Coire Glas Connection

Scottish & Southern Electricity Networks

Coire Glas Connection Works

- Scottish and Southern Electricity Networks – Transmission (SSEN-T) has received a Transmission Owner Connection Agreement to connect the Coire Glas Pumped Hydro Storage scheme.

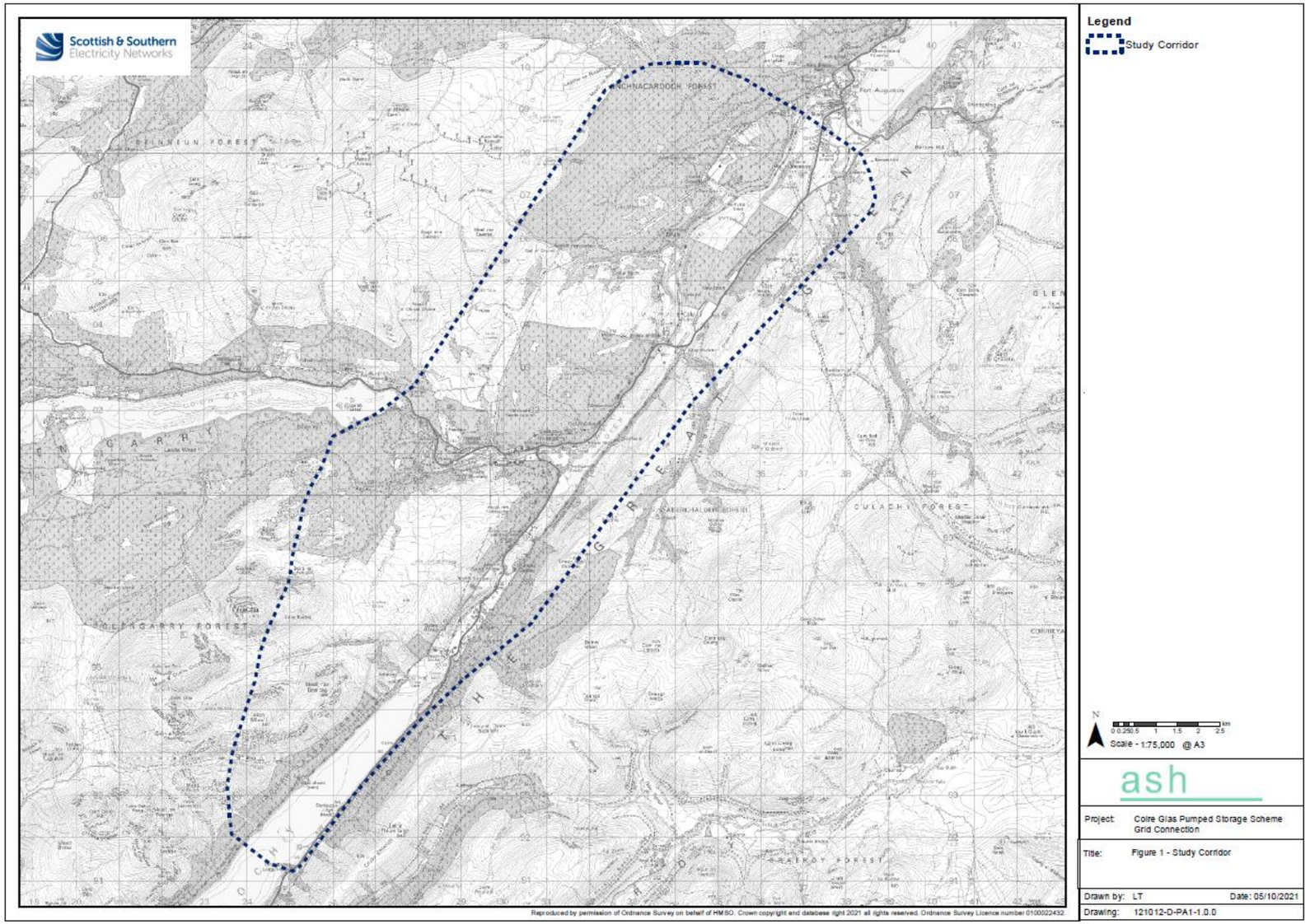
- The two phase connection is for a total of 1296MW, based on:

  - Phase 1 - Connection of 612MW in December 2027
  - Phase 2 - Connection of a further 684MW in October 2029

