attached.

We trust that the enclosed drawings and summary statement are clear, however please do not hesitate to contact the undersigned directly in the event of any queries.

Kind Regards,



Ed Barrett

Gravis Planning

ebarrett@gravisplanning.com

086 775 9355

Proposed OCGT Development

Planning Statement

Pre-Application Consultation Request to An Bord Pleanála

November 2022

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- A. Circular Letter PL 12/2001

1.0 Introduction

1.1 This Statement is submitted to An Bord Pleanála by Gravis Planning¹ on behalf of EP Energy Developments Limited², who intend to apply for planning permission for a 350MW Open Cycle Gas Turbine (OCCGT) power plant and ancillary plant and infrastructure on land to the north of the existing Tynagh Power Station facility in Co. Galway.

The Prospective Applicant

1.2 EP Energy Developments Limited is a subsidiary of EP UK Investments Ltd., which owns and operates a number of power stations in Ireland and the UK and is the majority shareholder in the existing Tynagh Power Station.

Need for Development

1.3 The National Development Plan (2021-2030) (NDP)³ is clear that maintaining security of energy supply is a key national priority for the coming decade and beyond. This has been further underlined by the Government's 'Policy Statement on Security of Electricity Supply'⁴, published in November 2021, and Eirgrid's latest 'All-Island Generation Capacity Statement' (2021- 2030)⁵.

1.4 The NDP identifies an *urgent requirement* to deliver circa 2 GW of new conventional (mainly gas-fired) generation capacity by 2030, alongside c. 15.5 GW of new renewable capacity within the next ten years just to keep pace with increased demand for electricity, with Eirgrid's Capacity Statement forecasting generation shortfalls in 2024 and from 2026 – 2030. The position is stark, and has been exacerbated by:

- Lower than expected availability of some existing power stations
- Anticipated new power stations not being developed as planned
- Exceptional growth in demand for electricity due to increased economic activity, including the growth of large energy users such as data centres
- The expected closure over the coming years of power stations which make up approx. 25% of existing conventional generation capacity

(Refer to the Eirgrid 'All-Island Capacity Generation Statement' for detail)

1.5 Approximately 1,650MW of generation capacity is scheduled to be retired in the Republic of Ireland over the next 5 years, with a further 500-600MW retiring in

¹ Gravis Planning, Denshaw House, 121 Baggot Street Lower, Dublin 2, D02 FD45.

² 3rd Floor, The Crescent Building, Northwood Park, Santry, Dublin 9, D09 X8W3

³ <https://www.gov.ie/en/publication/774e2-national-development-plan-2021-2030/>

⁴ <https://www.gov.ie/en/publication/a4757-policy-statement-on-security-of-electricity-supply/#>

⁵ <https://www.eirgridgroup.com/site-files/library/EirGrid/208281-All-Island-Generation-Capacity-Statement-LR13A.pdf>

Northern Ireland. Risks around extended periods of low renewable generation output and delays in the delivery of planned offshore capacity must also be countered.

- 1.6 New conventional generation capacity, in particular ‘open cycle’ technology which can respond quickly to shortfalls in power generation at times of high demand, is therefore essential and its delivery must be prioritised.
- 1.7 This has been explicitly stated in the Government’s ‘Policy Statement on Security of Electricity Supply’ and the accompanying Circular Letter (12/2021) issued to An Bord Pleanála and the Directors of Planning of each local authority in December 2021⁶. The Departmental Circular states that *“the development of new conventional generation (including gas-fired and gasoil distillate-fired generation) is a national priority”* and that the determination of applications for such infrastructure *“should be prioritised as much as possible”*. The proposal which is the subject of this request is for this type of infrastructure - it will perform a critical role for the State as a responsive power generator in helping to maintain security of supply and facilitating the integration of more renewable generation into the electricity network. In light of the existing and forecast generation pressures facing the country it is our client’s intention to proceed with a planning application without delay.

Capacity Market

- 1.8 The proposed OCGT plant is to be delivered under the terms of a Capacity Auction that will be run by the Single Energy Market Operator (‘SEMO’) in February 2023, and is a separate project in addition to the 299MW OCGT development on land to the south, which is currently awaiting determination by An Bord Pleanála (ABP-313538-22).

Seventh Schedule

- 1.9 As the energy output of the proposed development will be 350MW it constitutes ‘Seventh Schedule’ development under the Planning and Development Act (‘A thermal power station or other combustion installation with a total energy output of 300 megawatts or more’). We consider that it constitutes ‘Strategic Infrastructure Development’ (SID) under the terms of Section 37A of the Act as it is clearly of strategic economic importance to the State and the region. Furthermore, it will contribute significantly to the realisation of national and regional planning objectives and will, in delivering a nationally significant quantum of flexible, fast start-up generation capacity to the grid, have effects far beyond the local planning authority area in which it is situated. As such, we consider that the forthcoming application must be submitted directly to An Bord Pleanála.

