

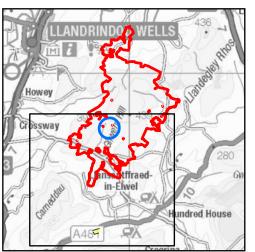


Figure 1.1: Bryn Gilwern 132kV Connection Project Location

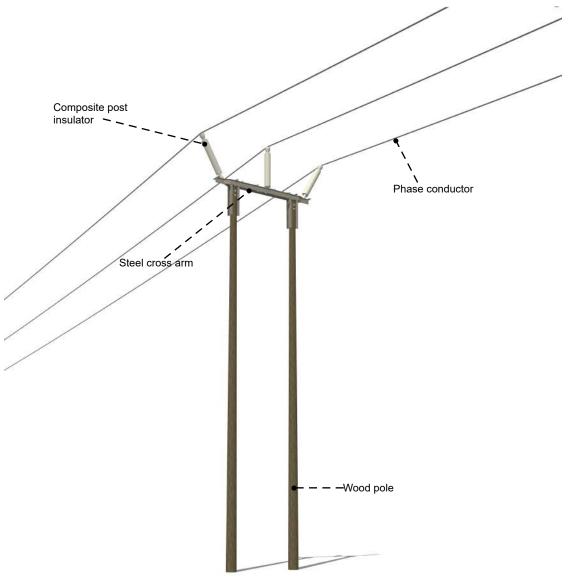
Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location







Component parts of 132kV design wood pole: Intermediate (H Pole)



Figure 2.1b: Typical Wood Pole (Component Parts of 132kV Design Wood Pole - Intermediate)



Component parts of 132kV design wood pole: Terminal (H Pole) with cable termination

ENATS 43-50 Cable Termination Pole

Bryn Gilwern Grid Connection -Routeing Alignment Report for Green GEN Cymru



Figure 2.1c: Typical Wood Pole (Component Parts of 132kV Design Wood Pole - Terminal)



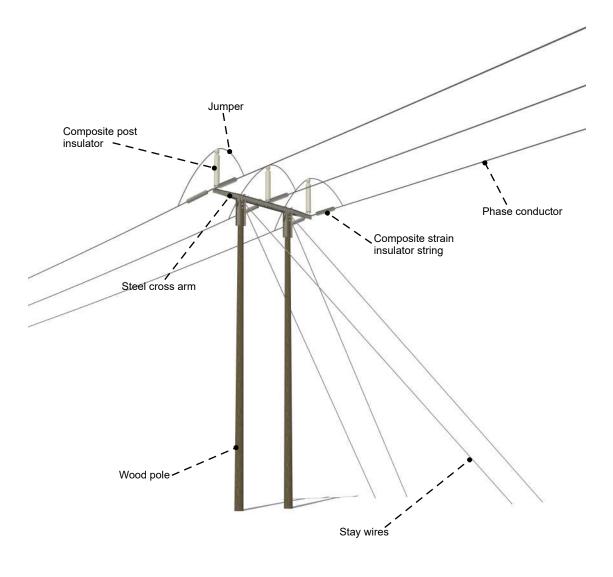




Figure 2.1a: Typical Wood Pole (Component Parts of 132kV Design Wood Pole - Angle)

Component parts of 132kV design wood pole: Angle (H Pole)

ENATS 43-50 Wood Pole (H-Pole)



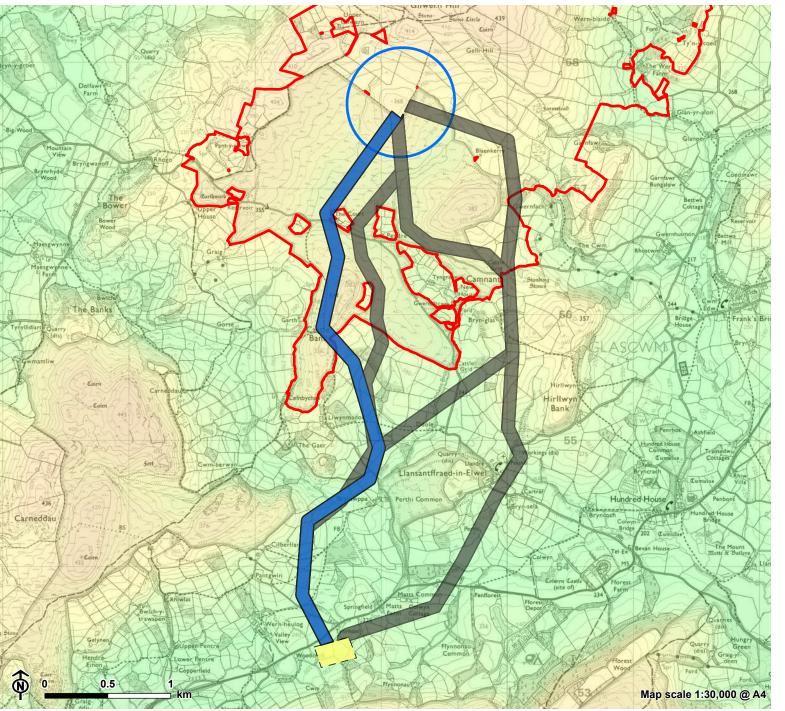




Figure 4.1.1: Bryn Gilwern 132kV Connection Project Route Option 1

Route Option 1

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)