Technical Solution

- The grid connection comprises four elements required to facilitate the connection:
    - **Air Insulated (AIS) Switching Station** – *required for both SSEN Transmission and SSE Renewables and will include two control buildings*
    - **400kV Overhead Line** - *between the proposed Coire Glas Switching station to a new substation in the vicinity of Loch Lundie*
    - **Substation for SSENT** – *comprising a control building and outdoor Air Insulated substation (AIS) equipment*
    - **400kV Overhead Line –** *between the new Loch Lundie substation to the existing SSENT Auchterawe substation at Fort Augustus*

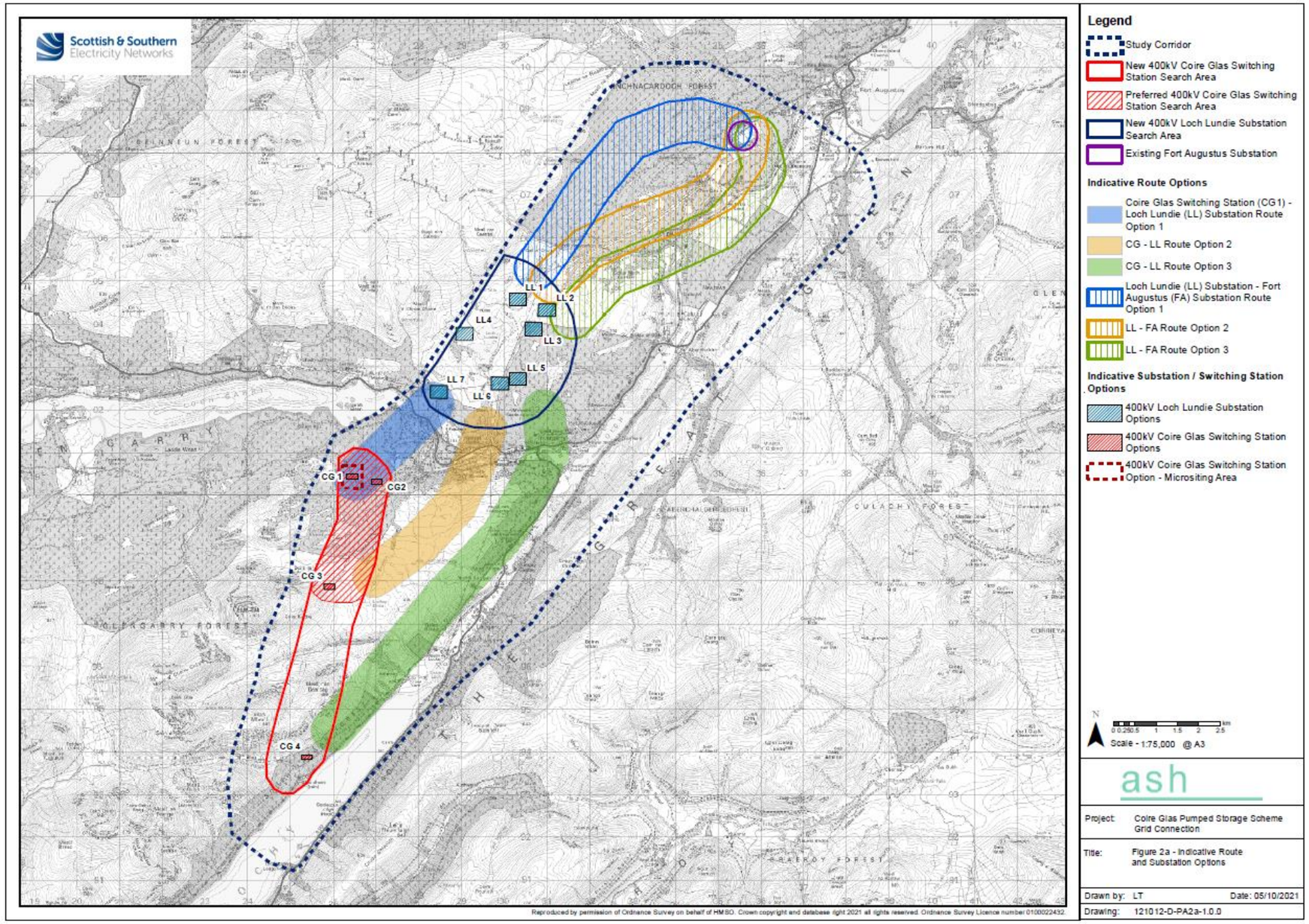
Route/Site Selection Process



SHE Transmission's Route/Site Selection process includes detailed appraisal of:

- Environmental aspects
- Technical aspects
- Cost
- Additional considerations - existing and future land use including rationalisation of existing transmission infrastructure
- Study area defined by connection points in the S & W , and the mountainous terrain & lochs in other directions.

