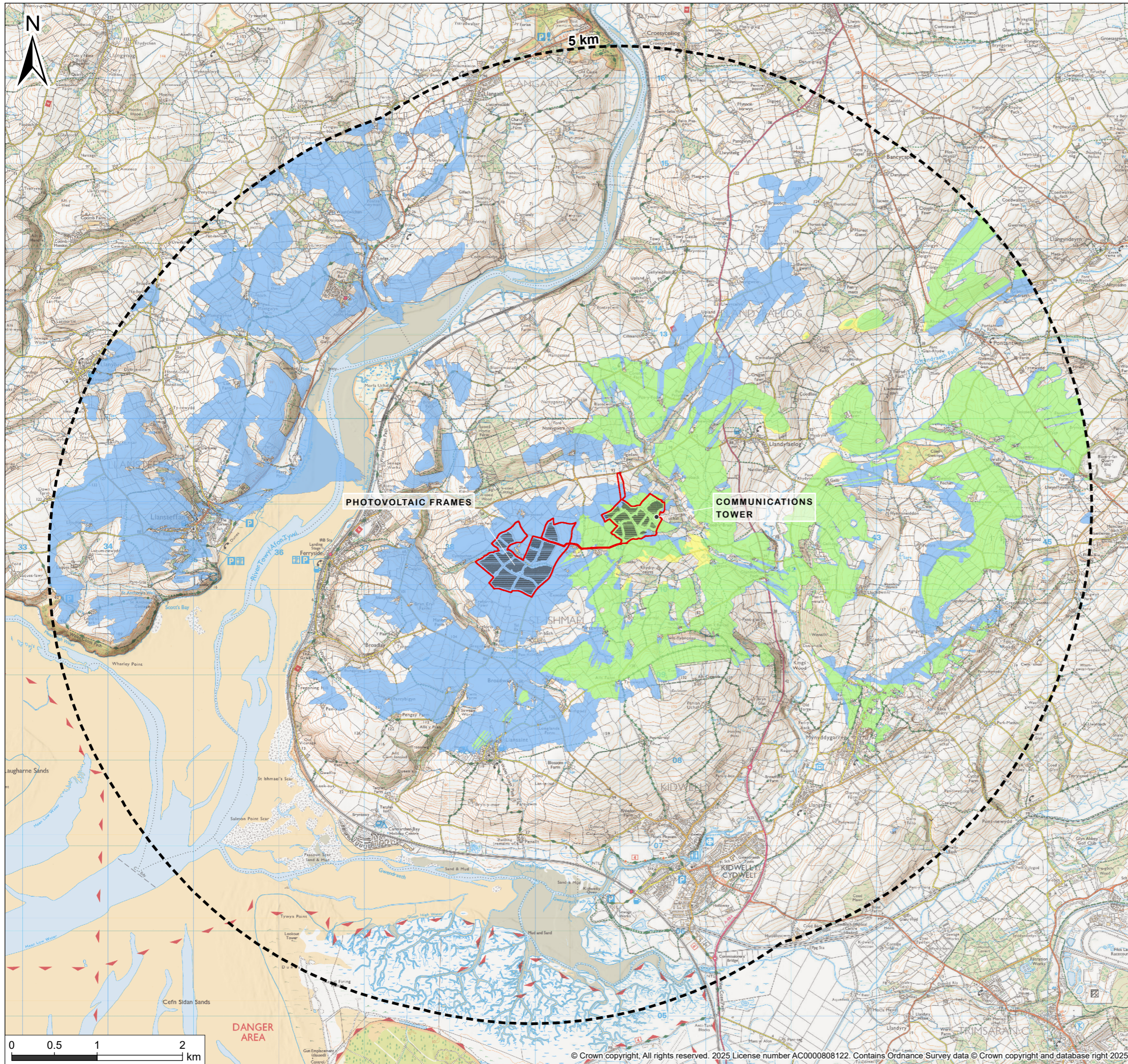


Environmental Statement, Volume 2, Figure
5.3: Zone of Theoretical Visibility— PV
frames and Communications Tower
Heolddu solar farm

On behalf of Qualitas Energy



Legend

- Site
- Photovoltaic Frames
- Communications Tower
- 5 km study area
- Zones of Theoretical Visibility**
- Only communications tower theoretically visible
- Other scheme elements theoretically visible
- All scheme elements theoretically visible

Data source	OS Terrain 5
Date sourced	2024
Coverage	Within 5km of the Application Boundary
Original cell size	5 m

ZTV calculated using following heights

- Solar panels: 3 m
- Inverters: 2.2 m
- DNO substation: 3.3 m
- Transformer: 2.5 m
- Communications tower: 15.2 m
- Spares container: 2.5 m

Ground cover is modelled using indicative heights of 9m for buildings, and 12m for woodland blocks. Ground cover is located using OS Open Maps.

ZTV is not calculated beyond 5 km of Application Boundary
Viewer height is 1.7 m
The effects of earth curvature and light refraction are considered.
ZTV calculation does not use mathematically approximate methods.



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Project Name	Heolddu Solar Farm			
Drawing Title	Zone of Theoretical Visibility for the Photovoltaic Frames and Communications Tower			
Figure Number	5.3			
Drawing Number	NDIP00319-0037-03			
03	03/12/2025	FINAL	AC	AI
Rev	Date	Status	By	CB

Scale @ A3	Plot Size	Datum
1:45,000	294 x 277 mm	OSGB 1936

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