High



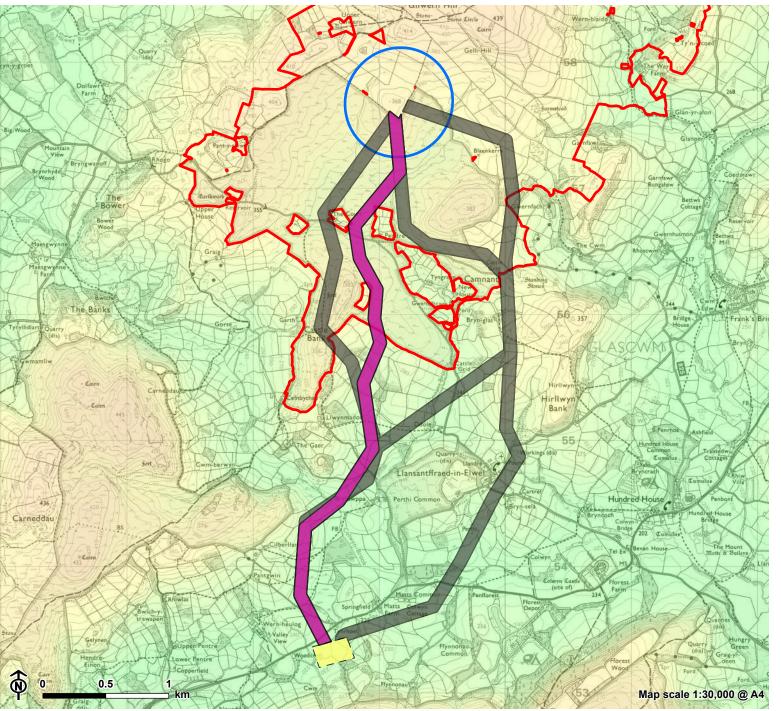




Figure 4.1.2: Bryn Gilwern 132kV Connection Project Route Option 2

Route Option 2

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)

High



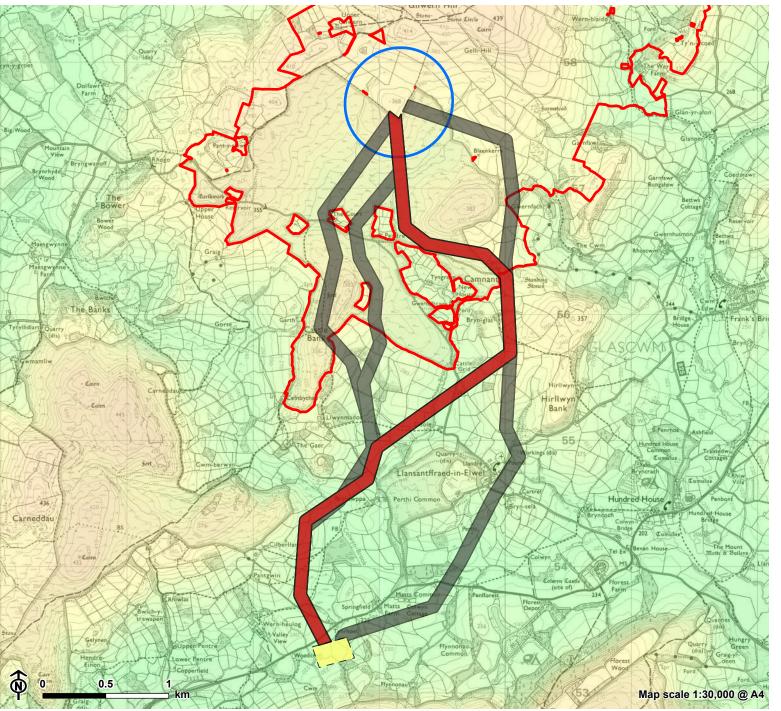




Figure 4.1.3: Bryn Gilwern 132kV Connection Project Route Option 3

Route Option 3

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)