Route/Site Options

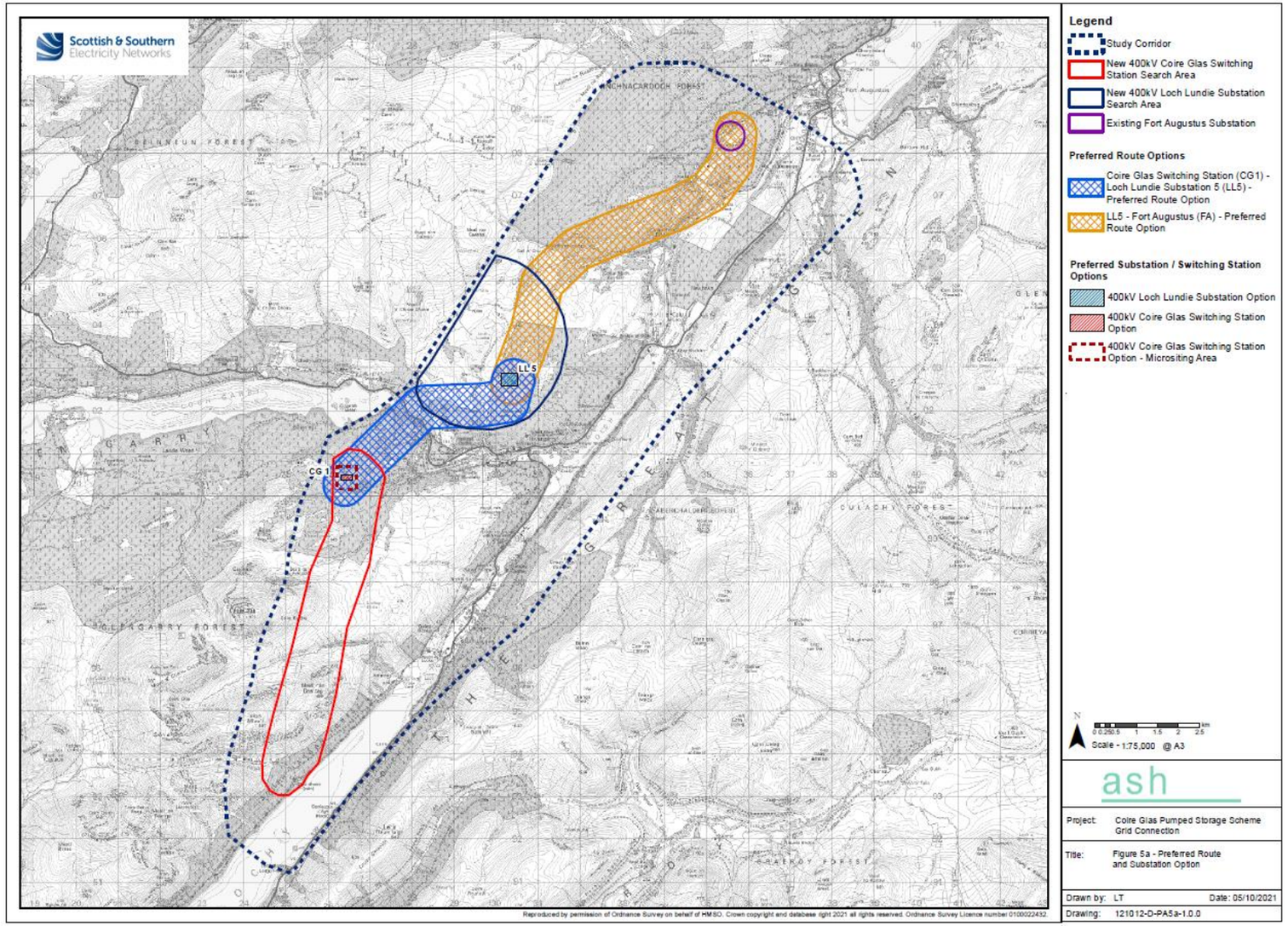


Key Constraints

- Landscape character
- Visual receptors
- Cultural heritage
- Proximity to dwellings
- Recreation
- Ornithology
- Forestry
- Habitats

