

Pentland floating offshore wind farm

Volume 4: Visual Materials A.16.9A

SLVIA Viewpoints (NatureScot)



OFFSHORE EIAR (VOLUME 4): VISUAL MATERIALS

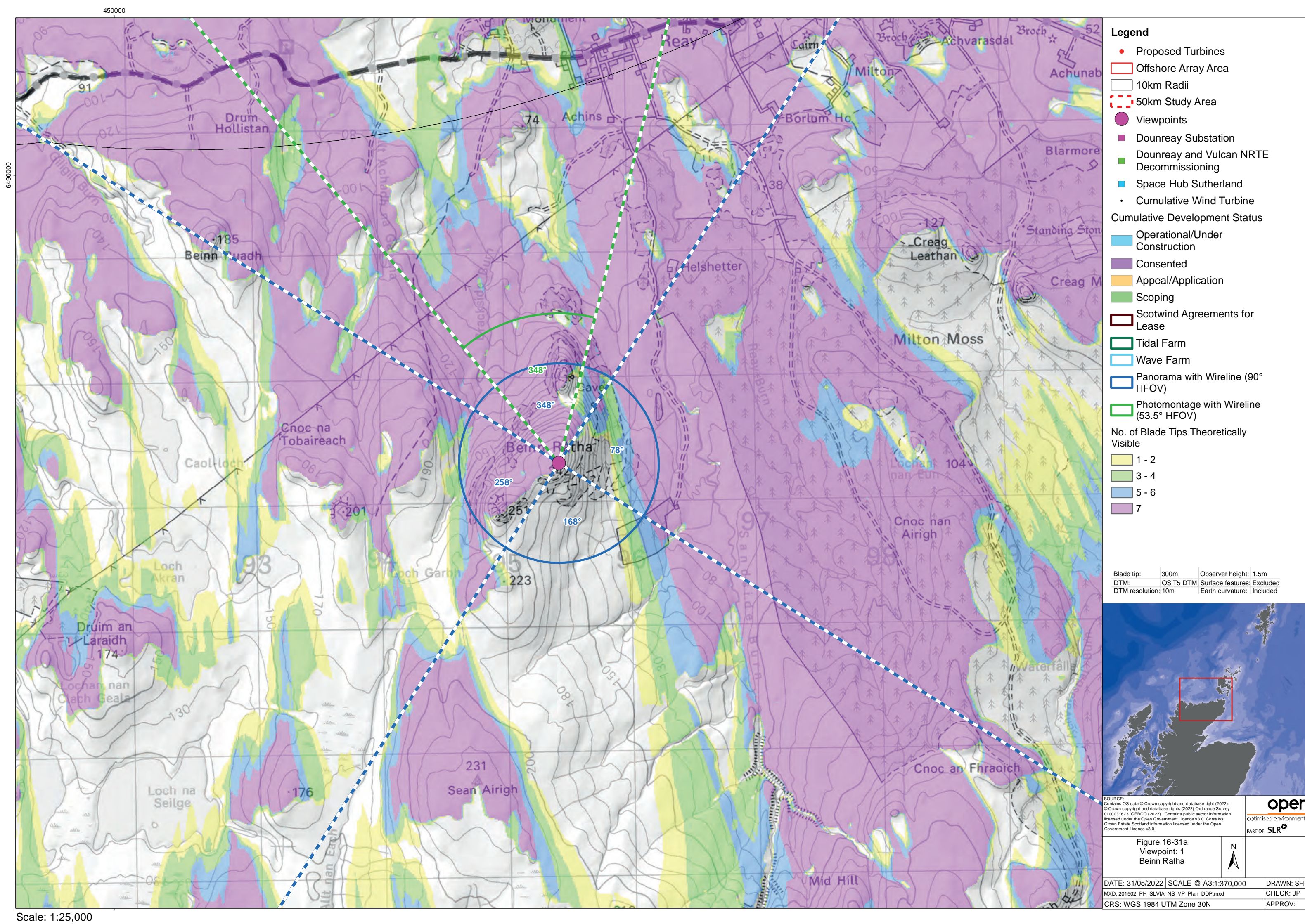
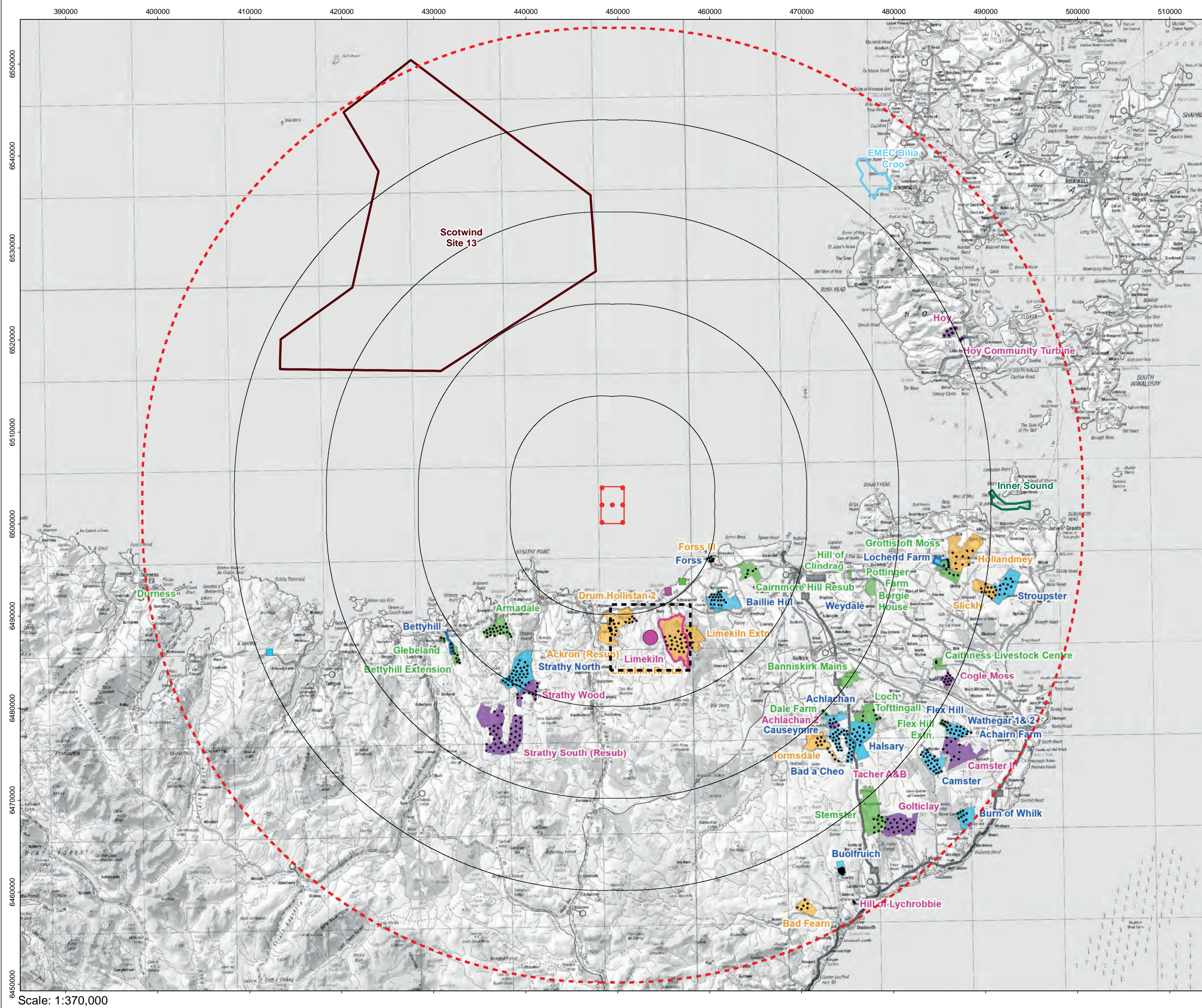
APPENDIX 16.9.A: SLVIA VIEWPOINTS (NATURESCOT)

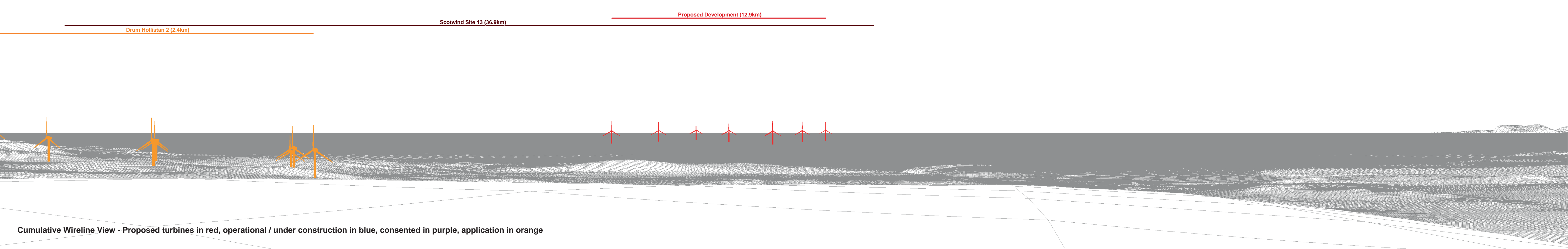
Document Title:	Pentland Floating Offshore Wind Farm Offshore EIAR
Document no.	GBPNTD-ENV-OPE-RP-00009
Project:	Pentland Floating Offshore Wind Farm
Originator Company	Optimised Environments (OPEN)
Revision	01
Originator	Jo Phillips
Date	21.07.2022

Revision History:

Revision	Date	Status	Originator	Reviewed	Approved
01	21.07.2022	Final	JP	TW/PM	PM

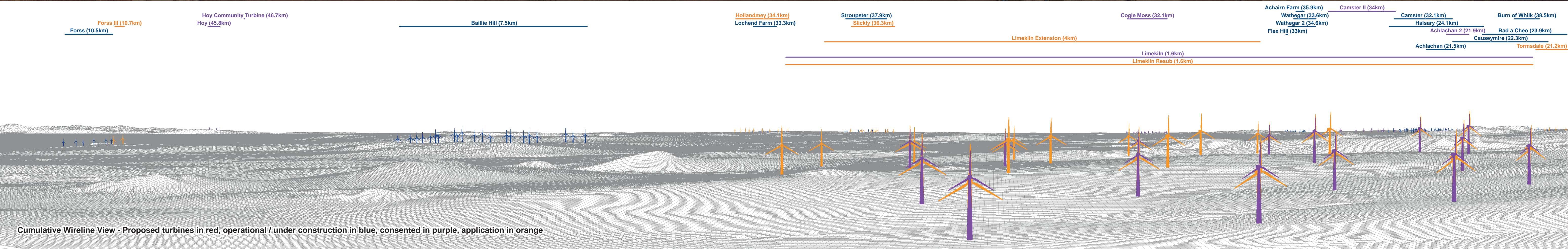






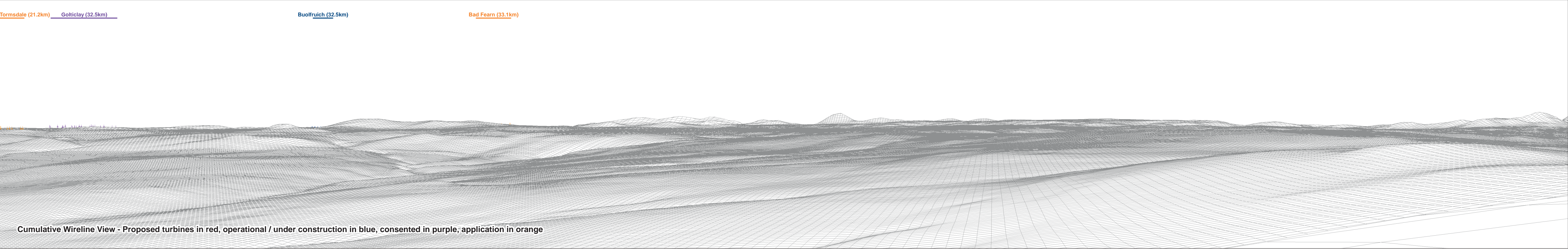


Existing View



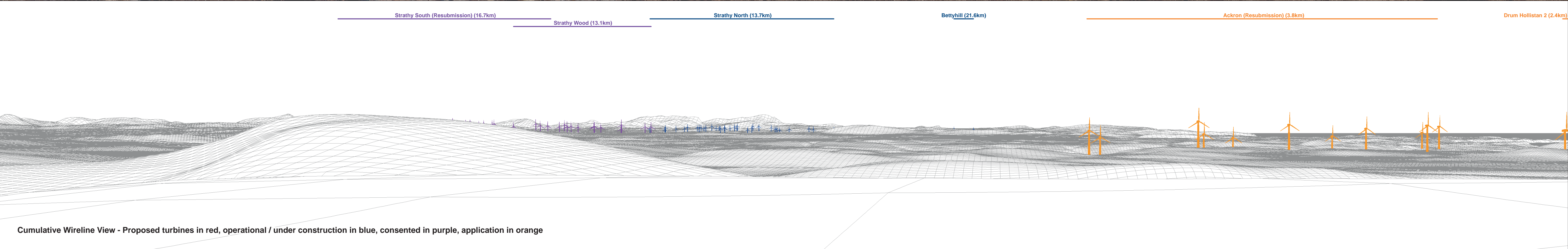
OS reference	295429 E 961312 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	78°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,875 m	Correct printed image size	820 x 130 mm	Date & time taken	15/04/2021 13:45

Figure 16.31c
Viewpoint 1: Beinn Ratha Panorama with Cumulative Wireline (view 2 of 4)



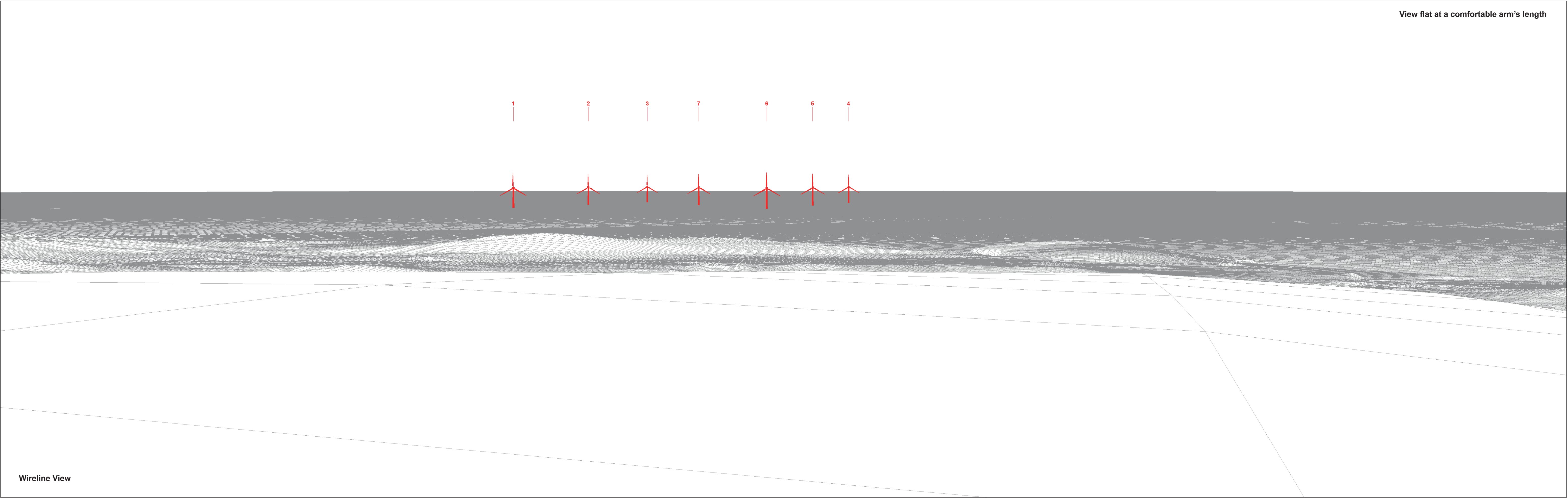


Existing View



OS reference	295429 E 961312 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	258°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,875 m	Correct printed image size	820 x 130 mm	Date & time taken	15/04/2021 13:45

Figure 16.31e
Viewpoint 1: Beinn Ratha Panorama with Cumulative Wireline (view 4 of 4)





View flat at a comfortable arm's length

Photomontage – 3D extent of PFOWF Array Development Area

OS reference	295429 E 961312 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	348°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,875 m	Correct printed image size	820 x 260 mm	Date & time taken	15/04/2021 13:45

Figure 16.31g
Viewpoint 1: Beinn Ratha Photomontage

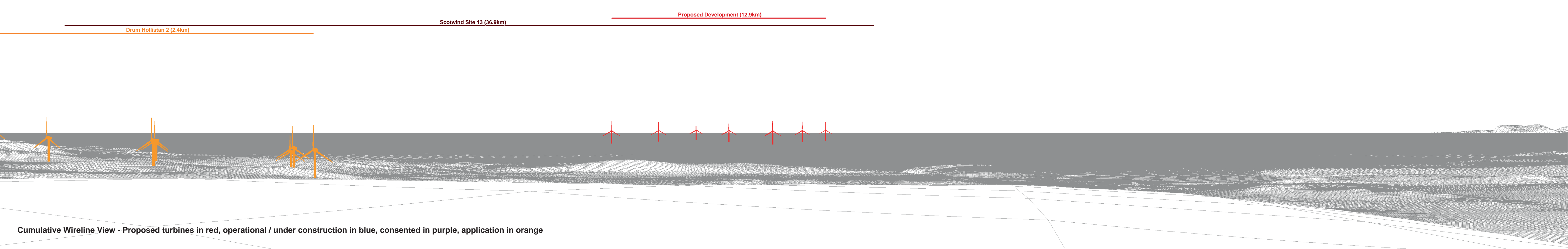


View flat at a comfortable arm's length

Photomontage

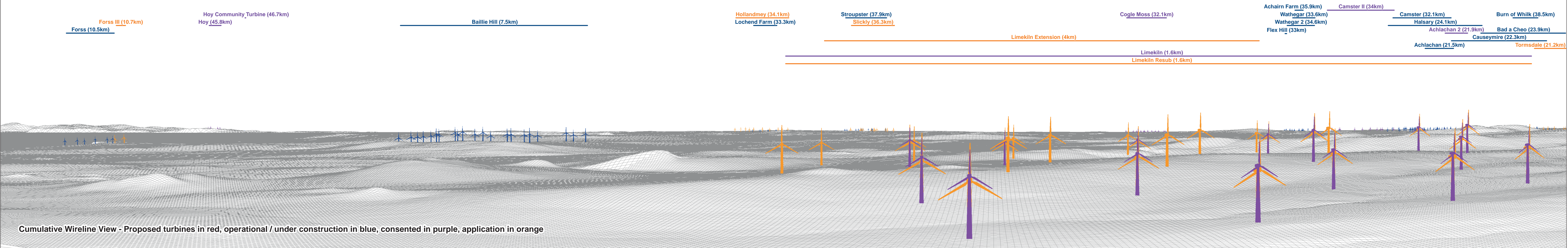
OS reference	295429 E 961312 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	348°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,875 m	Correct printed image size	820 x 260 mm	Date & time taken	15/04/2021 13:45

Figure 16.31h
Viewpoint 1: Beinn Ratha Photomontage



This image provides landscape and visual context only

Existing View

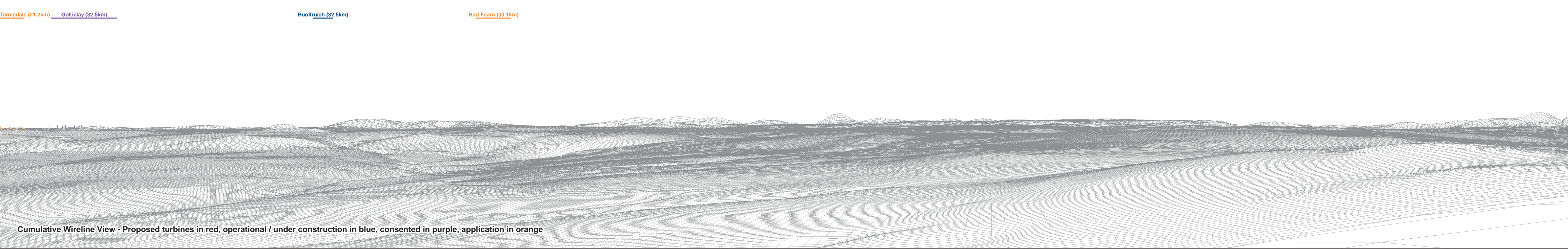


OS reference	295425 E 961313 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	78°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,872 m	Correct printed image size	820 x 130 mm	Date & time taken	19/05/2022 22:15

Figure 16.31j
Viewpoint 1: Beinn Ratha Night-time Panorama with Cumulative Wireline (view 2 of 4)

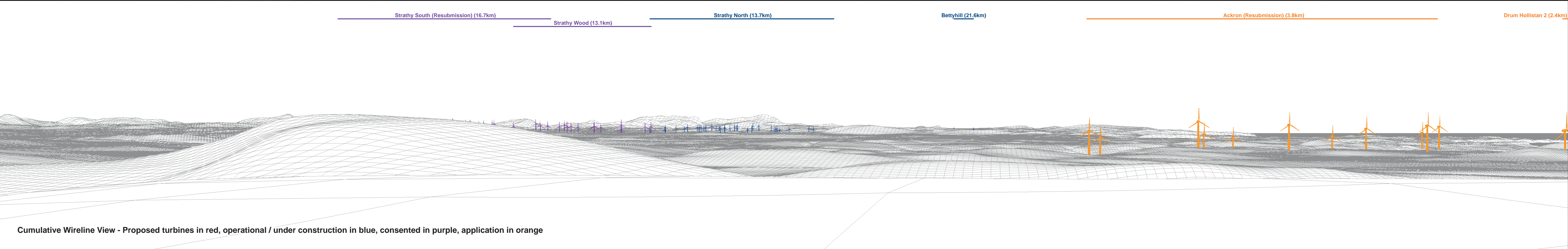


Existing View





Existing View





View flat at a comfortable arm's length

Photomontage (2000 candela lights)

OS reference	295425 E 961313 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	348°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,872 m	Correct printed image size	820 x 260 mm	Date & time taken	19/05/2022 22:15

Figure 16.31m
Viewpoint 1: Beinn Ratha Night-time Photomontage

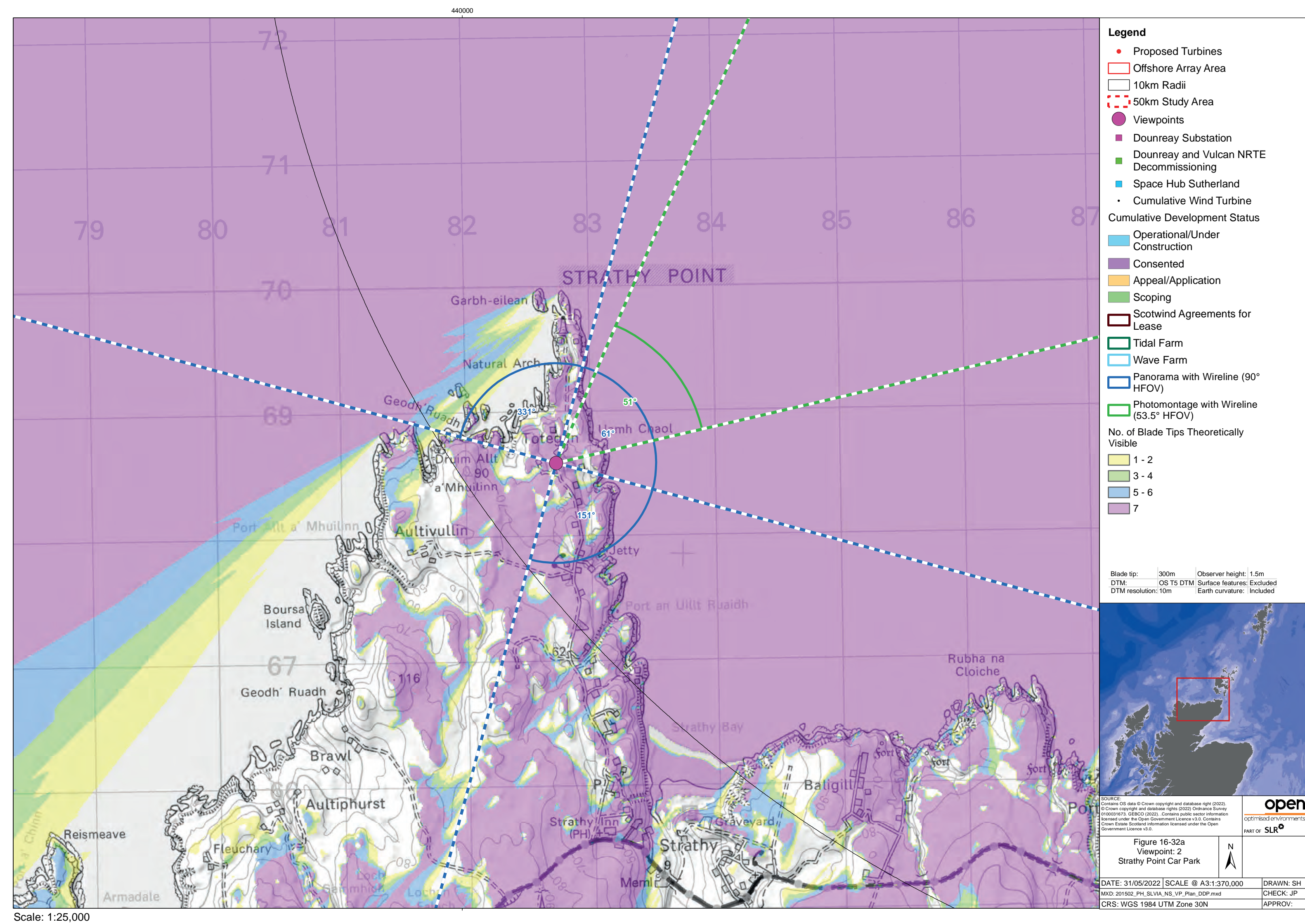
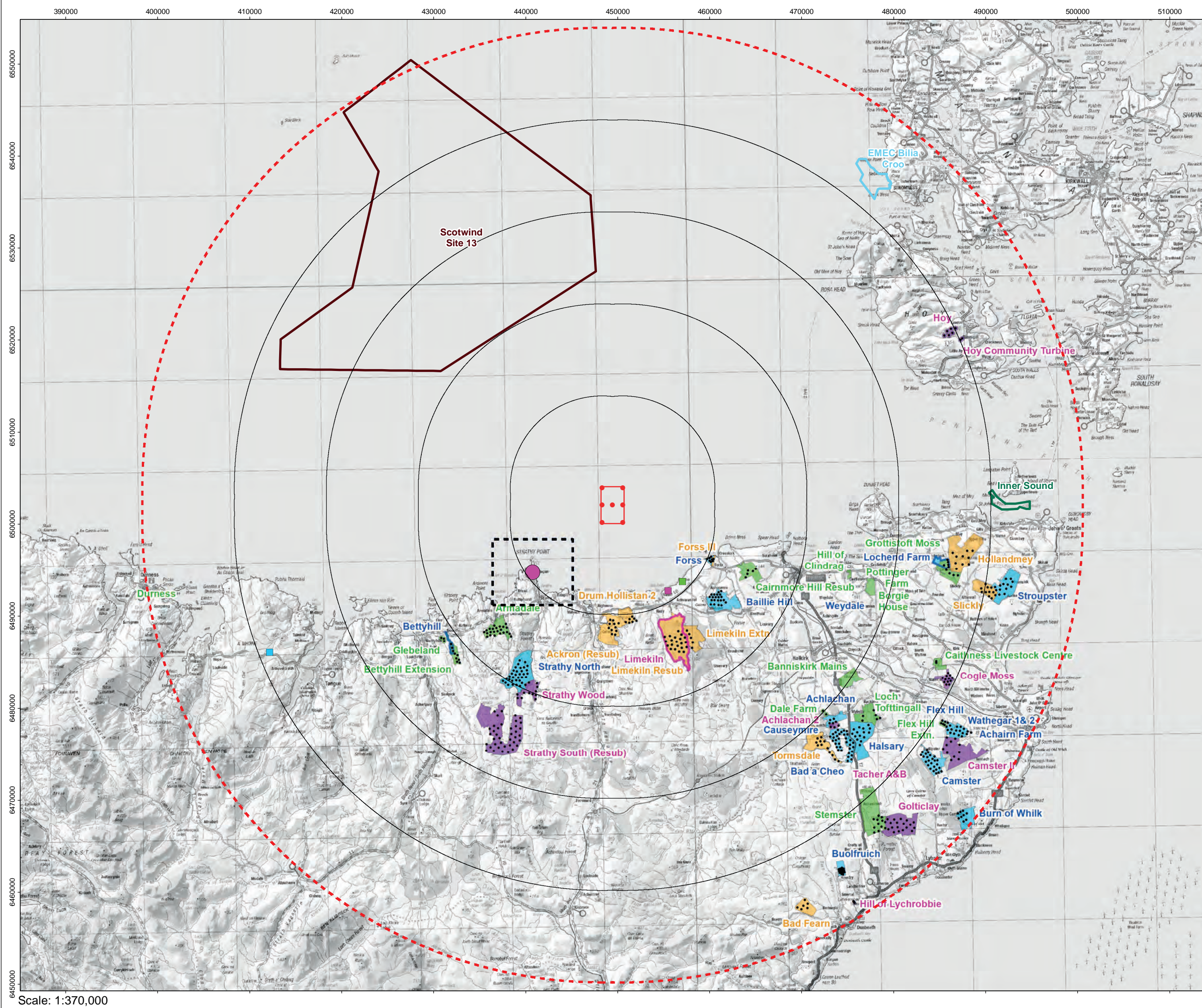