High



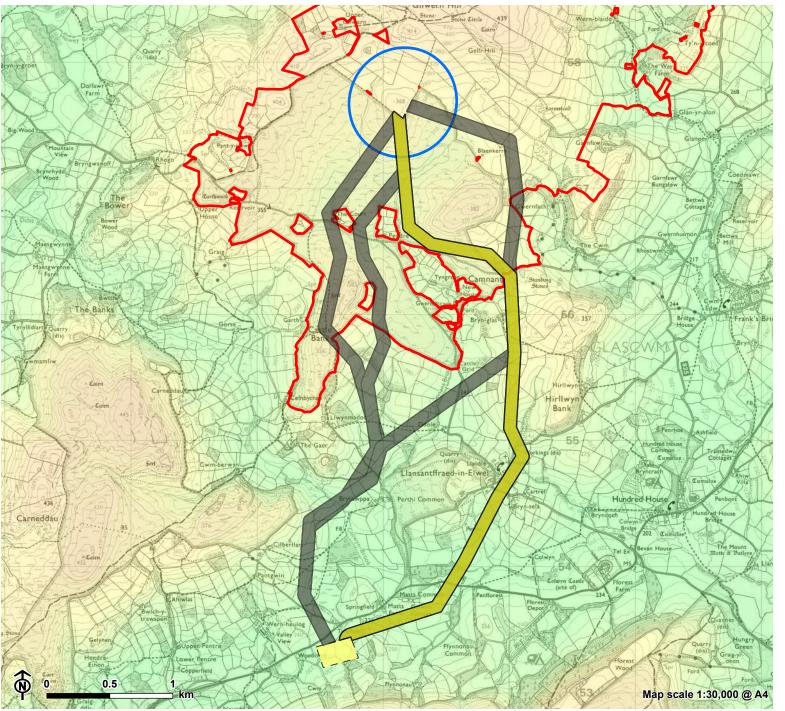




Figure 4.1.4: Bryn Gilwern 132kV Connection Project Route Option 4

Route Option 4

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)
High
Low



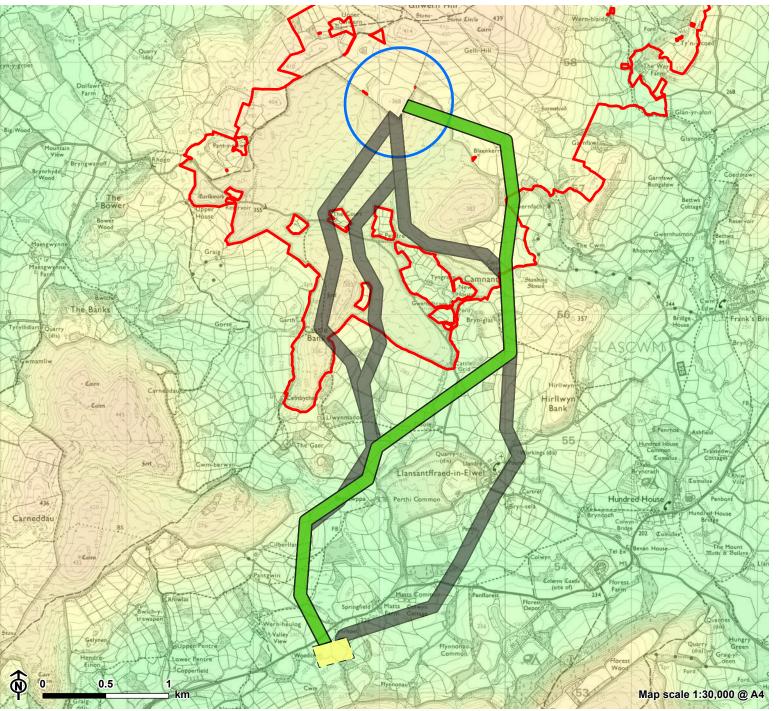




Figure 4.1.5: Bryn Gilwern 132kV Connection Project Route Option 5

Route Option 5

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)

High



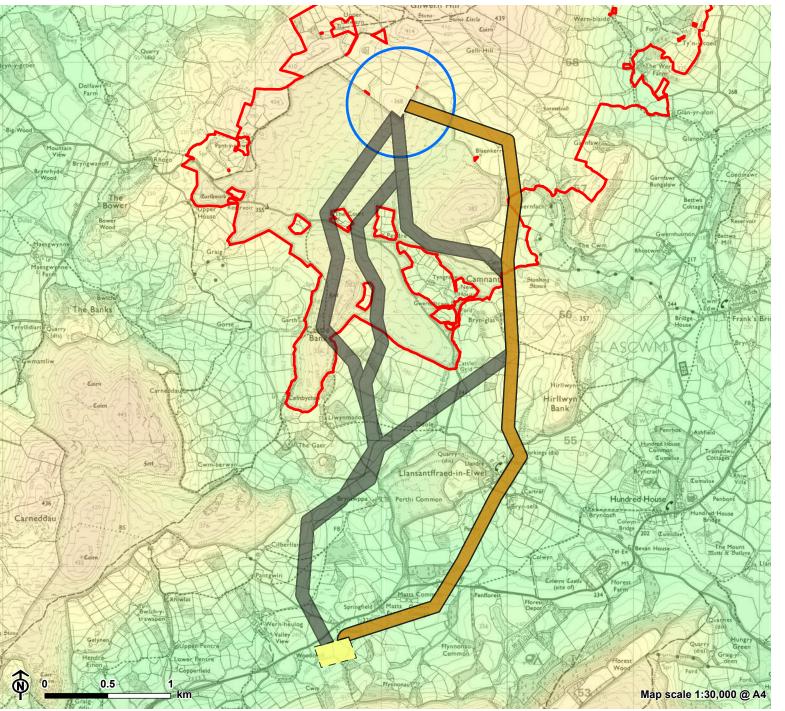




Figure 4.1.6: Bryn Gilwern 132kV Connection Project Route Option 6

Route Option 6

Other route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Terrain (AOD)