⁶ Copy attached at Appendix A. The Circular Letter was also issued to local authority Chief Executives, Senior Planners, the Office of the Planning Regulator and the Directors of the Regional Assemblies.

Structure of Statement

1.10 This Planning Statement is intended to assist the Board's consideration as to the 'SID' status of the proposed development and is set out as follows:

- Introduction
- Site Details
- Overview of Proposed Development
- Environmental Impact
- Opinion on SID

2.0 Site Details

2.1 Location and Description

- 2.1.1 The site of the proposed development is located to the north of the existing Tynagh Power Station, which itself is approximately 1.5km to the north of the village of Tynagh in Co. Galway.
- 2.1.2 It is part of the former Tynagh Mine complex and is of an industrial/brownfield character. The area in which it sits is classified in the County Development Plan as being of low landscape value and sensitivity.
- 2.1.3 The site, which measures approx. 5.5 ha., is well-screened in the local landscape. It is accessed via the L4310 Gurtymadden to Tynagh road to the west.
- 2.1.4 It formerly served as a construction compound for the existing Tynagh Power Station, and includes the remains of structures which date from the construction period. There are existing high voltage overhead power lines running through the centre of the site, which connect to the existing ESB substation to the south.

2.2 Planning History

- 2.2.1 As noted above, the site lies to the north of the existing Tynagh CCGT Power Station, which was granted planning permission in 2003 and 2004 (Galway County Council planning reg. ref.s 03/2943 and 04/2511) and commenced operations in 2006. The existing gas AGI ('Above Ground Installation') within the Tynagh Power Station site was permitted in 2004 under planning reg. ref. 04/2193.
- 2.2.2 The overhead power line which runs through the site, connecting the existing CCGT Power Station to the ESB transmission network to the north, was also permitted in 2004 (Planning reg. ref. 04/1974).
- 2.2.3 In April 2022 Galway County Council issued notification of a decision to grant planning permission to the Prospective Applicant for a separate OCGT development within the existing power station site, comprising a new 299 MW Open Cycle Gas Turbine ('OCGT') plant and associated infrastructure and buildings. This was appealed by An Taisce on 11th May 2022 and the case is currently awaiting determination by An Bord Pleanála (ABP-313538-22).
- 2.2.4 The proposed OCGT development which is the subject of this request is a separate, additional project which is being advanced in response to increasingly urgent capacity market requirements.

3.0 Overview of Proposed Development

3.1 Introduction

- 3.1.1 The proposed plant comprises a 350MW gas-fired Open Cycle Gas Turbine (OCGT). The plant will operate as a 'peaking plant', spending most of its time on standby, only being run for relatively short periods of time when there is insufficient electricity being generated from renewable technologies to meet the country's needs.
- 3.1.2 An OCGT has been selected as the most appropriate technology as it is able to respond to the changes in electricity demand by starting up very quickly, and can achieve full output within short periods of time. An OCGT also provides a very high-power density, minimising its required footprint and visual impact, and produces the least NOx emissions of the power generating technologies available.
- 3.1.3 The existing CCGT plant at Tynagh - in contrast to OCGT technology - operates on a continual basis to provide a base level of supply to the grid. This will not be affected by the proposed development.
- 3.1.3 The proposed 350MW OCGT plant and the existing CCGT plant at Tynagh will operate independently of one another, as will the OCGT plant which is awaiting determination under ABP-313538-22 (in the event of permission being granted). The three plants will deliver power to the grid through separate transformers, gas AGI connections and electrical substation bays.
- 3.1.4 Electricity transmission will be ancillary to the plant, carrying electricity underground from the main transformer to the existing electrical substation to the south, where a new bay will be installed⁷. There are no alterations proposed to the electricity network outside of the site as part of this development. A new gas AGI ('Above Ground Installation') will also be required, connecting to the existing gas pipeline that serves the site⁸. The presence of the existing gas and electricity infrastructure at Tynagh is a key benefit of the site.
- 3.1.5 The key elements of the project are the OCGT unit and associated balance of plant and equipment; a secondary fuel storage facility; and connections to the existing gas and electricity infrastructure. No natural gas storage is proposed.
- 3.1.6 A high-level overview of the different elements is as follows:

⁷ This expansion of the existing substation will be subject to detailed design by ESB Networks

