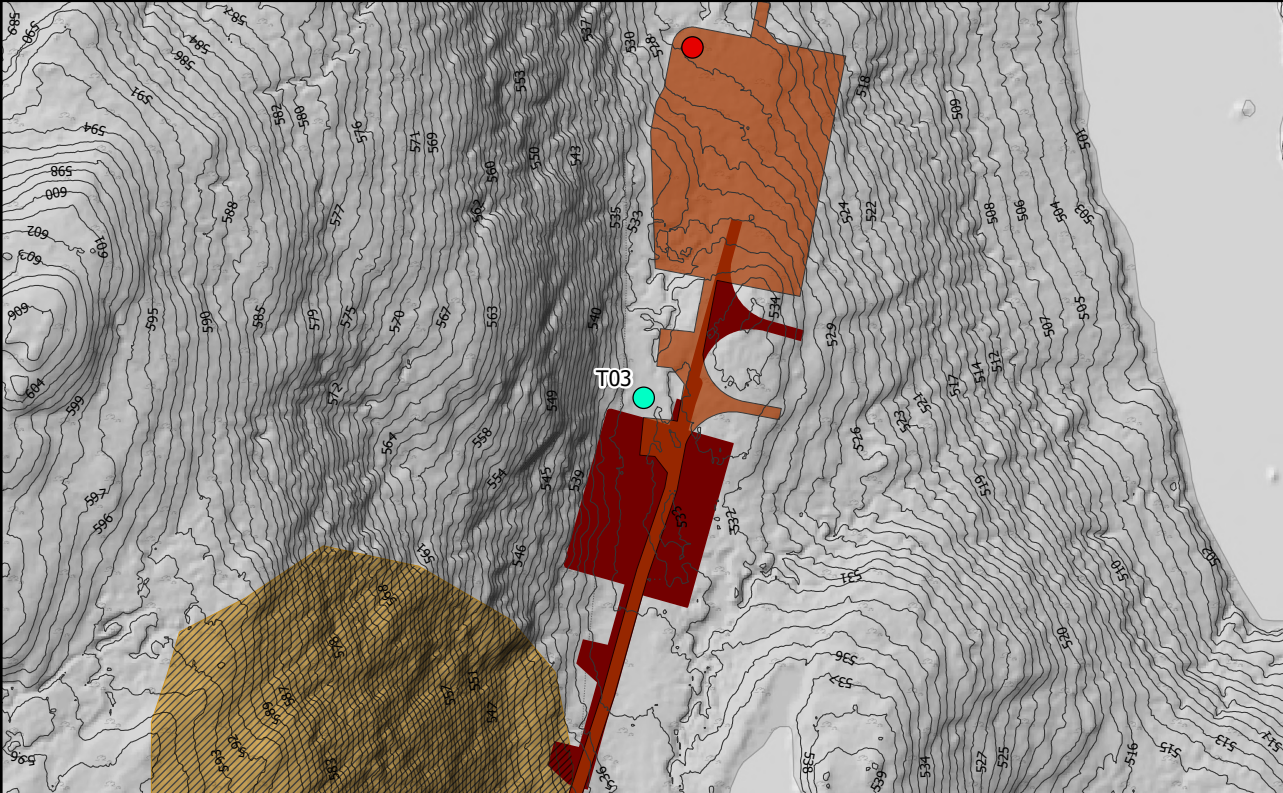
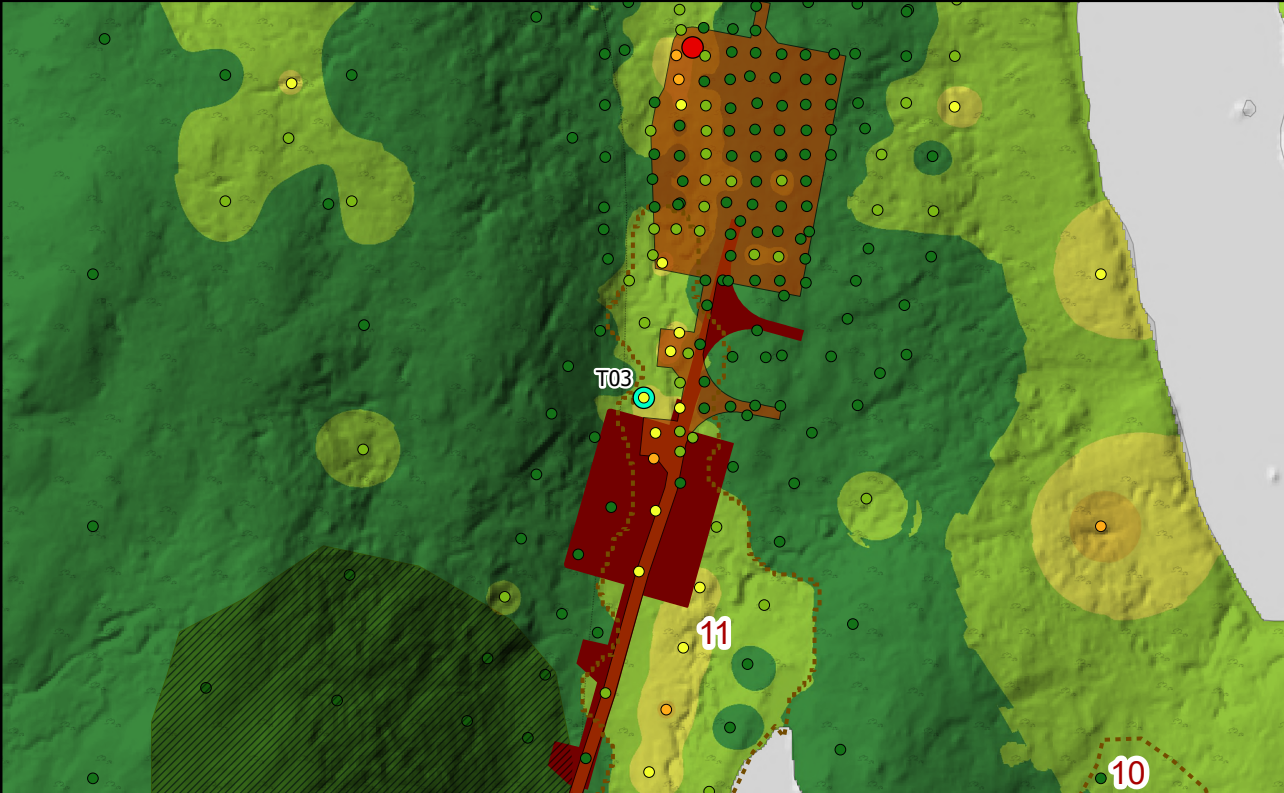