View flat at a comfortable arm's length

Photomontage (200 candela lights)

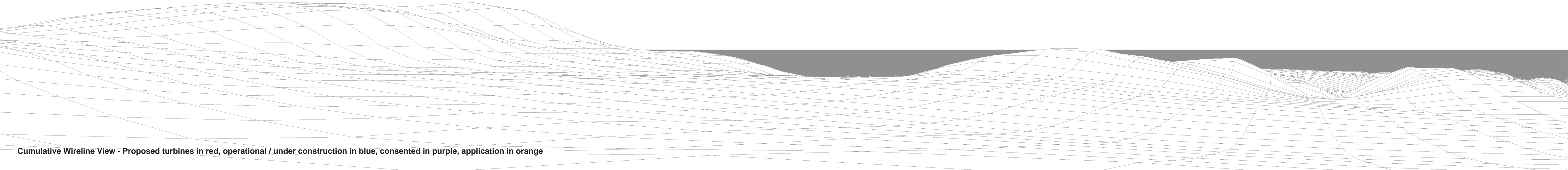
OS reference	295425 E 961313 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	240.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	348°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	12,872 m	Correct printed image size	820 x 260 mm	Date & time taken	19/05/2022 22:15

Figure 16.31n
Viewpoint 1: Beinn Ratha Night-time Photomontage





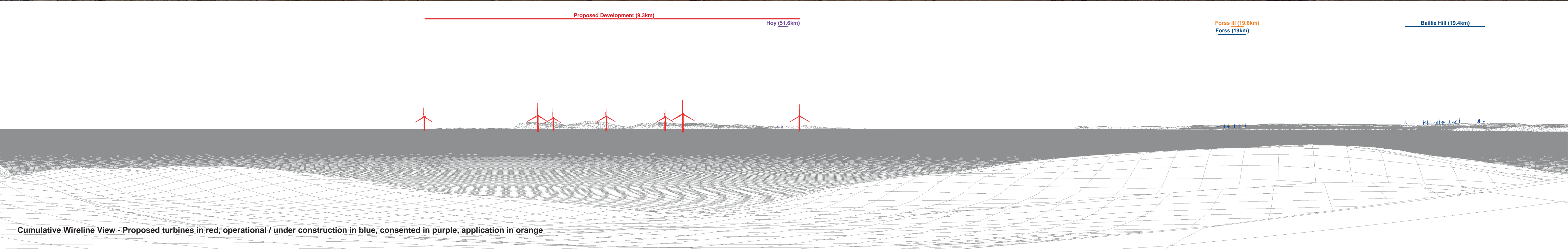
Scotwind Site 13 (24.1km)



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

OS reference	282725 E 968587 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	60.8 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	331°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,312 m	Correct printed image size	820 x 130 mm	Date & time taken	16/04/2021 09:55

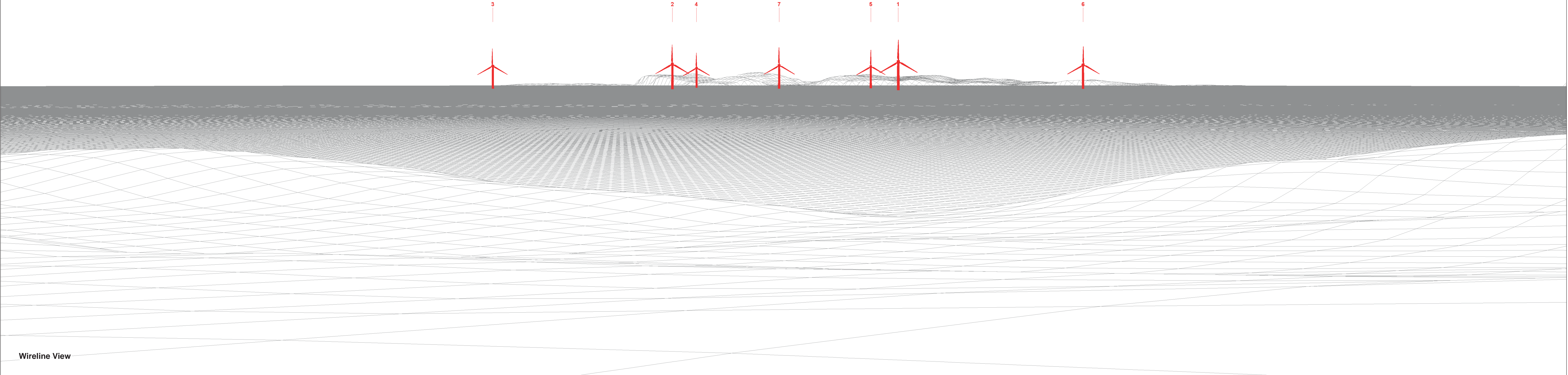
Figure 16.32b
Viewpoint 2: Strathy Point Car Park Panorama with Cumulative Wireline (view 1 of 3)





Existing View





Wireline View



View flat at a comfortable arm's length

Photomontage – 3D extent of PFOWF/Array Development Area

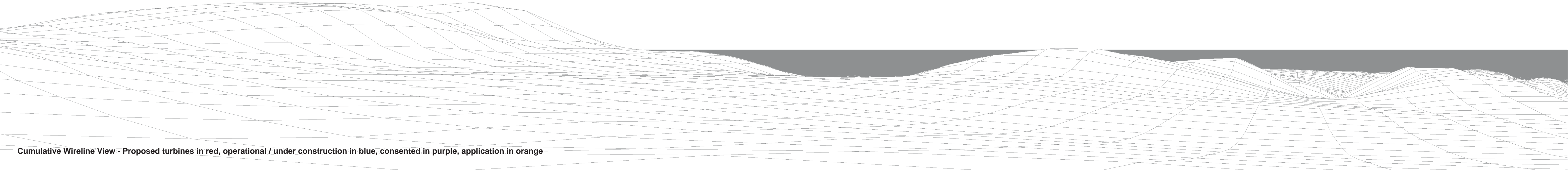


View flat at a comfortable arm's length



Existing View

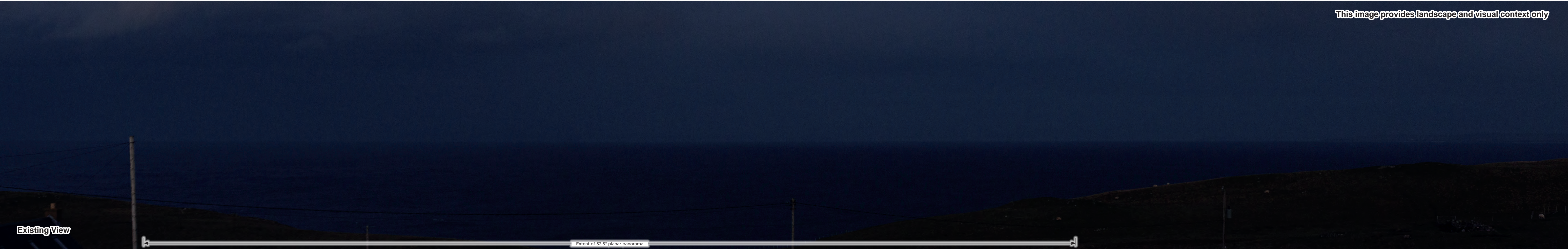
Scotwind Site 13 (24.1km)



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

OS reference	282727 E 968588 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	60.8 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	331°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,310 m	Correct printed image size	820 x 130 mm	Date & time taken	09/11/2021 16:40

Figure 16.32h
Viewpoint 2: Strathy Point Car Park Night-time Panorama with Cumulative Wireline (view 1 of 3)



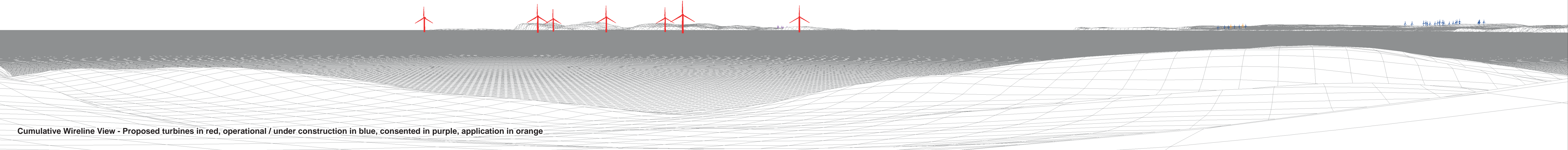
Existing View

Proposed Development (9.3km)

Hoy (51.6km)

Forss III (19.6km)
Forss (19km)

Baillie Hill (19.4km)





Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

OS reference	282727 E 968588 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	60.8 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	151°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,310 m	Correct printed image size	820 x 130 mm	Date & time taken	09/11/2021 16:40

Figure 16.32j
Viewpoint 2: Strathy Point Car Park Night-time Panorama with Cumulative Wireline (view 3 of 3)



View flat at a comfortable arm's length

Photomontage (2000 candela lights)

OS reference	282727 E 968588 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	60.8 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	51°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,310 m	Correct printed image size	820 x 260 mm	Date & time taken	09/11/2021 16:40

Figure 16.32k
Viewpoint 2: Strathy Point Car Park Night-time Photomontage

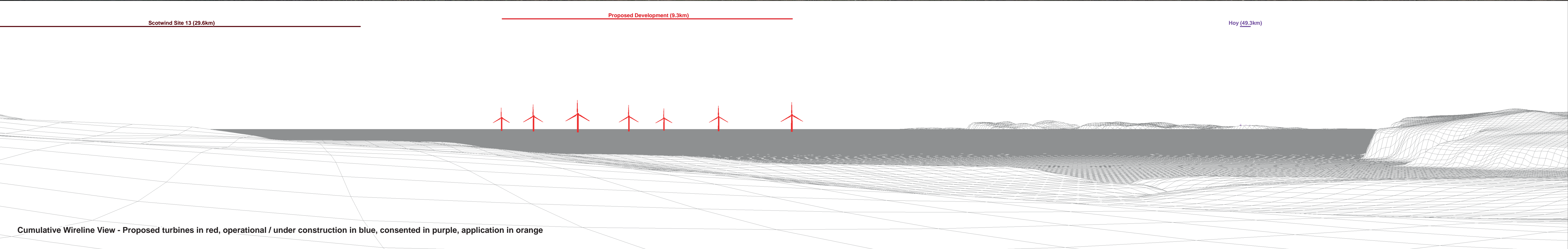


View flat at a comfortable arm's length

Photomontage (200 candela lights)

OS reference	282727 E 968588 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	60.8 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	51°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,310 m	Correct printed image size	820 x 260 mm	Date & time taken	09/11/2021 16:40

Figure 16.321
Viewpoint 2: Strathy Point Car Park Night-time Photomontage



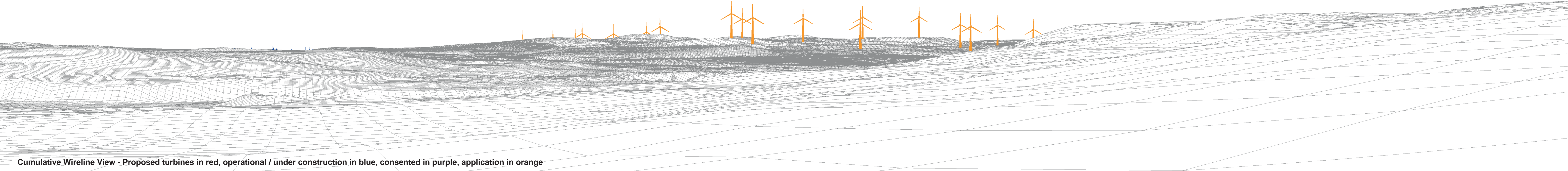


Existing View

Baillie Hill (14.2km)

Drum Hollistan 2 (5.4km)

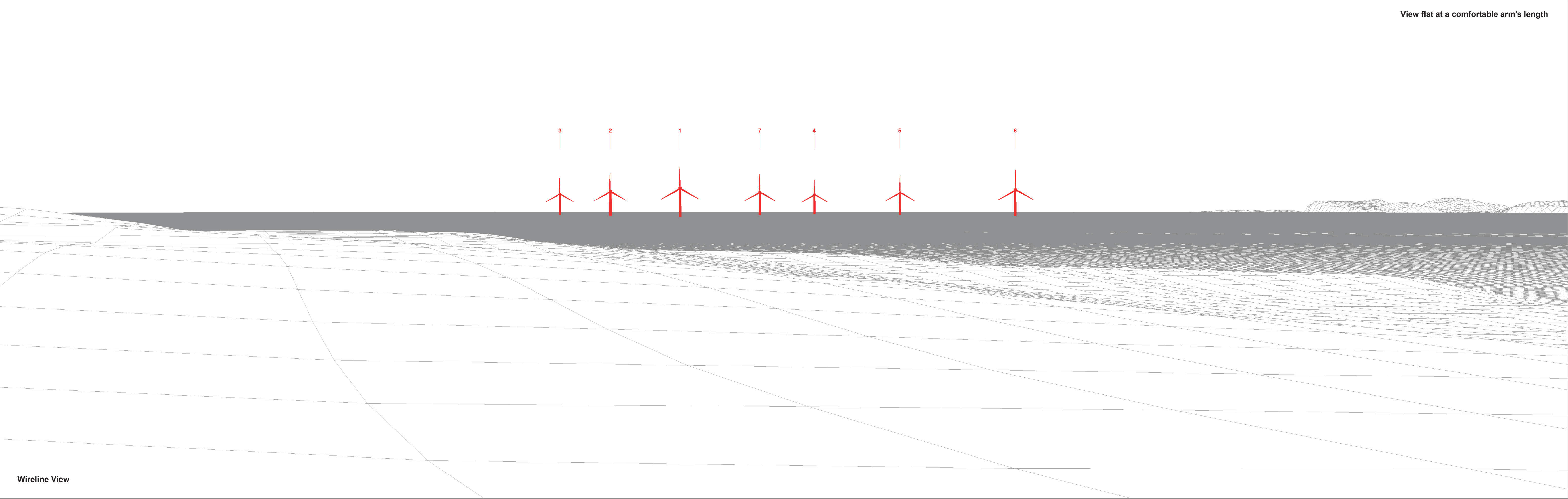
Ackron (Resubmission) (3.7km)



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

OS reference	287767 E 964926 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	61.2 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	118°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,344 m	Correct printed image size	820 x 130 mm	Date & time taken	10/11/2021 12:05

Figure 16.33c
Viewpoint 3: Portskerra/Melvich Panorama with Cumulative Wireline (view 2 of 2)





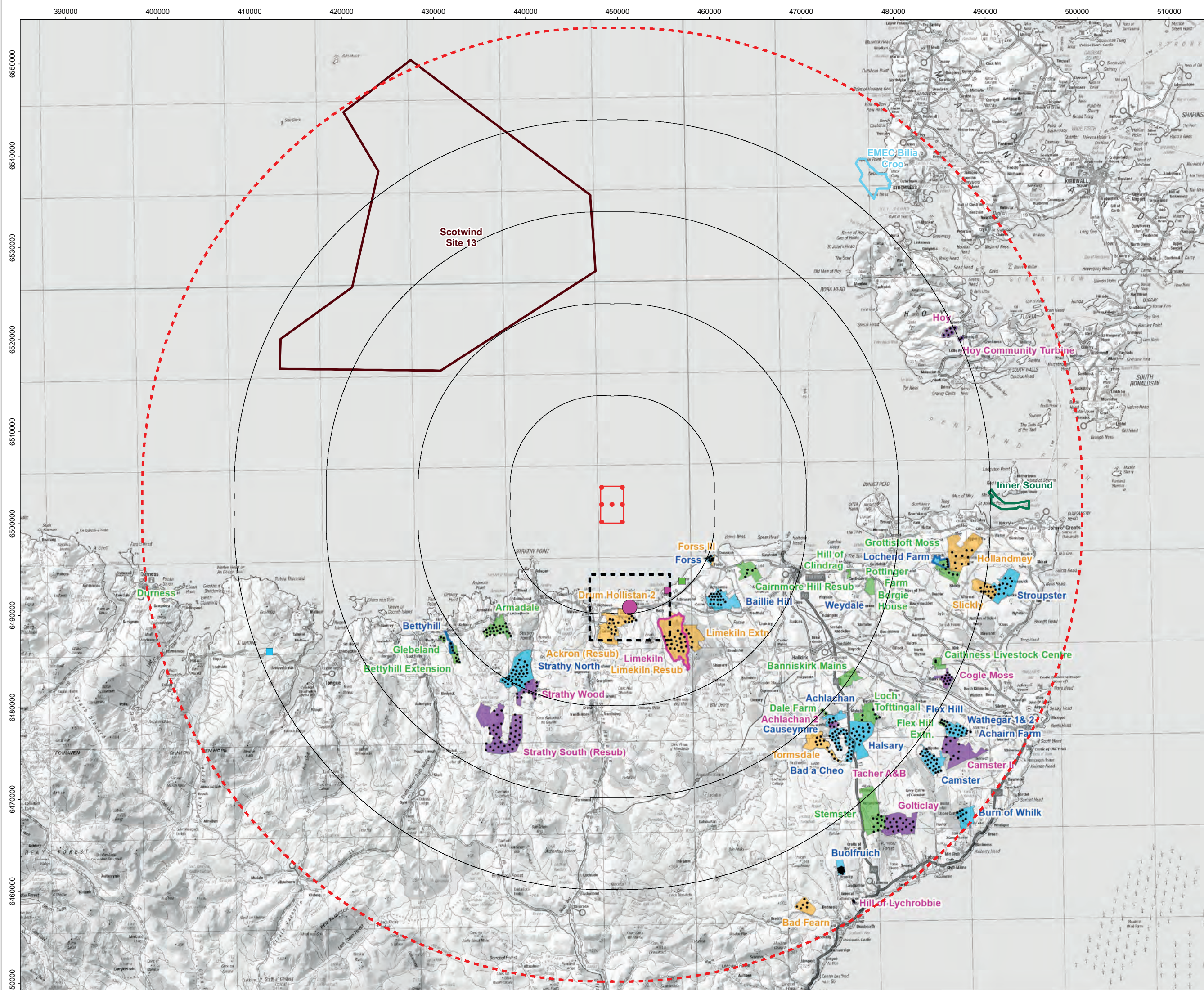
View flat at a comfortable arm's length

Photomontage—3D extent of PFOWF Array Development Area

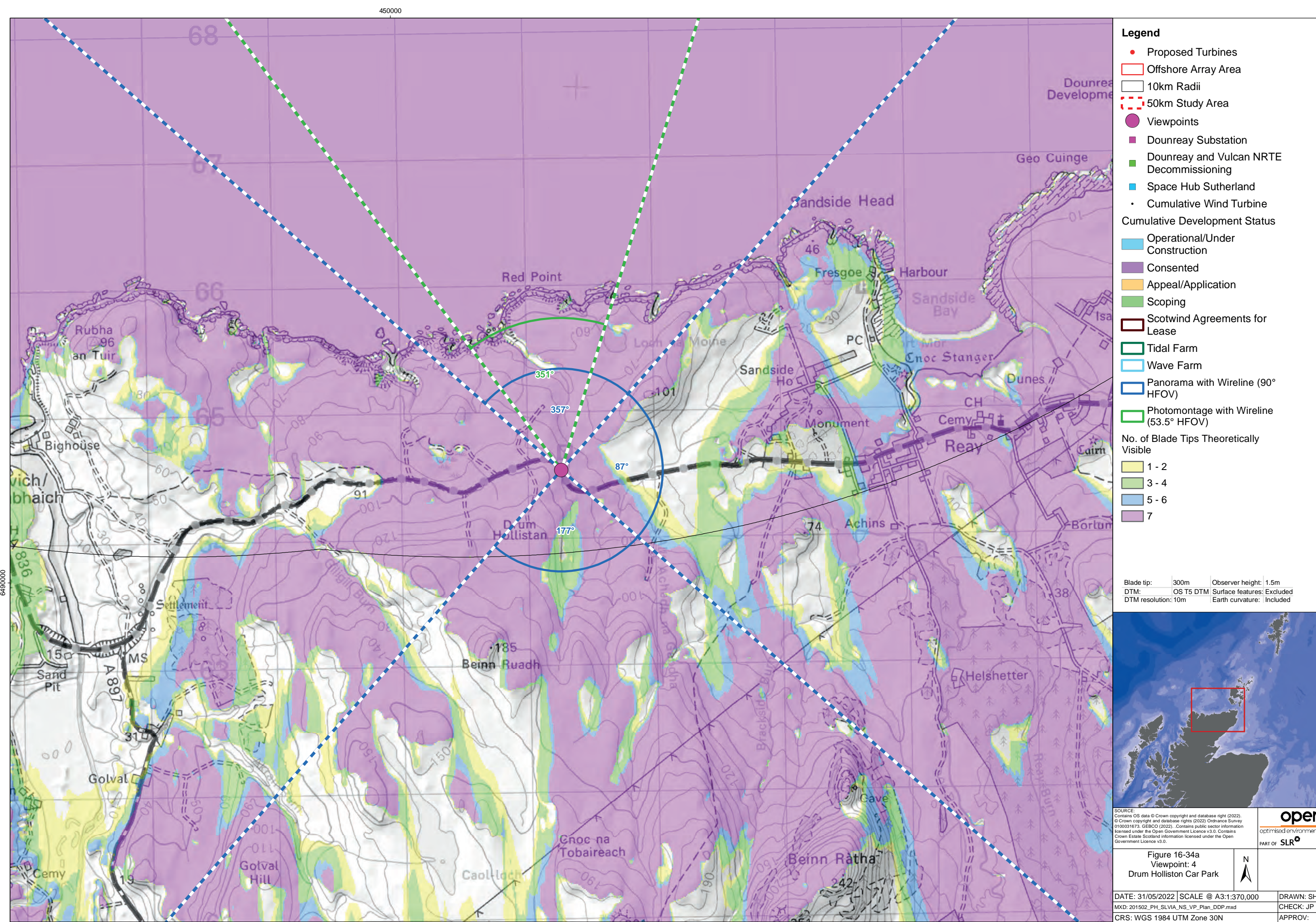
OS reference	287767 E 964926 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	61.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	20°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,344 m	Correct printed image size	820 x 260 mm	Date & time taken	10/11/2021 12:05

Figure 16.33e
Viewpoint 3: Portskerra/Melvich Photomontage





Scale: 1:370,000



Scale: 1:25,000

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
- No. of Blade Tips Theoretically Visible

1 - 2
3 - 4
5 - 6
7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

Figure 16-34a
Viewpoint: 4
Drum Hollistan Car Park

DATE: 31/05/2022 SCALE @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
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- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
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- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
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1 - 2
3 - 4
5 - 6
7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

Figure 16-34a
Viewpoint: 4
Drum Hollistan Car Park

DATE: 31/05/2022 SCALE @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

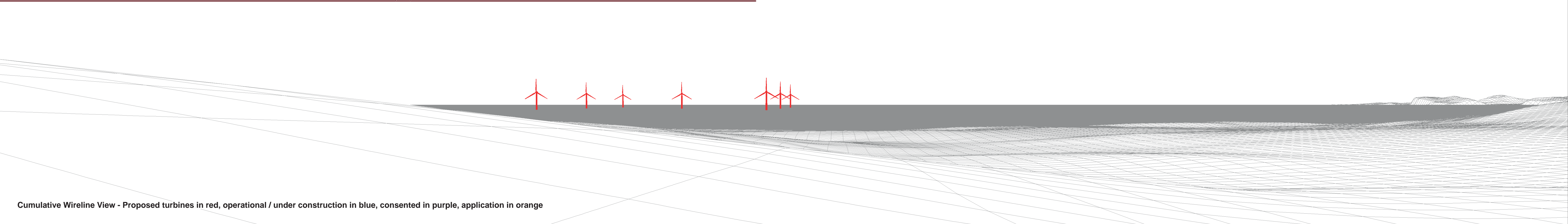


Existing View

Extent of 53.5° planar panorama

Scotwind Site 13 (33km)