Indicative Preferred option

- Coire Glas Switching Station (CG1)
- C. 3.5km 400kV OHL- between the proposed Coire Glas Switching station (CG1) to a new substation in the vicinity of Loch Lundie (blue hatch)
- 400/132kV Substation in the vicinity of Loch Lundie (LL5)
- C. 8.5km 400kV Overhead Line – between the proposed Loch Lundie substation (LL5) to the existing SSENT Auchterawe substation at Fort Augustus (orange hatch)
- To be confirmed on completion of Assessments



Connection Option: Further Considerations

- Rationalisation under Skye Reinforcement Project and Interface
- Skye Reinforcement Project connection date Dec 2025.
- Existing section of 132kV OHL to Fort William (FFE/FFW cct.) will be dismantled between Loch Lundie substation and Auchterawe and incorporated into the new 400kV OHL. Solution how to achieve this still being reviewed.
- Connection details of new 400kV circuit from Loch Lundie at Auchterawe to be finalised.
- The underground circuit associated with the Skye project connecting into Fort Augustus would remain.

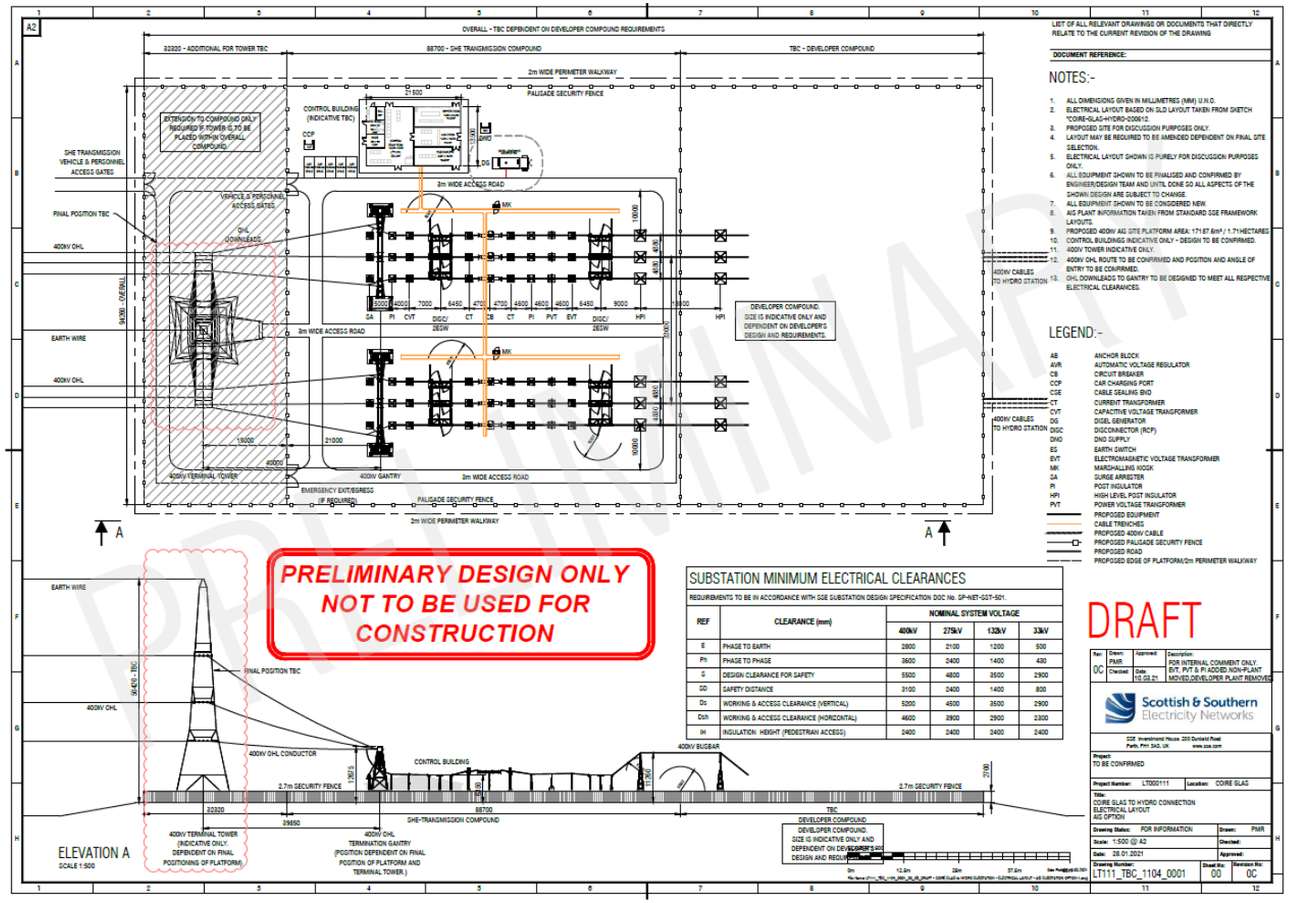
Overhead Line

400kV Overhead Line

- Double Circuit Steel Lattice Overhead Line
- Rating requires the SSE400 Design (same as Beauly – Denny)
- Standard height for 400kV design is 56 metres with a span of approximately 370 metres, around 30 – 35 Towers for 12 km.
- Standard height for 132kV design is 27 metres with a span of approximately 250 metres, around 45 – 50 Towers for 12 km.