High



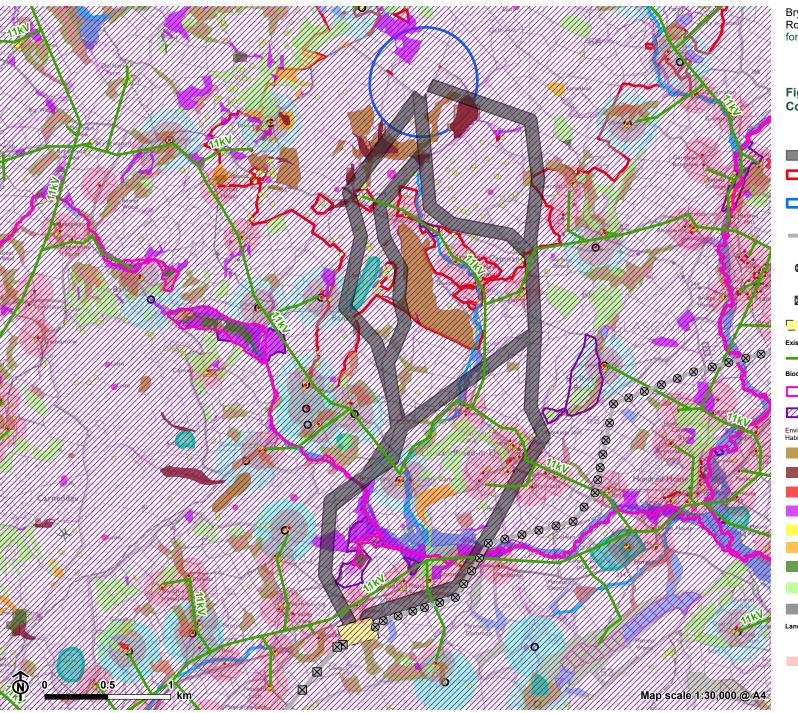


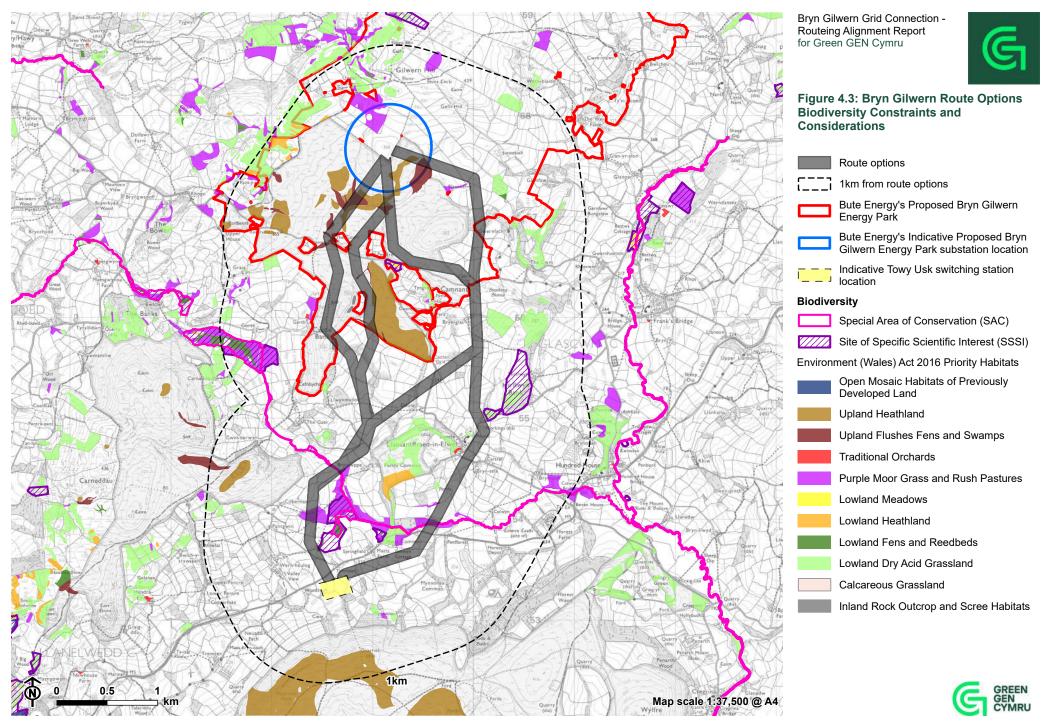


Figure 4.2: Bryn Gilwern Route Options Constraints and Considerations





Peat (Peatlands of Wales)



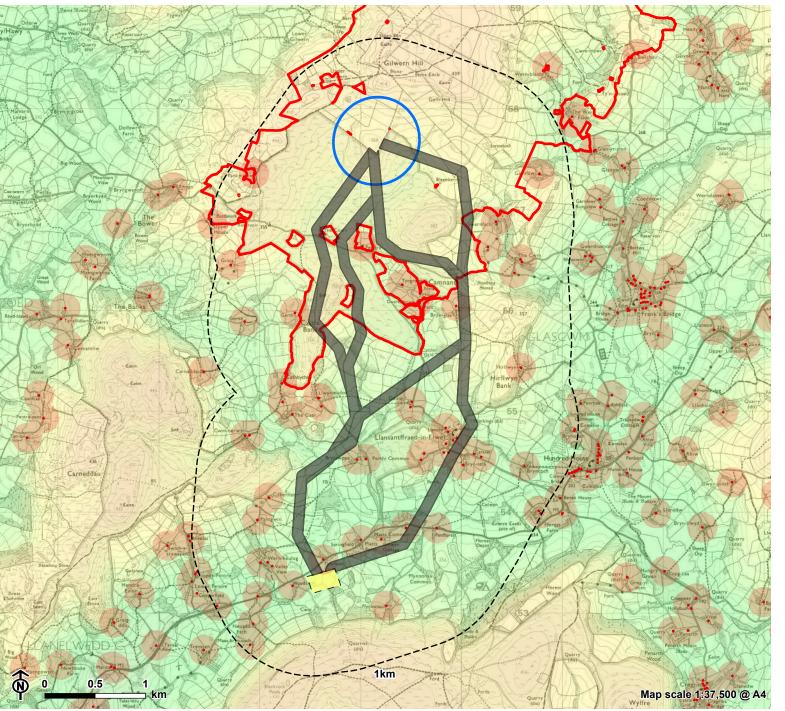




Figure 4.4.1: Bryn Gilwern Route Options Landscape and Visual Amenity Constraints and Considerations

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Landscape and Visual Amenity

Residential Property

150m from Residential Property

Terrain (AOD)

