



ElAR Volume 4: Offshore Infrastructure Technical Appendices Appendix 4.3.15-3 SLVIA GIS Figures

Kish Offshore Wind Ltd

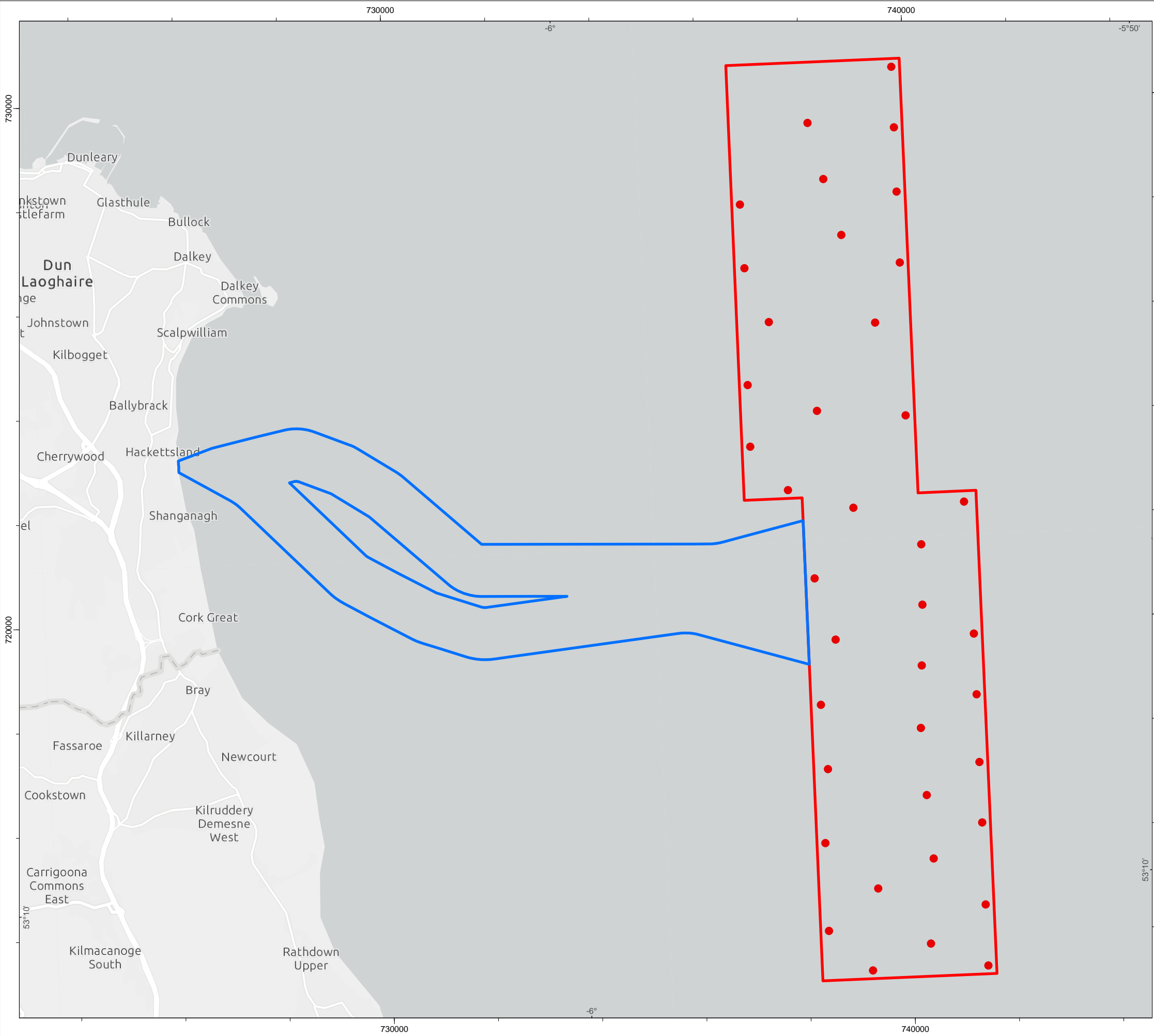
RWE  **SLR** **GoBe**
APEM Group

www.dublinarray-marineplanning.ie



Volume 4, Appendix 4.3.15-3 - SLVIA GIS Figure Schedule

Drawing Number	Drawing Name	Scale (at A3)
3.15.1	SLVIA Array Area	1:75,000
3.15.2	Site Location and SLVIA Study Area	1:470,000
3.15.3	Topography	1:470,000
3.15.4	Seascape Character	1:470,000
3.15.5a	Landscape Character	1:470,000
3.15.5b	Landscape Character Key	NTS
3.15.6	Landscape Designations	1:470,000
3.15.7	Viewpoints	1:250,000
3.15.8	Visual Receptors	1:470,000
3.15.9a	Blade Tip ZTV - 50km Study Area	1:470,000
3.15.9b	Blade Tip ZTV - 50km Study Area - North	1:120,000 (at A1)
3.15.9c	Blade Tip ZTV - 50km Study Area - South	1:120,000 (at A1)
3.15.10a	Hub Height ZTV - 50km Study Area	1:470,000
3.15.10b	Hub Height ZTV - 50km Study Area - North	1:120,000 (at A1)
3.15.10c	Hub Height ZTV - 50km Study Area - South	1:120,000 (at A1)
3.15.11a	Horizontal Angle ZTV - North	1:120,000 (at A1)
3.15.11b	Horizontal Angle ZTV - South	1:120,000 (at A1)
3.15.12a	Blade Tip ZTV with Seascape Character - North	1:120,000 (at A1)
3.15.12b	Blade Tip ZTV with Seascape Character - South	1:120,000 (at A1)
3.15.13a	Blade Tip ZTV with Landscape Character - North	1:120,000 (at A1)
3.15.13b	Blade Tip ZTV with Landscape Character - South	1:120,000 (at A1)
3.15.14a	Blade Tip ZTV with Landscape Designations - North	1:120,000 (at A1)
3.15.14b	Blade Tip ZTV with Landscape Designations - South	1:120,000 (at A1)
3.15.15a	Blade Tip ZTV with Visual Receptors - North	1:120,000 (at A1)
3.15.15b	Blade Tip ZTV with Visual Receptors - South	1:120,000 (at A1)
3.15.16	Cumulative Projects	1:470,000
3.15.17	Cumulative ZTV with Arklow Bank Phase 1	1:470,000
3.15.18	Cumulative ZTV with Arklow Bank Phase 2	1:470,000
3.15.19	Cumulative ZTV with Codling Wind Park	1:470,000
3.15.20	Cumulative ZTV with North Irish Sea Array	1:470,000
3.15.23	Marine Navigation Lighting ZTV	1:235,000 (at A1)
3.15.24	Comparative ZTV - Layout 1 and Layout 2	1:470,000
3.15.25	Comparative ZTV - Layout 1 and Layout 3	1:470,000
3.15.27	Baseline Lighting	1:235,000 (at A1)
3.15.28	Hub Aviation Lighting ZTV	1:235,000 (at A1)



- Proposed WTGs
- ▭ Array Area
- ▭ Export Cable Corridor

DRAWING STATUS

FINAL

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PROJECT TITLE

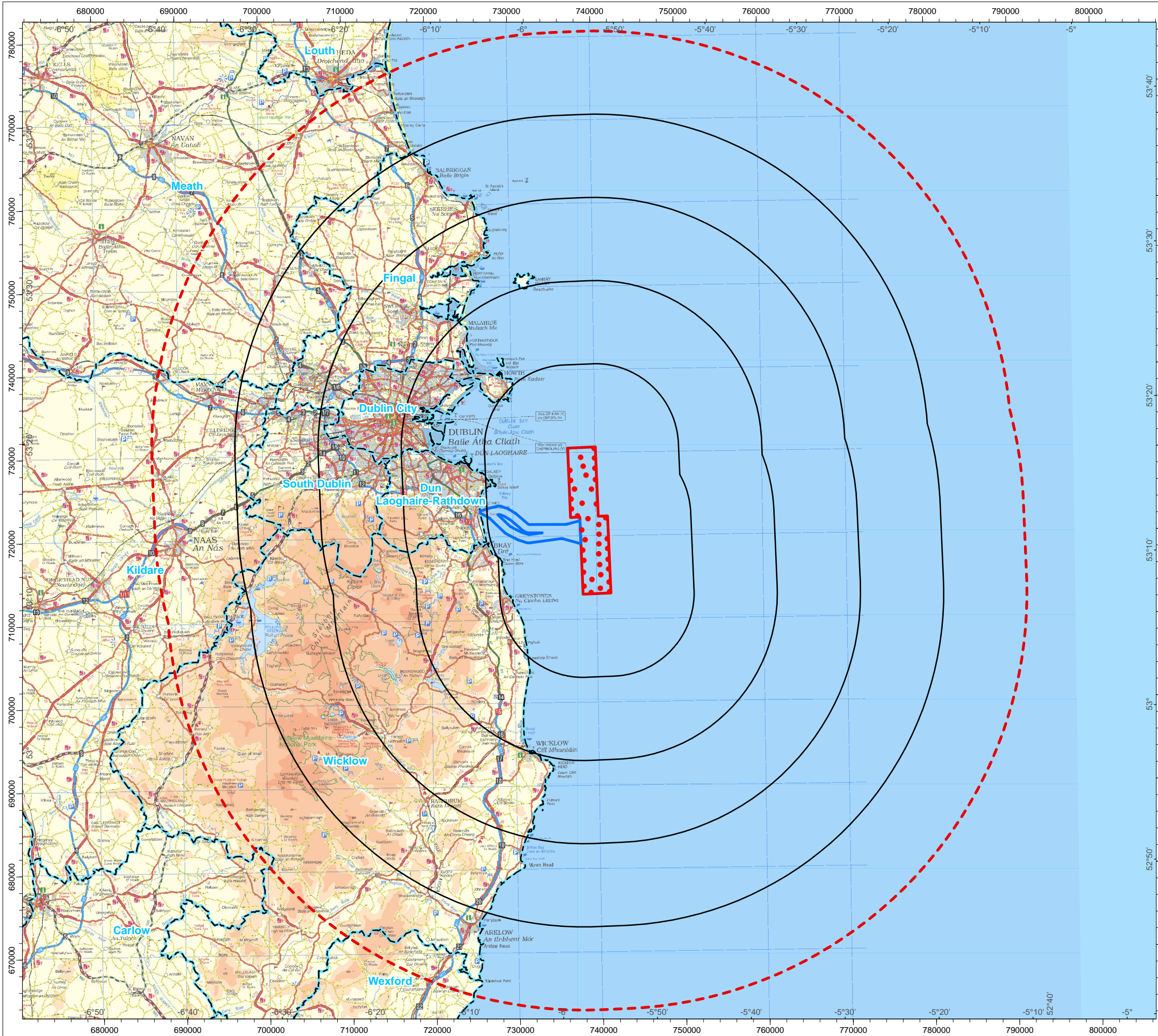
Dublin Array

DRAWING TITLE

SLVIA Array Area

DRAWING NUMBER: 3.15.1			PAGE NUMBER: 1 of 1		
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02	2024-09-05	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####





- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- County Boundary

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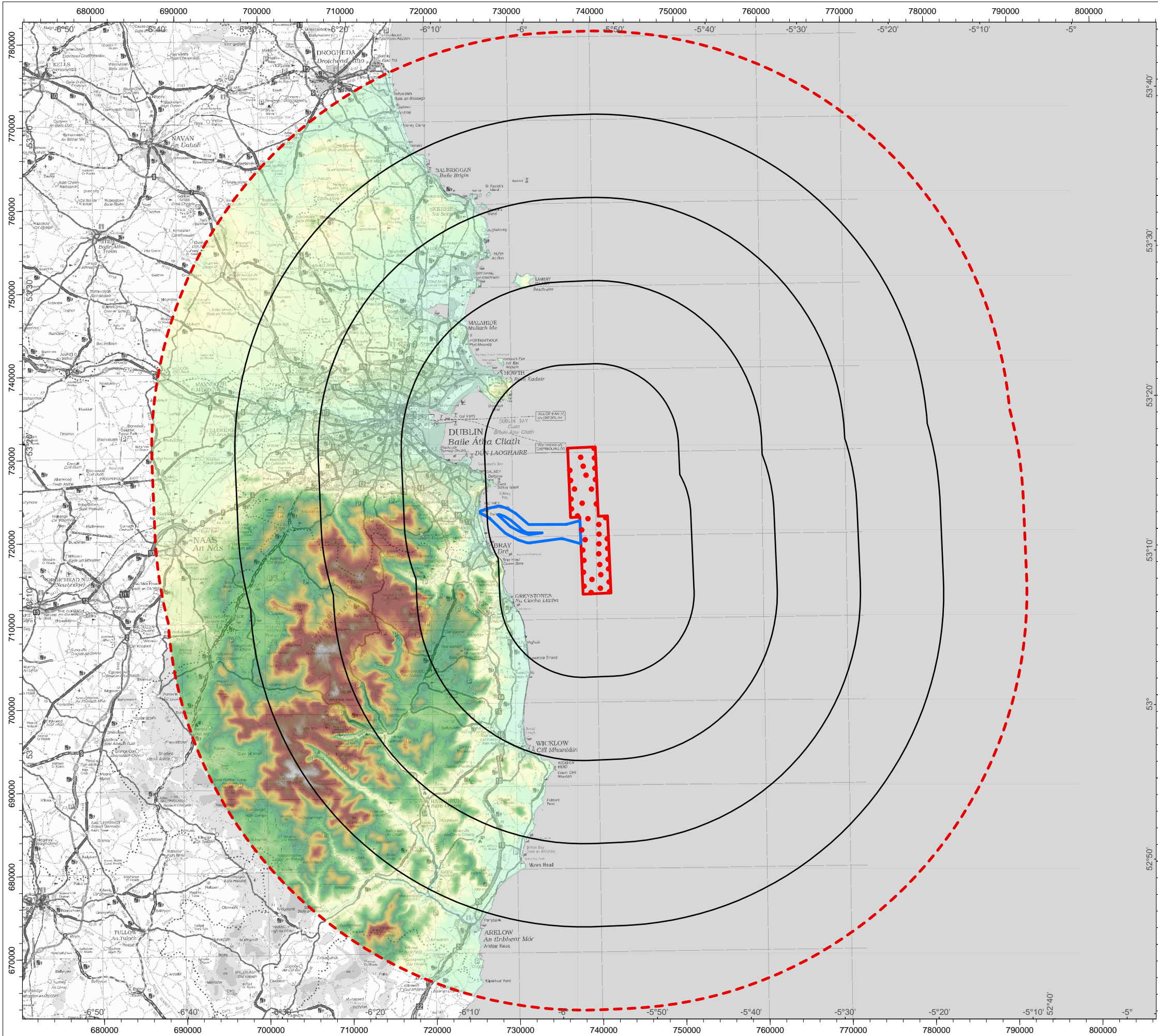
Dublin Array

DRAWING TITLE

Site Location and SLVIA Study Area

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3.15.2			1 of 1		
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02	2024-09-05	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####





• Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

OSI Series 1 Digital Terrain Model

Elevation (m)

919.977

-26.043

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Topography

DRAWING NUMBER: 3.15.3			PAGE NUMBER: 1 of 1		
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0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

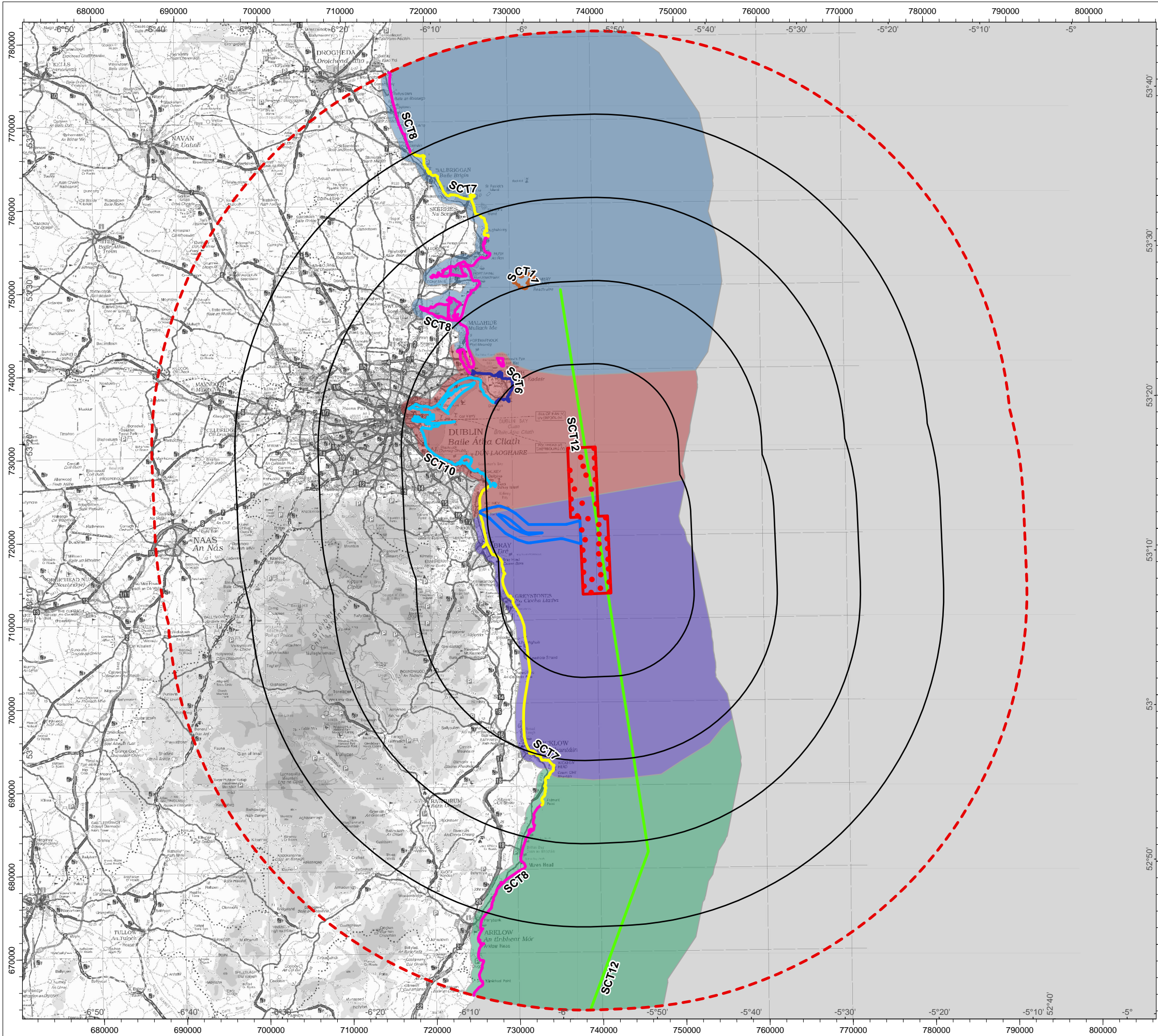
SCALE 1:470,000

PLOT SIZE A3

DATUM WGS 1984

VERTICAL REF. DATUM

PRJ WGS 1984 UTM Zone 29N



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Seascape Character Type

Source: *Regional Seascape Character Assessment for Ireland 2020*

SCT6. High Granite/Sandstone Cliffs And Plateau

SCT7. Broad Estuarine Bays And Complex Low Plateau And Cliff Coastline

SCT8. Low Lying And Estuarine Coastal Plain With Long, Narrow Sandy Beaches

SCT10. Modified Historic Urban Bay

SCT11. Large Islands

SCT12. Shallow Offshore Waters

Seascape Character Area

Source: *Regional Seascape Character Assessment for Ireland 2020*

SCA13. South East Irish Sea

SCA14. Irish Sea, Sandbanks And Broad Bays

SCA15. Dublin Bay

SCA16. Northeastern Irish Sea Islands And Beaches

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Seascape Character

DRAWING NUMBER: 3.15.4

PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-05	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

GRID NORTH

SCALE 1:470,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

VERTICAL REF. CON/LAT/MLLW

open

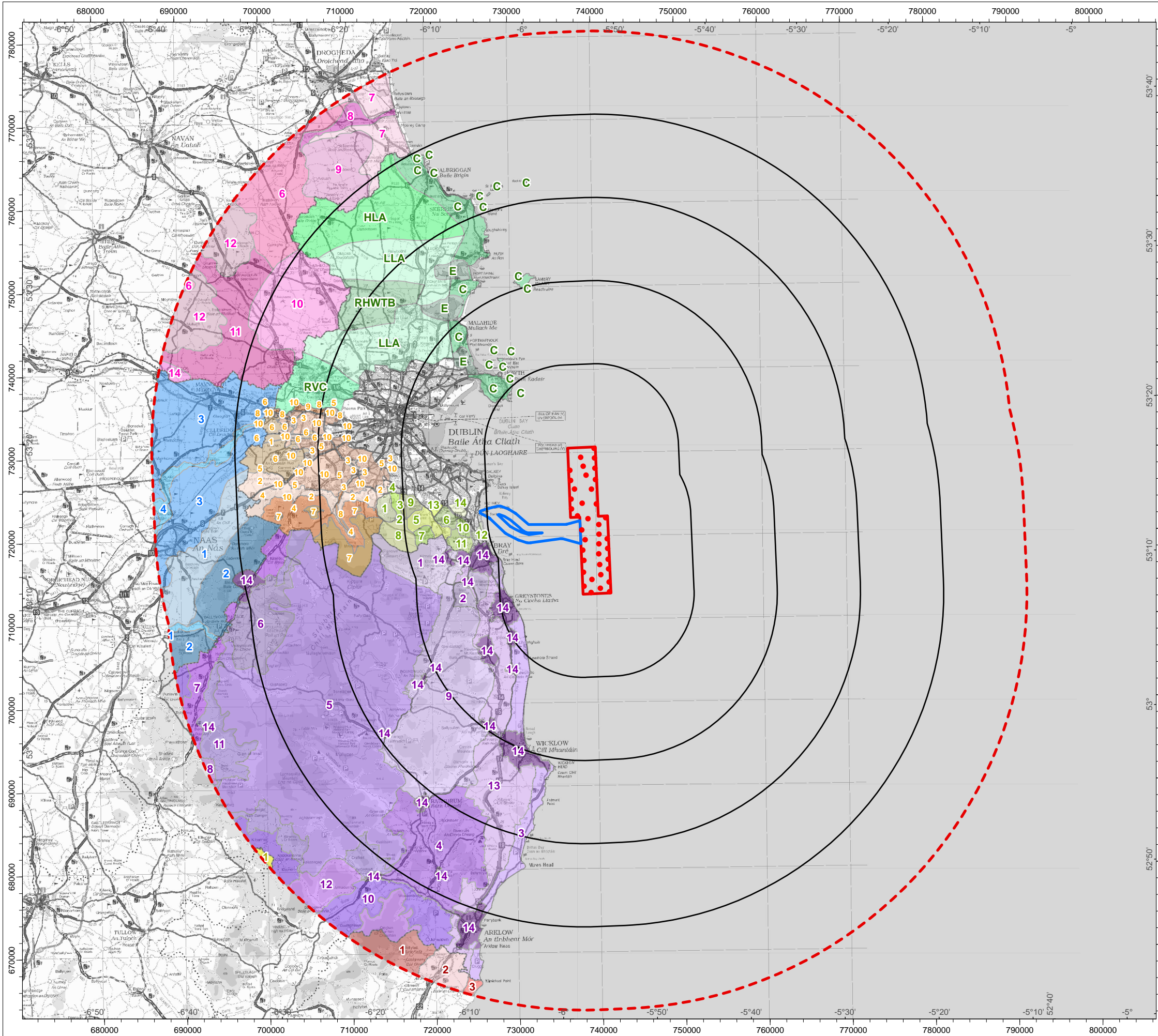
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor

For Landscape Character key see Figure 3.15.5b

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Landscape Character

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3.15.5a

PAGE NUMBER:

1 of 1

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0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

GRID NORTH

SCALE 1:470,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

VERTICAL REF. DATUM IRL/MLLW

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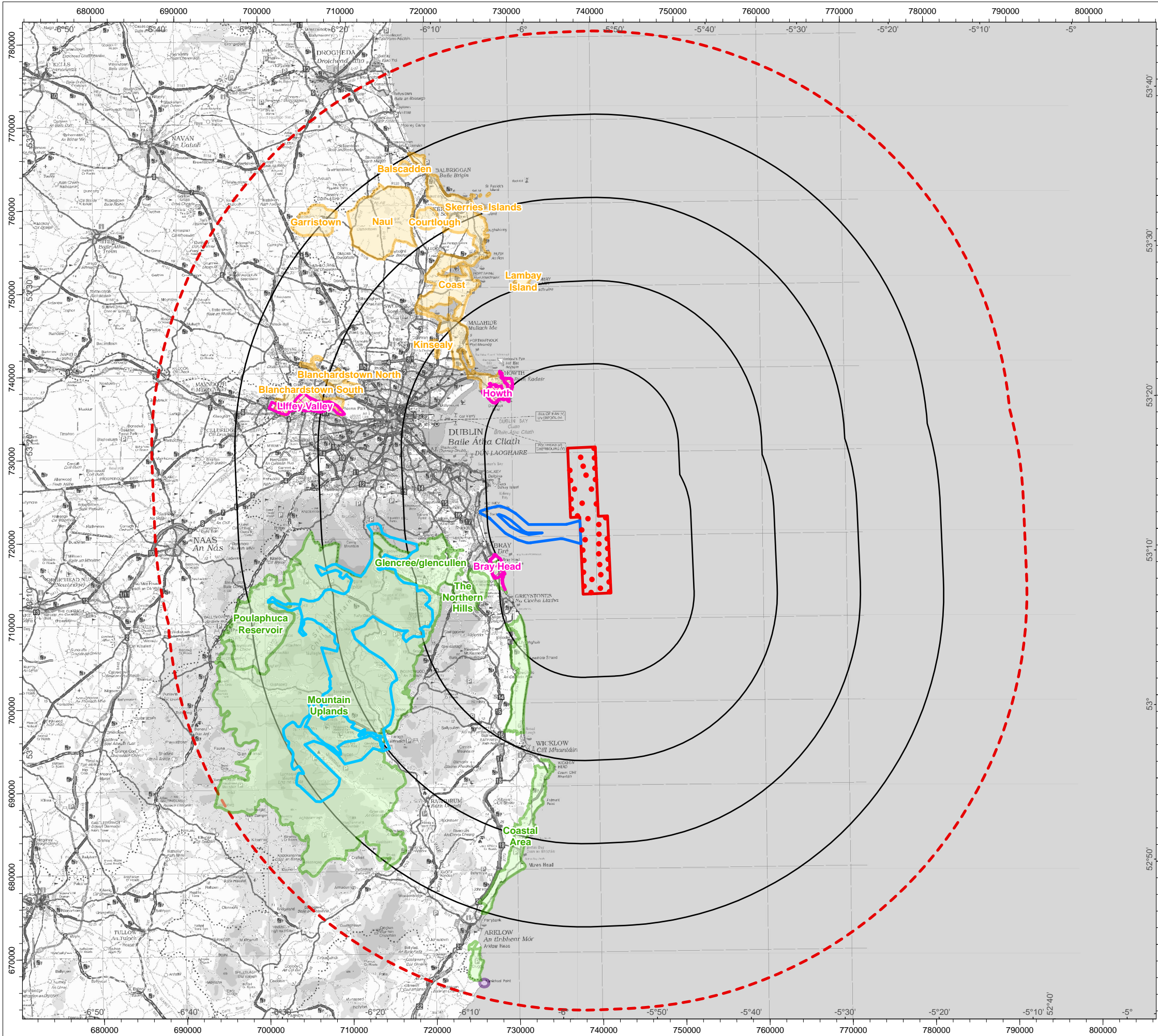
optimised environments

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DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Wicklow Mountains National Park
- Special Amenity Area Order
- Fingal Highly Sensitive Landscape Areas
- Wexford Distinctive Landscape - Kilmichael Point
- Wicklow Area of Natural Beauty

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Landscape Designations

DRAWING NUMBER:			PAGE NUMBER:		
3.15.6			1 of 1		
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SCALE 1:470,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

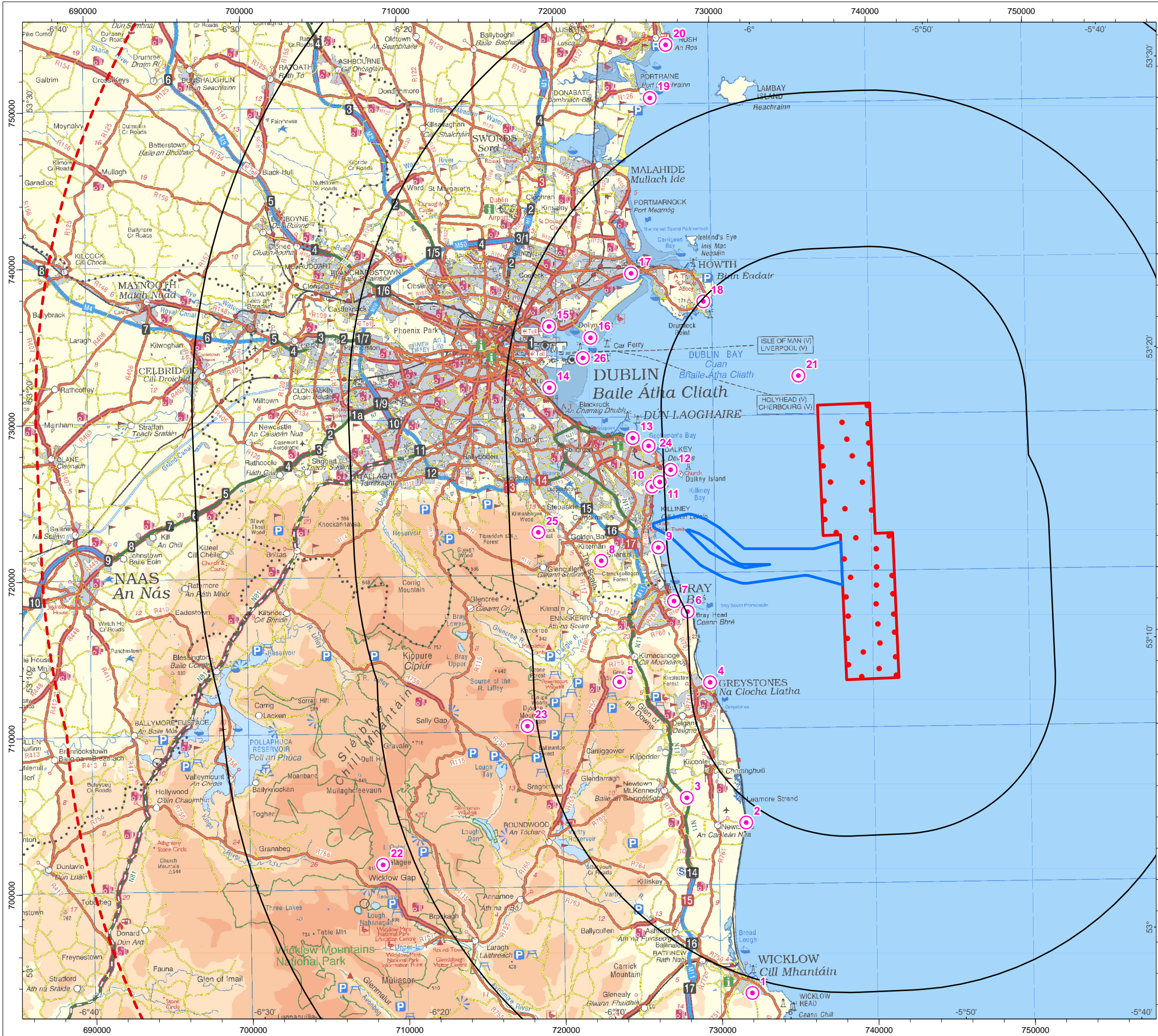
VERTICAL REF. DATUM/MLLW

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Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
 - Array Area
 - 10km Radii
 - 50km Study Area
 - Export Cable Corridor
 - Viewpoint
- Scenic Car Park, Wicklow Town
 - Six Mile Point, Newcastle
 - N11 road near Kilmullin
 - Greystones Harbour
 - Sugar Loaf Mountain
 - Bray Head walkway
 - Bray Promenade
 - Hill at Carrick Gollogan, near Shankill
 - Shankill Beach
 - Killiney Hill Obelisk
 - Vico Road seating area
 - Coliemore Harbour seating area
 - Dun Laoghaire Harbour East Pier
 - R131 near Martello Tower, Sandymount
 - Promenade near Clontarf village
 - Near the Bull Wall, North Bull Island
 - R105, Sutton
 - Howth Head
 - Car park near Martello Tower, Portrane
 - Tayleur's Point_Rush
 - Offshore view 7km south-east of Howth Head
 - Tonelagee
 - Djouce Mountain
 - Forty Feet
 - Balleymonduff
 - Poolbeg Pier

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Viewpoints

DRAWING NUMBER:

3.15.7

PAGE NUMBER:

1 of 1

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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