⁸ The AGI will be subject to detailed design by Gas Networks Ireland

3.2 Open Cycle Gas Turbine Unit

- OCGT unit comprising a single gas turbine and a single alternating current (AC) generator [Item 5 on the Site Layout Plan]. The generator and gas turbine will be housed in separate acoustic enclosures with ventilation ducts.
- Exhaust stack, the height of which will be determined from air quality modelling and will be fitted with a continuous emissions monitoring system (CEMS) to monitor flue gas composition. The stack is expected to be 9 m in diameter and 40 m in height [Item 6 on the Site Layout Plan].
- A containerised control module will house the turbine controls and a containerised electrical module will supply power to the turbine and its associated auxiliary systems.
- Outdoor step-up transformer to increase the voltage of the generated power to a level suitable for export to the existing on-site electrical substation.
- Fuel gas conditioning skid located outdoors adjacent to the turbine hall. The skid provides the final conditioning of the fuel gas before it enters the gas turbine. The process includes heating the fuel gas to increase the overall efficiency of the plant.
- Forced air cooling radiators will be used to manage waste heat from the lubrication oil and other essential systems when operational.
- Ancillary systems will be in containers and enclosures adjacent to the gas turbine.
- The power generating unit and associated equipment will have a footprint of approximately 5,300m².

3.3 Secondary Fuel Storage Facility

- The proposed plant is required under the Grid Code⁹ to maintain a secondary fuel supply (~8,750 tonnes) to be stored in tanks within a bunded area on site [Item 8 on Site Layout Plan]. The purpose of this secondary fuel is to ensure that power can still be supplied to the electricity network in the event of an interruption to supply from the gas network. The secondary fuel will only be used for testing and in the highly unlikely event that both the gas connection is unavailable and other generation capacity on the transmission grid cannot meet demand.
- A fuel treatment plant will be required to remove any contaminants from the secondary fuel that may accumulate during storage, which will be collected in a tank contained within the bunded area prior to its safe disposal [Item 9 on Site Layout Plan].
- The secondary fuel will be received via road tanker at an unloading station adjacent to the bunded area and transferred to the tanks via a set of unloading pumps [Item 10 on Site Layout Plan].
- A fuel forwarding pump set will forward the secondary fuel from the storage area to the plant when required.

⁹ CC.7.3.1.2 , Grid Code Version 9 <https://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-info>

- The secondary fuel storage facility and associated equipment will have a footprint of approximately 2,000m².

3.4 Gas Connection

- A new, independent gas AGI will be required for the OCGT to deliver the required gas capacity for the plant [Location shaded yellow on Site Layout Plan]. This will connect to the existing gas pipeline which serves Tynagh Power Station and will be subject to detailed design by Gas Networks Ireland.

3.5 Electricity Substation expansion

- An additional electrical bay will be required within the substation compound to the south [Shaded yellow on Site Layout Plan] to allow the plant to export power to the grid. This will be subject to detailed design by ESB Networks.
- The OCGT will be connected to this new bay via subsurface cables.

3.6 Balance of Plant

- A combined raw and fire water tank with the fire pumps in a container adjacent to the tank [Item 2 on Site Layout Plan].
- Demineralised water storage tank [Item 1 on Site Layout Plan].
- Pipework, pipe runs and pipe racks, cables and cableways connecting the elements of the plant together.
- Site drainage system including surface water drainage and stormwater attenuation.
- Site roads and unloading areas.
- Operation and maintenance laydown area(s) comprising hardstanding, laydown and open storage areas.
- Perimeter fence, external lighting and closed-circuit television cameras.

4.0 Environmental Impact

4.1 As set out within Annex I of the Environmental Impact Assessment Directive, a thermal power station or other combustion installation with an output of 300MW or more requires mandatory EIA.

4.2 A comprehensive Environmental Impact Assessment Report (EIAR) is being prepared at present by AECOM and will form part of the planning application. It will assess the cumulative impact of the proposed development alongside both the existing and proposed plants to the south.

4.3 The EIAR will include the following chapters:

- Introduction
- Planning Policy
- Need and Alternatives
- Existing Site and Conditions
- The Proposed Development
- Consultations
- Air Quality and Climate
- Cultural Heritage and Archaeology
- Biodiversity
- Landscape and Visual
- Noise and Vibration
- Water Environment
- Soils and Geology
- Traffic
- Land Use
- Population and Human Health
- Material Assets
- Major Accidents and Disasters
- Cumulative Effects and Interactions
- Conclusions

4.4 In addition, the application will be subject to Appropriate Assessment (AA). The first stage of this, an Appropriate Assessment Screening Opinion, is being prepared at present.

5.0 Opinion on SID

5.1 The proposed development is of a class listed under the 'Energy Infrastructure' section of the Seventh Schedule of the Planning and Development Act, i.e.