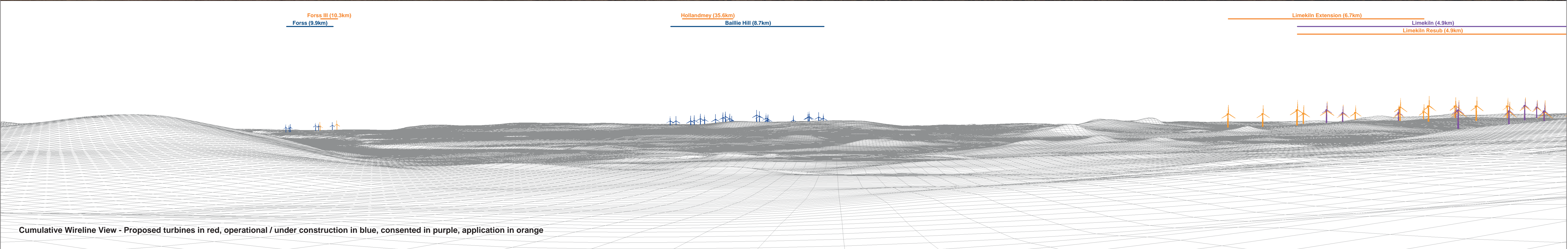
Proposed Development (9.3km)

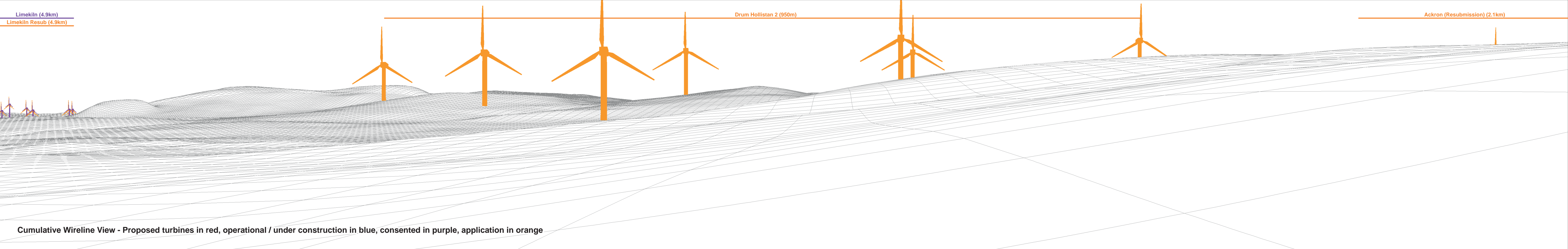


Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

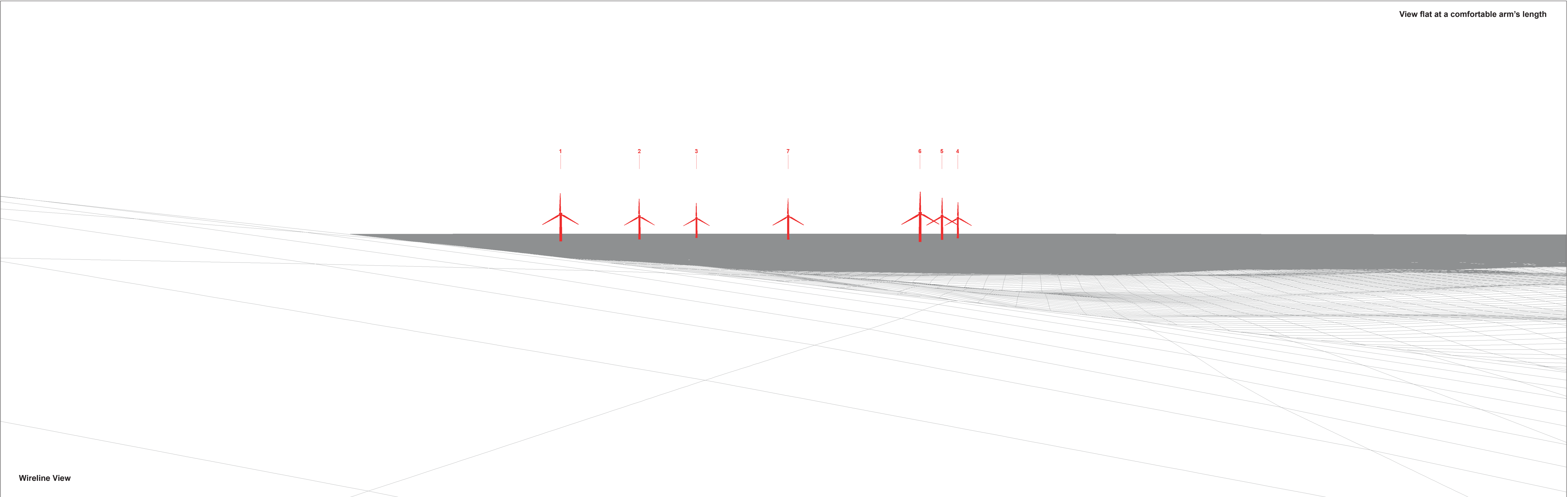


Existing View





View flat at a comfortable arm's length



Wireline View



View flat at a comfortable arm's length

Photomontage—3D extent of PFOWF Array Development Area

OS reference	293264 E 964541 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	88.9 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	351°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	9,347 m	Correct printed image size	820 x 260 mm	Date & time taken	10/11/2021 12:35

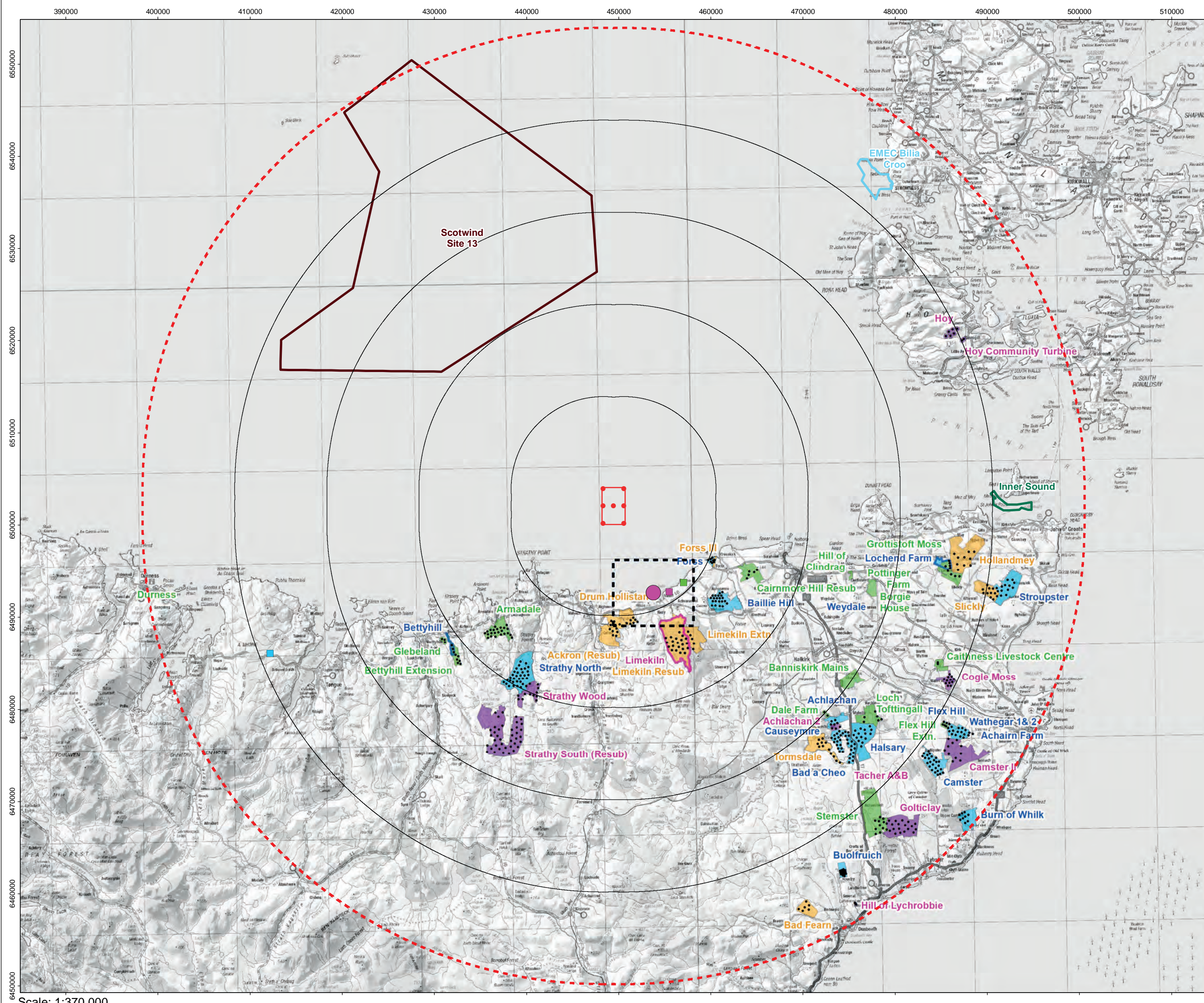
Figure 16.34f
Viewpoint 4: Drum Holliston Car Park Photomontage



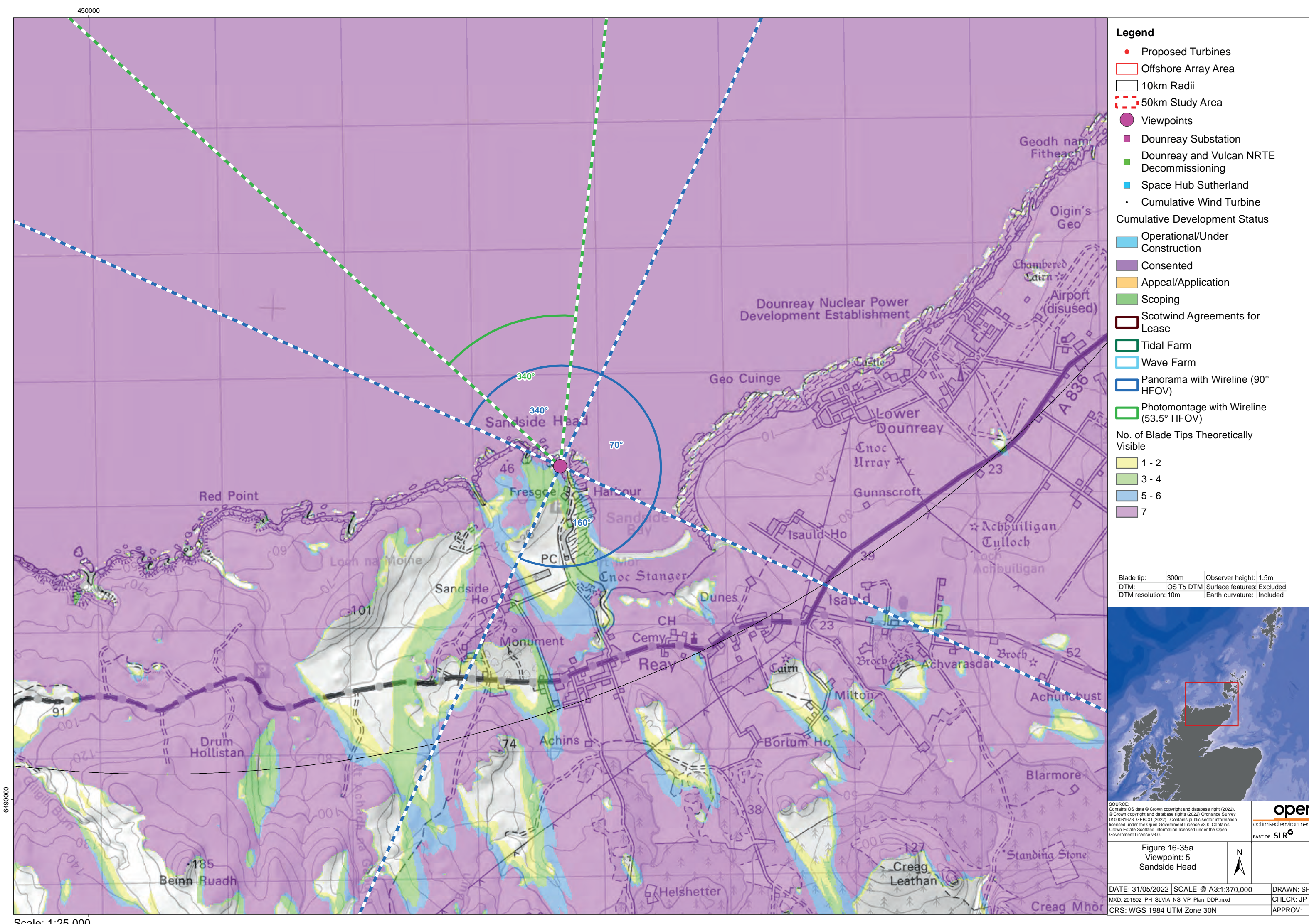
View flat at a comfortable arm's length

Photomontage

OS reference	293264 E 964541 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II	Figure 16.34g
Elevation	88.9 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4	Viewpoint 4: Drum Holliston Car Park Photomontage
Direction of view	351°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL	
Nearest turbine	9,347 m	Correct printed image size	820 x 260 mm	Date & time taken	10/11/2021 12:35	



Scale: 1:370,000



Scale: 1:25,000

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
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- Dounreay Substation
- Dounreay and Vulcan NRTD Decommissioning
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- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
- No. of Blade Tips Theoretically Visible

1 - 2
3 - 4
5 - 6
7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

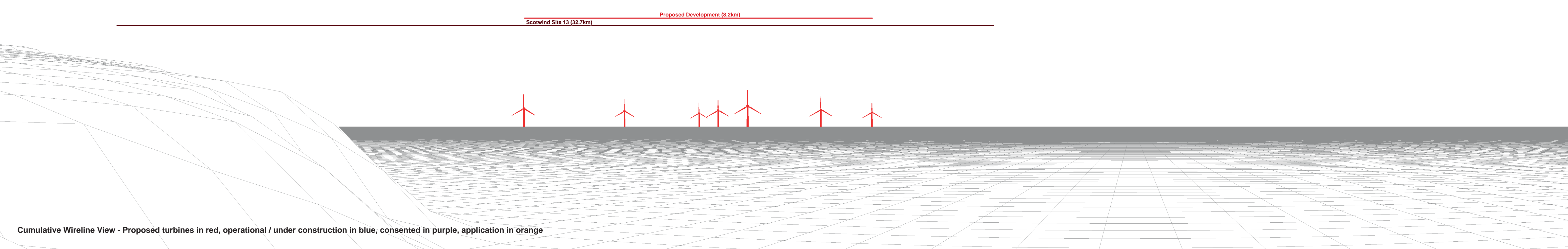
Figure 16-35a
Viewpoint: 5
Sandside Head

DATE: 31/05/2022 SCALE: @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:



Existing View

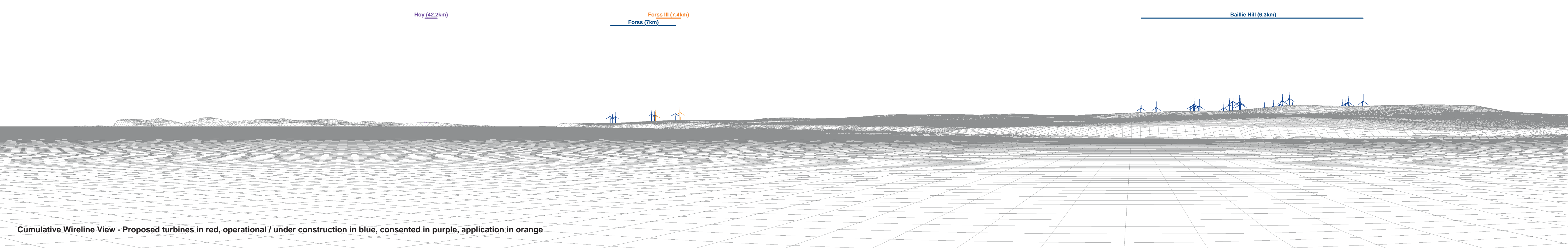
Extent of 53.5° planar panorama



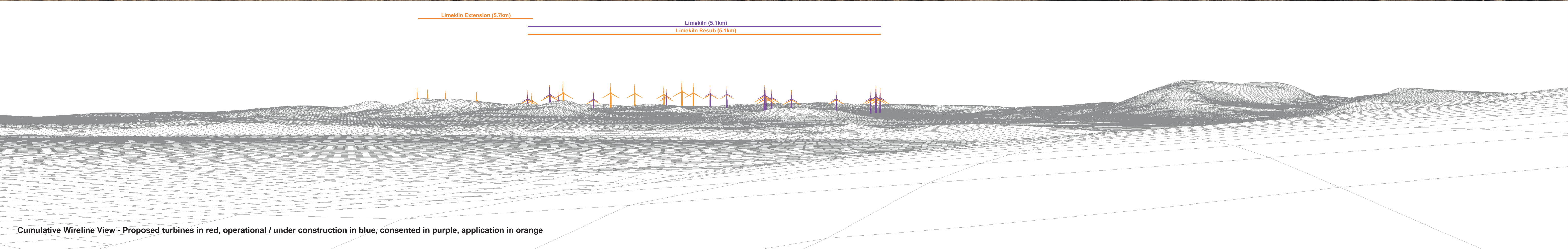
Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

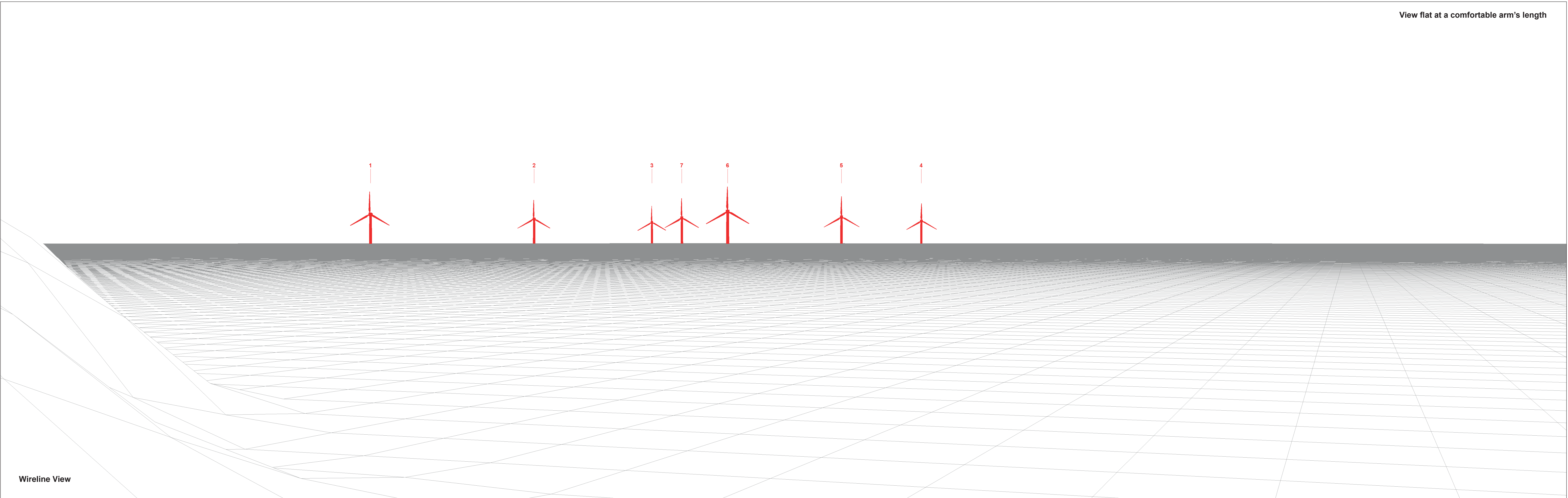


Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange





Wireline View



View flat at a comfortable arm's length

Photomontage—3D extent of PFOWF Array Development Area

OS reference	295694 E 966269 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	13 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	340°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	8,197 m	Correct printed image size	820 x 260 mm	Date & time taken	5/3/2022 15:45

Figure 16.35f
Viewpoint 5: Sandside Head Photomontage



View flat at a comfortable arm's length

Photomontage

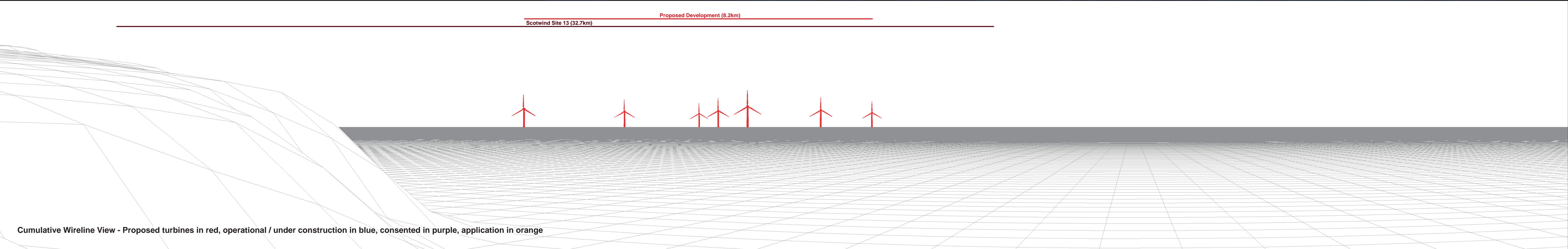
OS reference	295694 E 966269 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	13 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	340°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	8,197 m	Correct printed image size	820 x 260 mm	Date & time taken	5/3/2022 15:45

Figure 16.35g
Viewpoint 5: Sandside Head Photomontage

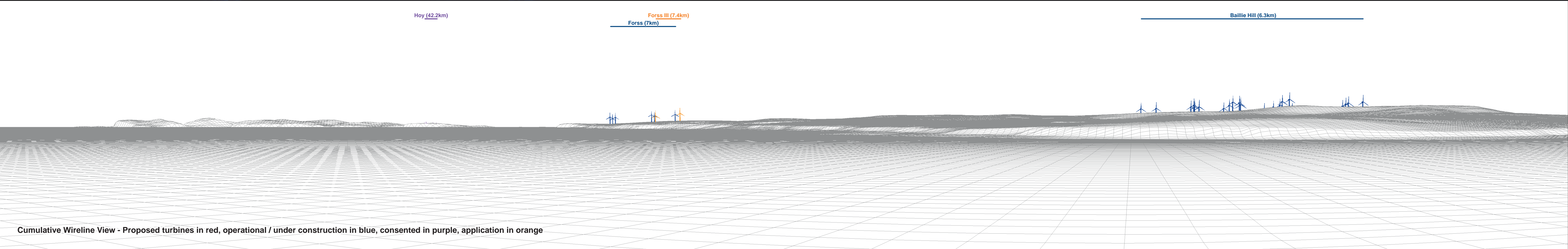


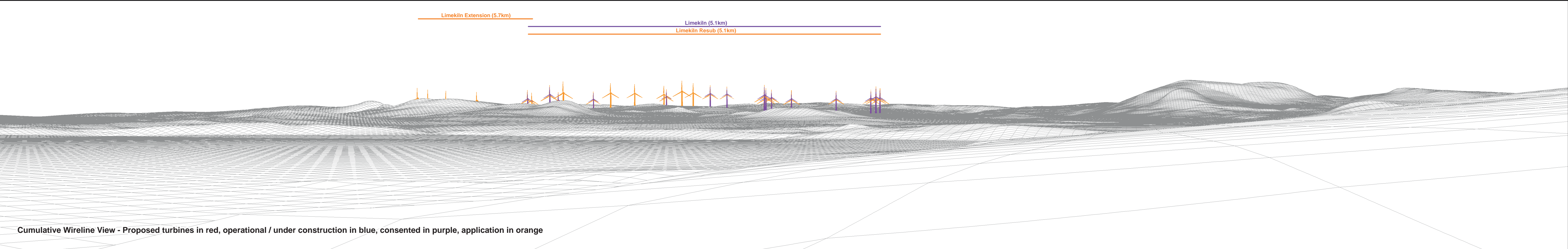
Existing View

Extent of 53.5° planar panorama



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange







View flat at a comfortable arm's length

Photomontage (2000 candela lights)

OS reference	295694 E 966272 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	13 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	340°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	8,199 m	Correct printed image size	820 x 260 mm	Date & time taken	5/3/2022 18:20