GRID NORTH

SCALE 1:250,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

VERTICAL REF. EDN/LAT/MLLV

open

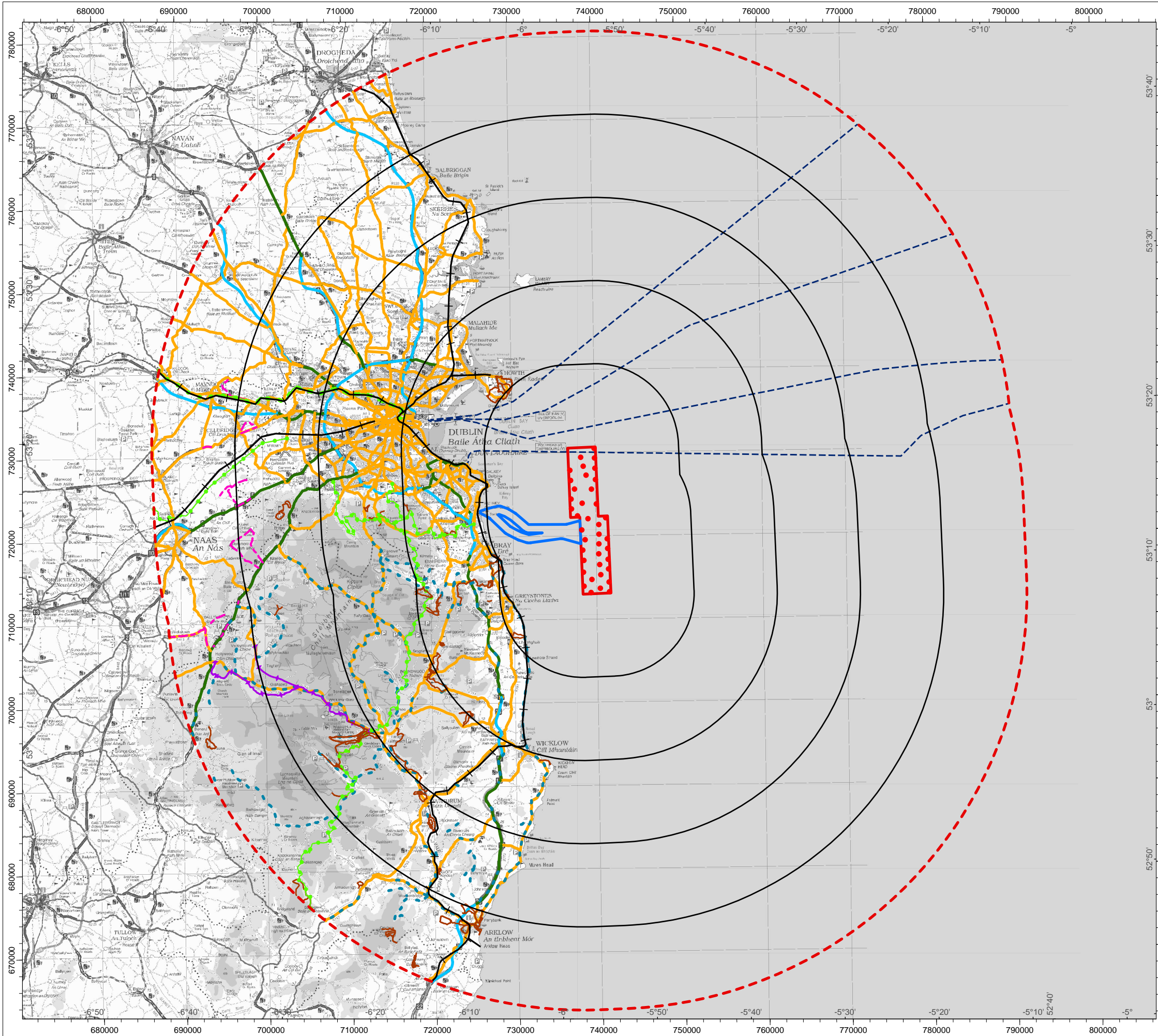
optimised environments

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DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Kildare Scenic Route
- Wicklow Prospects
- Long Distance Waymarked Way
- Pilgrim Path
- Walking Trail
- Railway
- Motorway
- National Route
- Regional Route
- Ferry Crossing

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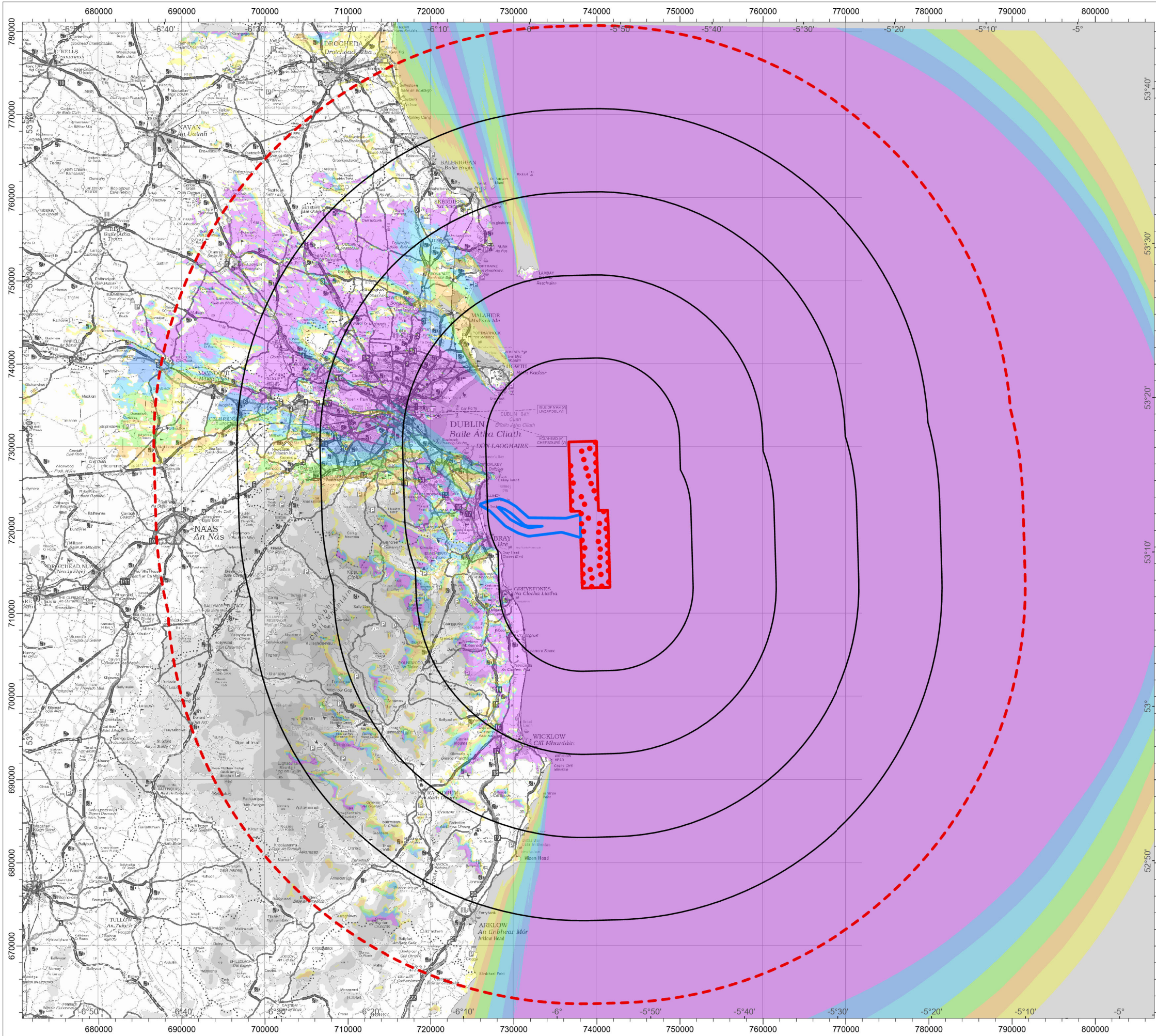
Dublin Array

DRAWING TITLE

Visual Receptors

DRAWING NUMBER: 3.15.8			PAGE NUMBER: 1 of 1		
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####





Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Blade Tip ZTV

No. of Turbines Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Blade tip:

309.6m above LAT

Observer height:

2m

DTM:

OSI Series 1 DTM

Surface features:

Excluded

DTM resolution:

10m

Earth curvature:

Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Blade Tip ZTV - 50km Study Area

DRAWING NUMBER:

3.15.9a

PAGE NUMBER:

1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

SCALE 1:470,000

DATUM IRENET95

PRJ IRENET95 Irish Transverse Mercator

PLOT SIZE A3

VERTICAL REF. ODMLAT/MLLV

open

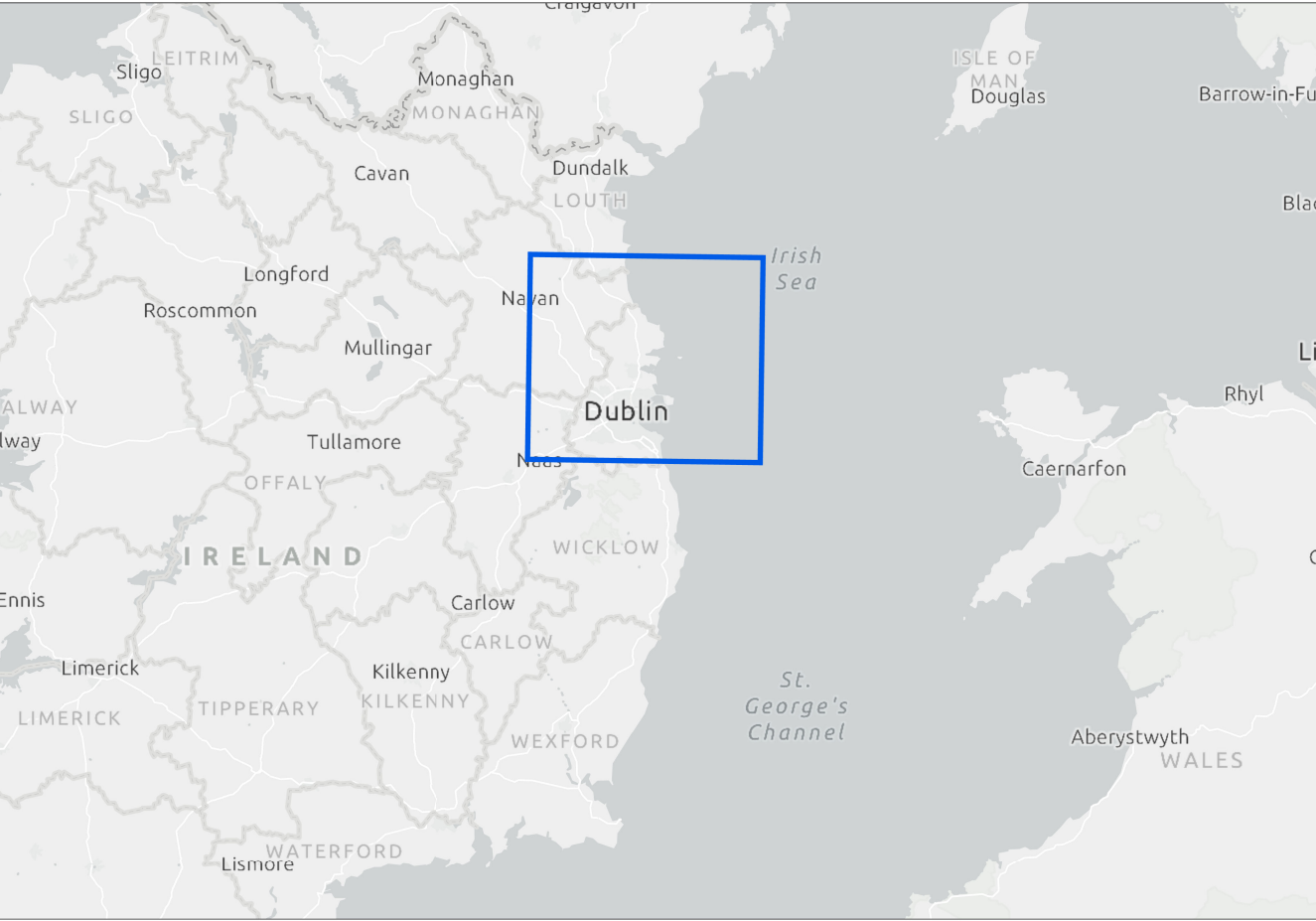
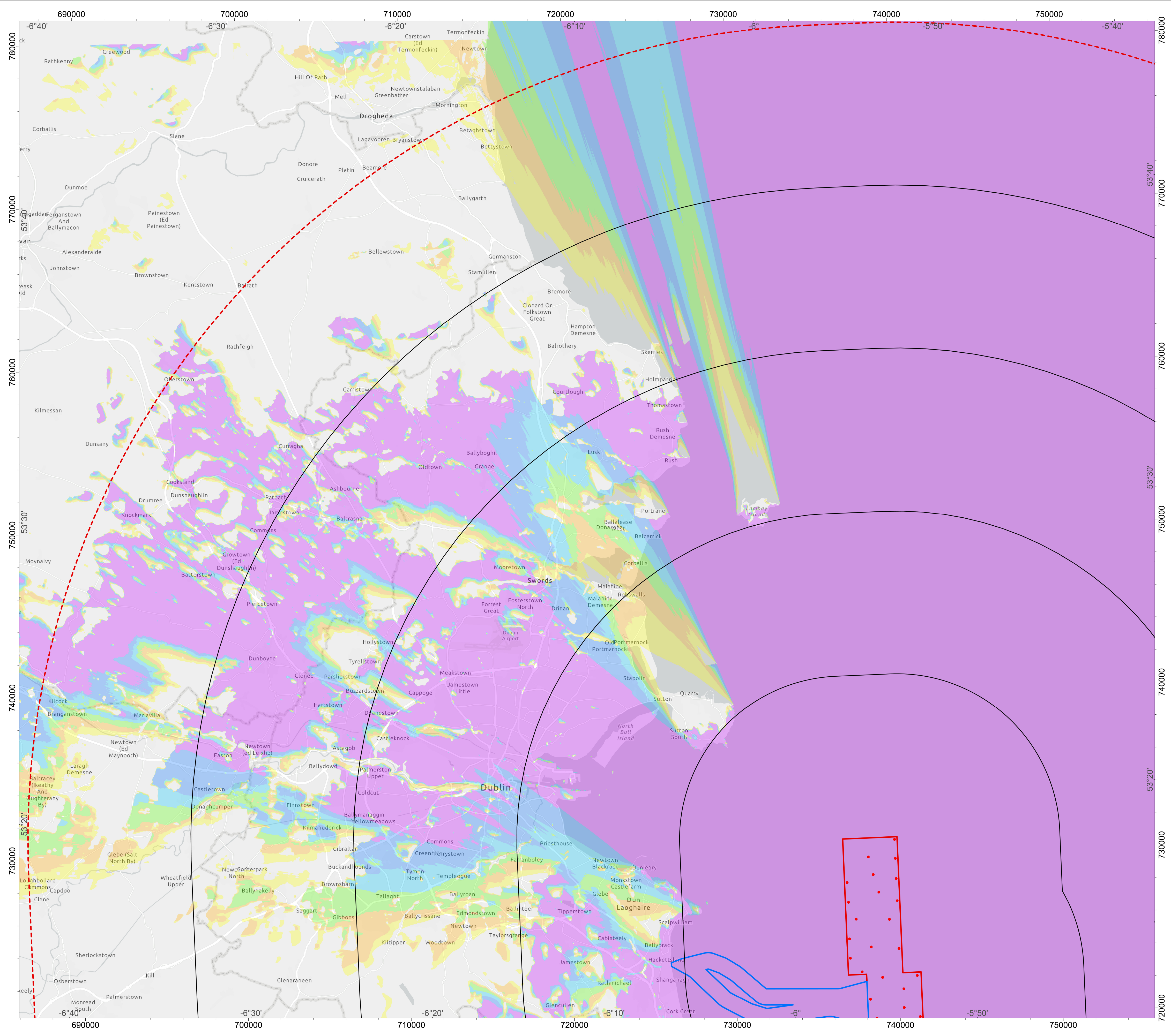
optimised environments

PART OF SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



• Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Blade Tip ZTV

No. of Blade Tips Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Blade Tip ZTV - 50km Study Area - North

DRAWING NUMBER: 3.15.9b			PAGE NUMBER: 1 of 1		
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

ORIG NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DDN/LAT/MLLW

open

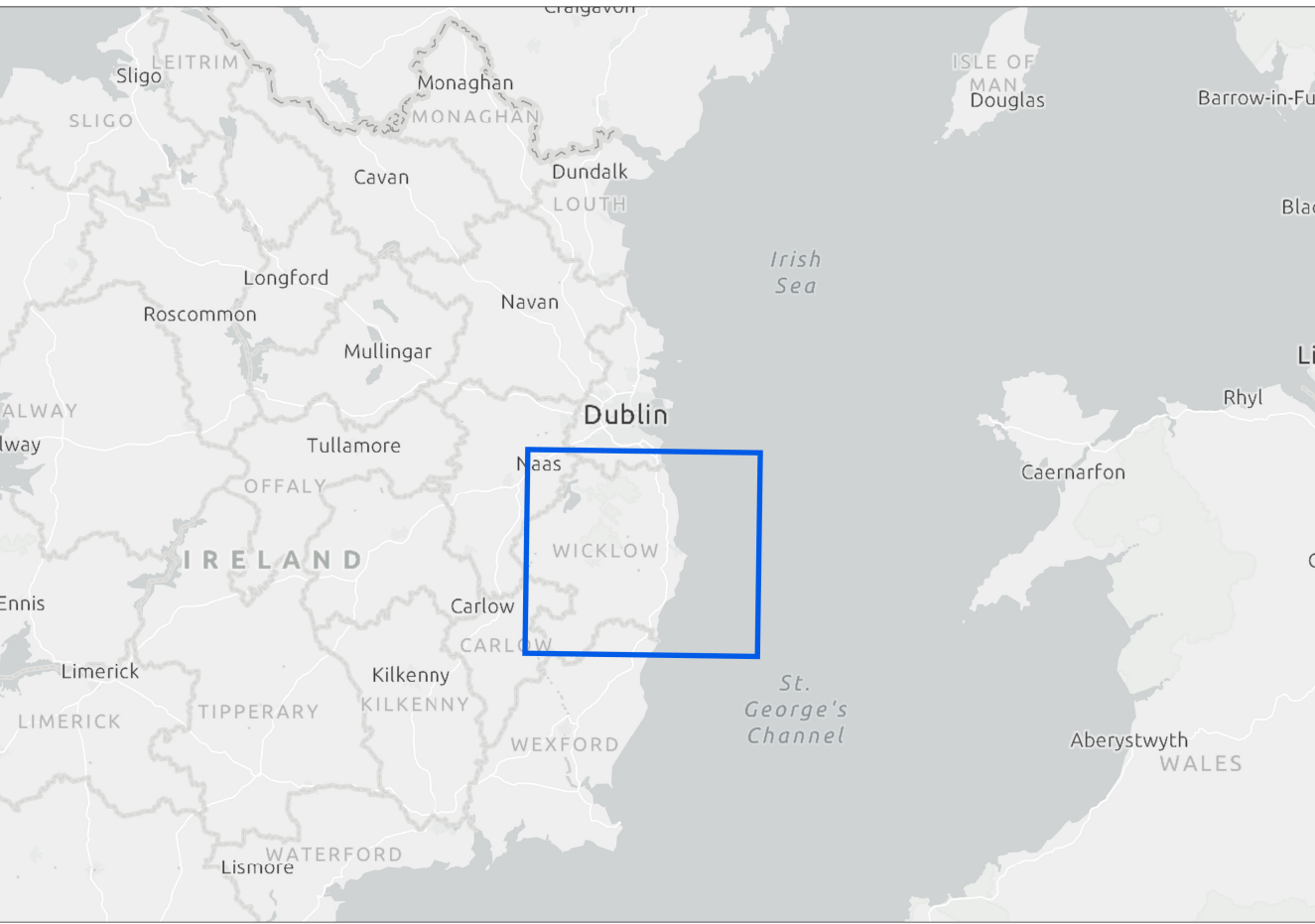
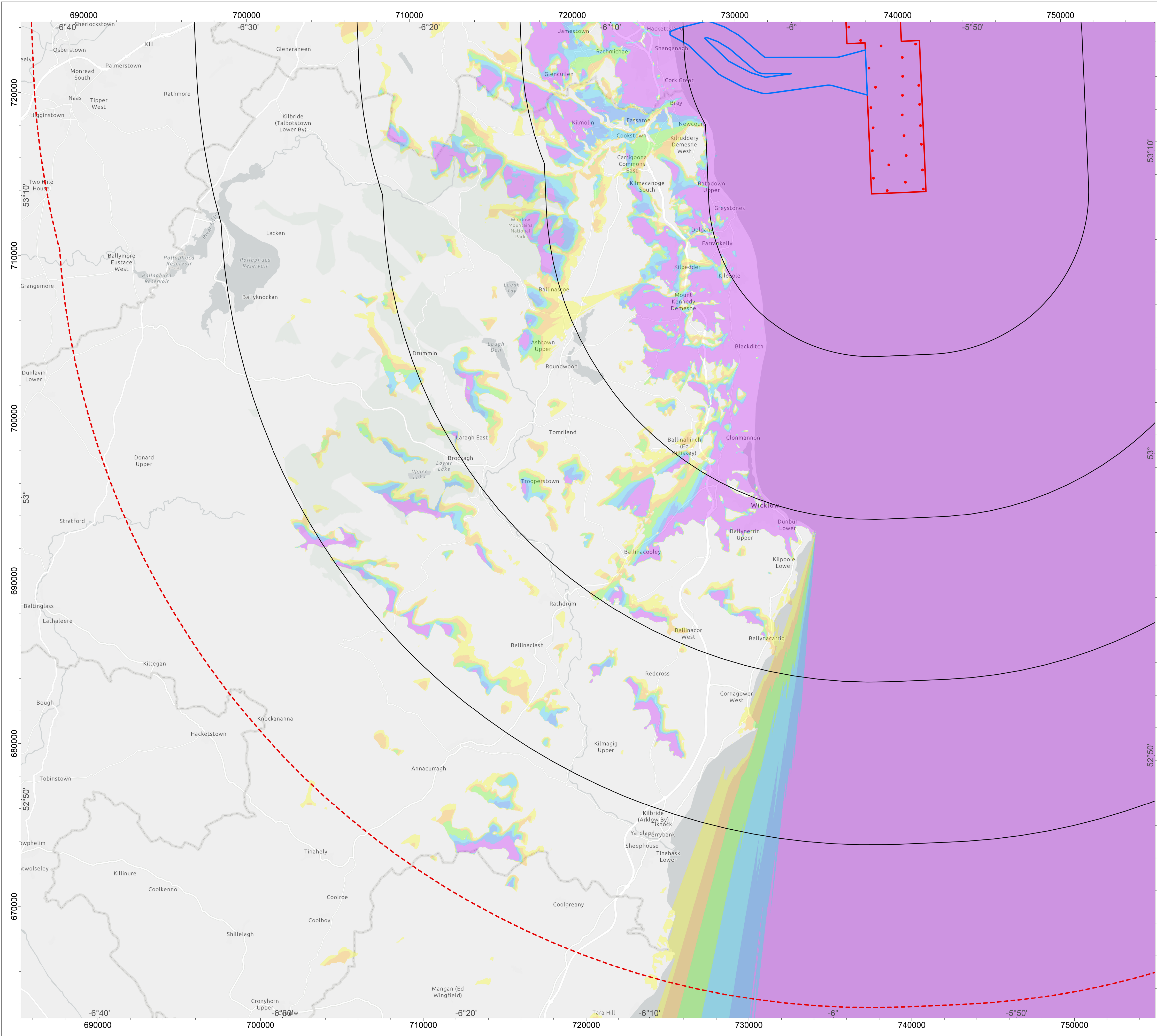
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



• Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Blade Tip ZTV

No. of Blade Tips Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Blade tip:

309.6m above LAT

Observer height:

2m

DTM:

OSI Series 1 DTM

Surface features:

Excluded

DTM resolution:

10m

Earth curvature:

Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Blade Tip ZTV - 50km Study Area - South

DRAWING NUMBER:

3.15.9c

PAGE NUMBER:

1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

GRID NORTH

SCALE

1:120,000

PLOT SIZE

A1

DATUM

WGS 1984

VERTICAL REF

PDN/LAT/MLLW

PRJ

WGS 1984 UTM Zone 29N

open

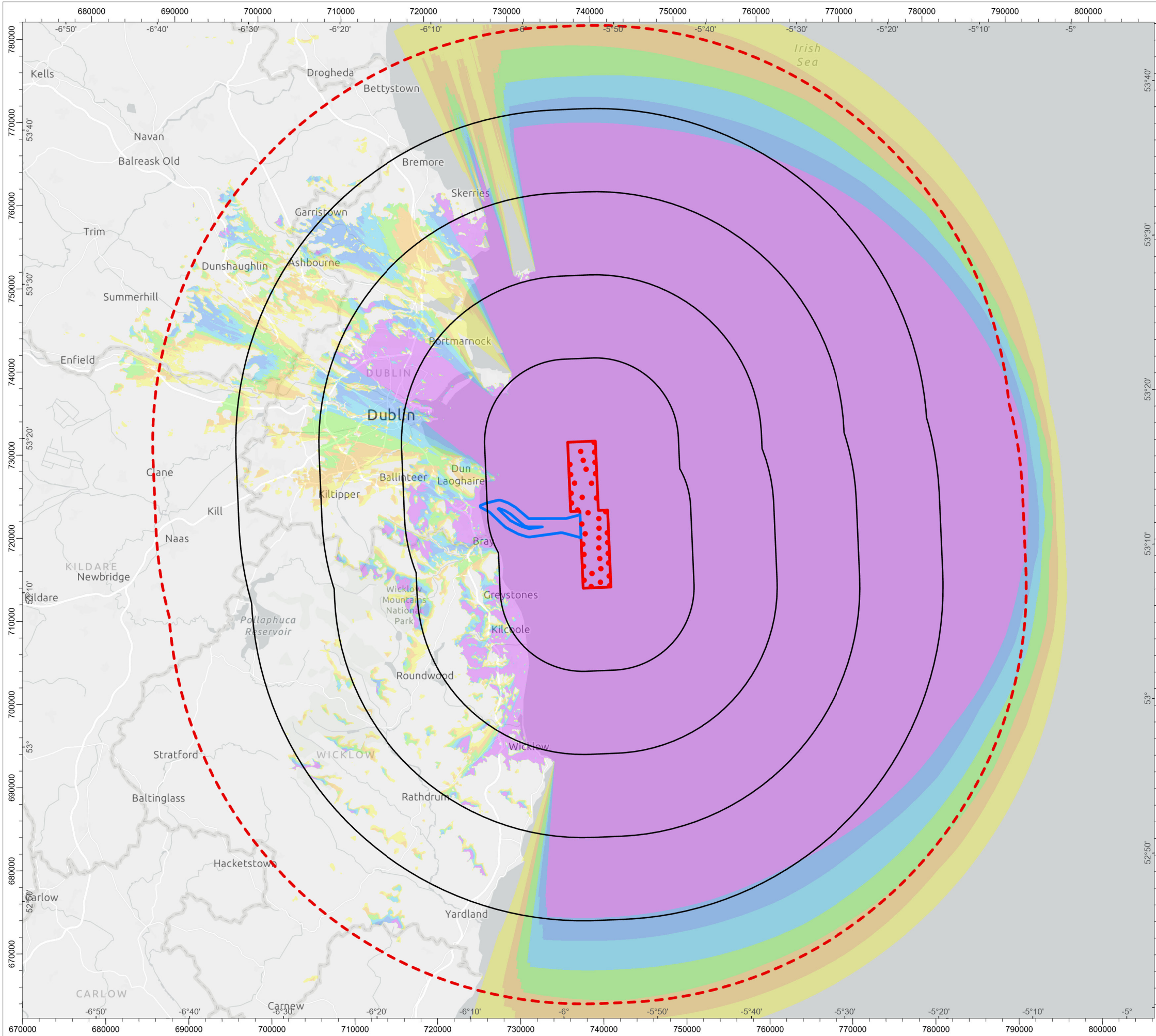
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Hub Height ZTV

No. of Hubs Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Hub Height:	170.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Hub Height ZTV - 50km Study Area

DRAWING NUMBER:

3.15.10a

PAGE NUMBER:

1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

open

optimised environments

PART OF SLR

SCALE 1:470,000

DATUM WGS 1984

PLOT SIZE A3

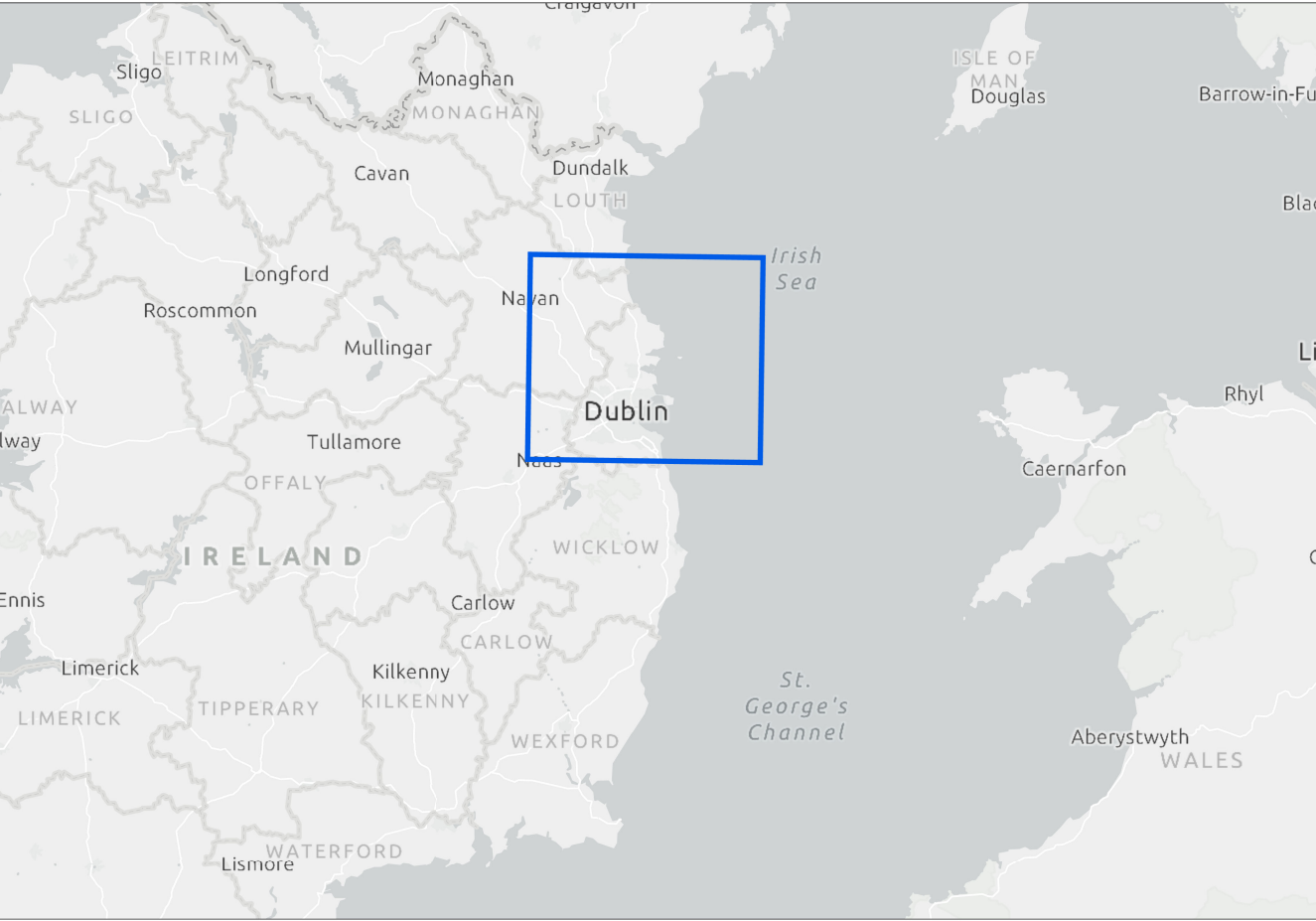
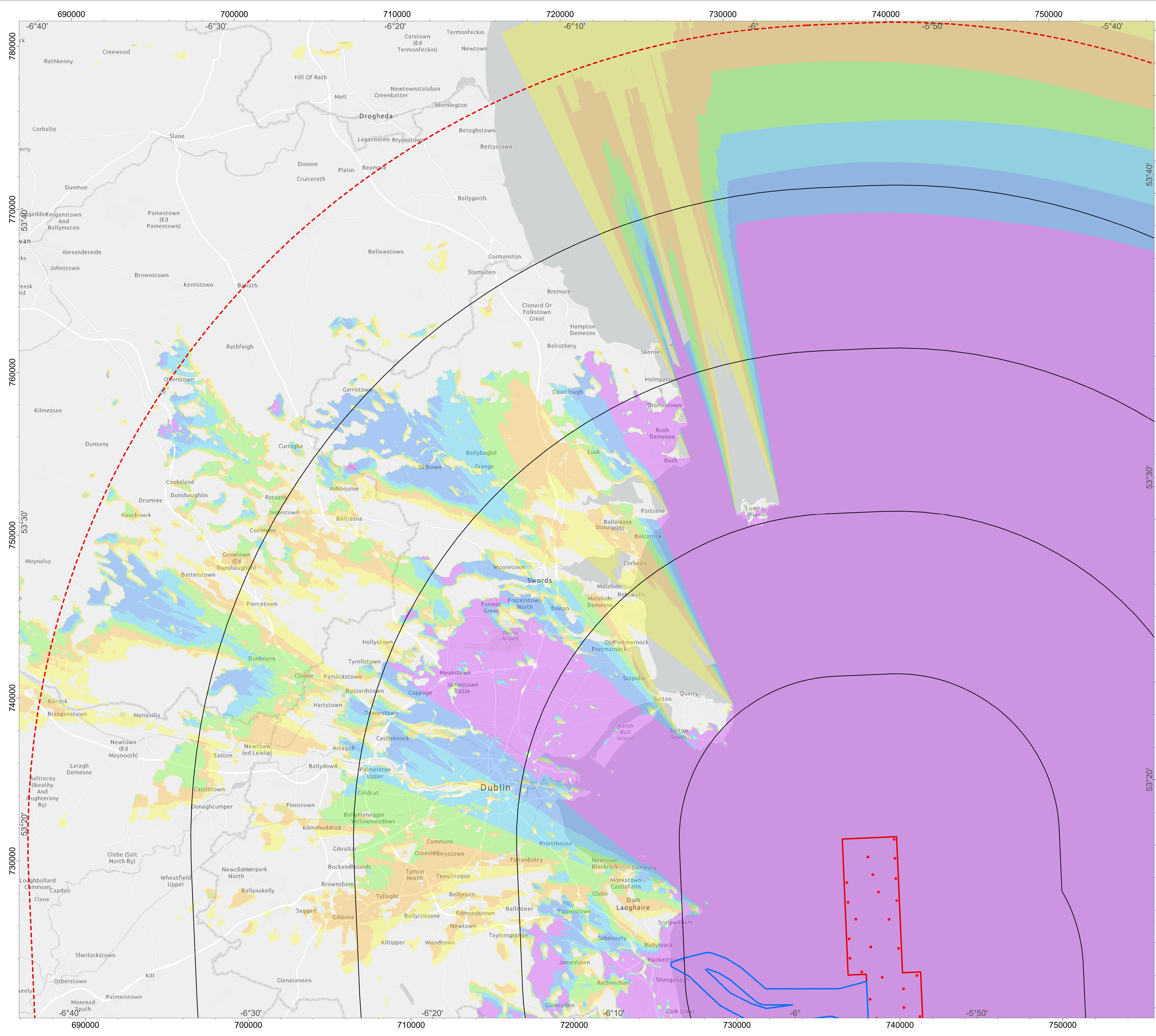
VERTICAL REF. ODIN/LAT/MLLW