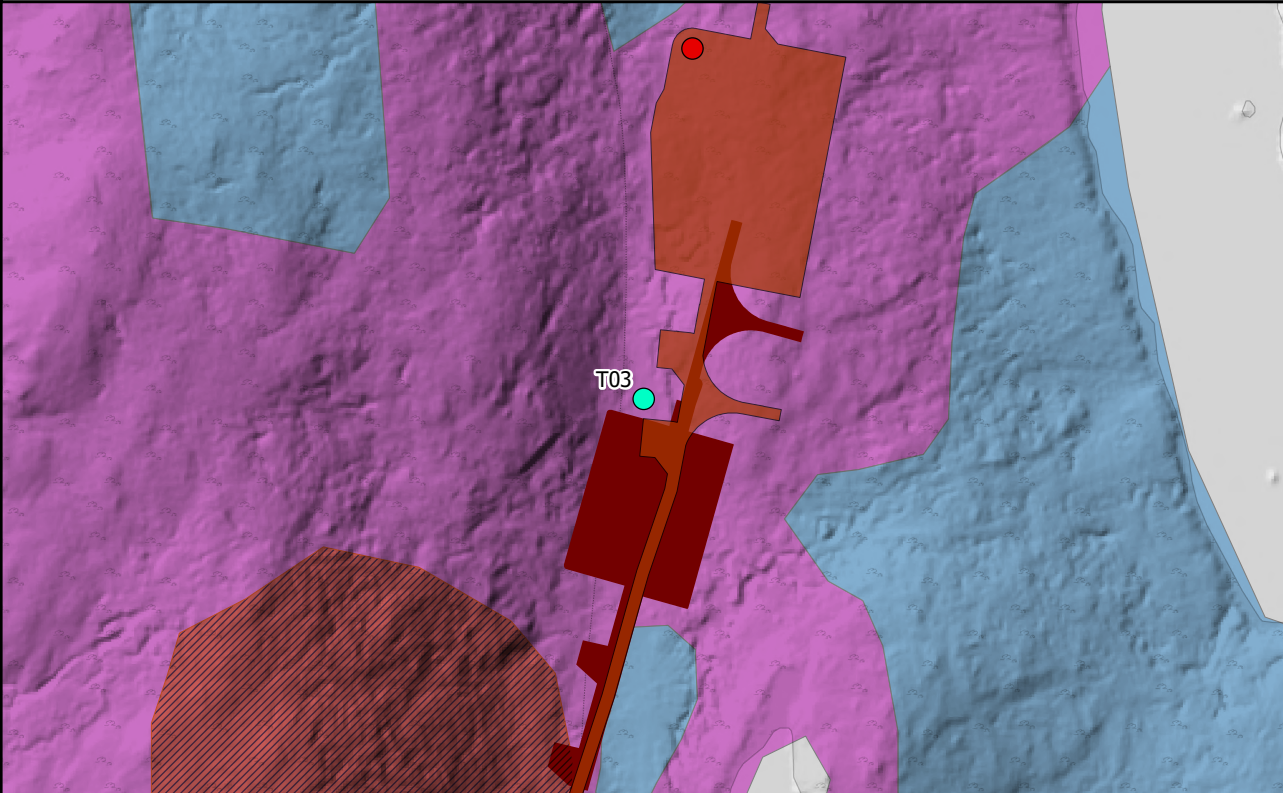
T03: Reason for Moving: The move is necessary to increase turbine spacing to more than three times the rotor diameter from its closest neighbouring turbine. This adjustment was needed because T11 had to be moved north due to safety concerns regarding the toppling distance to the substation platform. Increasing the spacing reduces the impact of wake-related losses, which occur when turbines are too close to each other. This turbine is already significantly affected by the Carn Tarsuinn hill directly to the west of T03.