High



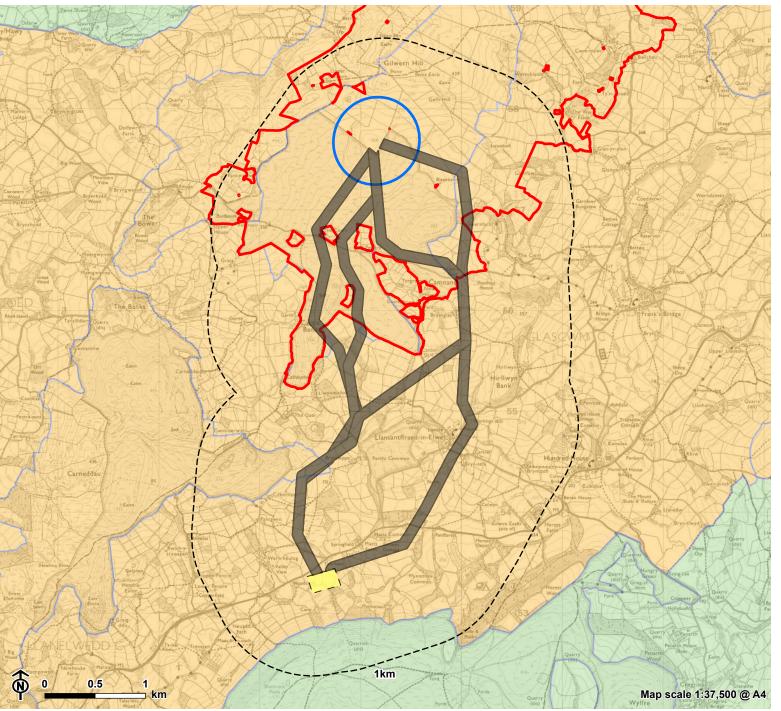




Figure 4.4.2: Bryn Gilwern LANDMAP Aspect Areas: Visual Sensory

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

LANDMAP Visual and Sensory - Overall Evaluation

High



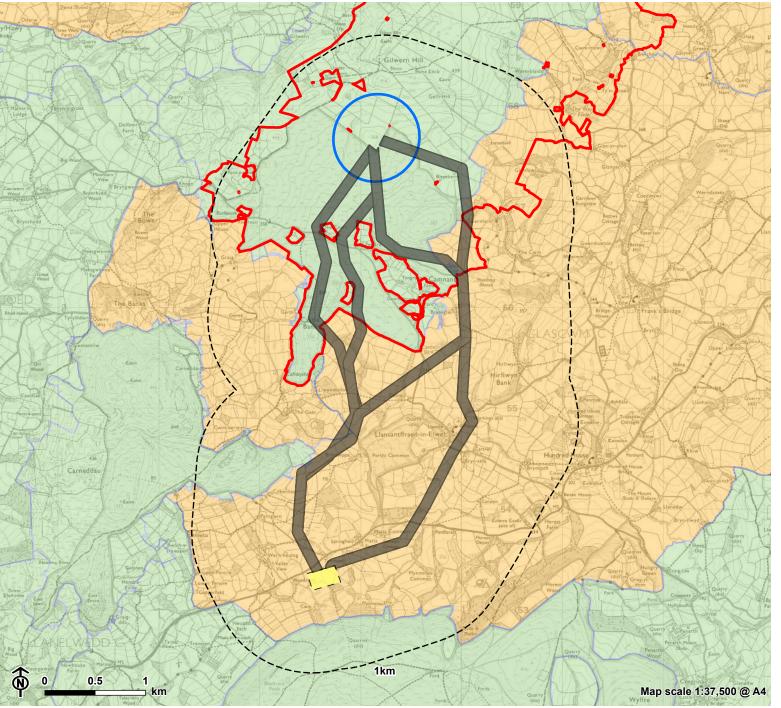




Figure 4.4.3: Bryn Gilwern LANDMAP Aspect Areas: Landscape Habitat

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

LANDMAP Landscape Habitat - Overall Evaluation

High



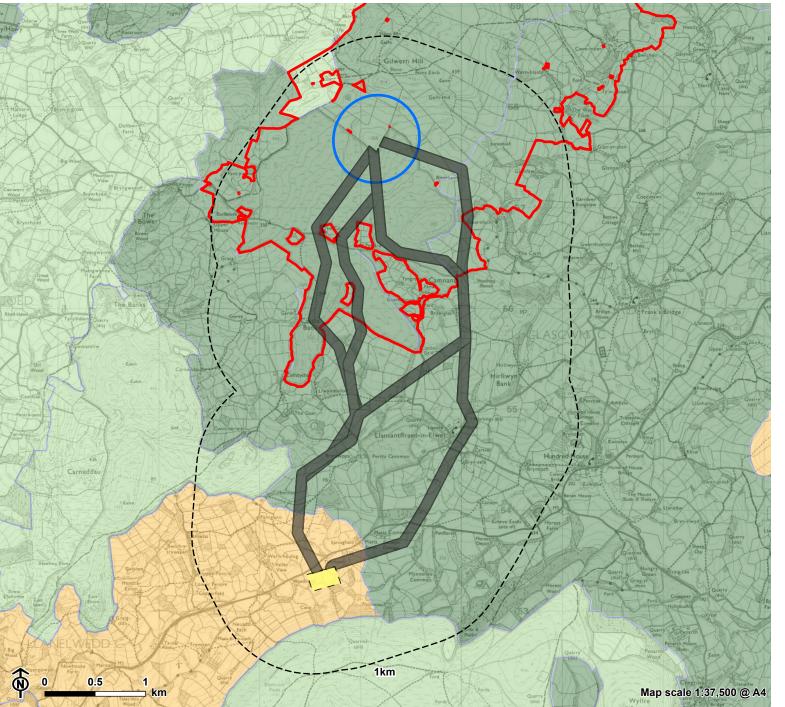




Figure 4.4.4: Bryn Gilwern LANDMAP Aspect Areas: Historic Landscape

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

LANDMAP Historic Landscape - Overall Evaluation

Outstanding

High



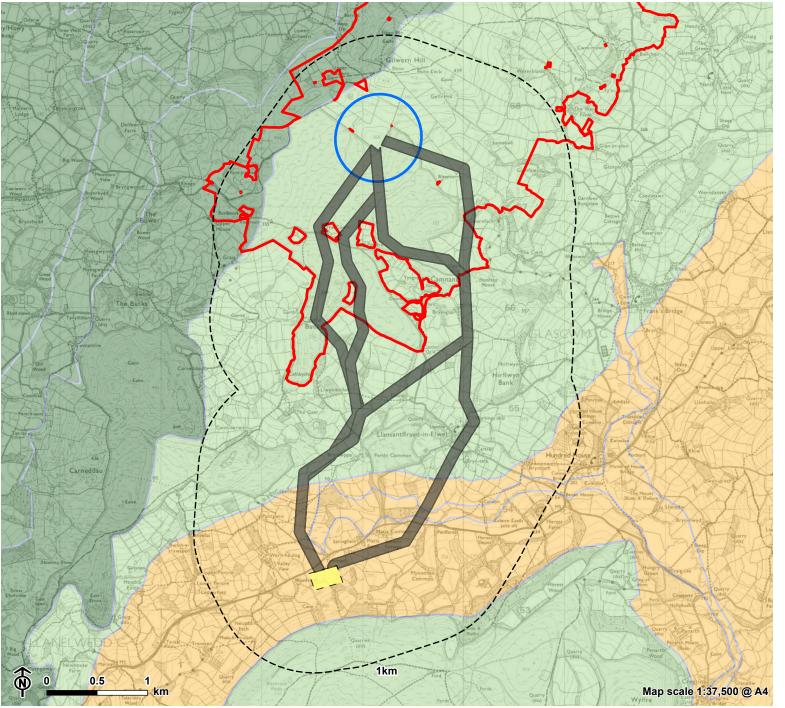




Figure 4.4.5: Bryn Gilwern LANDMAP Aspect Areas: Geological Landscape

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

LANDMAP Geological Landscape - Overall Evaluation

Outstanding
High
Moderate



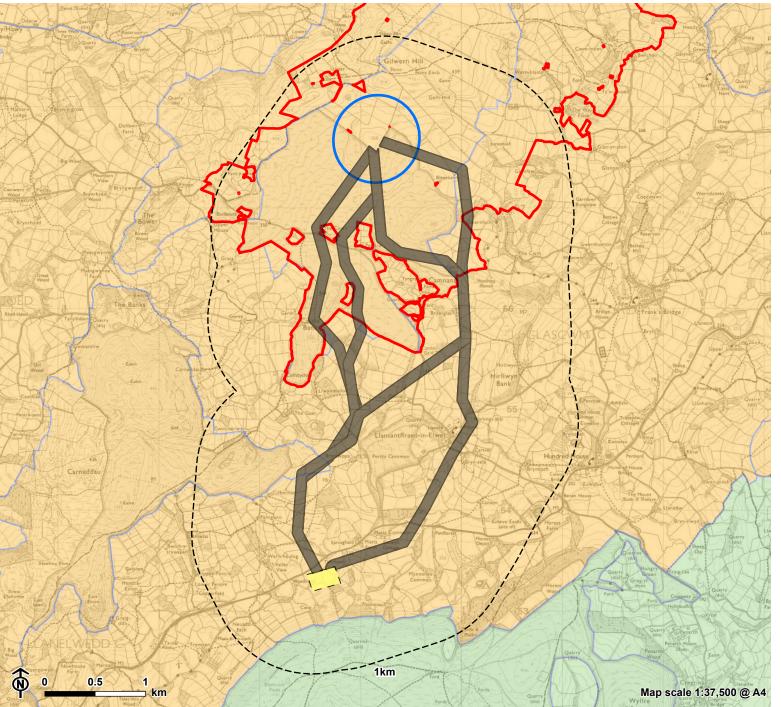




Figure 4.4.6: Bryn Gilwern LANDMAP Aspect Areas: Cultural Landscape

Route options