Figure 16.35k
Viewpoint 5: Sandside Head Night-time Photomontage

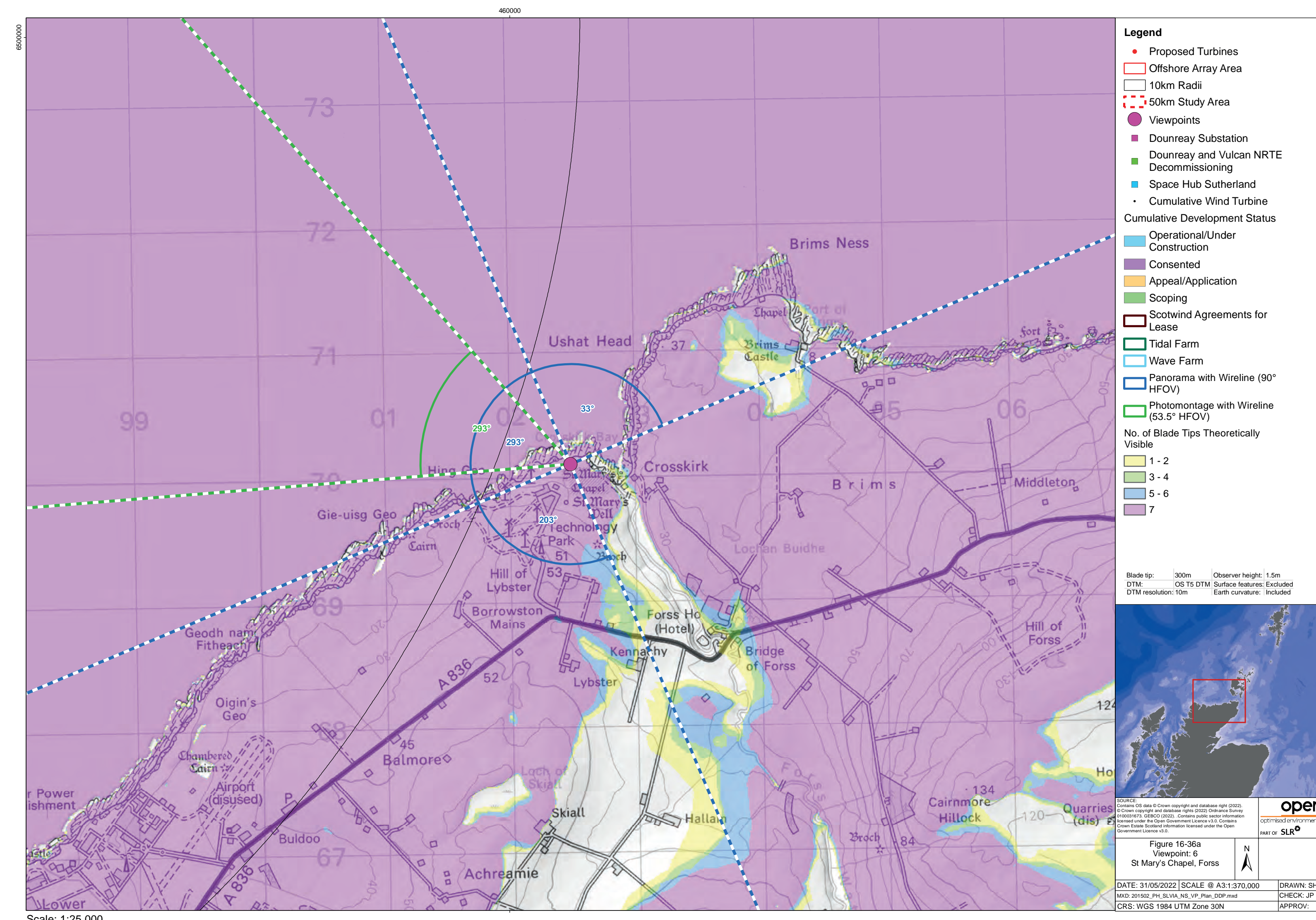
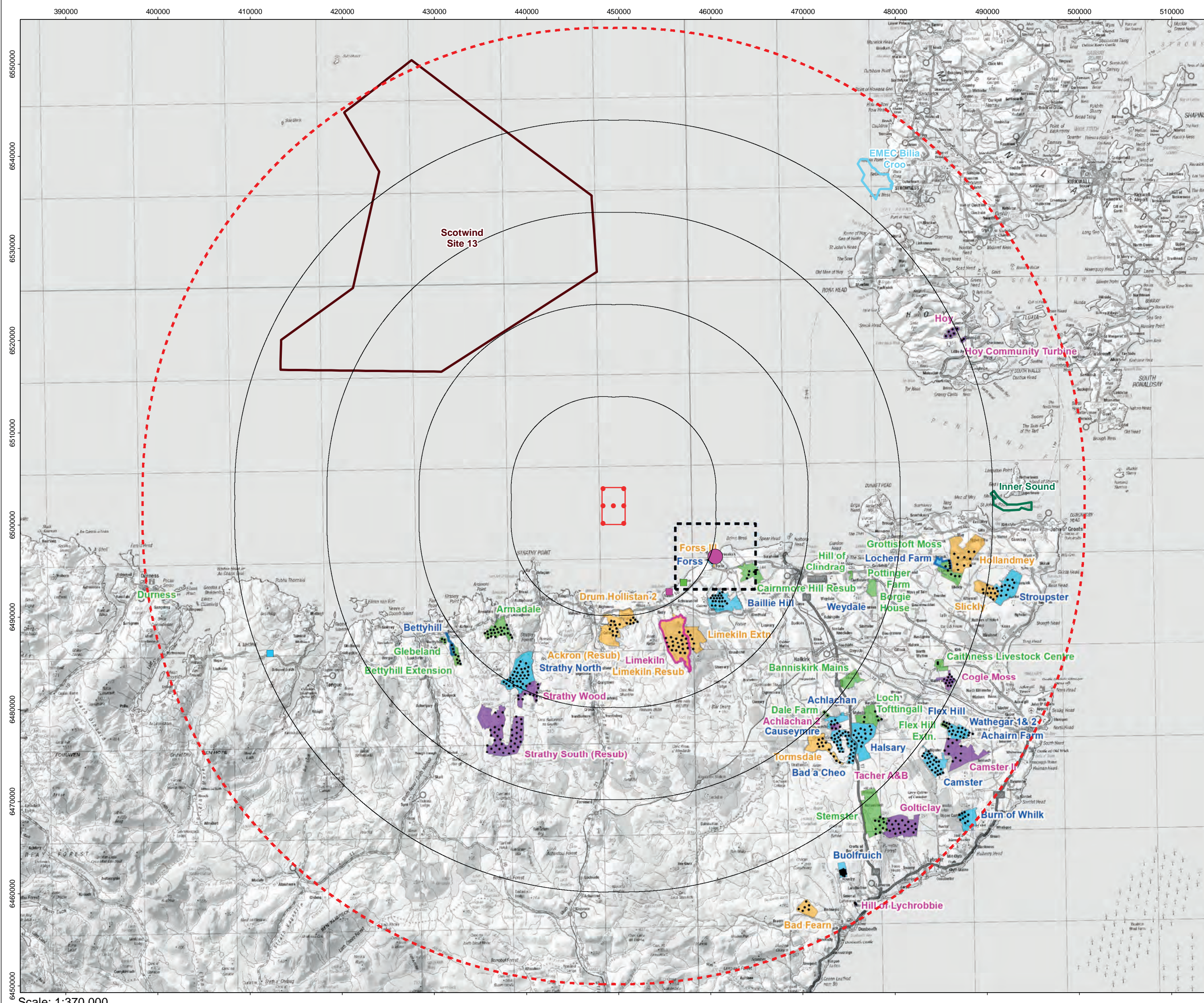


View flat at a comfortable arm's length

Photomontage (200 candela lights)

OS reference	295694 E 966272 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	13 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	340°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	8,199 m	Correct printed image size	820 x 260 mm	Date & time taken	5/3/2022 18:20

Figure 16.351
Viewpoint 5: Sandside Head Night-time Photomontage



Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
- No. of Blade Tips Theoretically Visible

1 - 2
3 - 4
5 - 6
7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

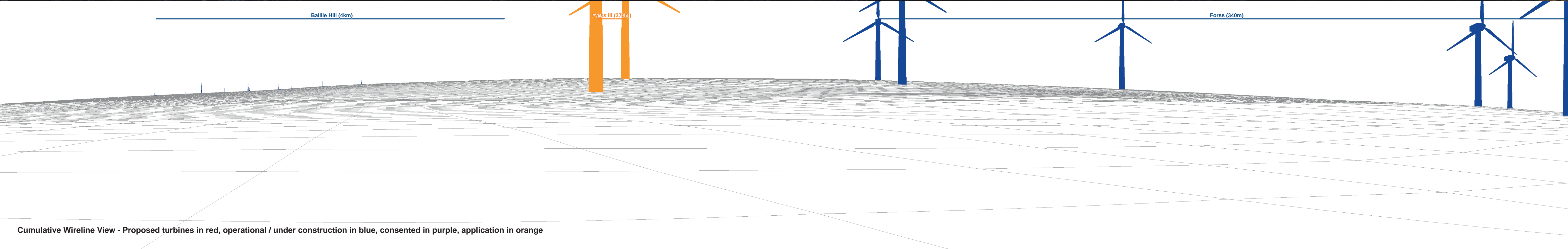
Figure 16-36a
Viewpoint: 6
St Mary's Chapel, Forss

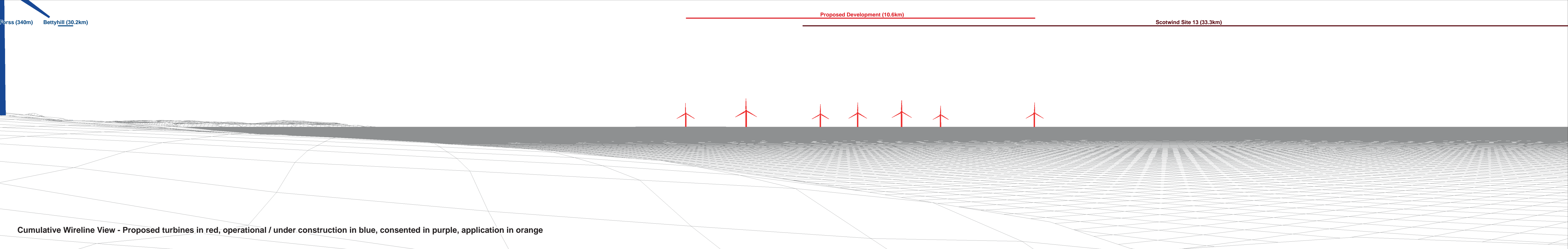
DATE: 31/05/2022 | SCALE: @ A3:1:370,000 | DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd | CHECK: JP
CRS: WGS 1984 UTM Zone 30N | APPROV:

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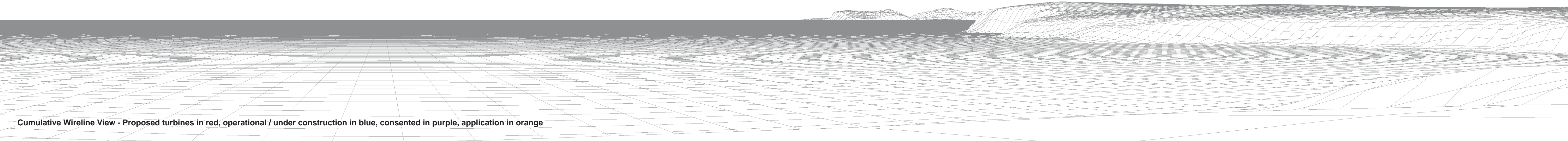
Existing View

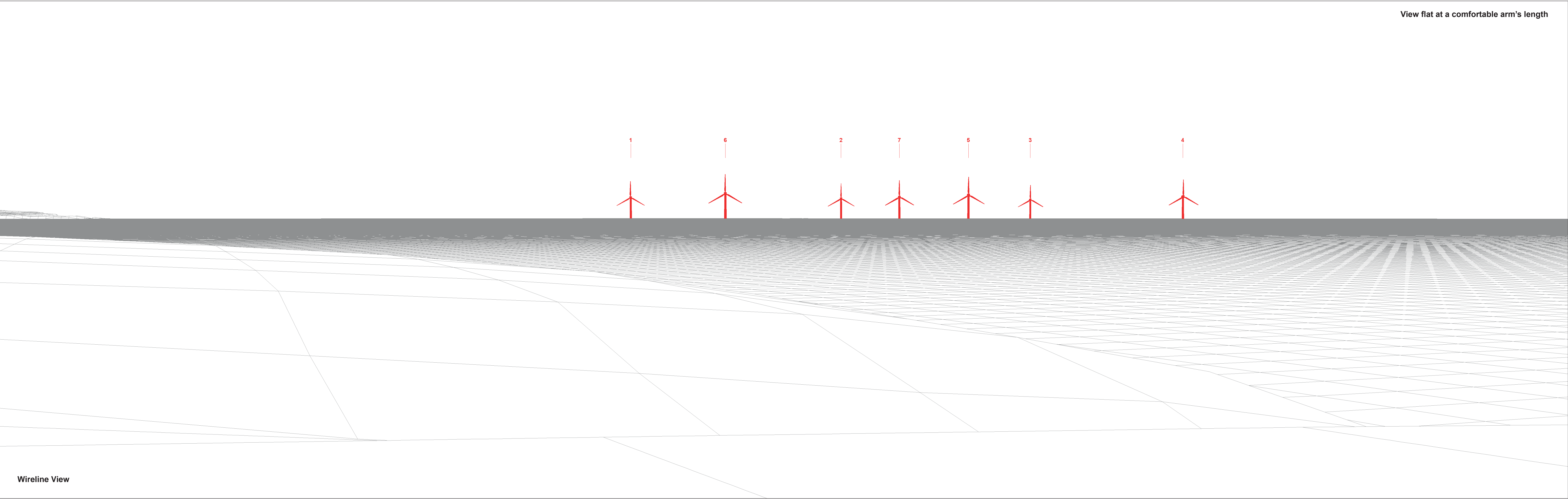






Scotwind Site 13 (33.3km)







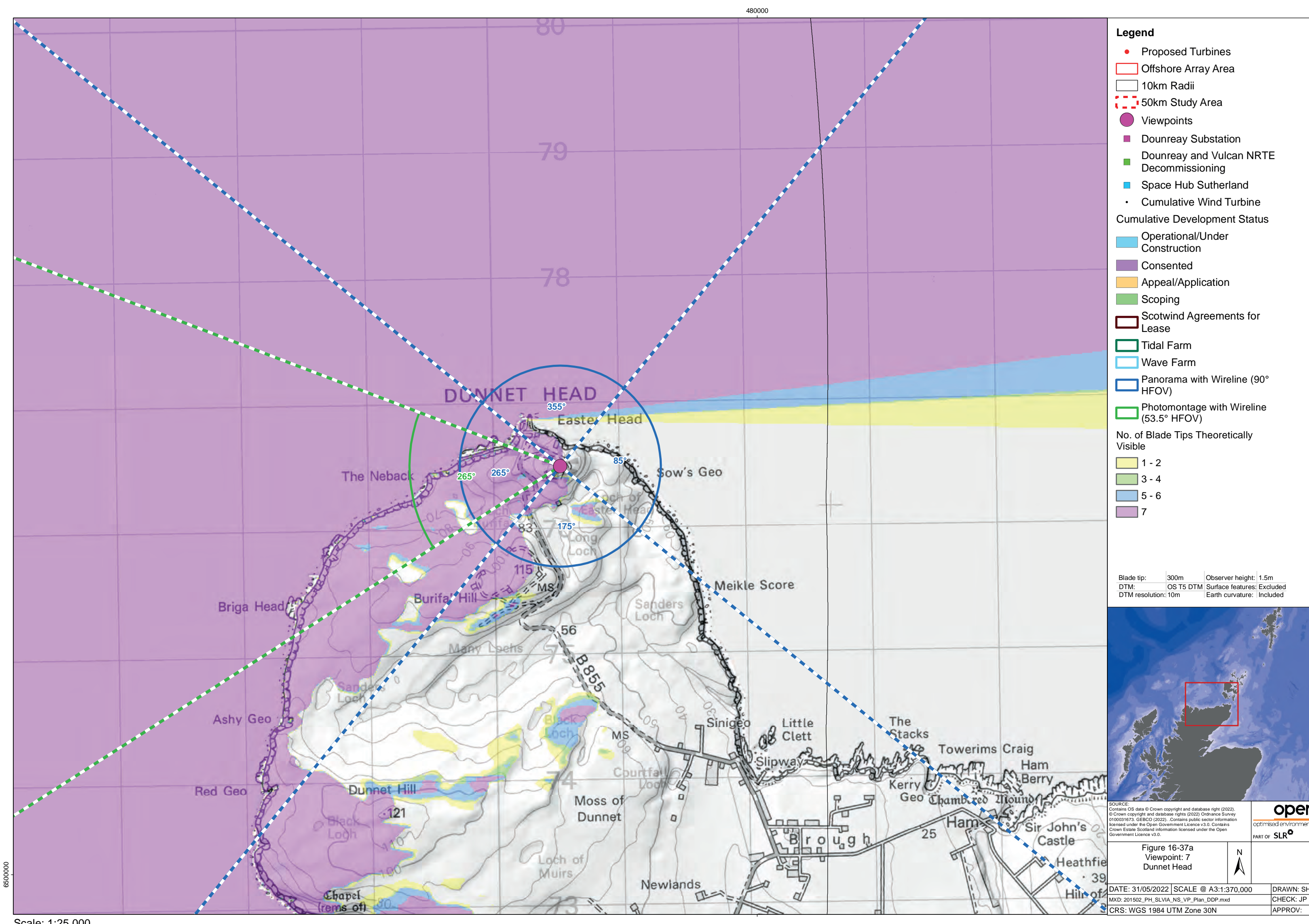
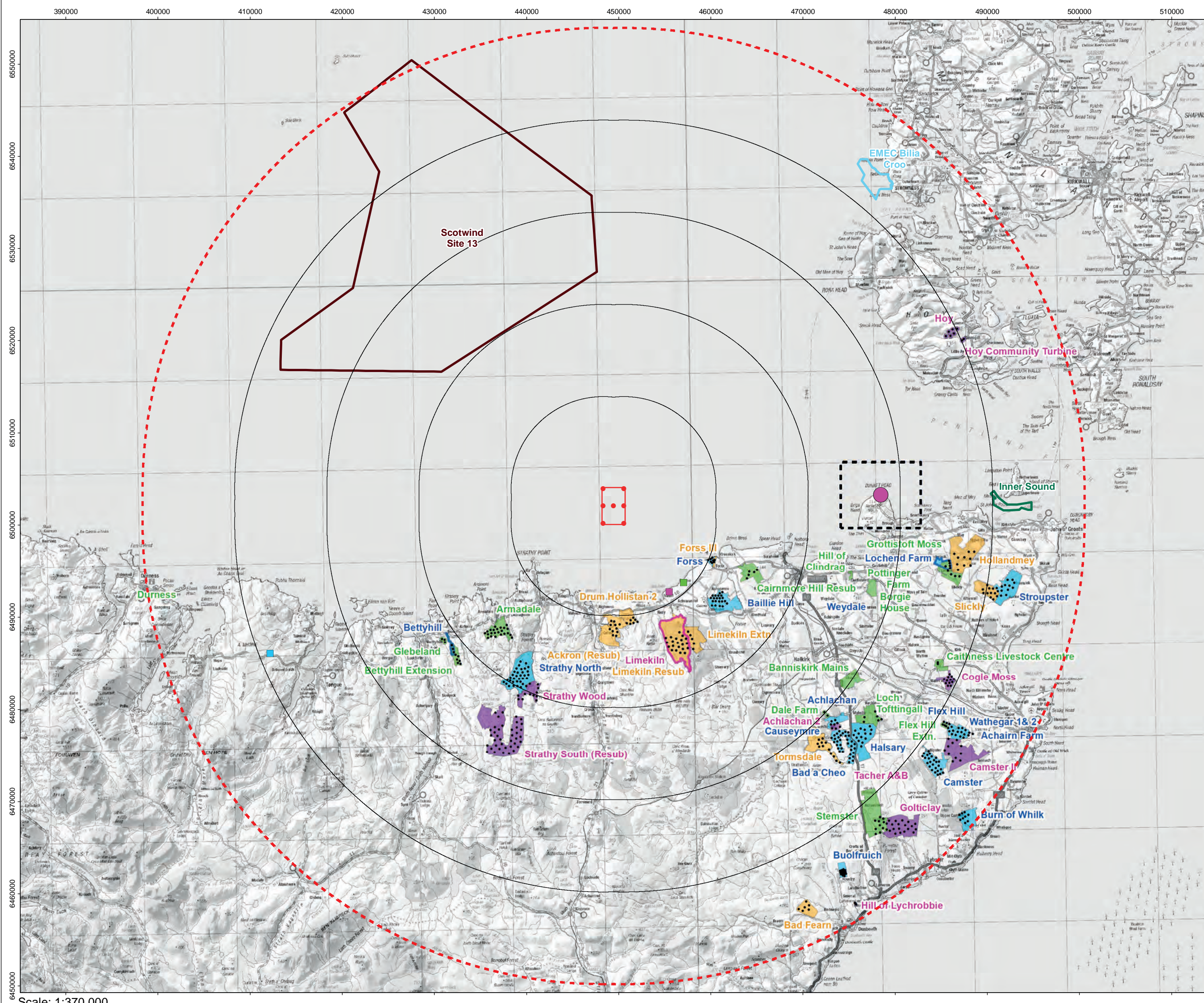
View flat at a comfortable arm's length

Photomontage - 3D extent of PFOWF Array Development Area

OS reference	302487 E 970105 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	15.2 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	293°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	10,564 m	Correct printed image size	820 x 260 mm	Date & time taken	13/04/2021 14:25

Figure 16.36f
Viewpoint 6: St Mary's Chapel, Forss Photomontage





Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
- No. of Blade Tips Theoretically Visible
- Blade tip: 300m
- DTM: OS T5 DTM
- DTM resolution: 10m
- Observer height: 1.5m
- Surface features: Excluded
- Earth curvature: Included

Figure 16-37a
Viewpoint: 7
Dunnet Head

DATE: 31/05/2022 SCALE: @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

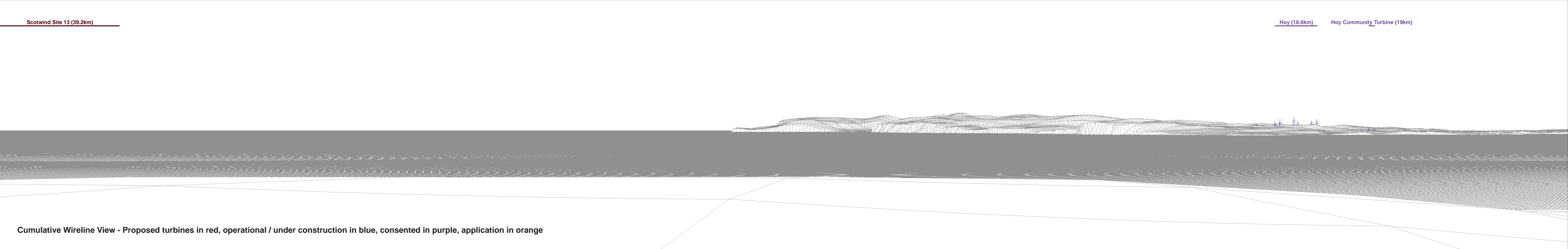
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optimised environments
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Existing View

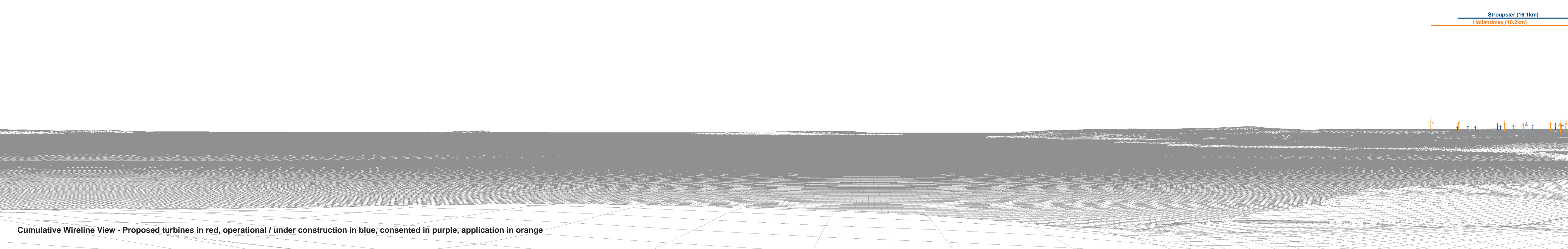
Extent of 53.5° planar panorama



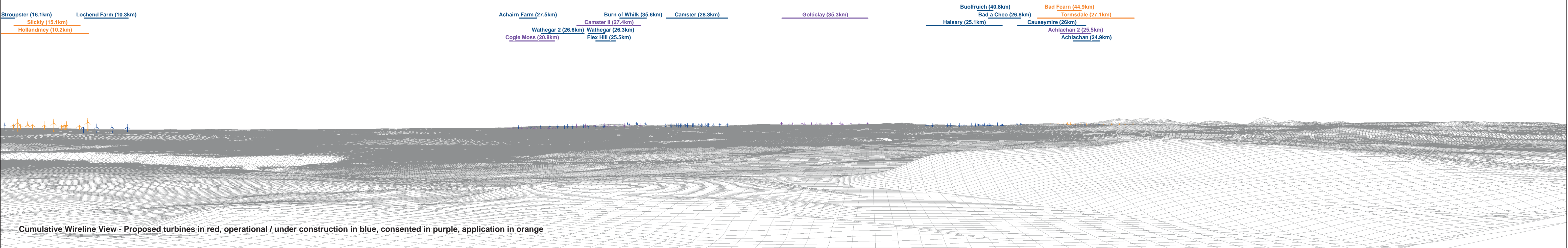


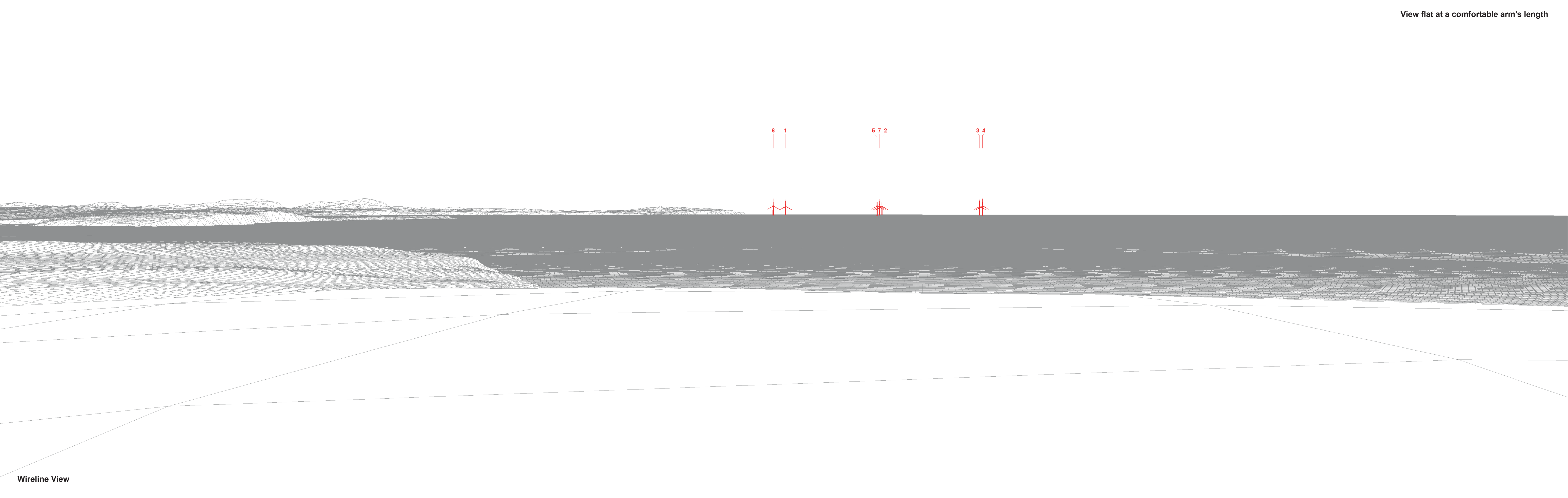


Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange







View flat at a comfortable arm's length

Photomontage—3D extent of PFOWF Array Development Area

OS reference	320532 E 976496 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	125.9 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	265°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	27,884 m	Correct printed image size	820 x 260 mm	Date & time taken	12/04/2021 14:55