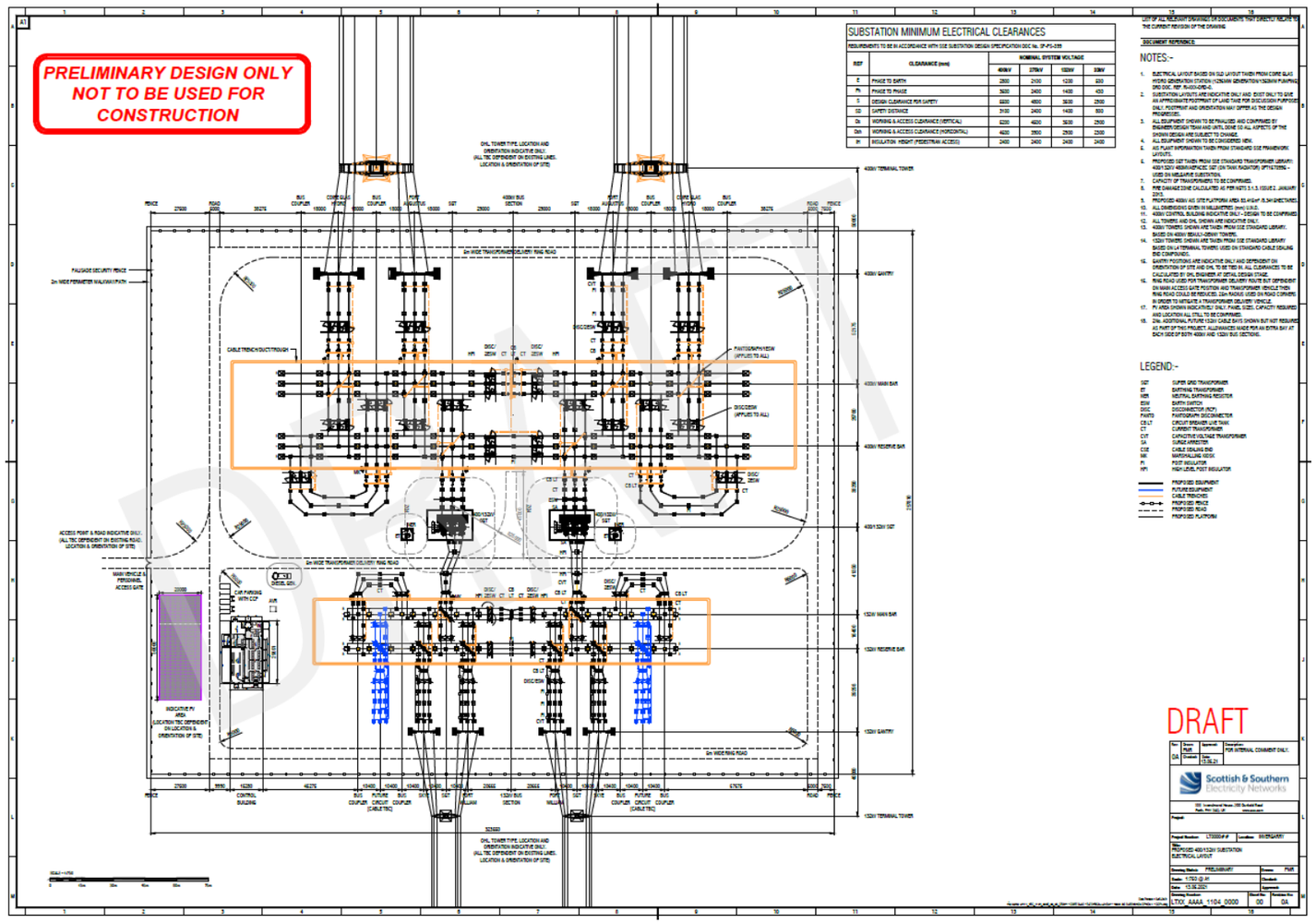
Indicative Coire Glas Switching Station

- Total estimated site area (including developer compound) is approx. 165m x 94.2m= 15608m2
- Control Building is approx. 21.5m x 13.5m with a height of approx. 6-8 metres. Additional control building may be required for the Developer
- Height of the highest equipment is 400kV Busbar which is less than 12m