1km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

LANDMAP Cultural Landscape - Overall Evaluation

High



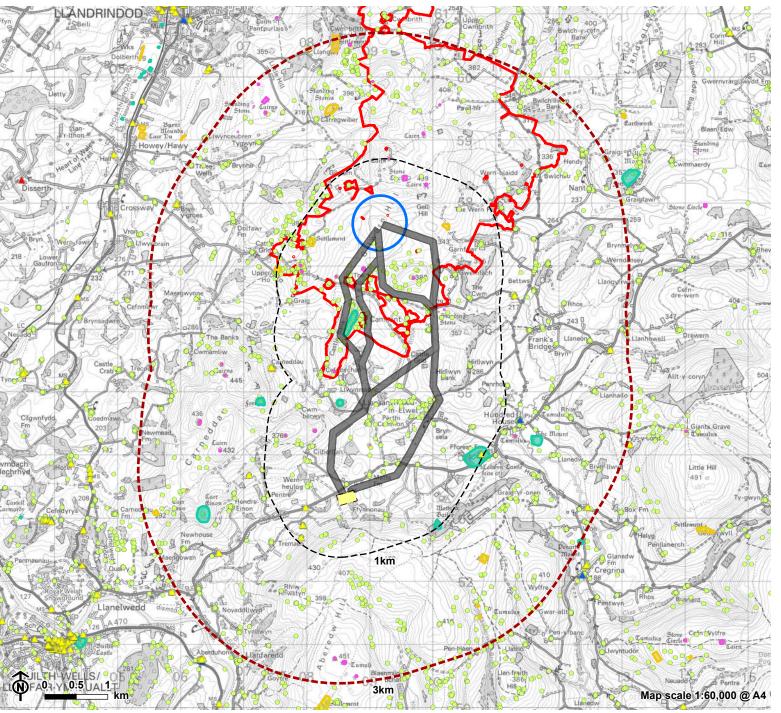




Figure 4.5: Bryn Gilwern Route Options Historic Environment Constraints and Considerations

Route options

1km from route options

3km from route options

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location

Historic Environment

Scheduled Monument: Defence

Scheduled Monument: Religious, Ritual and Funerary

Scheduled Monument: Other Class

Grade I listed building

Grade II listed building

Grade II* listed building

Clwyd Powys Archaeological Trust
(CPAT) Historic Environment Record
(HER) point data



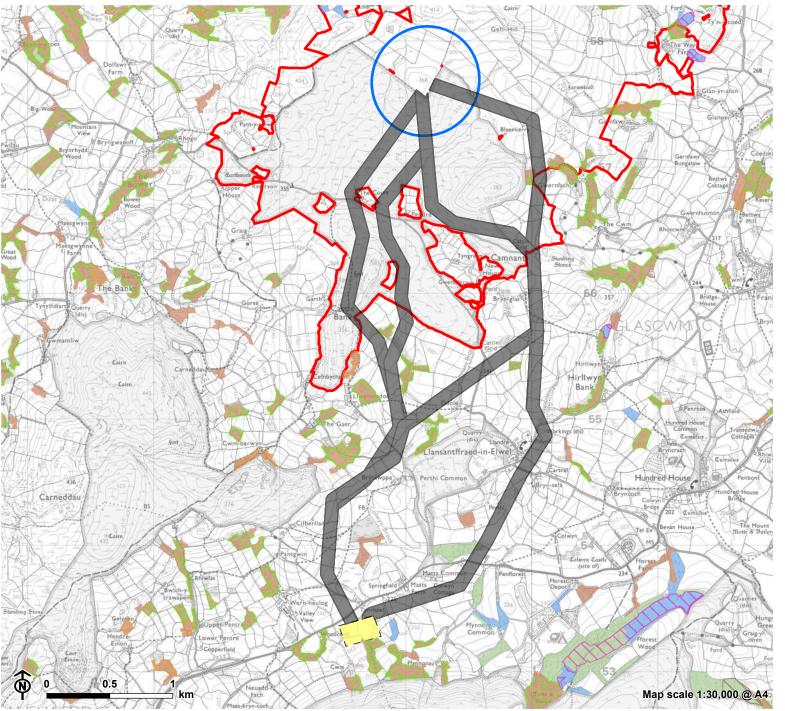




Figure 4.6: Bryn Gilwern Route Options Forestry and Woodland Constraints and Considerations

Route options

Bute Energy's Proposed Bryn Gilwern
Energy Park

Bute Energy's Indicative Proposed Bryn
Gilwern Energy Park substation location

Indicative Towy Usk switching station
location

Forestry and Woodland

Ancient Woodland (Wales)