'A thermal power station or other combustion installation with a total energy output of 300 megawatts or more'

5.2 It therefore falls to be considered under Section 37A and 37B of the Act.

5.3 Section 37A of the Act states that any development which is listed under the Seventh Schedule shall be made directly to An Bord Pleanála provided that, following consultations under Section 37B of the Act, the Board is of the opinion that – if carried out – it would fall within one or more of the following criteria:

- a) *the development would be of strategic economic or social importance to the State or the region in which it would be situate,*
- b) *the development would contribute substantially to the fulfilment of any of the objectives in the National Planning Framework or in any regional spatial and economic strategy in force in respect of the area or areas in which it would be situate,*
- c) *the development would have a significant effect on the area of more than one planning authority.*

5.4 We consider that the proposed development meets all of the above criteria.

5.5 It is of ***strategic economic importance*** to the State, ***will contribute significantly to the realisation of national and regional planning objectives*** and will, in delivering a nationally significant quantum of generation capacity to the grid, ***have effects beyond the local planning authority area in which it is situated.***

5.6 As such, we consider the proposed development to constitute Strategic Infrastructure Development, requiring an application to be submitted directly to An Bord Pleanála.

5.7 We look forward to the Board's determination on this matter in due course, and request that the processing of this case is afforded due priority in accordance with Departmental Circular Letter 12/2021.

Appendix A



To: Directors of Planning in each local authority

CC: Chief Executives
Senior Planners
An Bord Pleanála
Office of the Planning Regulator
Directors of Regional Assemblies

Circular Letter PL 12/2021

10 December 2021

Re: Government Policy Statement on Security of Electricity Supply