Figure 16.37g
Viewpoint 7: Dunnet Head Photomontage

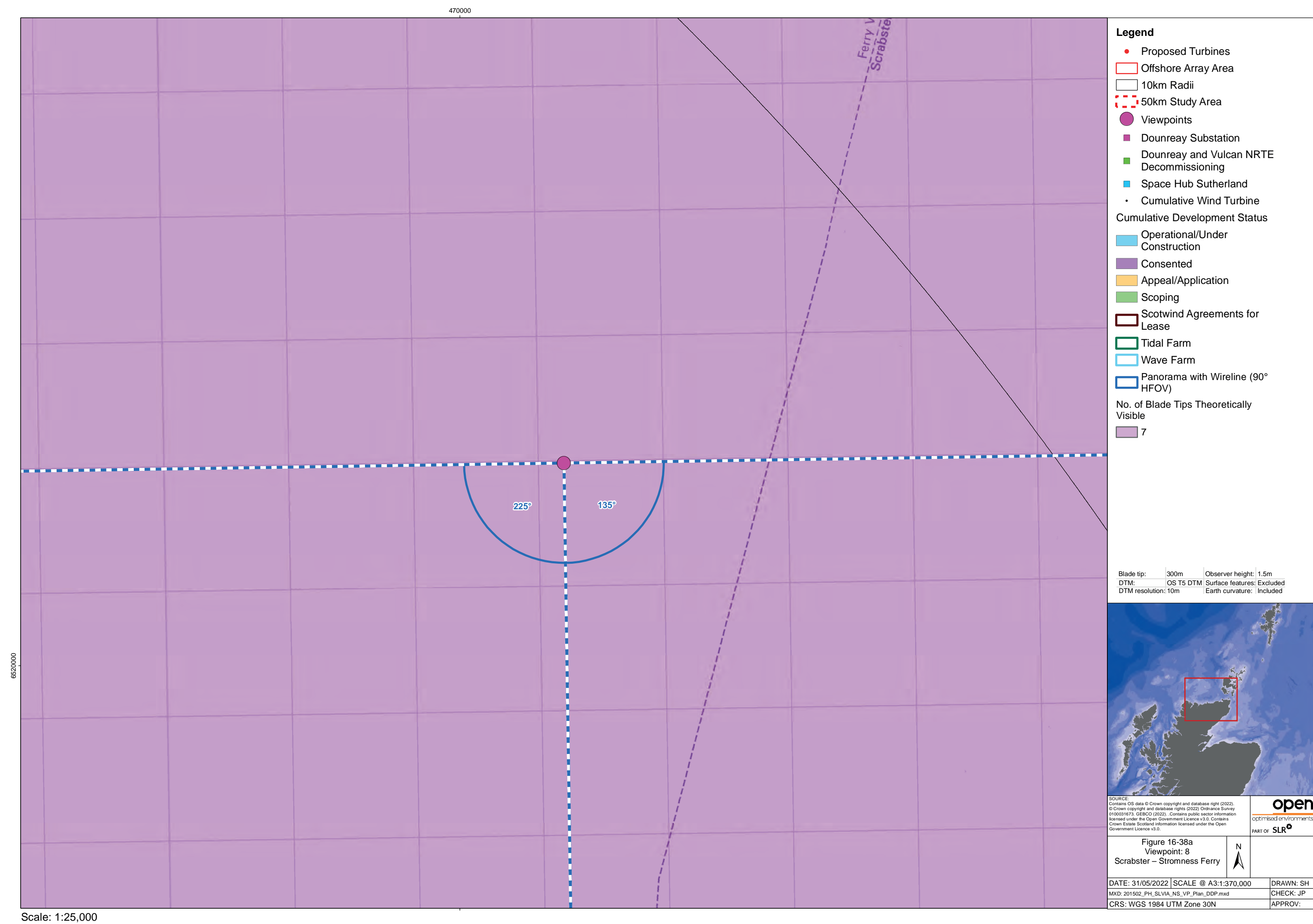
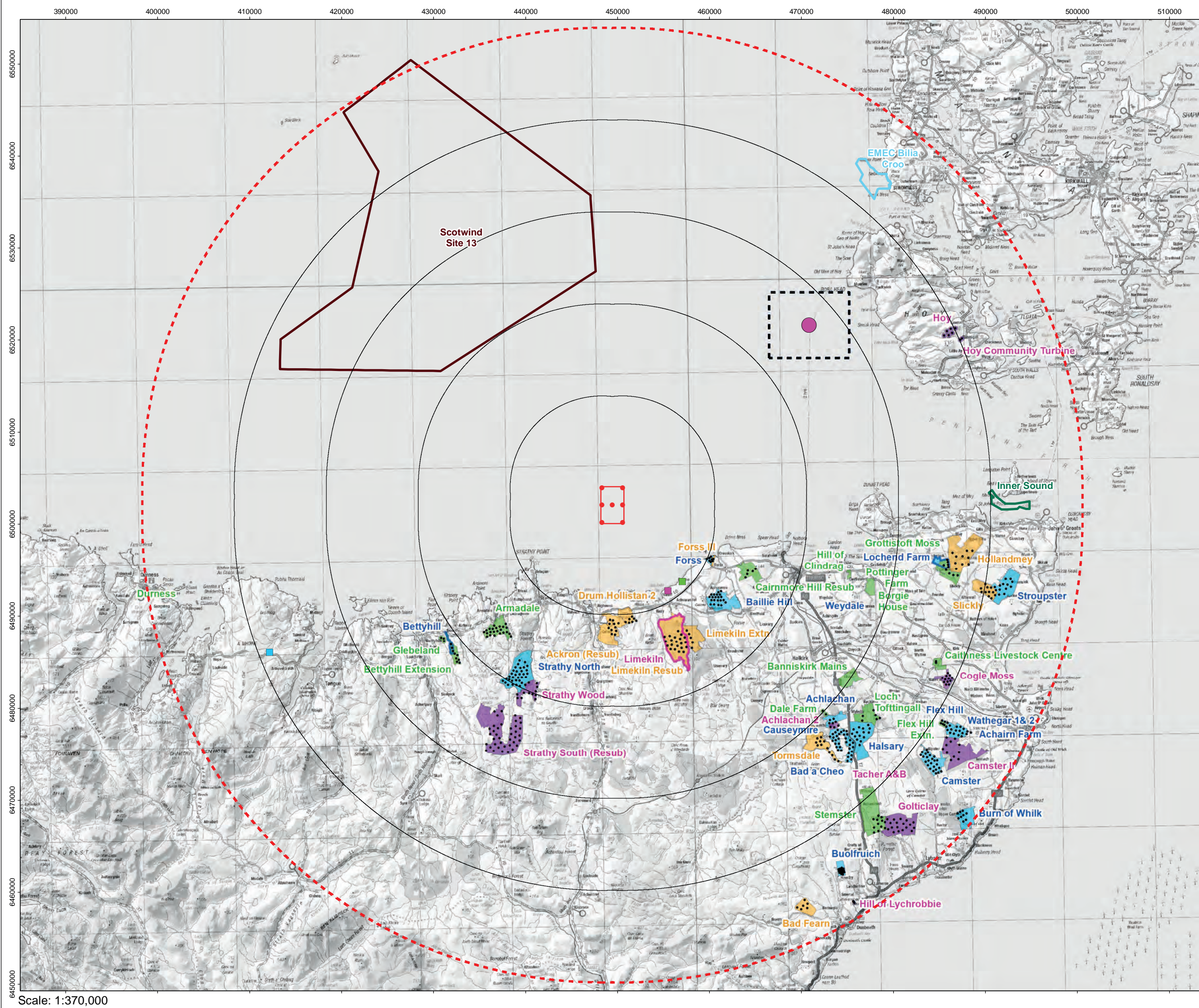


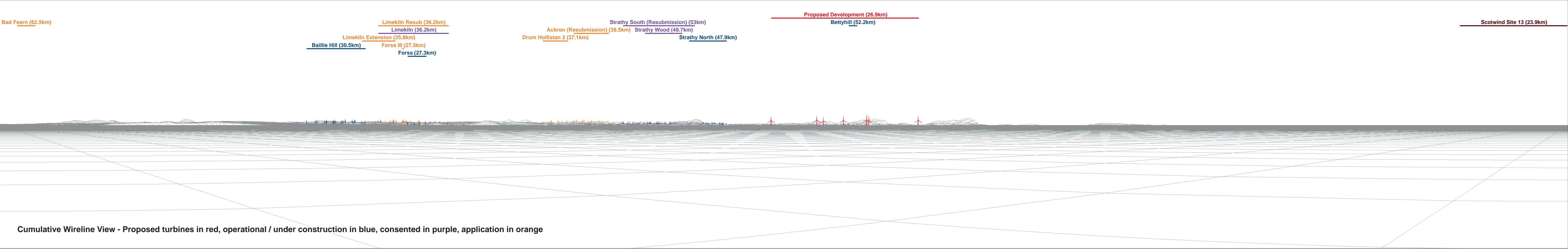
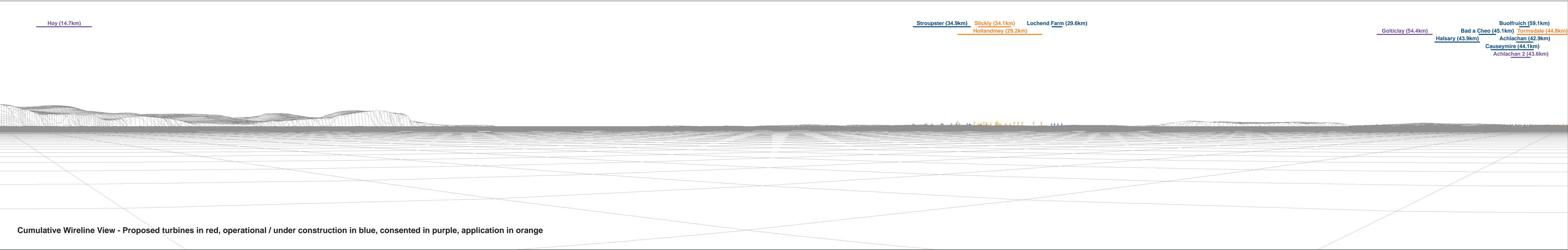
View flat at a comfortable arm's length

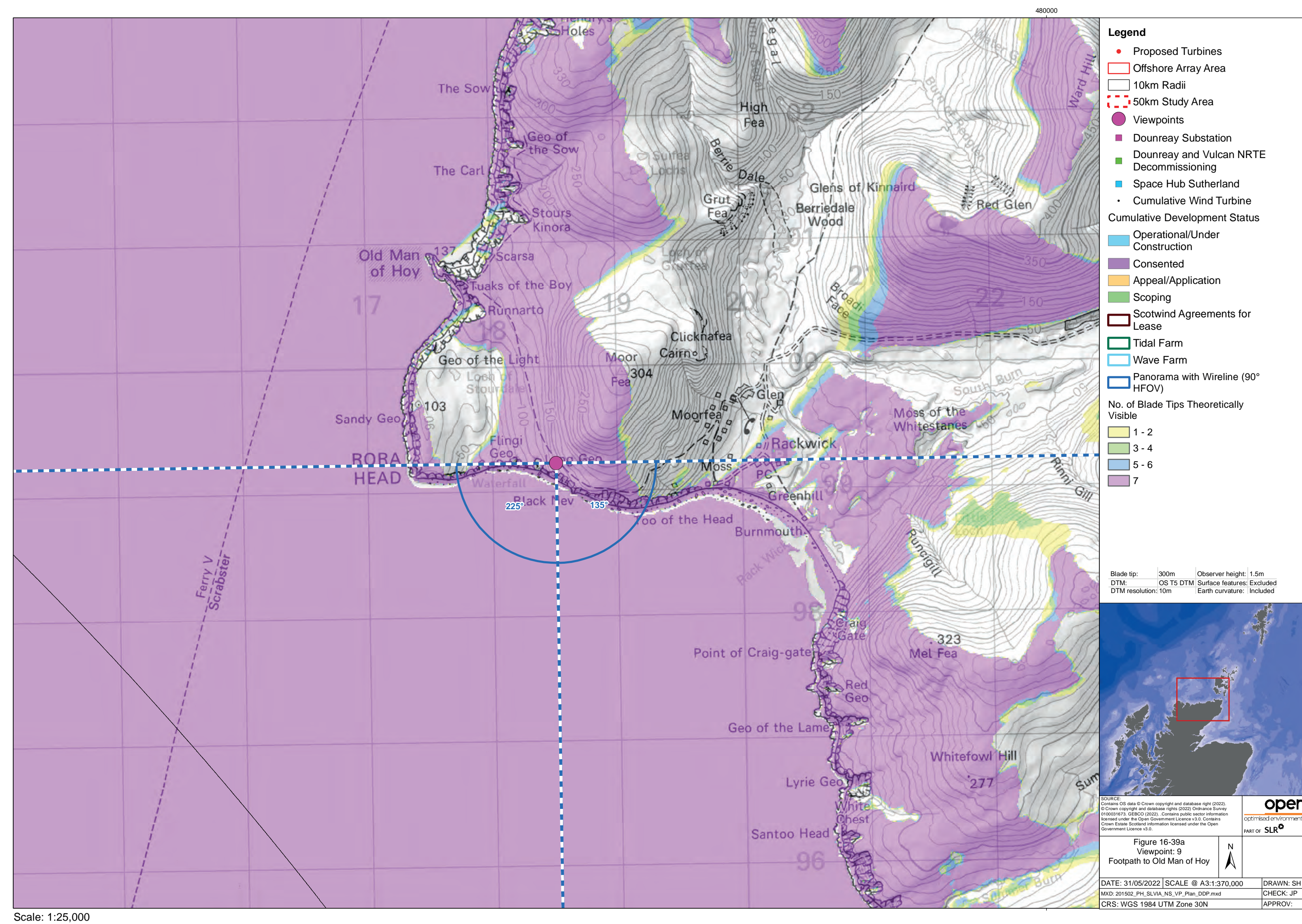
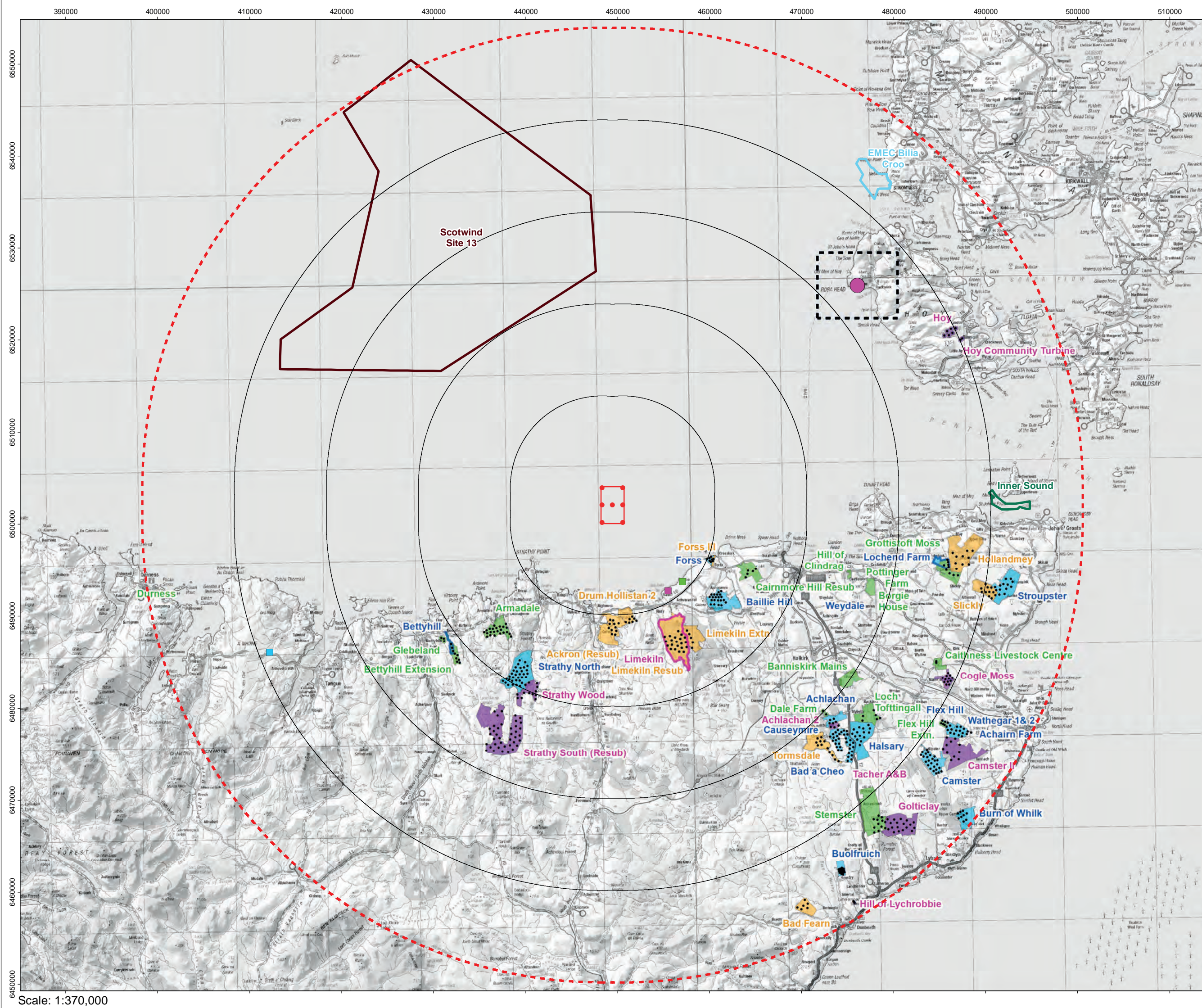
Photomontage

OS reference	320532 E 976496 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	125.9 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	265°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	27,884 m	Correct printed image size	820 x 260 mm	Date & time taken	12/04/2021 14:55

Figure 16.37h
Viewpoint 7: Dunnet Head Photomontage

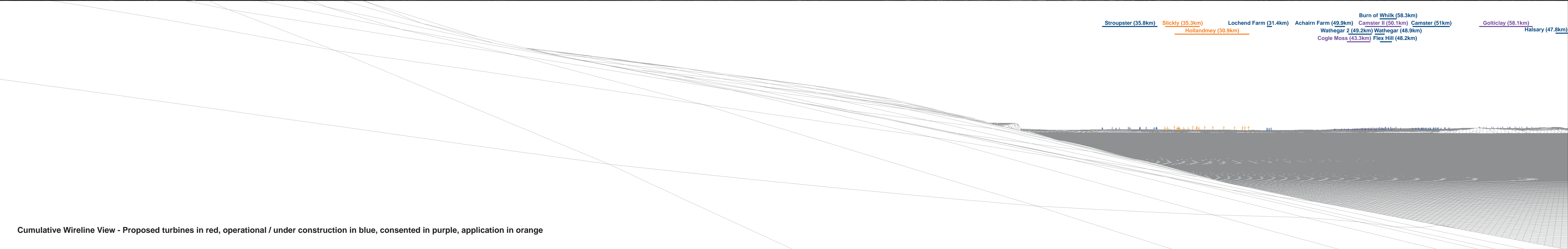








Existing View



OS reference	318510 E 999227 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 6D Mark II
Elevation	149.4 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	135°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	33,692 m	Correct printed image size	820 x 130 mm	Date & time taken	02/03/2022 08:55

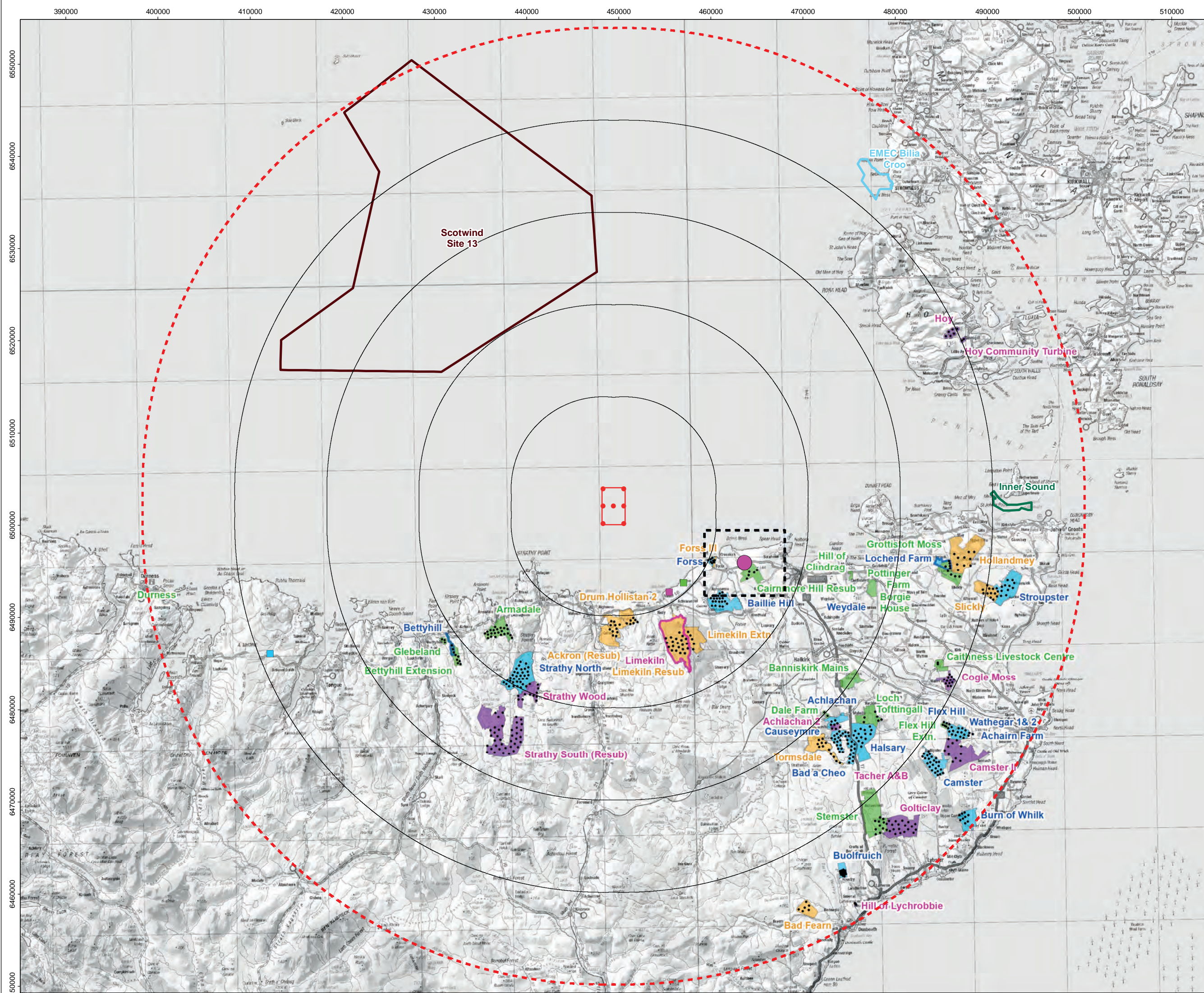
Figure 16.39b
Viewpoint 9: Footpath to Old Man of Hoy Panorama with Cumulative Wireline (view 1 of 2)



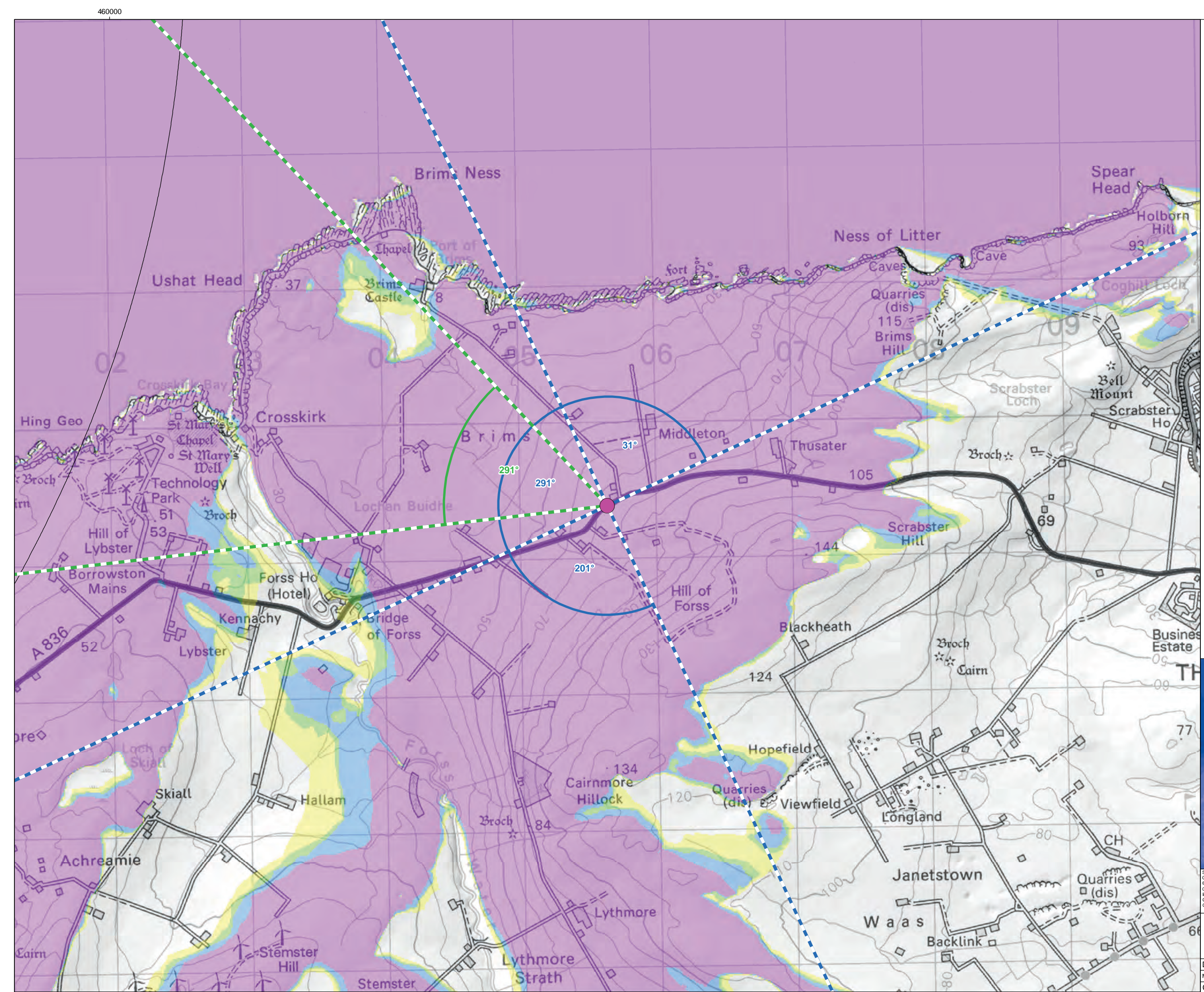
Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange



Scale: 1:370,000



Scale: 1:25,000

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)

No. of Blade Tips Theoretically Visible

1 - 2
3 - 4
5 - 6
7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

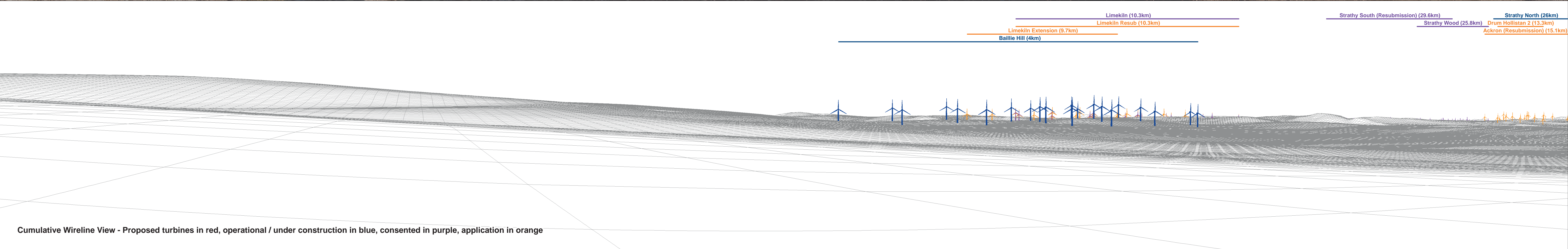
Figure 16-40a
Viewpoint: 10
A836 East of Forss

DATE: 31/05/2022 SCALE: @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

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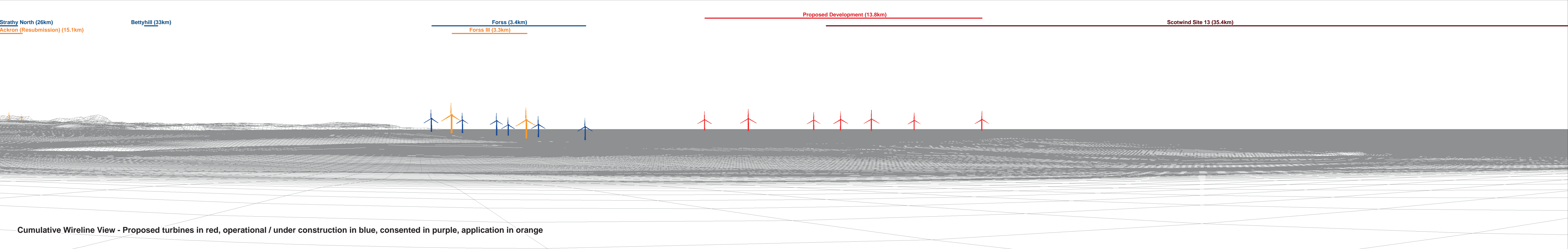


Existing View



OS reference	305643 E 969387 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 6D Mark II
Elevation	71.1 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	201°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	13,776 m	Correct printed image size	820 x 130 mm	Date & time taken	12/04/2021 11:05

Figure 16.40b
Viewpoint 10: A836 East of Forss Panorama with Cumulative Wireline (view 1 of 3)

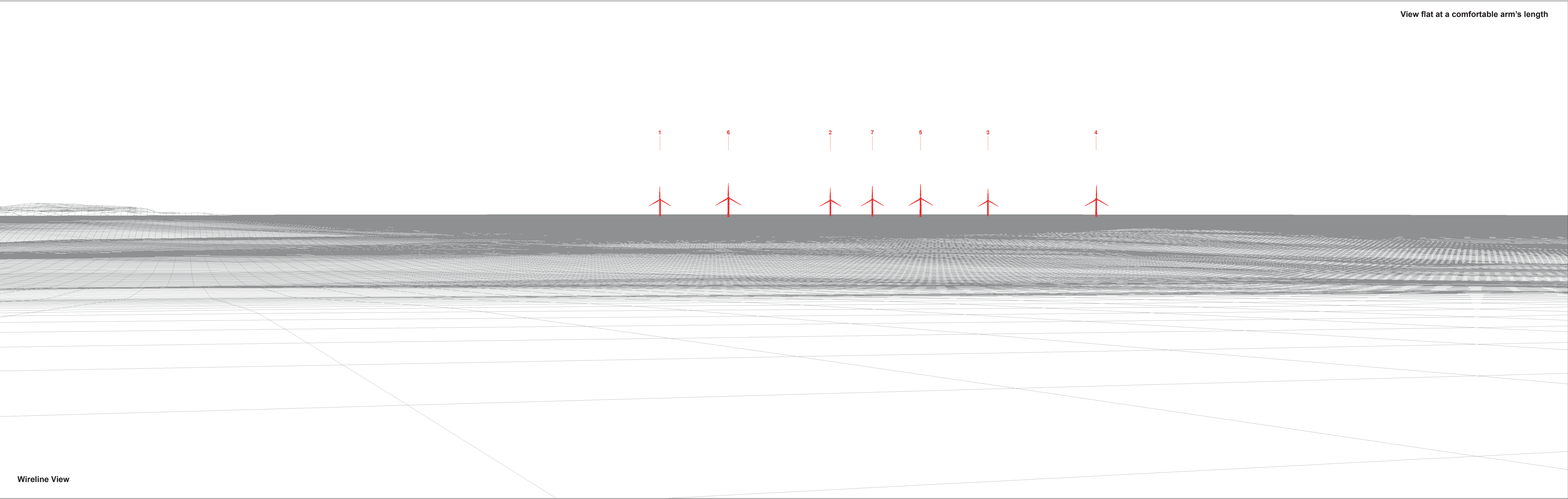




Scotwind Site 13 (35.4km)

Hoy (32.9km)

Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange





View flat at a comfortable arm's length

Photomontage – 3D extent of PFOWF Array Development Area

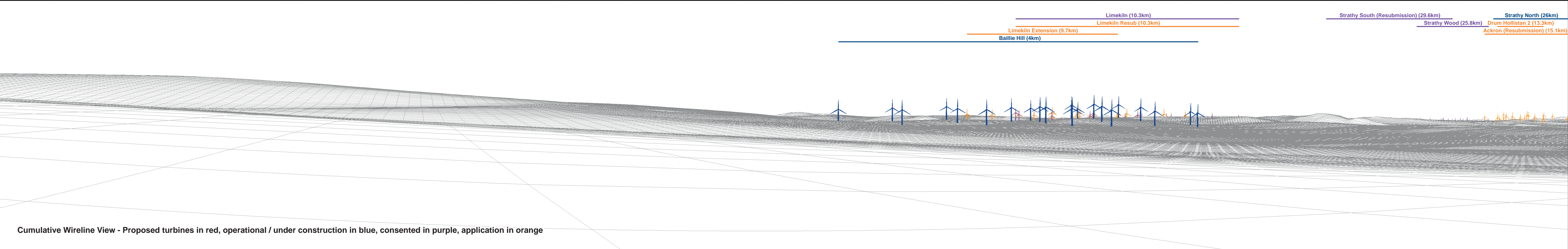
OS reference	305643 E 969387 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 6D Mark II
Elevation	71.1 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	291°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	13,776 m	Correct printed image size	820 x 260 mm	Date & time taken	12/04/2021 11:05

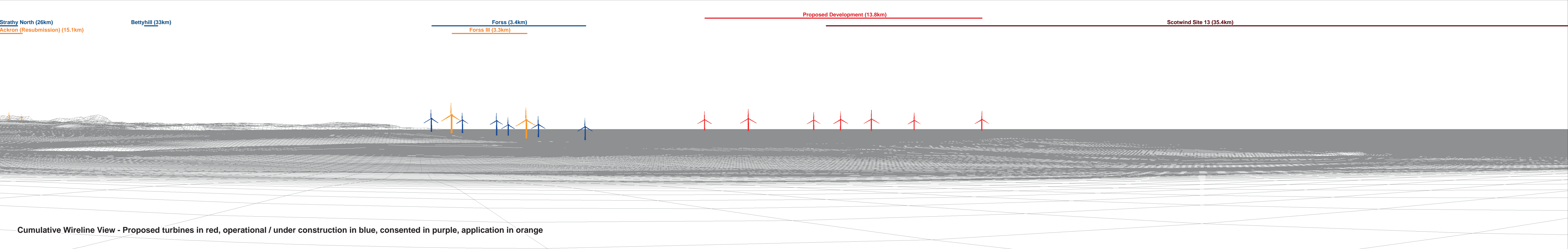
Figure 16.40f
Viewpoint 10: A836 East of Forss Photomontage

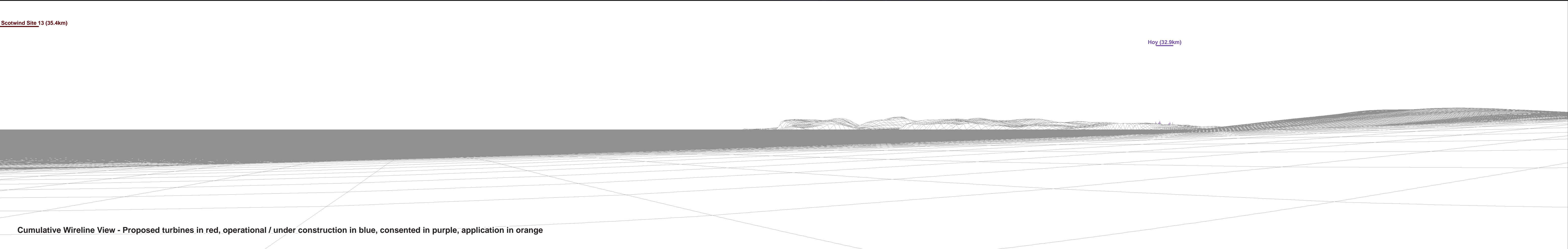




Existing View









View flat at a comfortable arm's length

Photomontage (2000 candela lights)

OS reference	305644 E 969378 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 6D Mark II
Elevation	71.1 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	291°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	13,774 m	Correct printed image size	820 x 260 mm	Date & time taken	06/03/2021 18:35

Figure 16.40k
Viewpoint 10: A836 East of Forss Night-time Photomontage

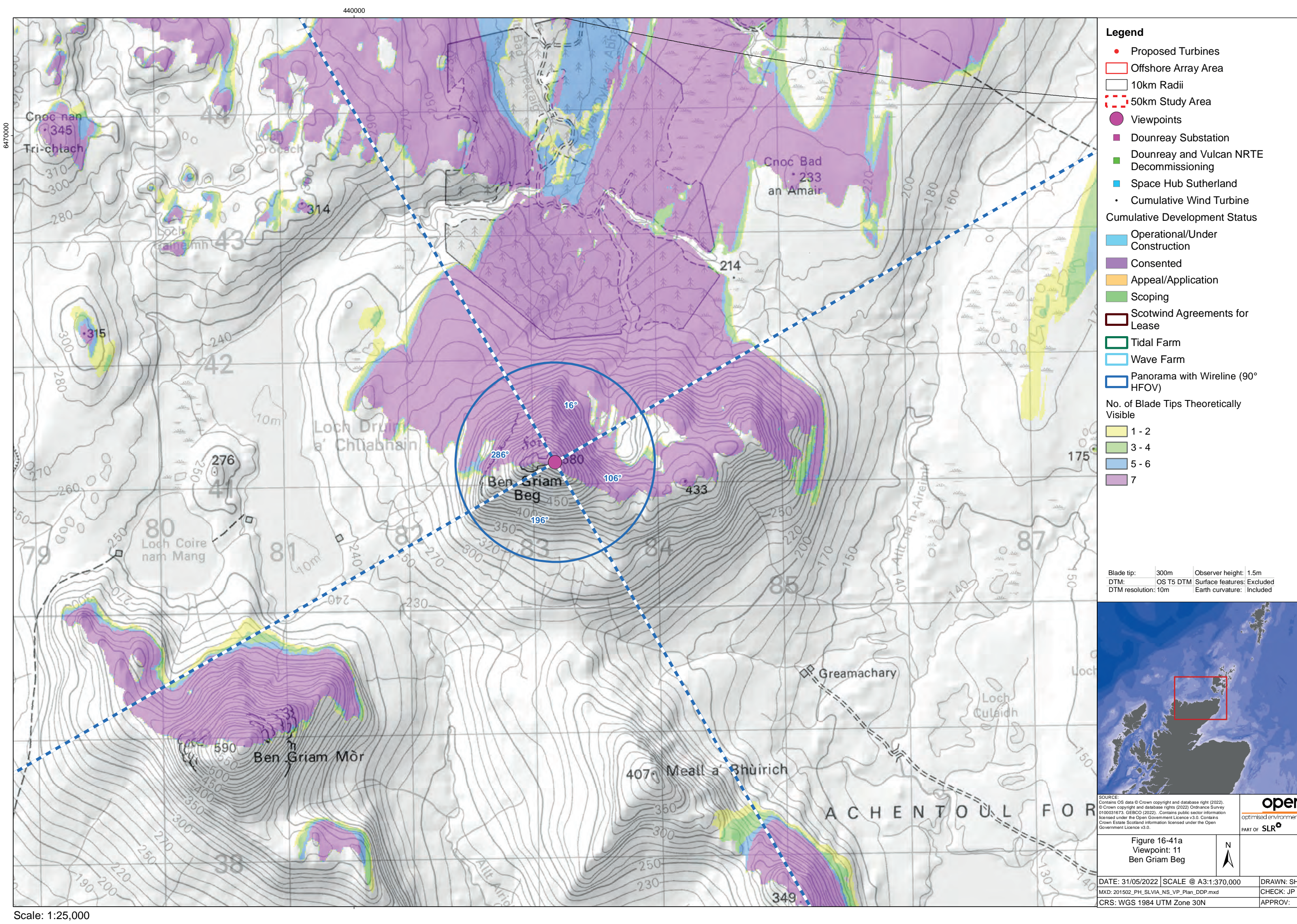
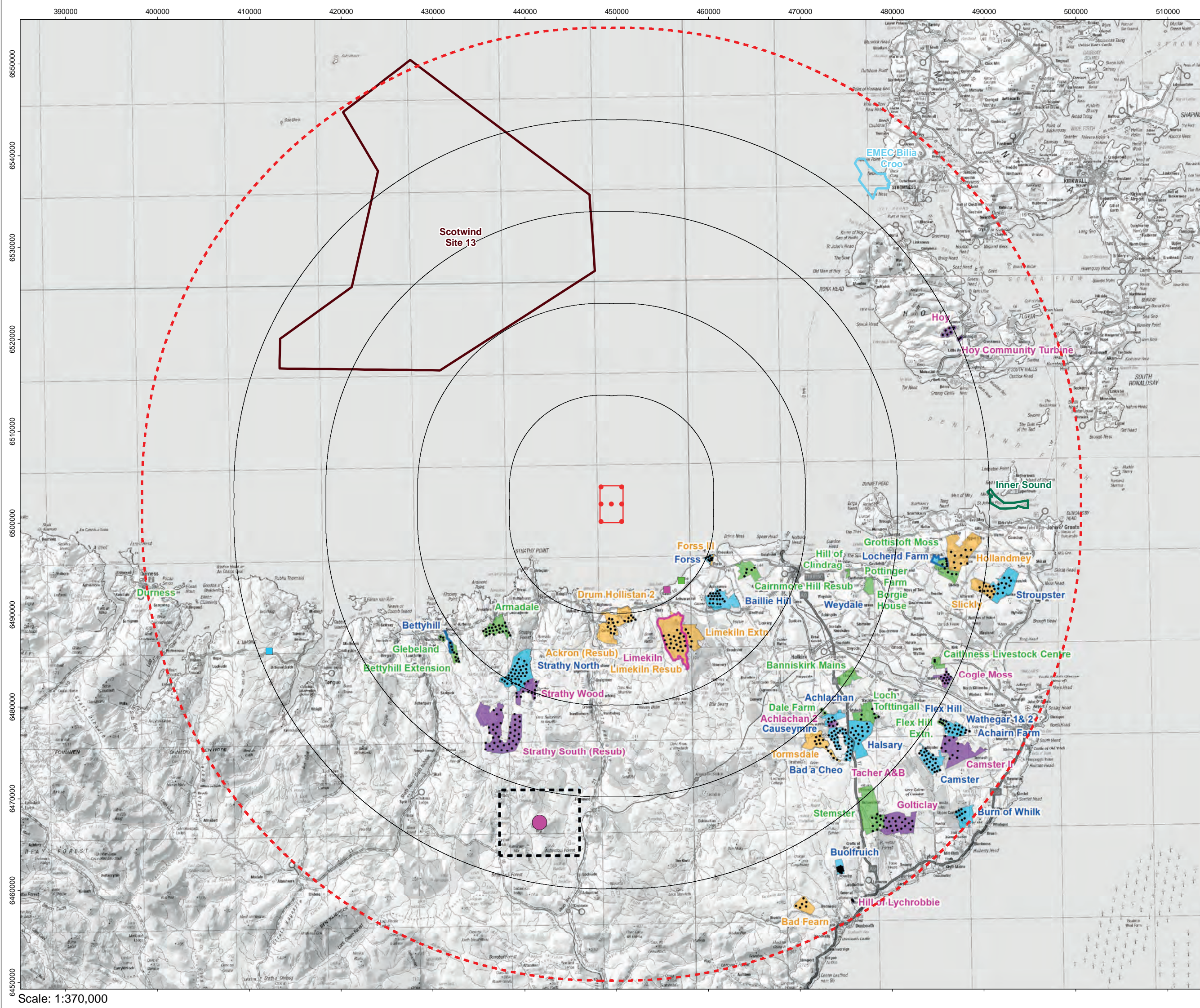


View flat at a comfortable arm's length

Photomontage (200 candela lights)

OS reference	305644 E 969378 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 6D Mark II
Elevation	71.1 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	291°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	13,774 m	Correct printed image size	820 x 260 mm	Date & time taken	06/03/2021 18:35

Figure 16.401
Viewpoint 10: A836 East of Forss Night-time Photomontage



This image provides landscape and visual context only

Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange



Existing View

Stroupster (55.7km)
Slickly (54.2km)

Cogle Moss (46.5km)
Achlachan (33.3km)
Achlachan 2 (33.3km)

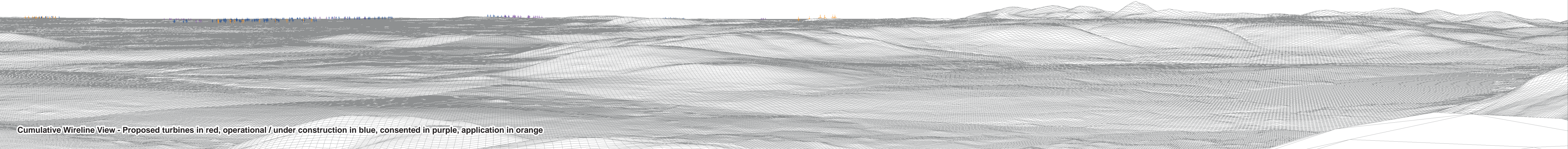
Achairn Farm (47.4km)
Wathegar 2 (46km)
Wathegar (45.4km)
Flex Hill (45.1km)
Halsary (35.3km)
Bad a Cheo (34.1km)
Causeymire (32.9km)
Tormsdale (31.3km)

Camster II (44.5km)
Camster (42km)

Burn of Whilk (45.4km)
Golticlay (37.5km)

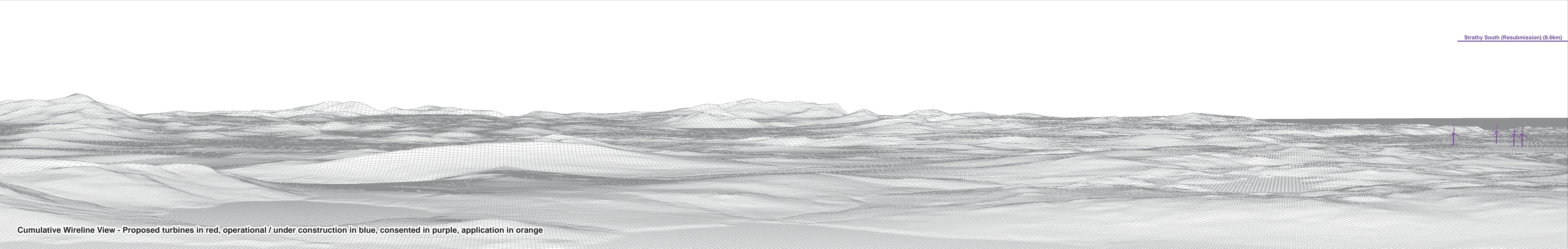
Buolfriuch (32.8km)

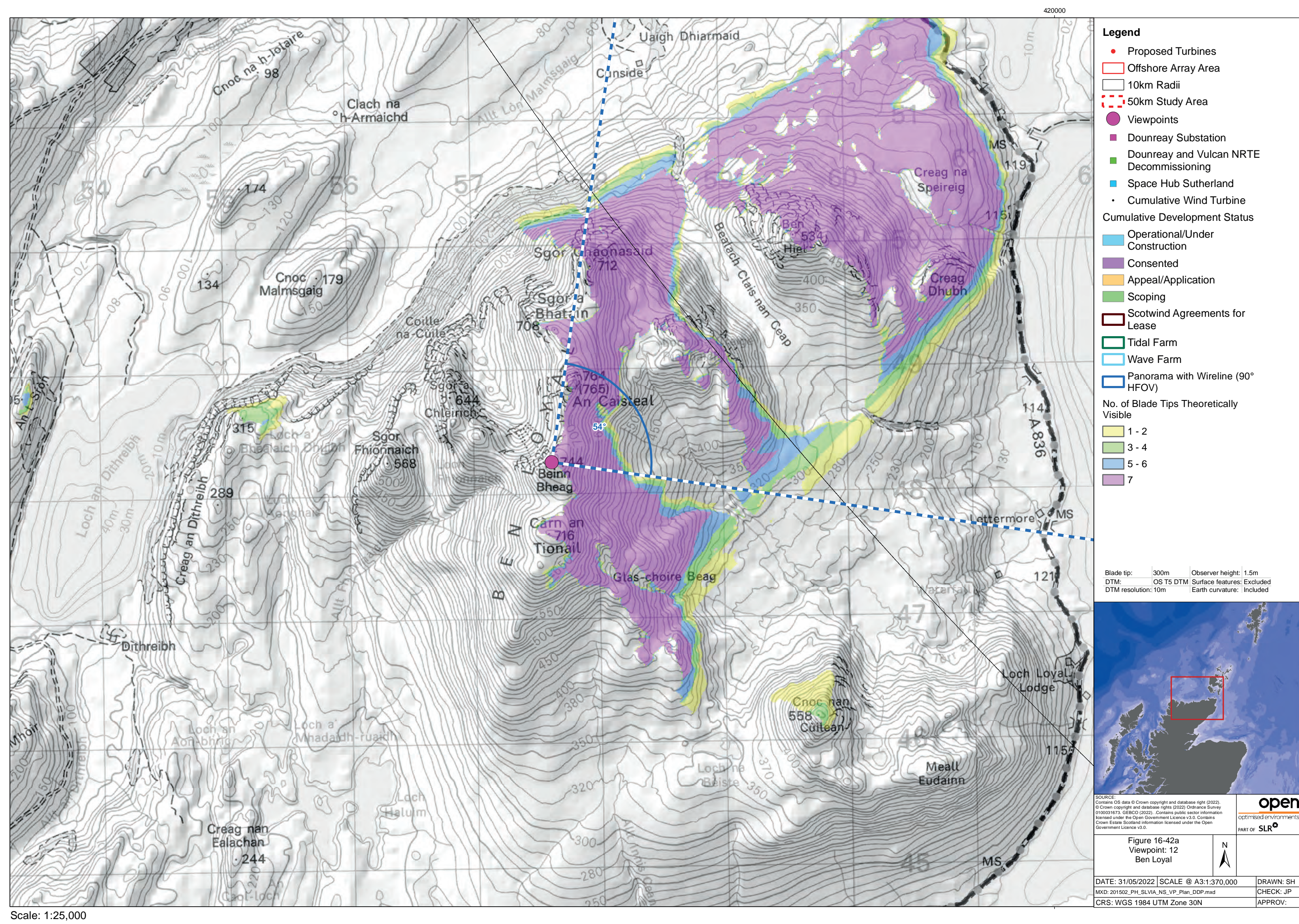
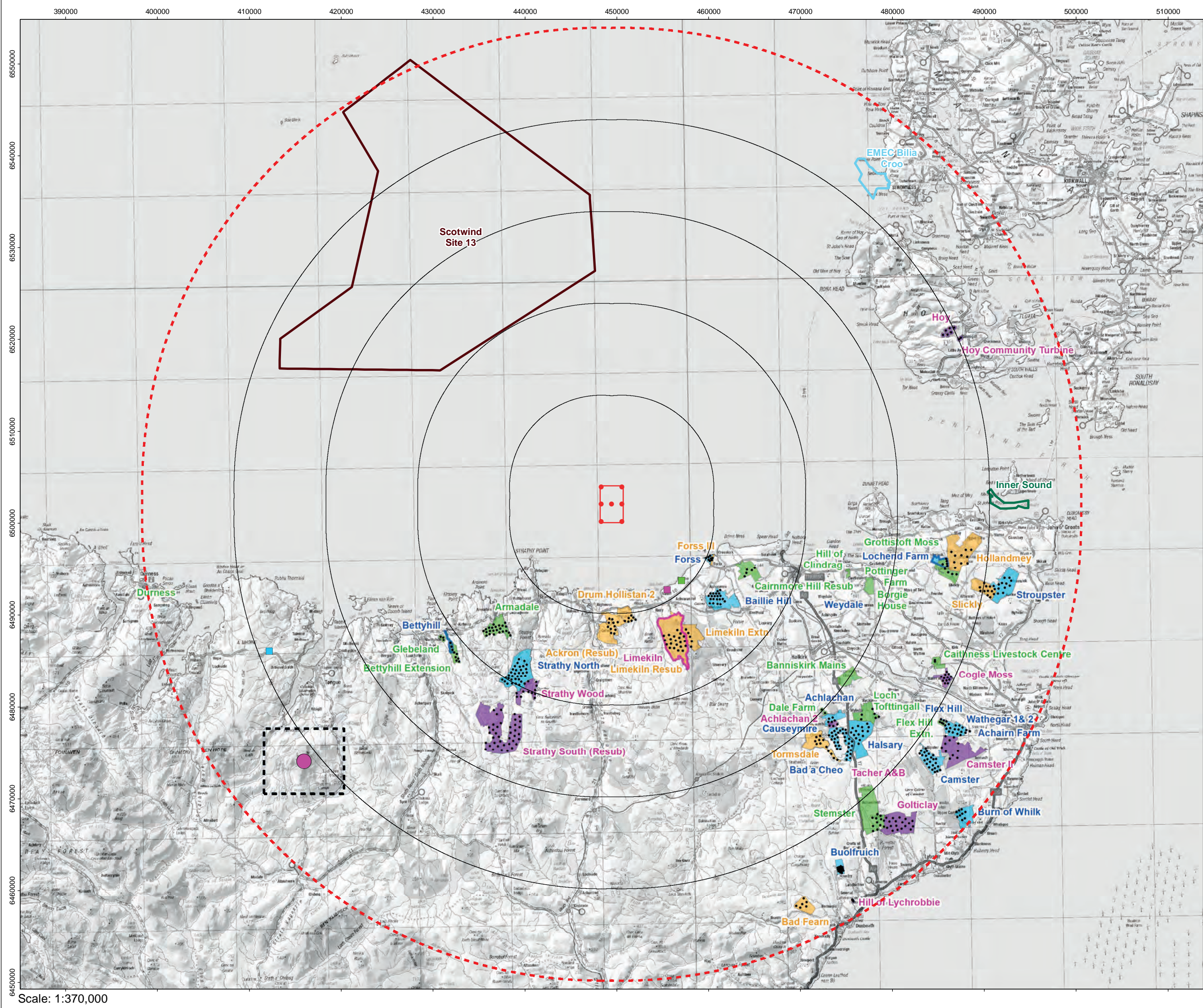
Hill of Lychrobbie (35km) Bad Fearn (29.3km)