- SF6 GIS equipment is currently not available in the market for 400kV so AIS is proposed



Indicative Loch Lundie Substation

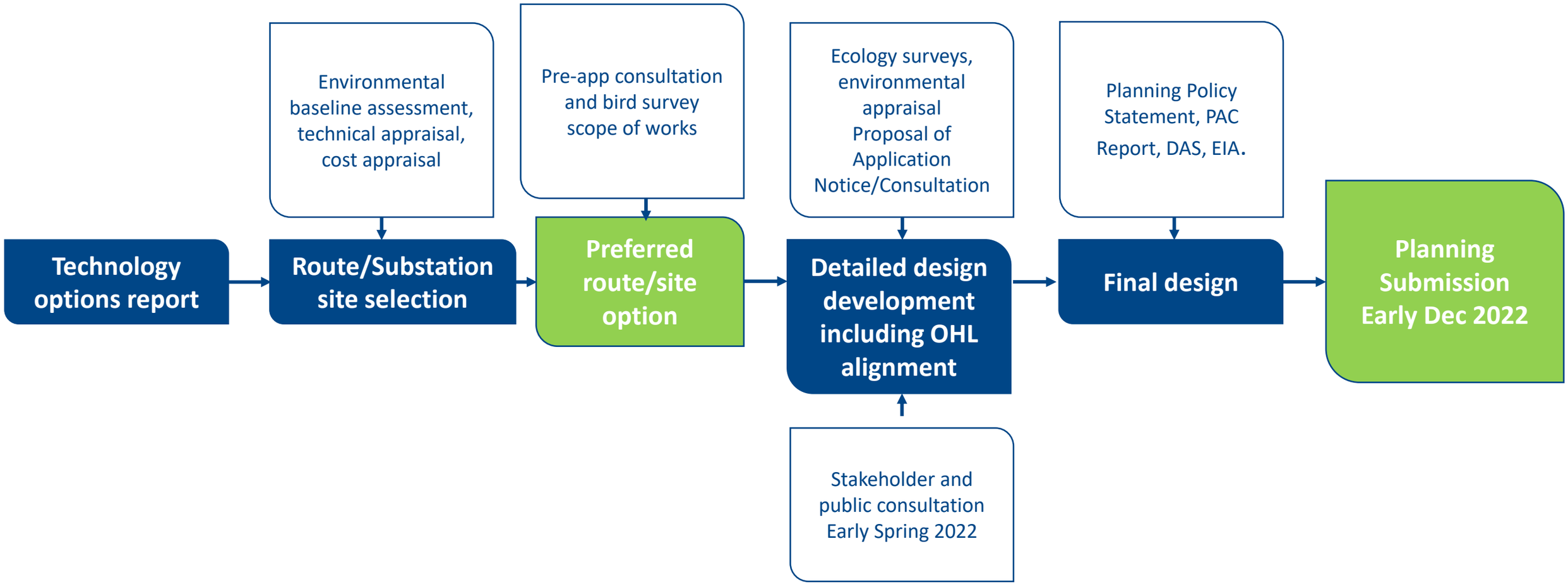
- Substation Compound size approx. 323.5m x 257.8m =83,398m2
- Control Building is approx.15.2m x 29.6m. Height is between 6—8m
- Height of the highest equipment is 400kV Busbar which is less than 12m
- SF6 GIS equipment is currently not available in the market for 400kV so AIS is proposed