I have been asked by Mr Peter Burke, T.D, Minister of State for Planning and Local Government to advise planning authorities of the recent adoption and publication by the Government of a new Policy Statement on Security of Electricity Supply, as prepared by the Minister for the Environment, Climate and Communications. A copy of the Policy Statement is attached for information.

The background to the Policy Statement is the short to medium term risk to electricity security of supply as identified by the Commission for the Regulation of Utilities (CRU) due to a number of factors:

- lower than expected availability of some existing power stations;
- anticipated new power stations not being developed as planned;
- expected growth in demand for electricity, due to increased activity by high energy consuming industries including the growth of data centres,
- the expected closure of power stations which make up approximately 25% of conventional electricity generating capacity over the coming years.

In this regard, it should be specifically noted - as can be seen from page 5 of the Policy Statement - that the Government has approved that:

1. the development of new conventional generation (including gas-fired and gasoil distillate-fired generation) is a national priority and should be permitted and supported in order to ensure security of electricity supply and support the growth of renewable electricity generation;
2. it is appropriate that existing conventional electricity generation capacity should be retained until the new conventional electricity generation capacity is developed in order to ensure security of electricity supply;



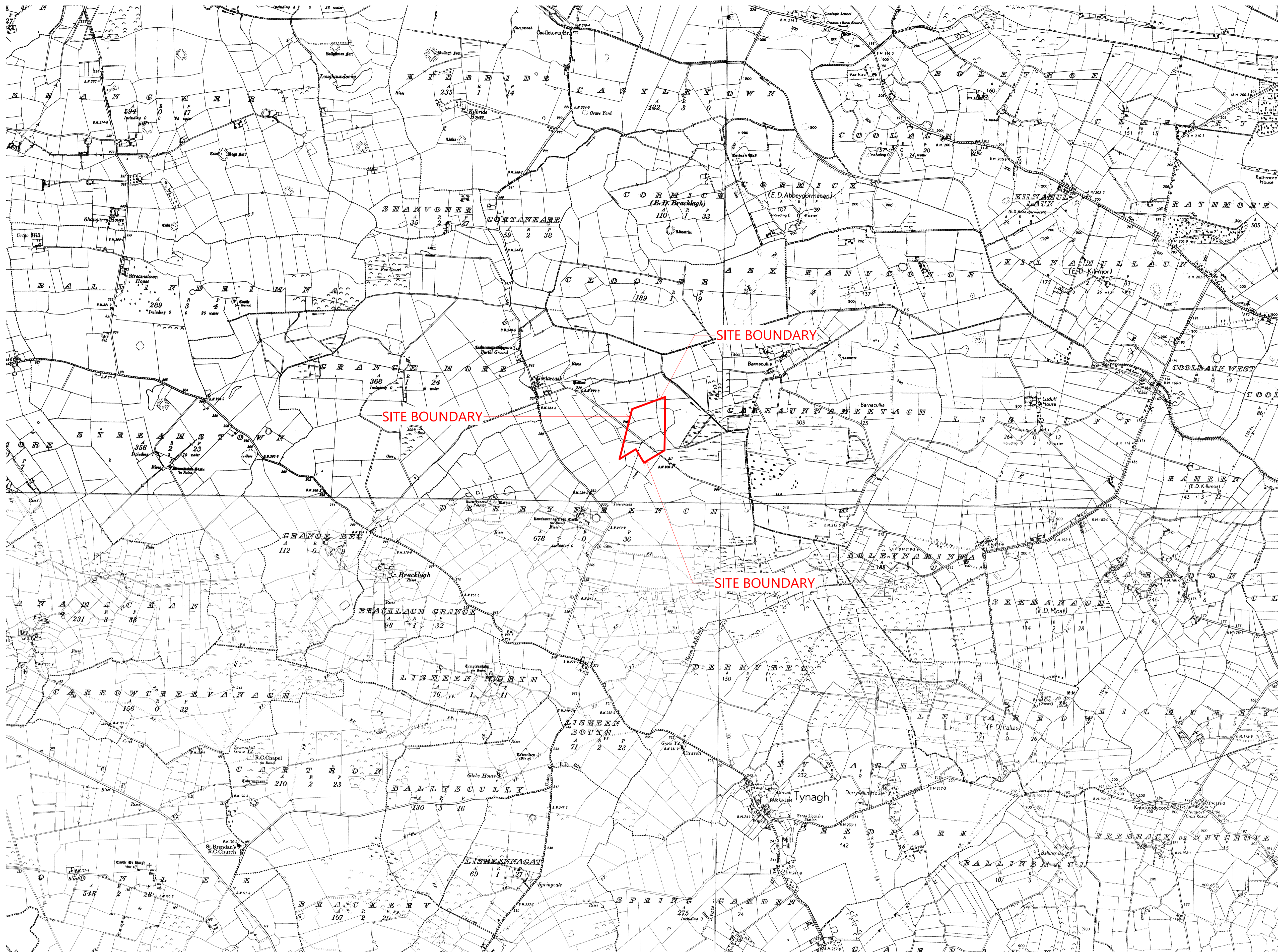
3. the connection of large energy users to the electricity grid should take into account the potential impact on security of electricity supply and on the need to decarbonise the electricity grid;
4. it is appropriate for additional electricity transmission and distribution grid infrastructure, electricity interconnection and electricity storage to be permitted and developed in order to support the growth of renewable energy and to support security of electricity supply; and
5. it is appropriate for additional natural gas transmission and distribution grid infrastructure to be permitted and developed in order to support security of electricity supply.