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

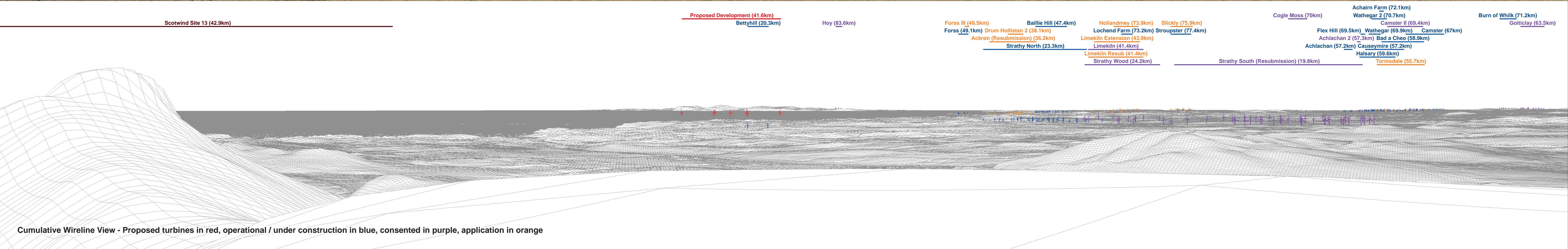






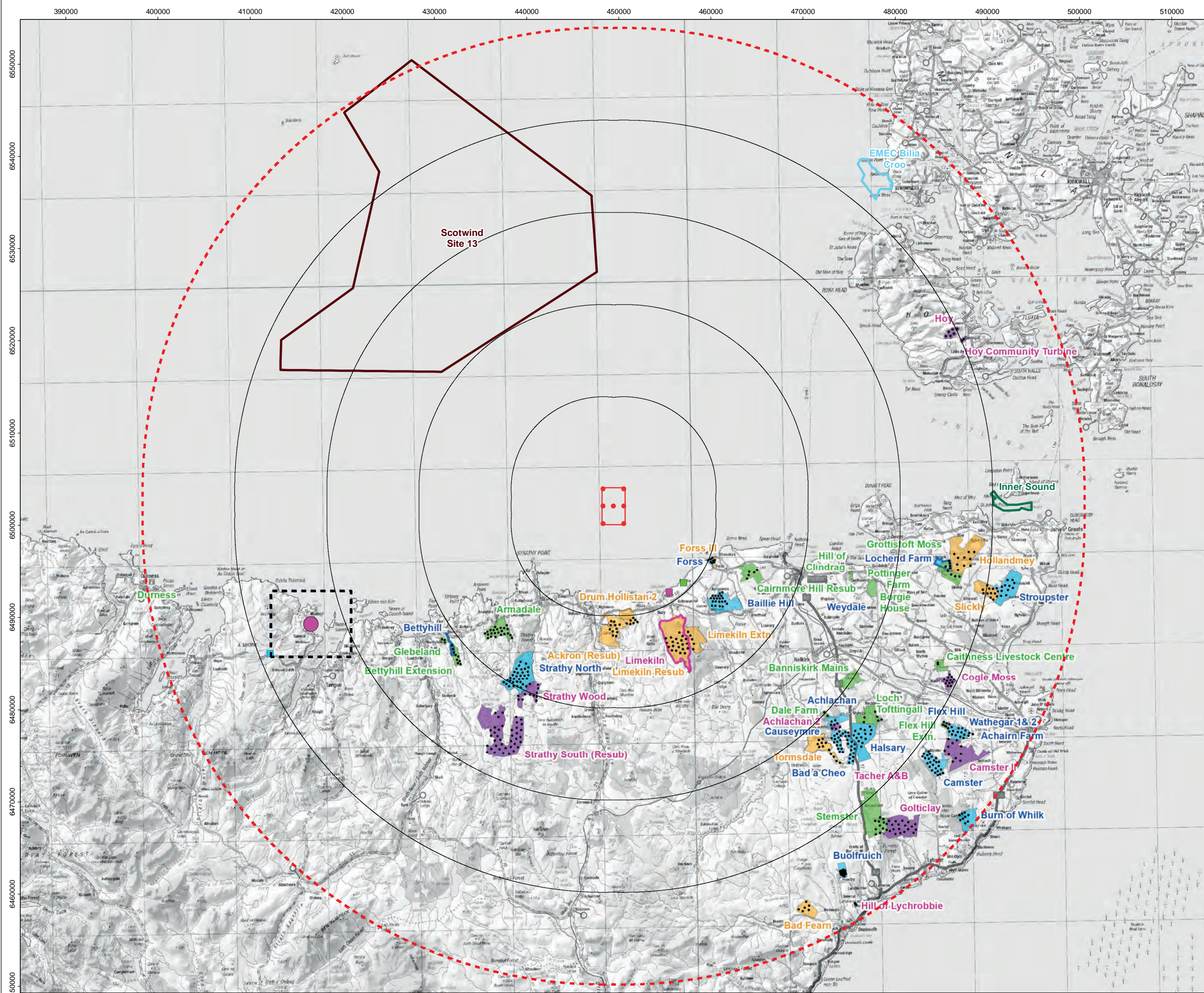


Existing View

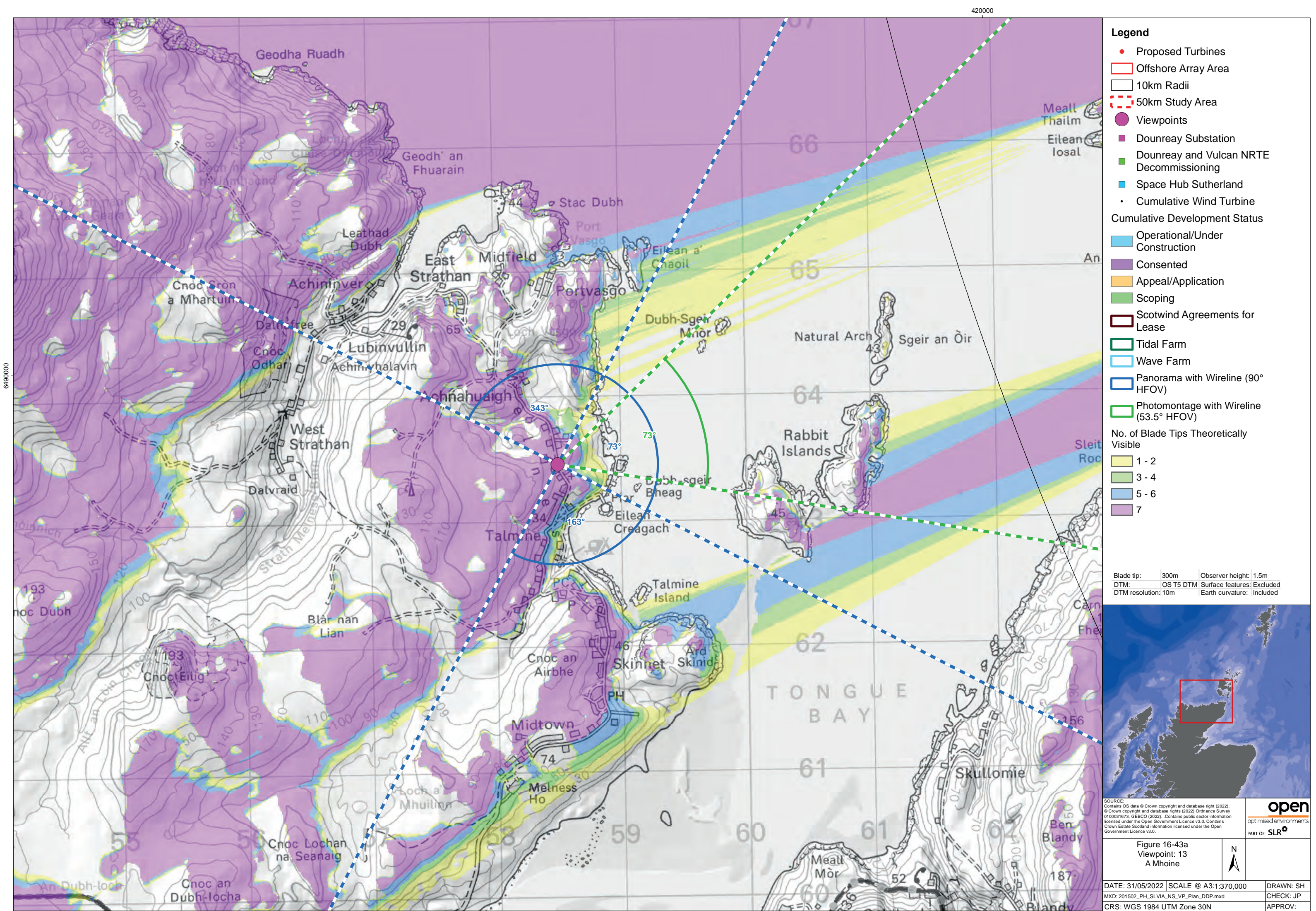


OS reference	257626 E 948257 N	Horizontal field of view	90° (cylindrical projection)	Camera	Nikon D750
Elevation	710.5 m AOD	Principal distance	522 mm	Lens	Nikkor AF-S 50mm f/1.4G
Direction of view	54°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	41,592 m	Correct printed image size	820 x 130 mm	Date & time taken	17/09/2019 10:15

Figure 16.42b
Viewpoint 12: Ben Loyal Panorama with Cumulative Wireline



Scale: 1:370,000



Scale: 1:25,000

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- Photomontage with Wireline (53.5° HFOV)
- No. of Blade Tips Theoretically Visible

No. of Blade Tips Theoretically Visible
1 - 2
3 - 4
5 - 6
7

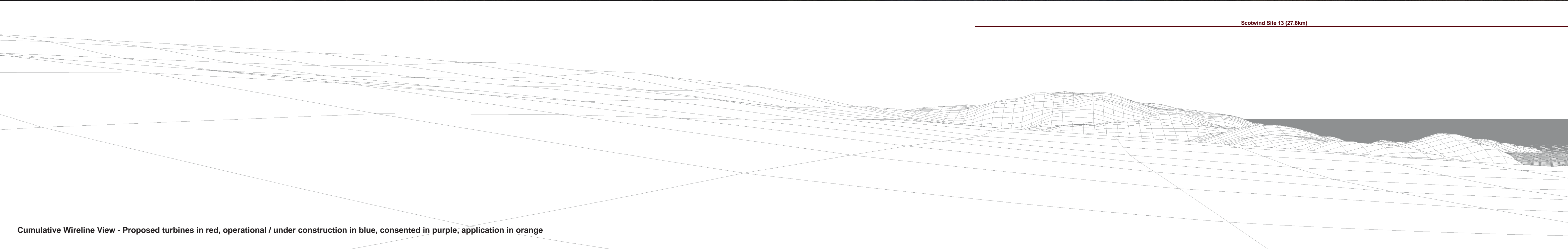
Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

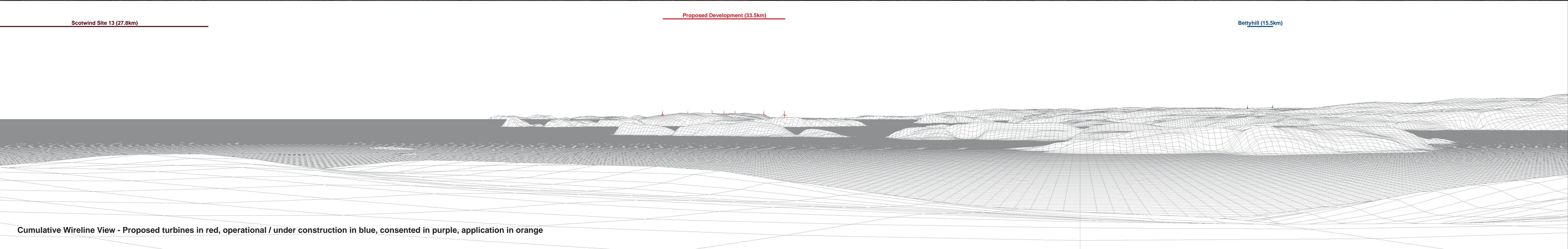
Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

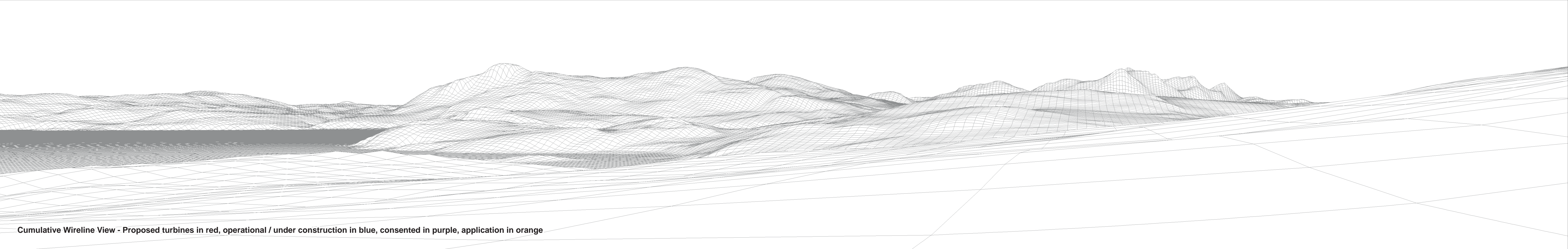
Figure 16-43a
Viewpoint: 13
A Mhoine

DATE: 31/05/2022 SCALE: @ A3:1:370,000 DRAWN: SH
MXD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

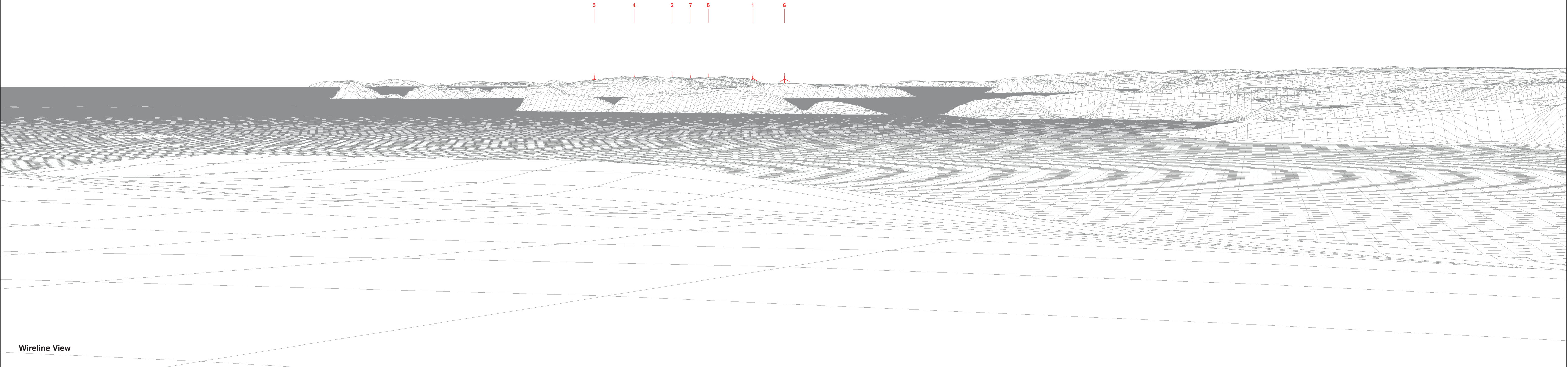
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View flat at a comfortable arm's length



Wireline View

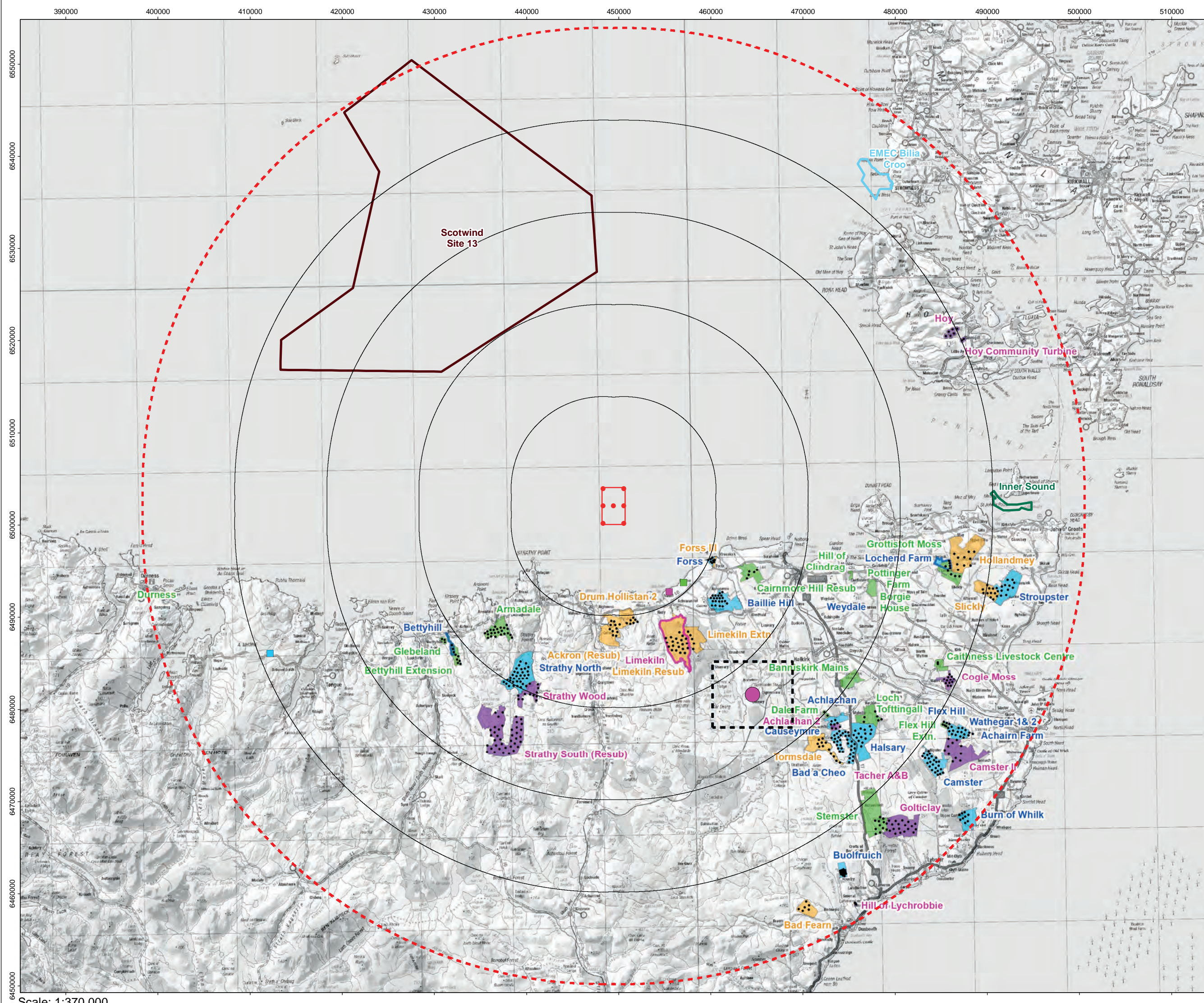


View flat at a comfortable arm's length

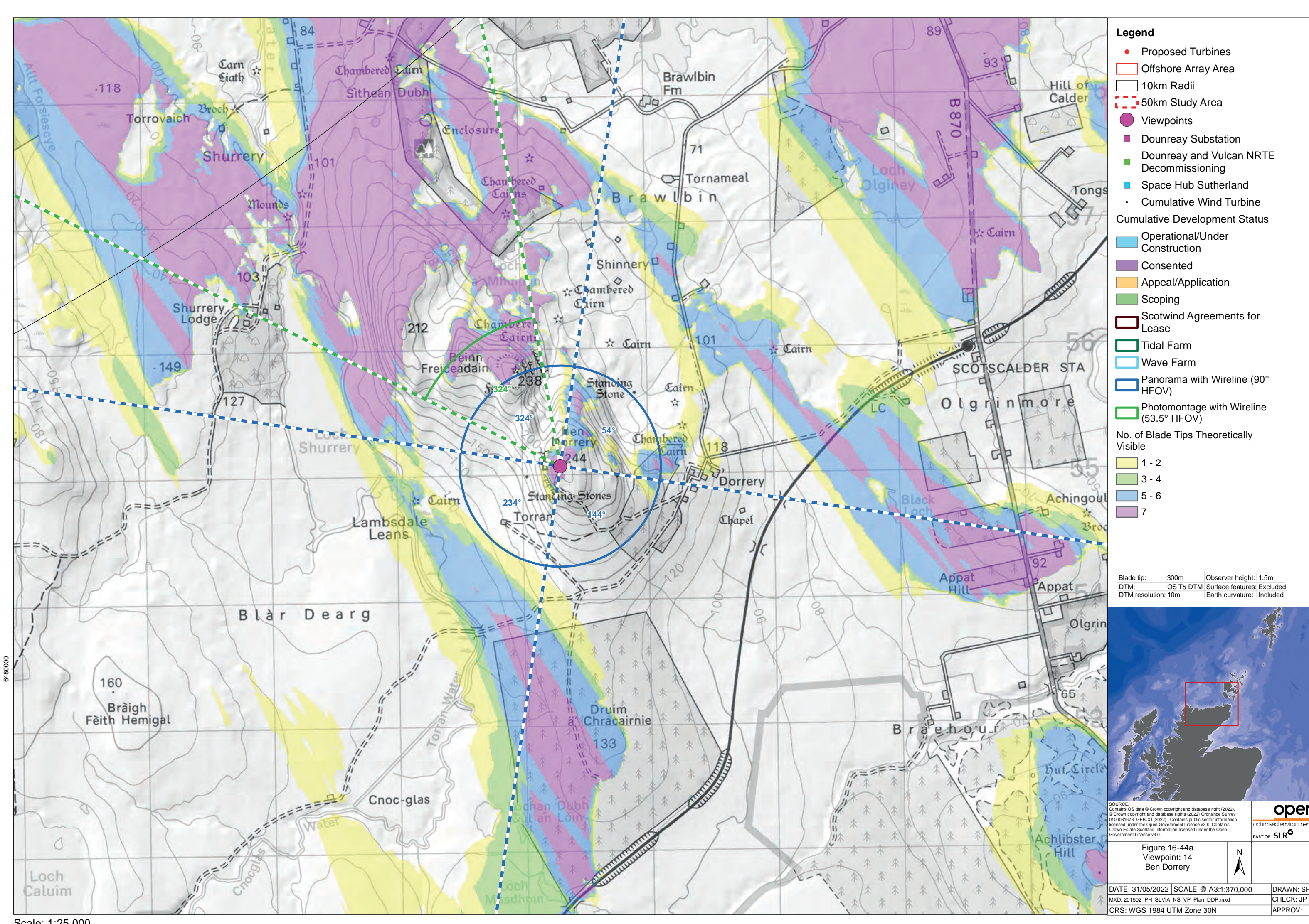
Photomontage

OS reference	258497 E 963460 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II
Elevation	53.5 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4
Direction of view	73°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	33,542 m	Correct printed image size	820 x 260 mm	Date & time taken	09/11/2021 15:10

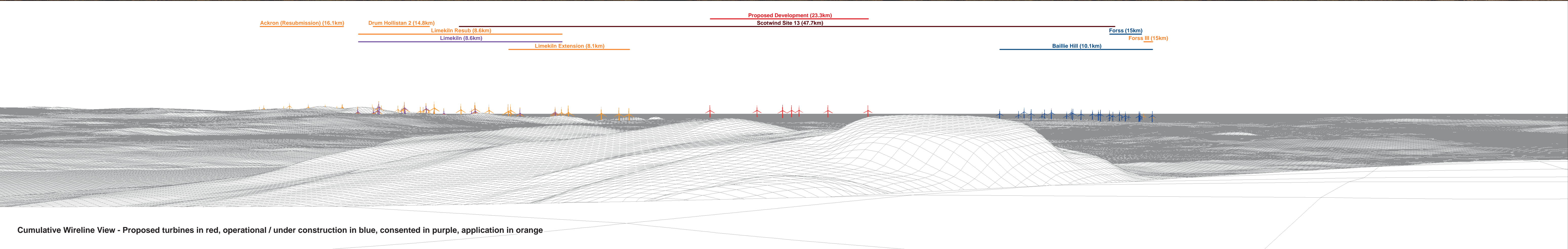
Figure 16.43f
Viewpoint 13: A Mhoine Photomontage