Ancient Semi Natural Woodland
Plantation on Ancient Woodland

Restored Ancient Woodland

Ancient Woodland Site of unknown Category

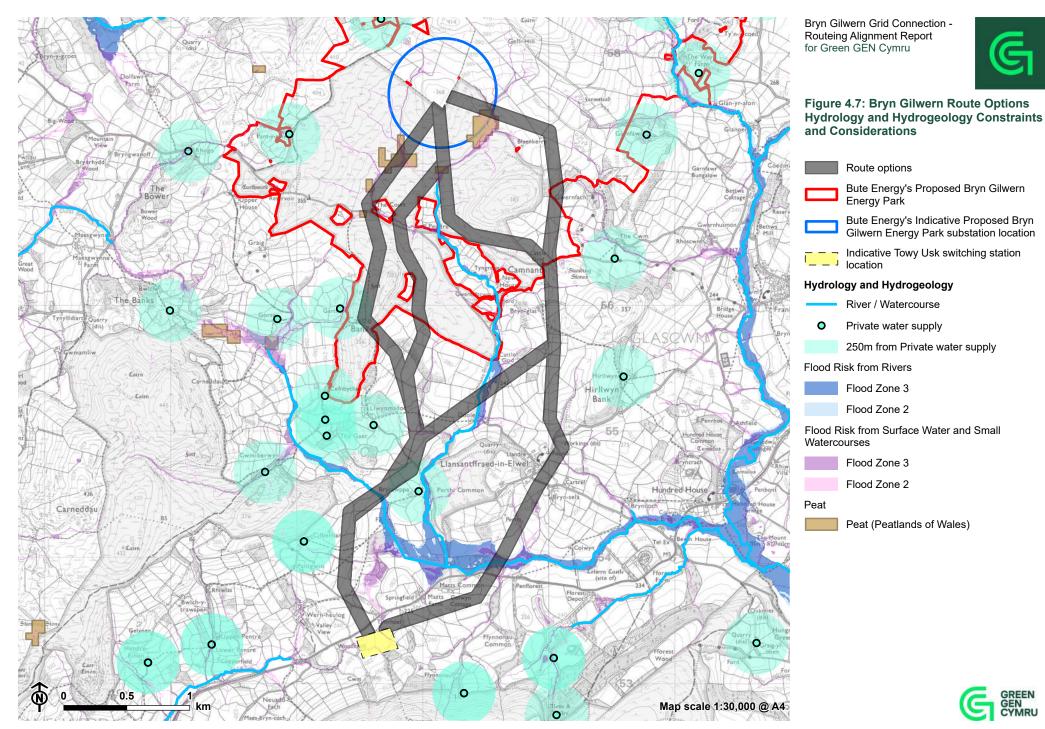
National Forest Inventory Wales 2022

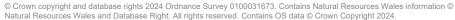
Broadleaved & Mixed mainly broadleaved

Conifer & Mixed mainly conifer

Other







31/07/2024 Source: OS, Green GEN Cymru, LSTC, LUC, NRW, YSG

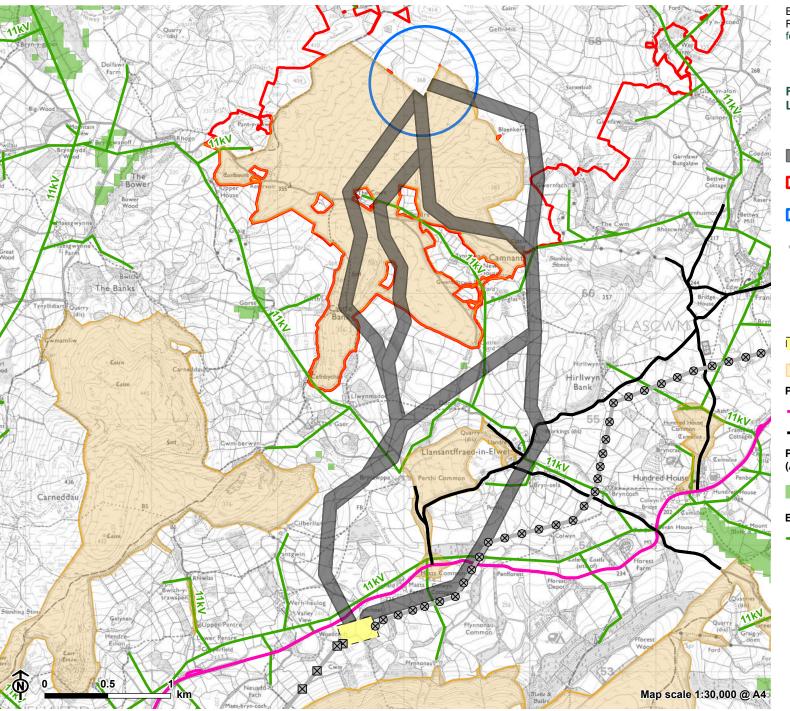




Figure 4.8: Bryn Gilwern Route Options Land Use Constraints and Considerations

Route options

Bute Energy's Proposed Bryn Gilwern
Energy Park

Bute Energy's Indicative Proposed Bryn
Gilwern Energy Park substation location

Proposed Towy Usk Draft Alignment March / April 2024

- Proposed Towy Usk Draft Alignment Wood Pole Location - March / April 2024
- Proposed Towy Usk Draft Alignment Tower Location March / April 2024
- Indicative Towy Usk switching station location
- Common land

Powys Publically Adopted Highways

Class 1 (A)
Class 3 (C)

Predictive Agricultural Land Classification (ALC)

Grade 3a: good to moderate quality agricultural land

Existing Overhead Lines (OHL)