In essence, the Policy Statement recognises the need in the current circumstances for a continued mixture of electricity generation and supporting infrastructure to maintain security of electricity supply. In this connection, planning authorities are advised that where planning applications are submitted for electricity infrastructure or infrastructure that may impact on electricity supply – including for existing conventional electricity generation – that they should, until further notice, be considered having regard to the Policy Statement. Furthermore, it is requested that the determination of all such planning applications should be prioritised as much as possible in light of the current circumstances relating to electricity supply.

Terry Sheridan

Principal

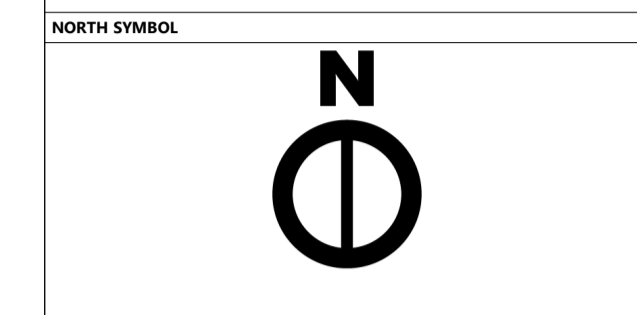
Planning Policy and Legislation



RURAL PLACE MAP Tynagh OCGT

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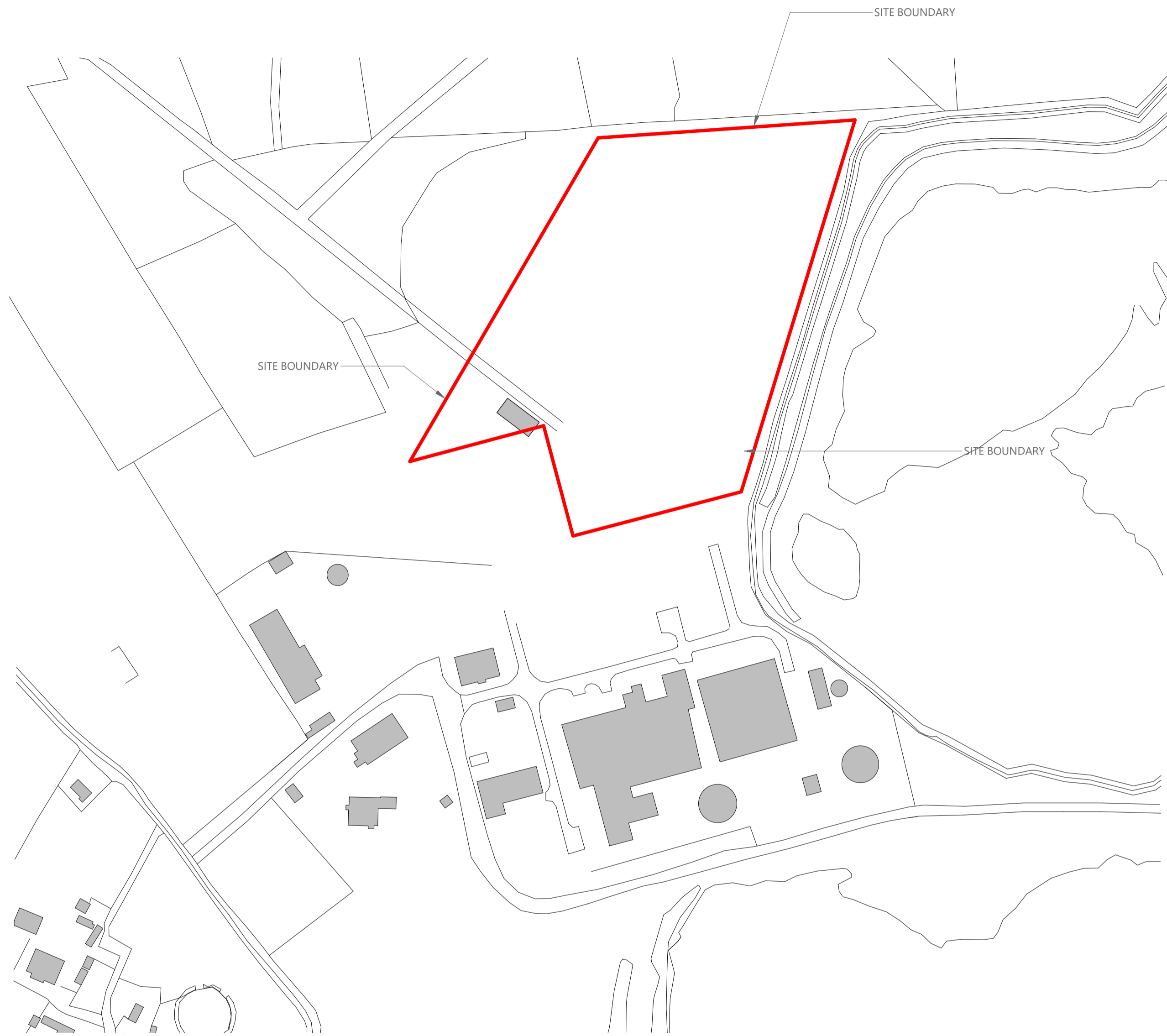
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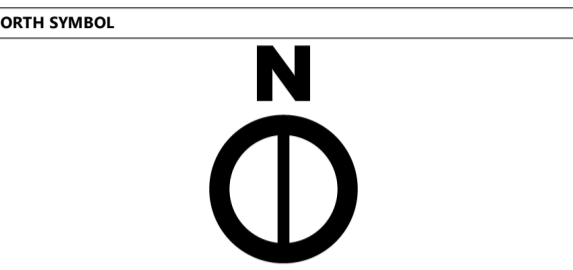
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1 **SITE LOCATION MAP Tynagh OCGT**
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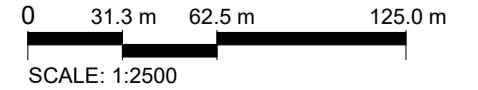
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Client:
EP ENERGY DEVELOPMENTS Ltd.

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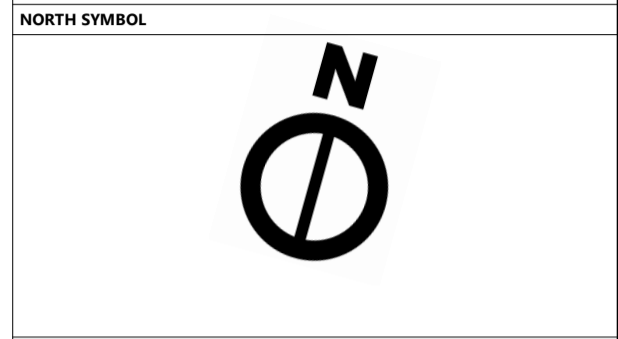
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SITE LOCATION MAP