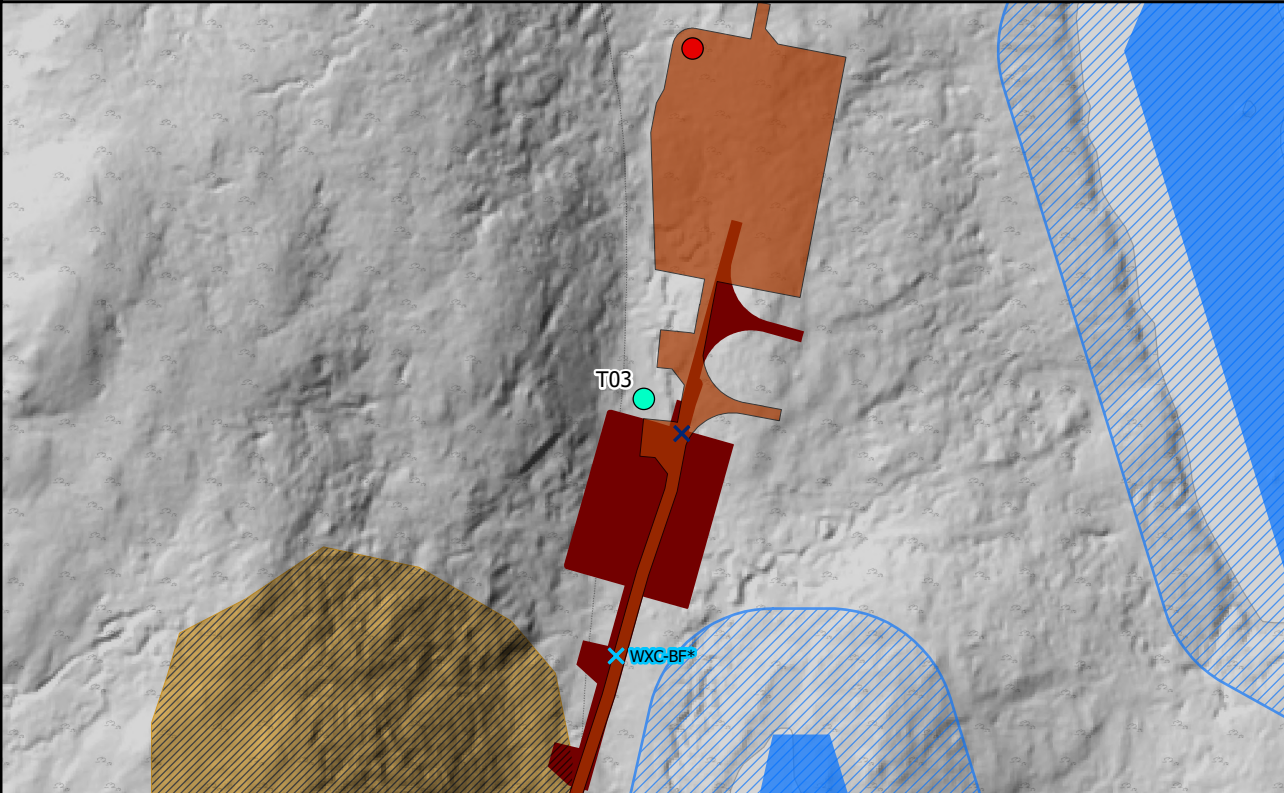
Engineering: The new location makes use of a relatively flat section of ground to the North of the consented location, removing /minimising disturbance of the extremely steep slopes of Carn Tarsuinn to the West.



Geology Impacts: The proposed turbine location is on flatter ground, which reduces construction disturbance to the east slope of Carn Tarsuinn hill. The new hardstand location is outside the current consented 50m micrositing buffer and is in an area with shallower peat compared to the current consent. Additionally, the new location is further from the HMP Peatland Restoration area.



Ecology Impacts: Infrastructure remains within the same NVC survey habitat type (M15c).



Hydrology Impacts: The proposed infrastructure location is further from water buffers compared to the currently consented location. As per the current consented location, a water course crossing is required on the track at the entrance to the hardstand.

Legend

Site Boundary

Consented Turbine Location

Proposed Varied Turbine Location

Proposed Varied Development Layout

Consented Development Layout

No Change to Consented Development

Consented Borrow Pit Excluded From Proposed Varied Development

Engineering

1m Contour

Geology

Peat Depth (m)

0 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

> 2

0 - 0.5

0.5 - 1

1 - 1.5

1.5 - 2

> 2

Potential Peatland Restoration Areas

Ecology

NVC

M15c

M17/M17a/M18a/M19a

Hydrology

Consented Water Crossing

Revised Water Crossings

Watercourses (Based on OS 50k)

Waterbodies (Based on OS 50k)

50m Water Buffer (Based on OS 50k)

Scale 1:3,000 @ A3

0m80

N

Figure 2.1c
Infrastructure Design Review
- Turbine 03