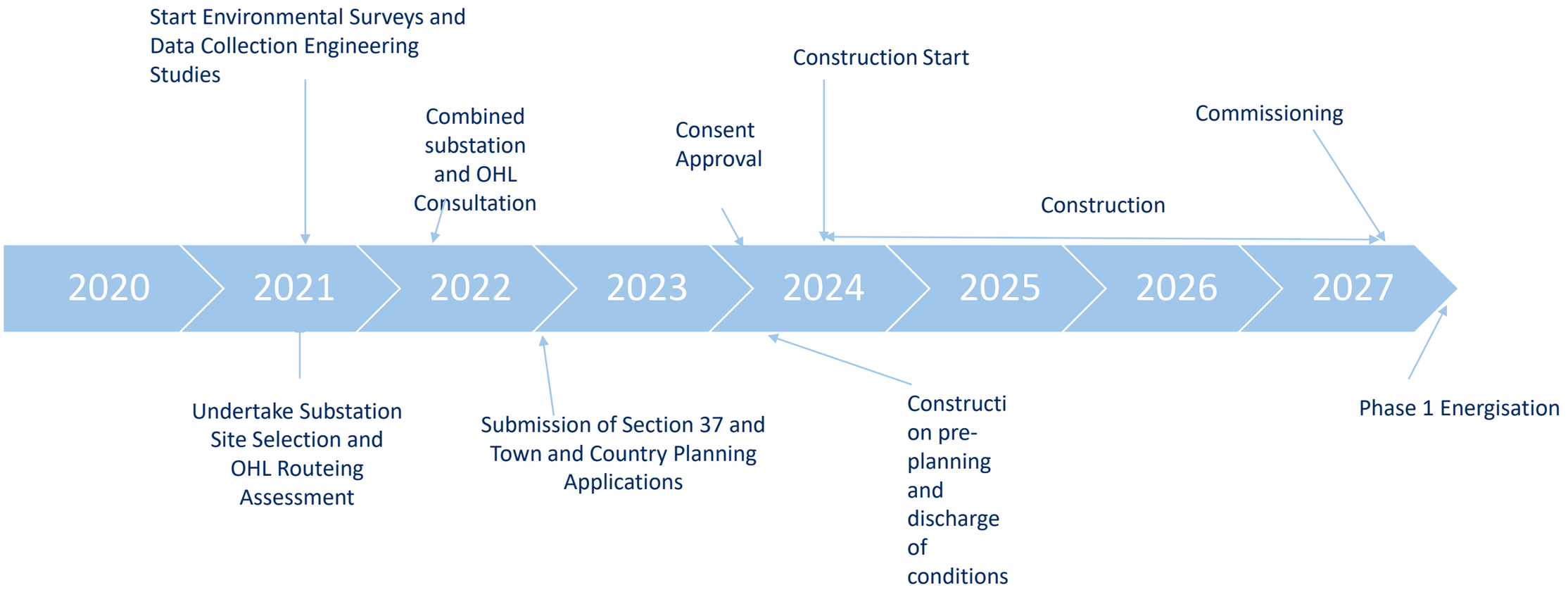
Connection requirements at Auchterawe

- OHL from Loch Lundie connection onto a new gantry and 2 new 400kV feeder bays constructed at Auchterawe substation
- Existing equipment and spatial constraints within Auchterawe substation may mean that we have to extend the north west corner where we enter locally by 10 to 15m.
- Entry of new circuits into Auchterawe needs to take consideration of existing Planning Conditions and constraints including landscaping and woodland plans

Project development: current phase



High Level Programme



Next Steps

- Finalise Routeing and Site Selection Assessments
- Continued Engagement with Community Stakeholders
- Further Engagement with Community Councils
- Assessment of access routes and requirements: we aim to utilise existing tracks as much as possible for works from Invergarry to Fort Augustus and share access tracks with SSER between Coire Glas and Invergarry
- Prepare and issue Consultation Documentation
- Statutory and Public Consultation- Q1 2022
- Environmental Impact Assessment Scoping and Screening
- Environmental and Engineering Surveys
- Development and completion of connection design
- Preparation of Environmental Impact Assessment to support Consent Applications

Further Questions and Information

Should there be any questions or general enquiries for the project after the meeting please contact

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