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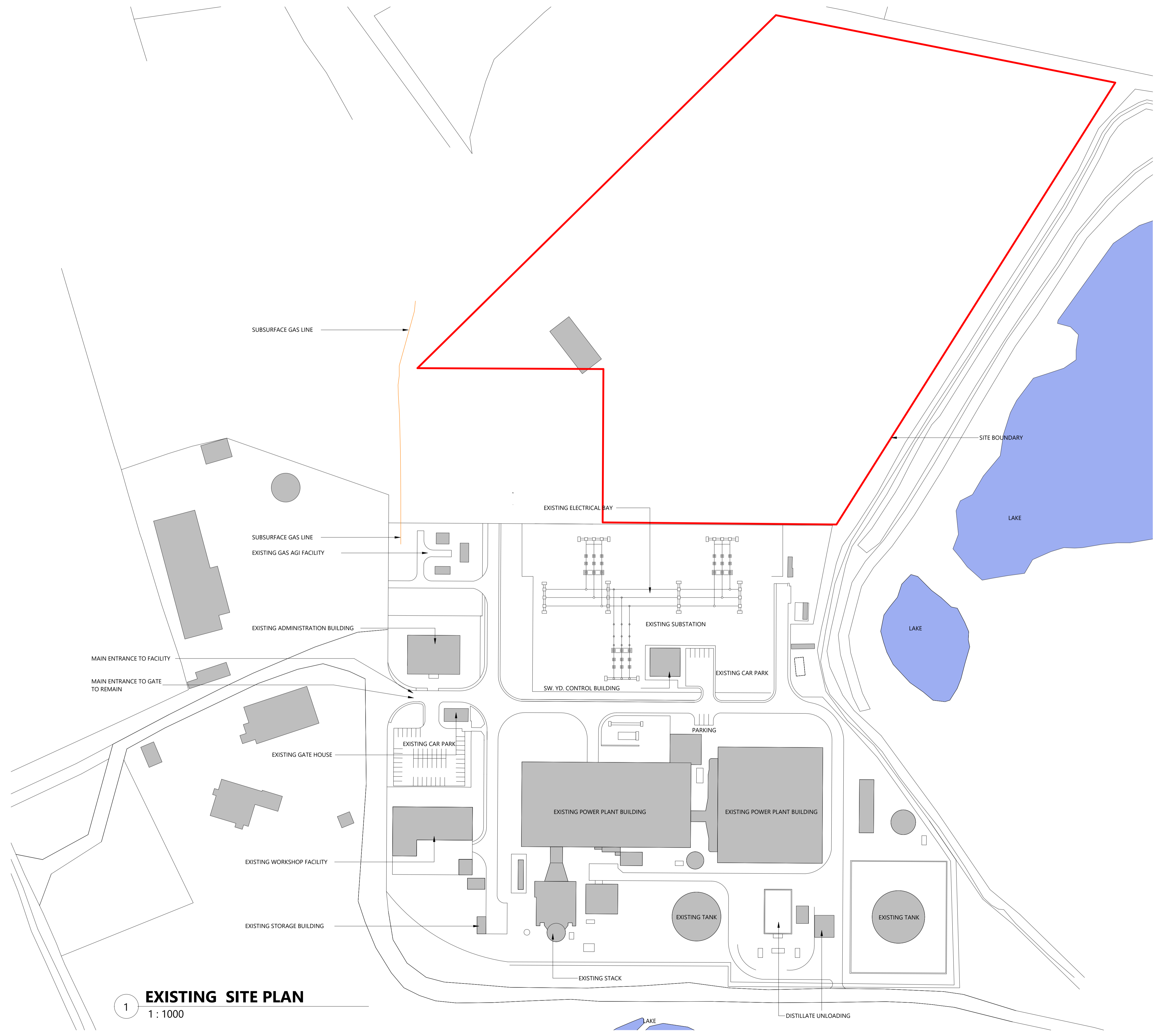


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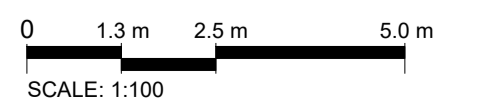
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LEGEND:
 — SITE BOUNDARY