11kV OHL



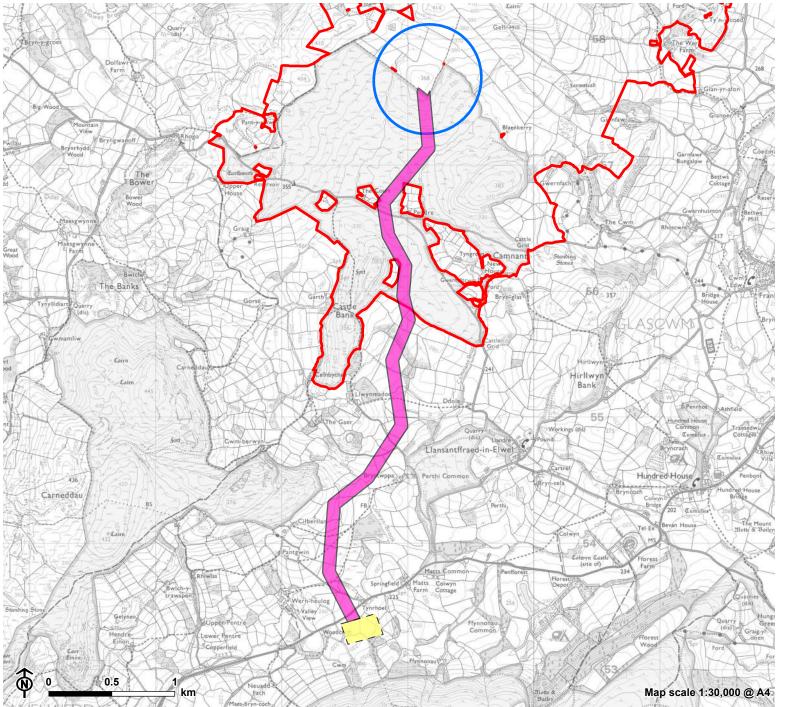




Figure 5.1: Preferred Bryn Gilwern Route Option

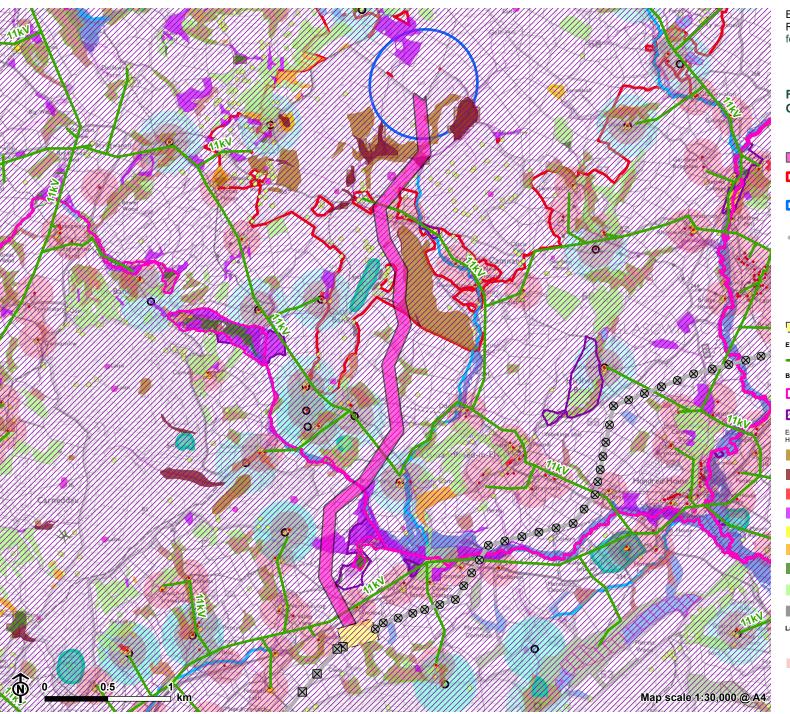
Route Option 2

Bute Energy's Proposed Bryn Gilwern Energy Park

Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location

Indicative Towy Usk switching station location





Bryn Gilwern Grid Connection -Routeing Alignment Report for Green GEN Cymru



Figure 5.2: Preferred Bryn Gilwern Route Option Constraints and Considerations





Source: OS, Green GEN Cymru, LSTC, LUC, YSG, CPAT, Cadw



Peat (Peatlands of Wales)

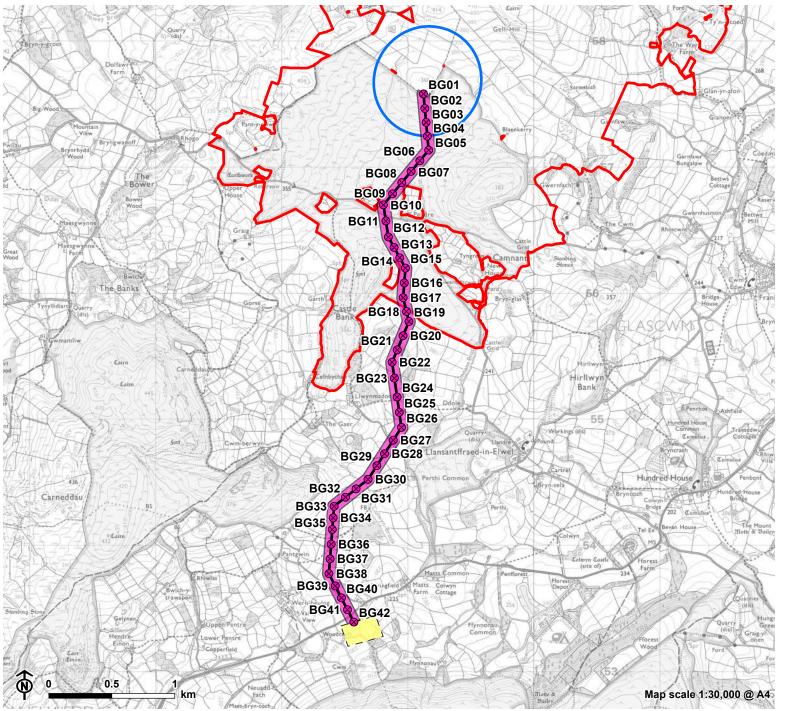




Figure 5.3: Preferred Bryn Gilwern Indicative Alignment

- Route Option 2 Indicative Wood Pole Position
- Route Option 2 Indicative Alignment
- Route Option 2
- Bute Energy's Proposed Bryn Gilwern Energy Park
 - Bute Energy's Indicative Proposed Bryn Gilwern Energy Park substation location
- Indicative Towy Usk switching station location