Scale: 1:370,000



Scale: 1:25,000





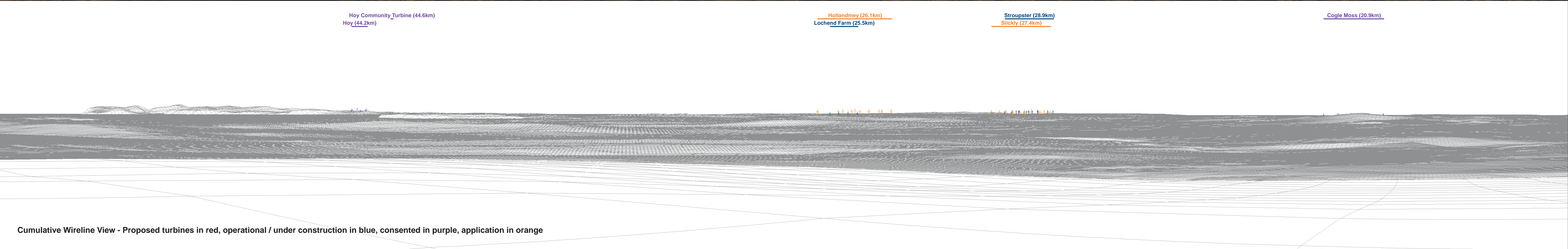
Existing View

Hoy Community_Turbine (44.6km)
Hoy (44.2km)

Hollandmey (26.1km)
Lochend Farm (25.5km)

Stroupster (28.9km)
Slickly (27.4km)

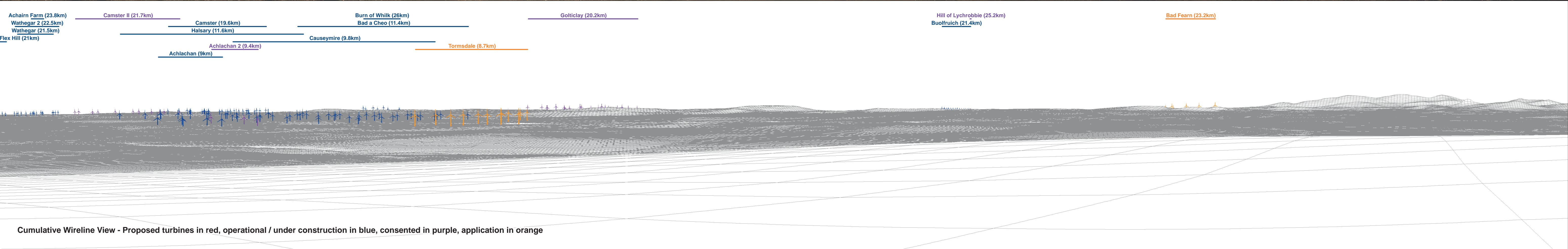
Cogle Moss (20.9km)



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange

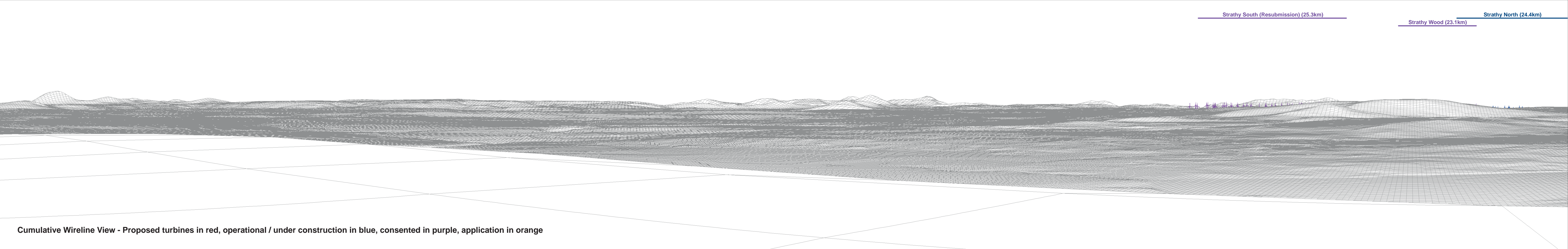
OS reference	306302 E 955068 N	Horizontal field of view	90° (cylindrical projection)	Camera	Canon EOS 5D Mark II
Elevation	242.6 m AOD	Principal distance	522 mm	Lens	Canon EF 50mm f/1.4
Direction of view	54°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL
Nearest turbine	23,252 m	Correct printed image size	820 x 130 mm	Date & time taken	09/11/2021 08:55

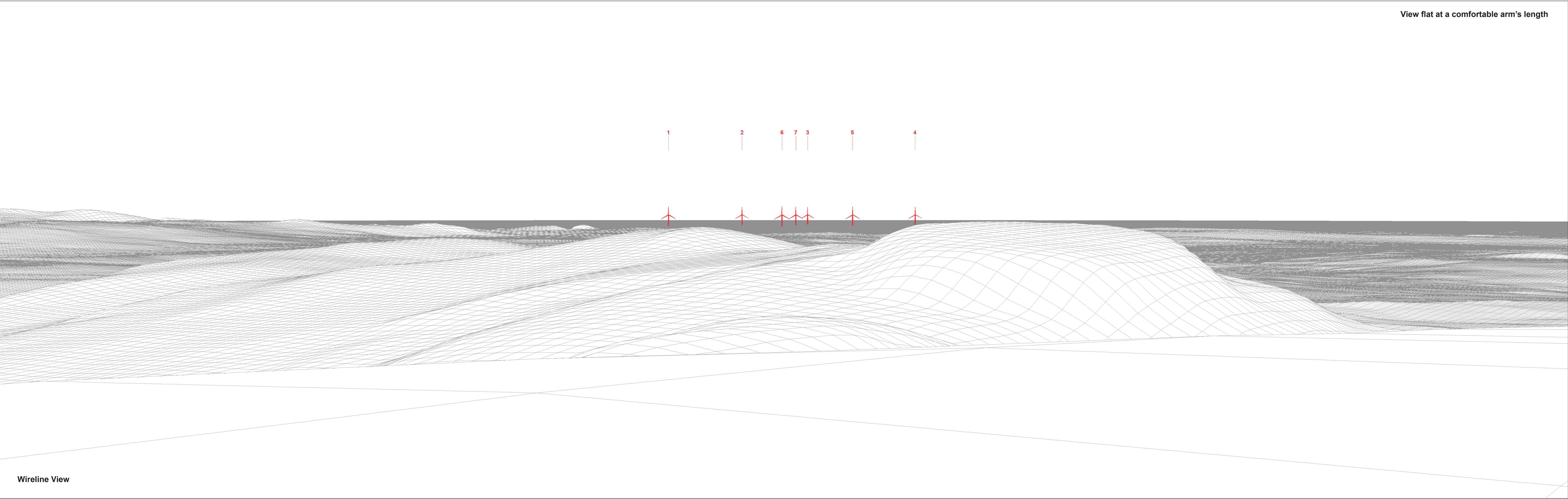
Figure 16.44c
Viewpoint 14: Ben Dorrery Panorama with Cumulative Wireline (view 2 of 4)





Existing View



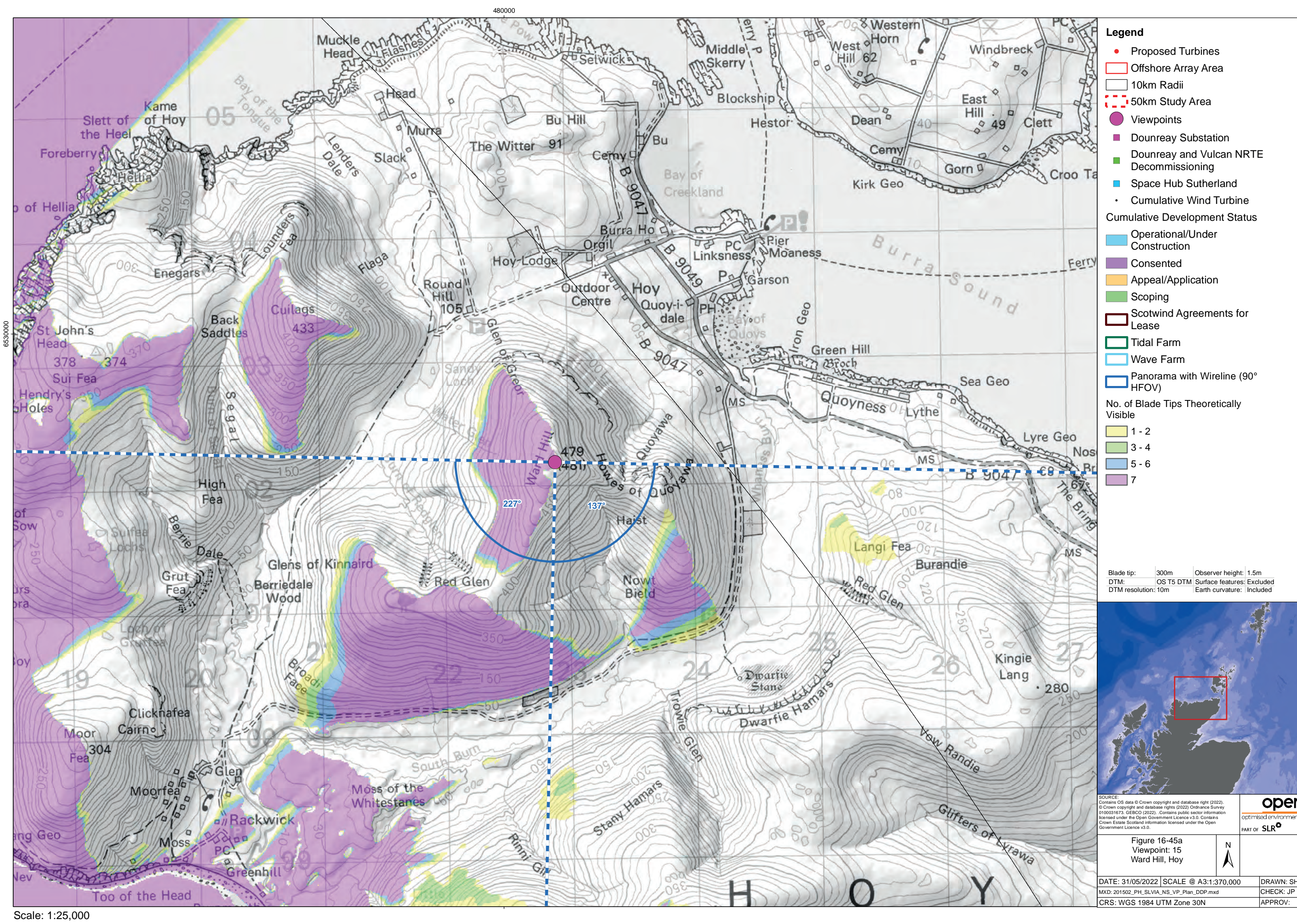
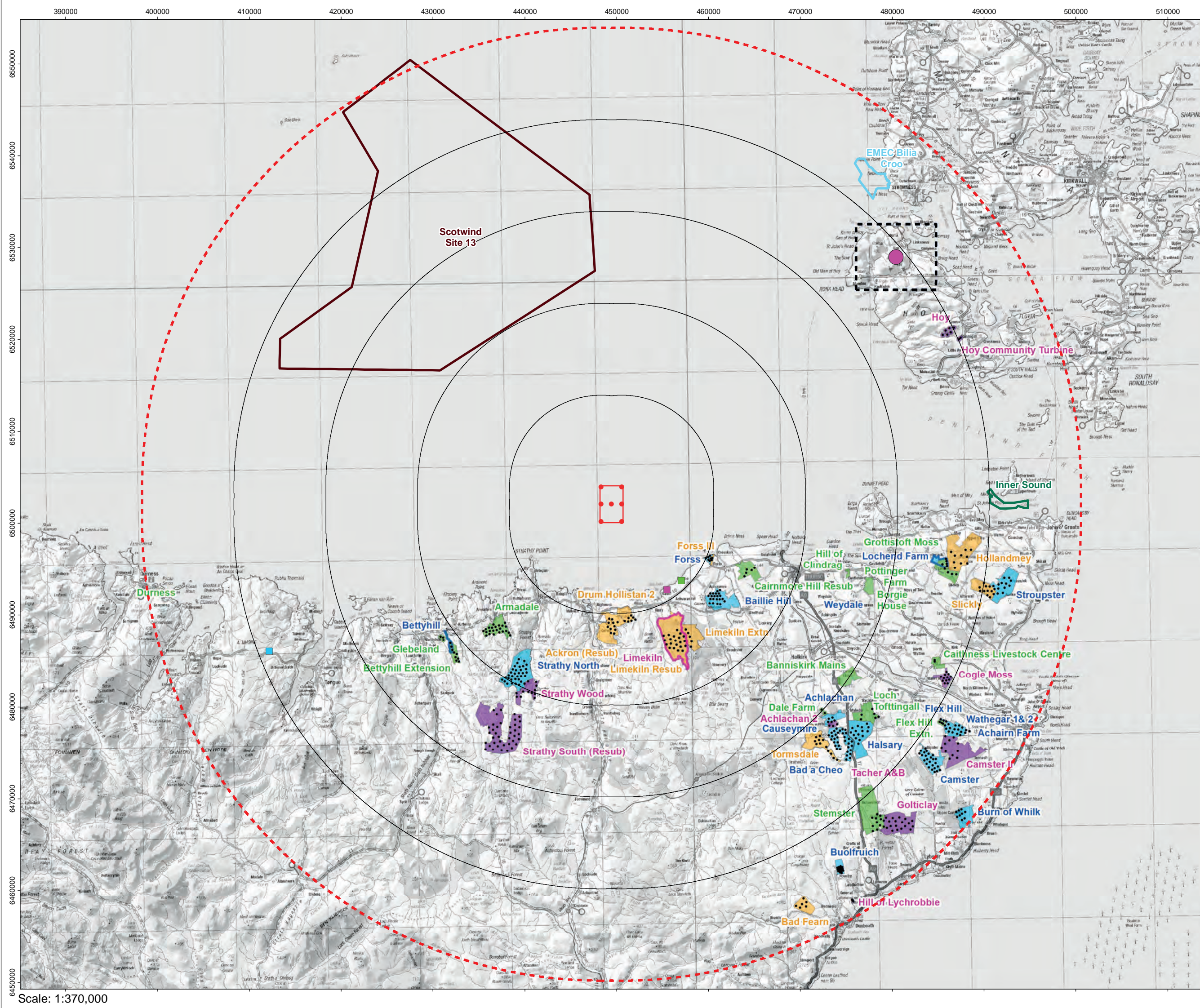




View flat at a comfortable arm's length

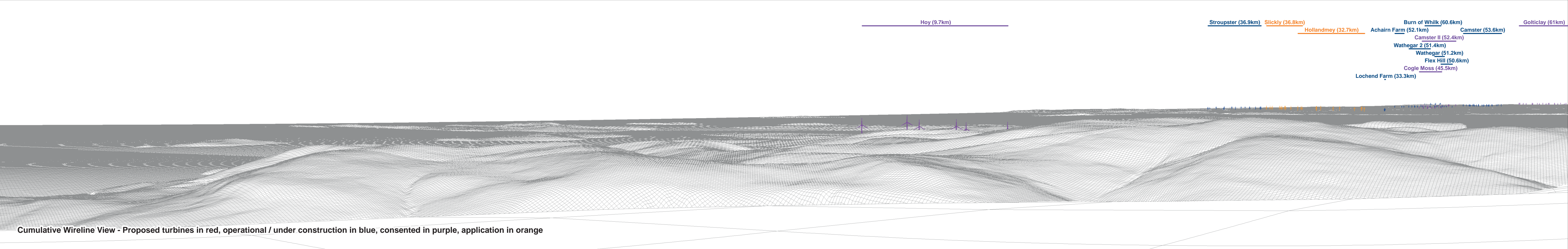
Photomontage

OS reference	306302 E 955068 N	Horizontal field of view	53.5° (planar projection)	Camera	Canon EOS 5D Mark II	Figure 16.44g
Elevation	242.6 m AOD	Principal distance	812.5 mm	Lens	Canon EF 50mm f/1.4	Viewpoint 14: Ben Dorrery Photomontage
Direction of view	324°	Paper size	841 x 297 mm (half A1)	Camera height	1.5m AGL	
Nearest turbine	23,252 m	Correct printed image size	820 x 260 mm	Date & time taken	09/11/2021 08:55	© Crown Copyright and database right (2022). Licence Number 0100031673.





Existing View

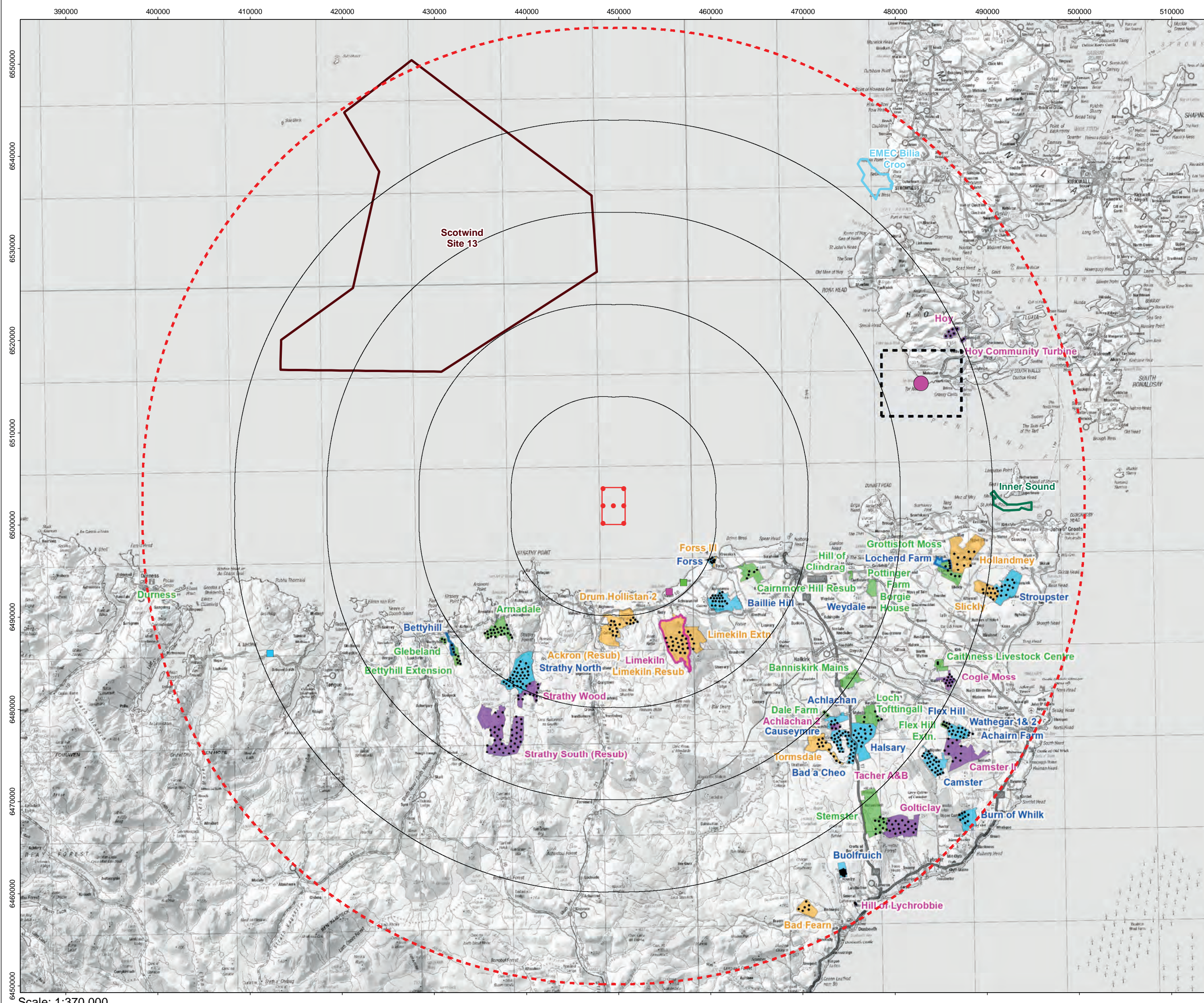




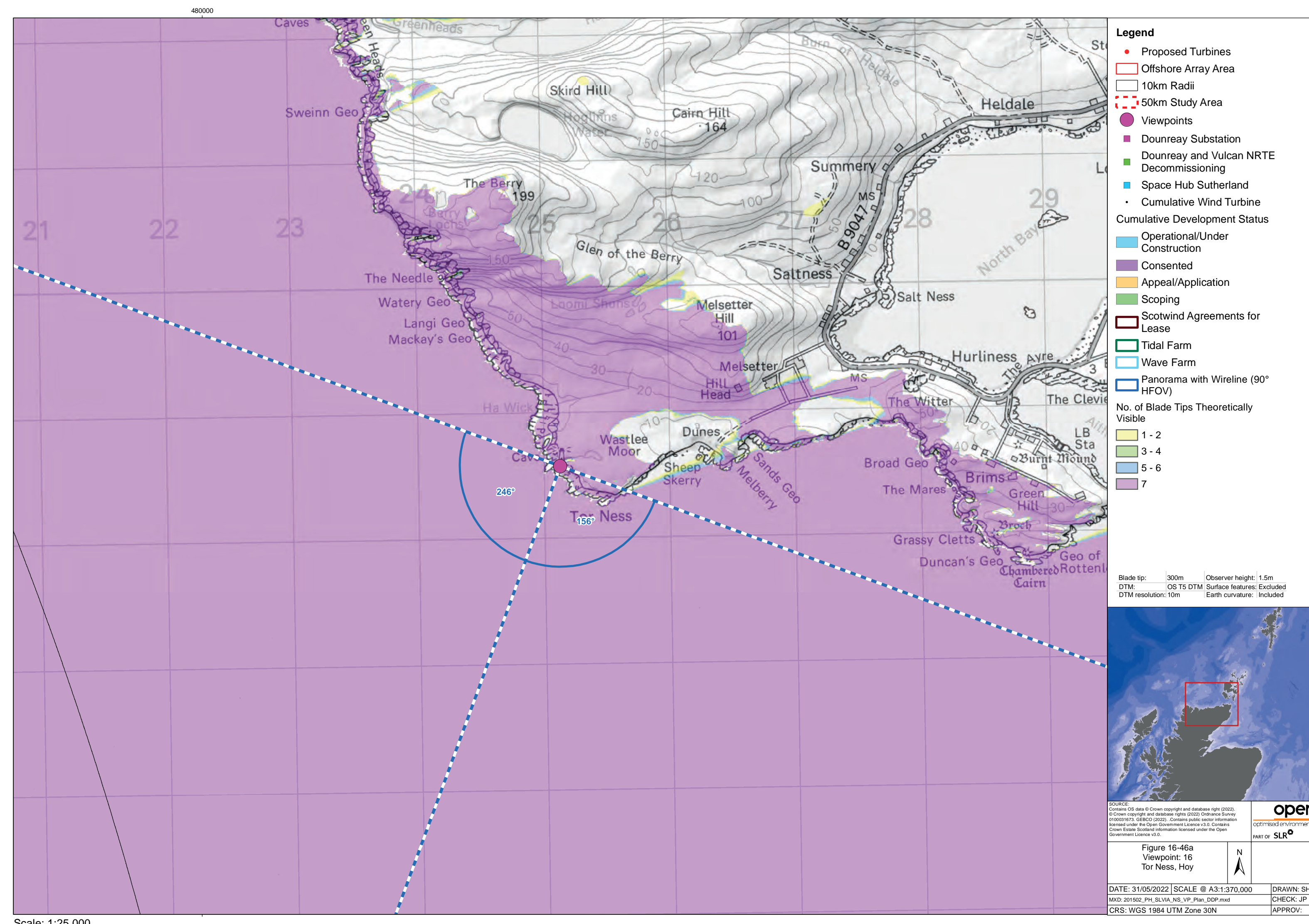
Existing View



Cumulative Wireline View - Proposed turbines in red, operational / under construction in blue, consented in purple, application in orange



Scale: 1:370,000



Scale: 1:25,000

Legend

- Proposed Turbines
- Offshore Array Area
- 10km Radii
- 50km Study Area
- Viewpoints
- Dounreay Substation
- Dounreay and Vulcan N RTE Decommissioning
- Space Hub Sutherland
- Cumulative Wind Turbine
- Cumulative Development Status
- Operational/Under Construction
- Consented
- Appeal/Application
- Scoping
- Scotwind Agreements for Lease
- Tidal Farm
- Wave Farm
- Panorama with Wireline (90° HFOV)
- No. of Blade Tips Theoretically Visible
- 1 - 2
- 3 - 4
- 5 - 6
- 7

Blade tip: 300m
DTM: OS TS DTM
DTM resolution: 10m

Observer height: 1.5m
Surface features: Excluded
Earth curvature: Included

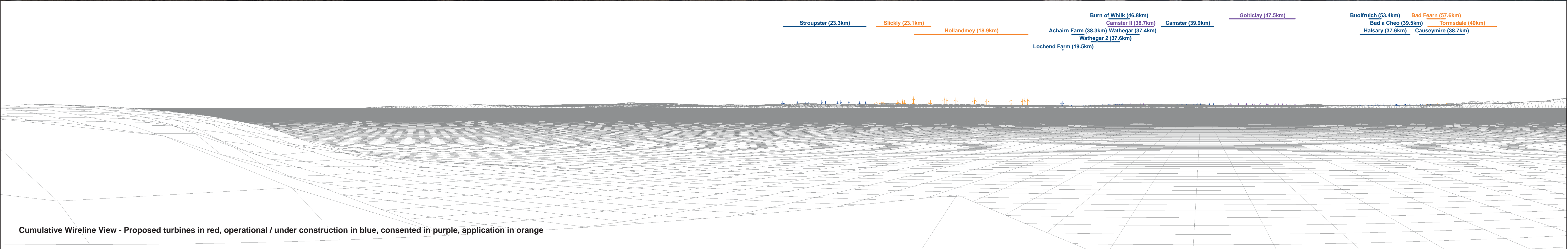
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Figure 16-46a
Viewpoint: 16
Tor Ness, Hoy

DATE: 31/05/2022 SCALE @ A3:1:370,000 DRAWN: SH
MKD: 201502_PH_SLVIA_NS_VP_Plan_DDP.mxd CHECK: JP
CRS: WGS 1984 UTM Zone 30N APPROV:

Existing View





Existing View