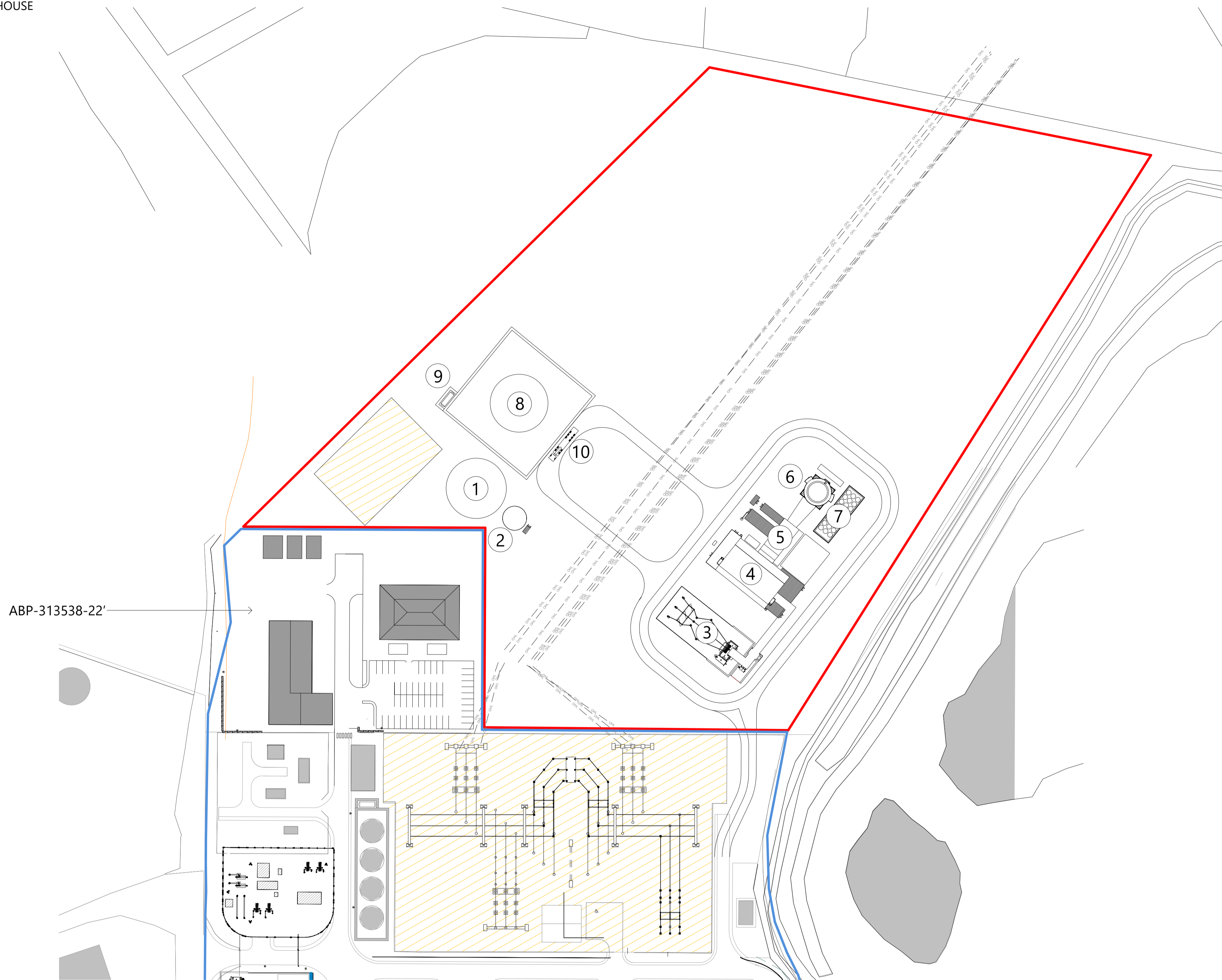
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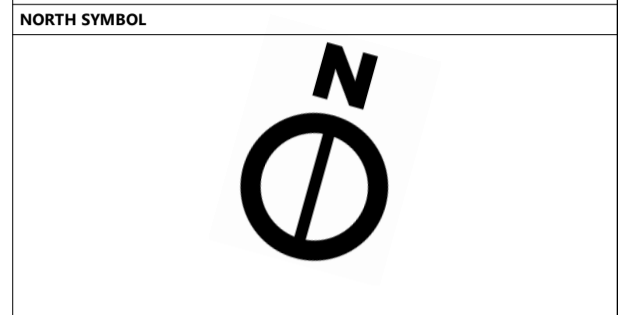
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REF DESCRIPTION

- ① DEMIN TANK
- ② FIREWATER TANK & PUMPHOUSE
- ③ SWITCHYARD
- ④ AIR INTAKE
- ⑤ OCGT
- ⑥ STACK
- ⑦ FIN FAN COOLERS
- ⑧ FUEL OIL STORAGE
- ⑨ FUEL TREATMENT
- ⑩ FUEL UNLOADING



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- LEGEND:**
- SITE BOUNDARY
TOTAL AREA 13.630Acre (55162.092sqm)
 - OHL OVERHEAD LINES
 - EXISTING GAS LINE
 - BLUE LINE BOUNDARY FOR EXISTING OCGT APPLICATION
 - AGI & SUBSTATION - Subject To Detailed Design And Consent By Others

ALL INFORMATION ON THIS DRAWING IS INDICATIVE ONLY, AND MAY BE SUBJECT TO FURTHER DESIGN DEVELOPMENT

① **Proposed Site Plan Tynagh OCGT**
1 : 1000

P01	221121	Tynagh North	Description:	Down by:	TODD
Rev:	Date:			Chk:	by:
Client: EP ENERGY DEVELOPMENTS Ltd.					
Project Name: TYNAGH NORTH OCGT					
Drawing Title: PROPOSED SITE PLAN					
<p>TODD Architects 2nd Floor Titanic House, 6 Queens Road, Belfast, BT3 9DT T: +44 (0) 28 9024 5587 E: info@toddarch.co.uk</p>					
Date:	10/24/22	Drawn by:	BS	Checked by:	PL
Project No:	21024	Status:		Scale:	As indicated
Drawing Number:	TYN-TOD-ZZ-DR-A-1004		Revision:	P01	