PRJ WGS 1984 UTM Zone 29N

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



• Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Hub Height ZTV

No. of Hubs Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Hub Height:	170.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

FINAL

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DRAWING STATUS

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DRAWING STATUS

FINAL

PROJECT TITLE

Dublin Array

DRAWING TITLE

Hub Height ZTV - 50km Study Area - North

DRAWING NUMBER:

3.15.10b

PAGE NUMBER:

1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

ORIG NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DDN/LAT/MLLW

open

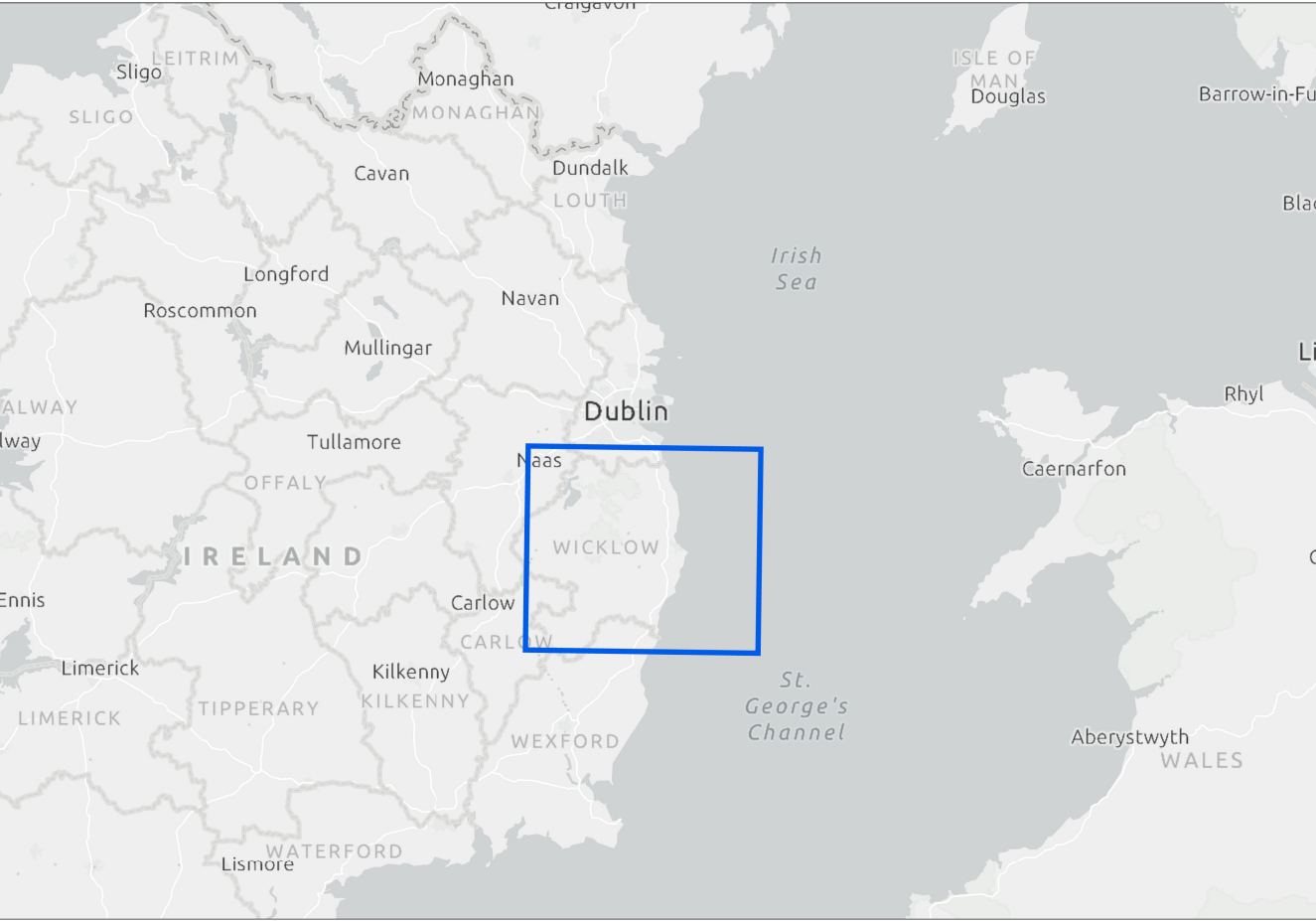
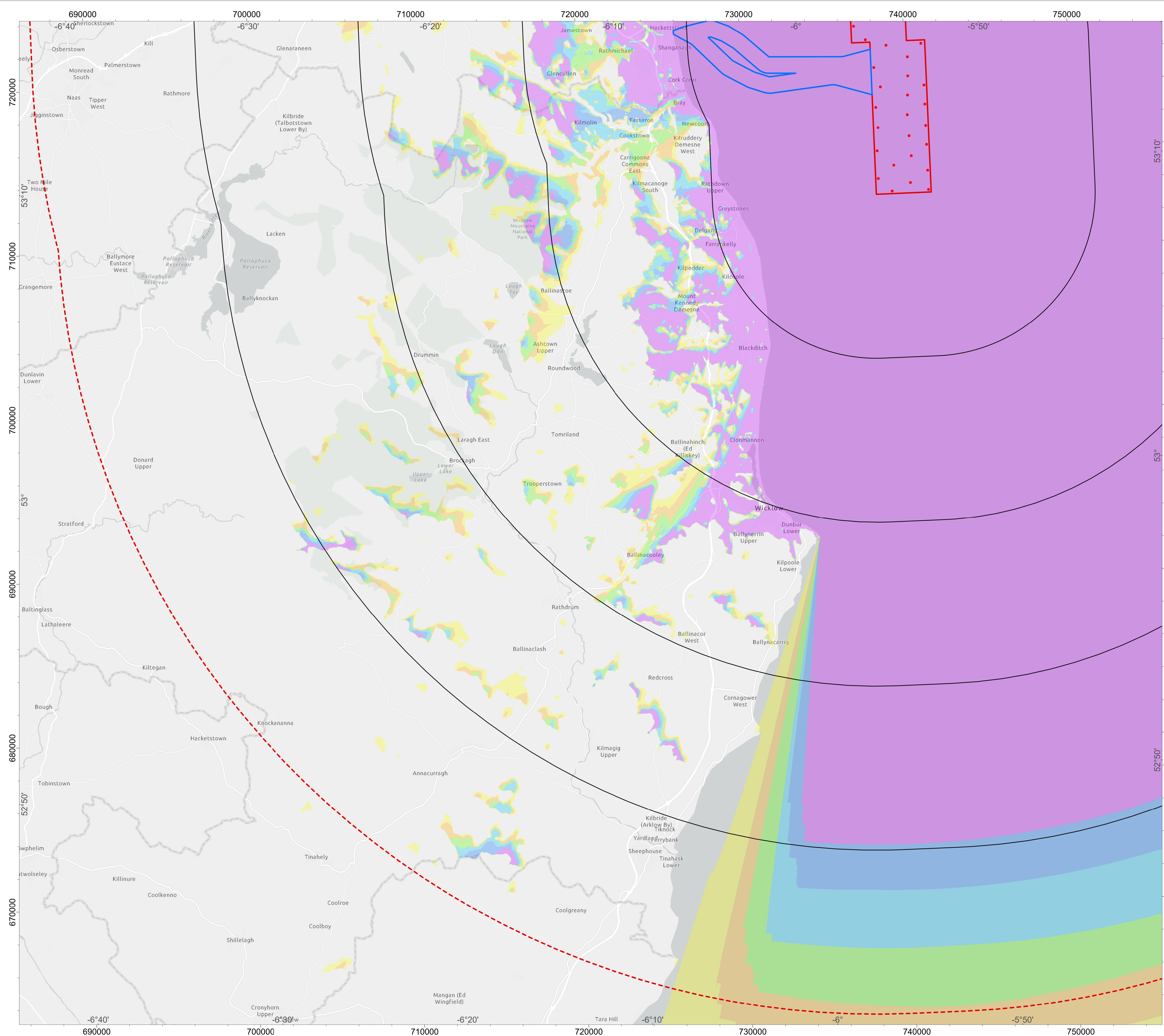
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Hub Height ZTV

No. of Hubs Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Hub Height:

170.6m above LAT

Observer height:

2m

DTM:

OSI Series 1 DTM

Surface features:

Excluded

DTM resolution:

10m

Earth curvature:

Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Hub Height ZTV - 50km Study Area - South

DRAWING NUMBER:

3.15.10c

PAGE NUMBER:

1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

ORIG NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DATUM LAT/LLW

open

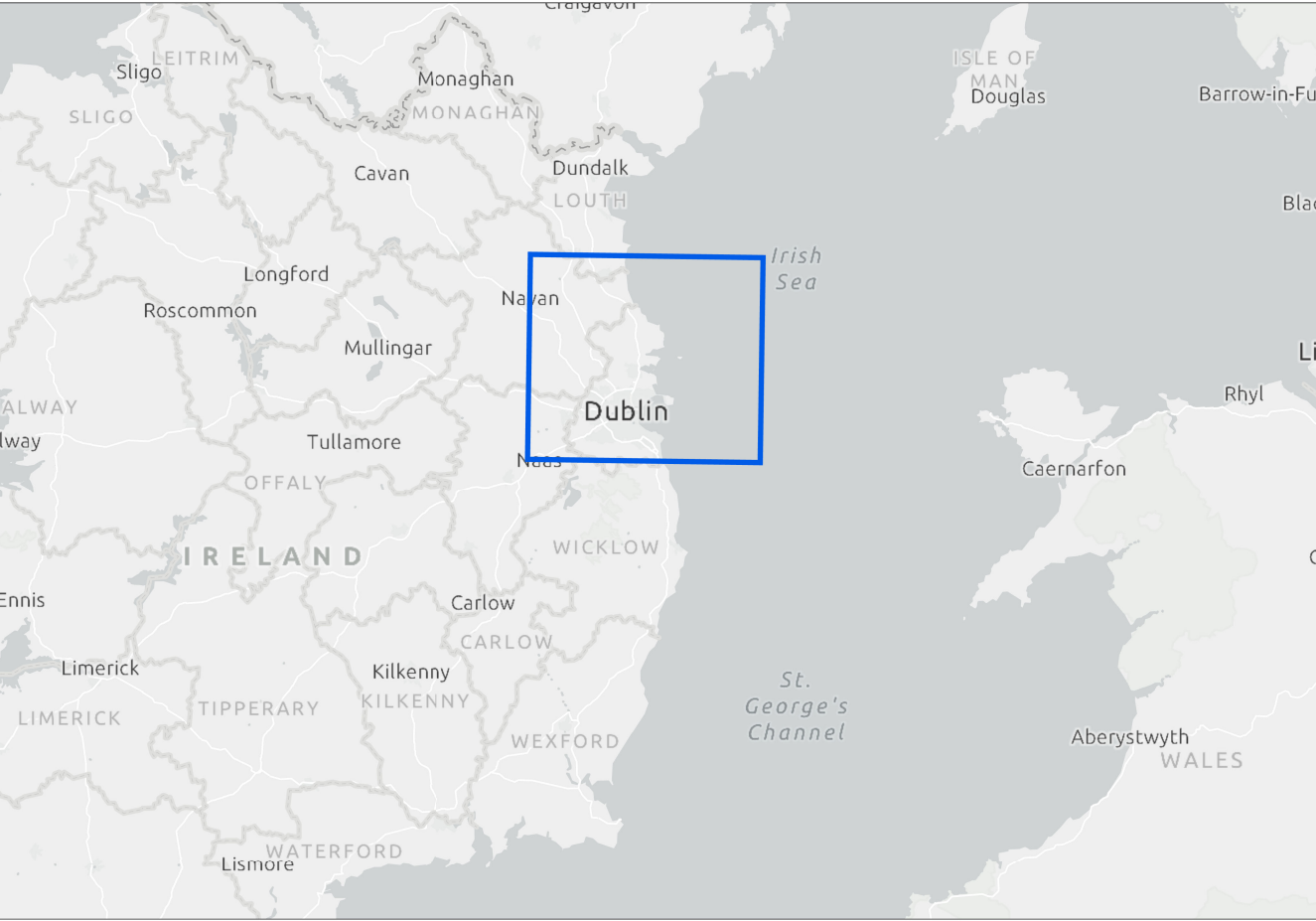
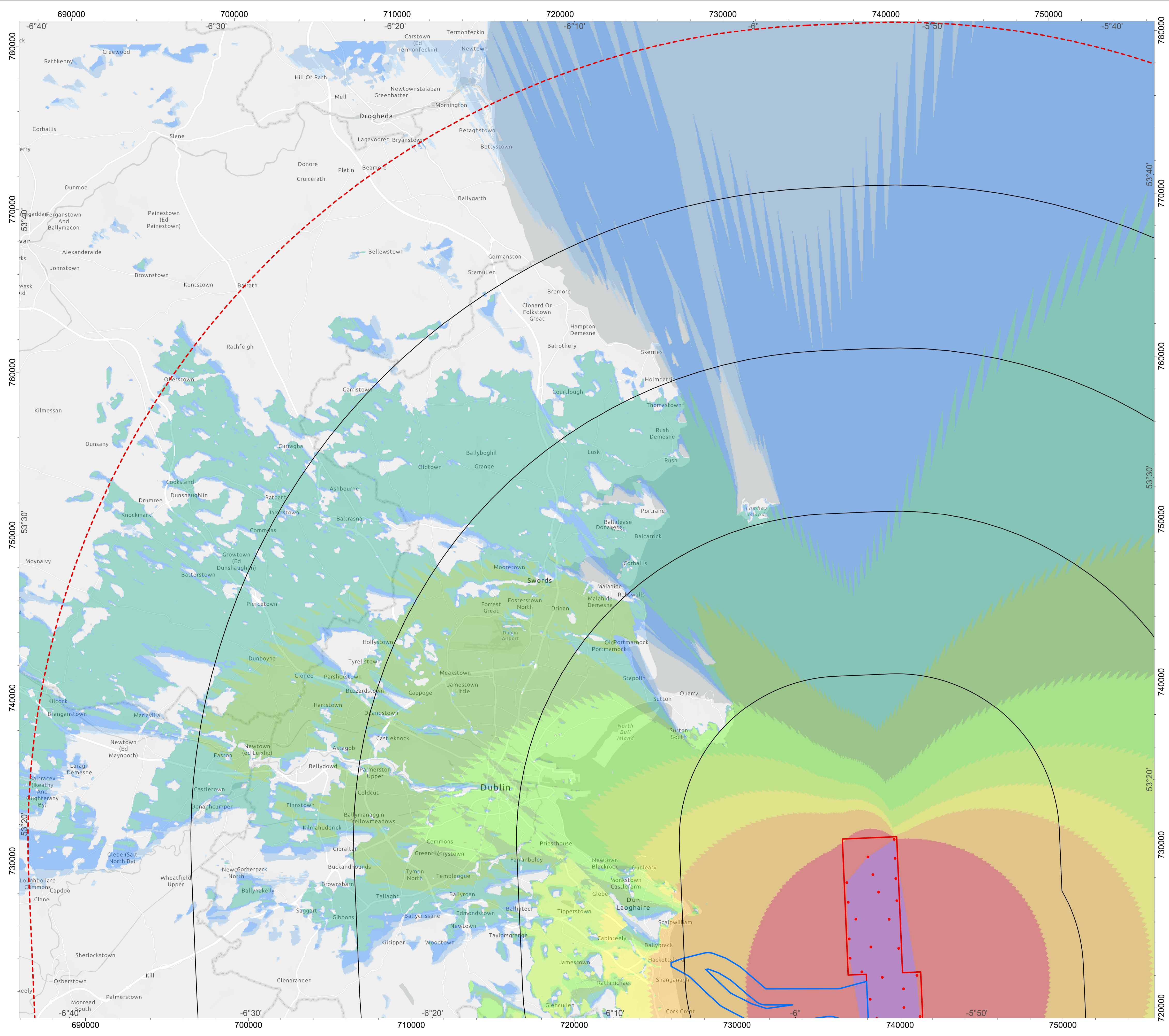
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



• Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Horizontal Angle ZTV

Angle (degrees)

0

Blade tip:309.6m above LATObserver height:2m

DTM:OSI Series 1 DTMSurface features:Excluded

DTM resolution:50mEarth curvature:Included

DRAWING STATUS

FINAL

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Horizontal Angle ZTV - North

DRAWING NUMBER:3.15.11a

PAGE NUMBER:1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-15	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

01.534.56 Kilometers

01234 Miles

N

GRID NORTH

SCALE1:120,000

DATUMWGS 1984

PRJWGS 1984 UTM Zone 29N

PLOT SIZEA1

VERTICAL REFODN/LAT/MLLW

open

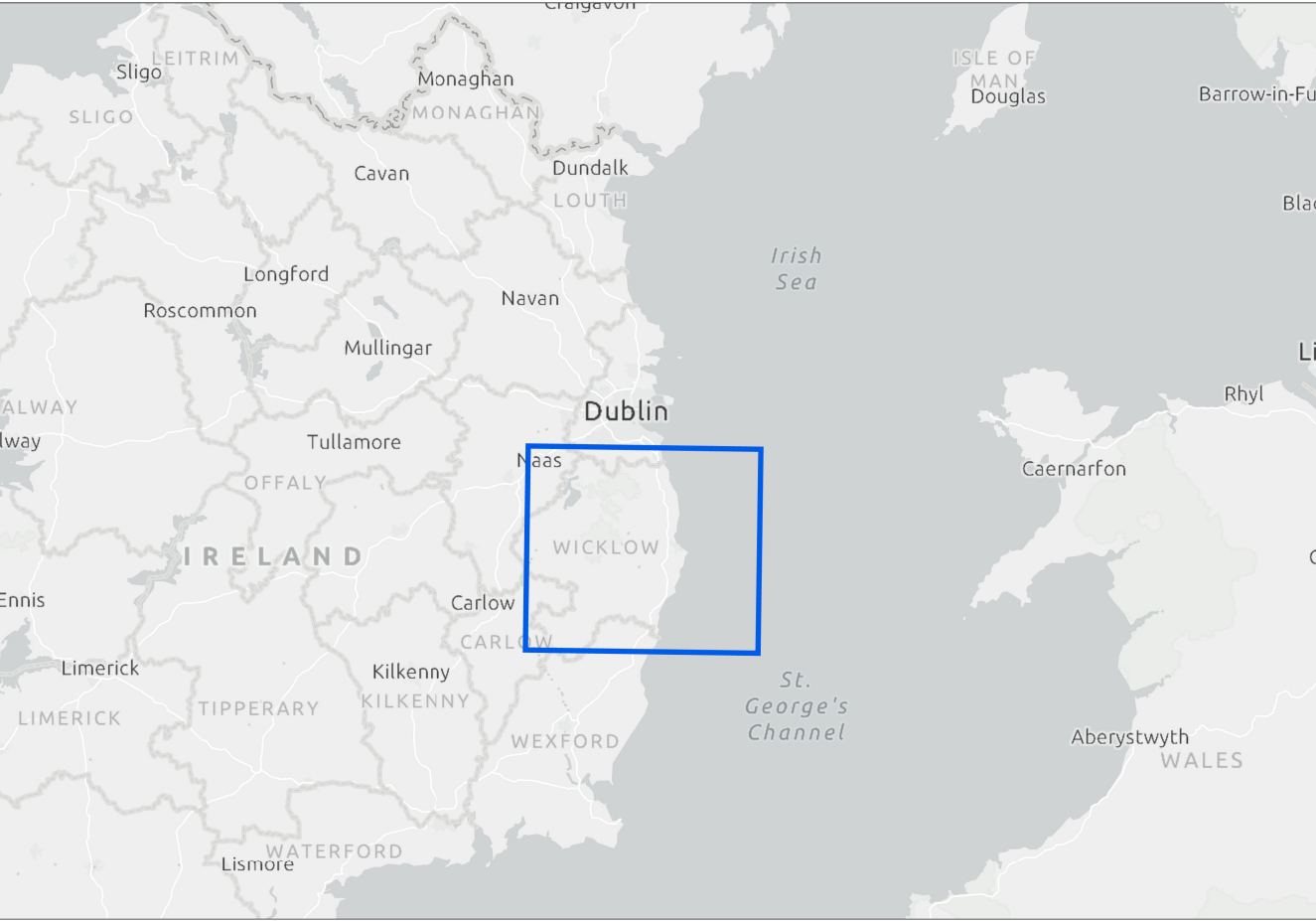
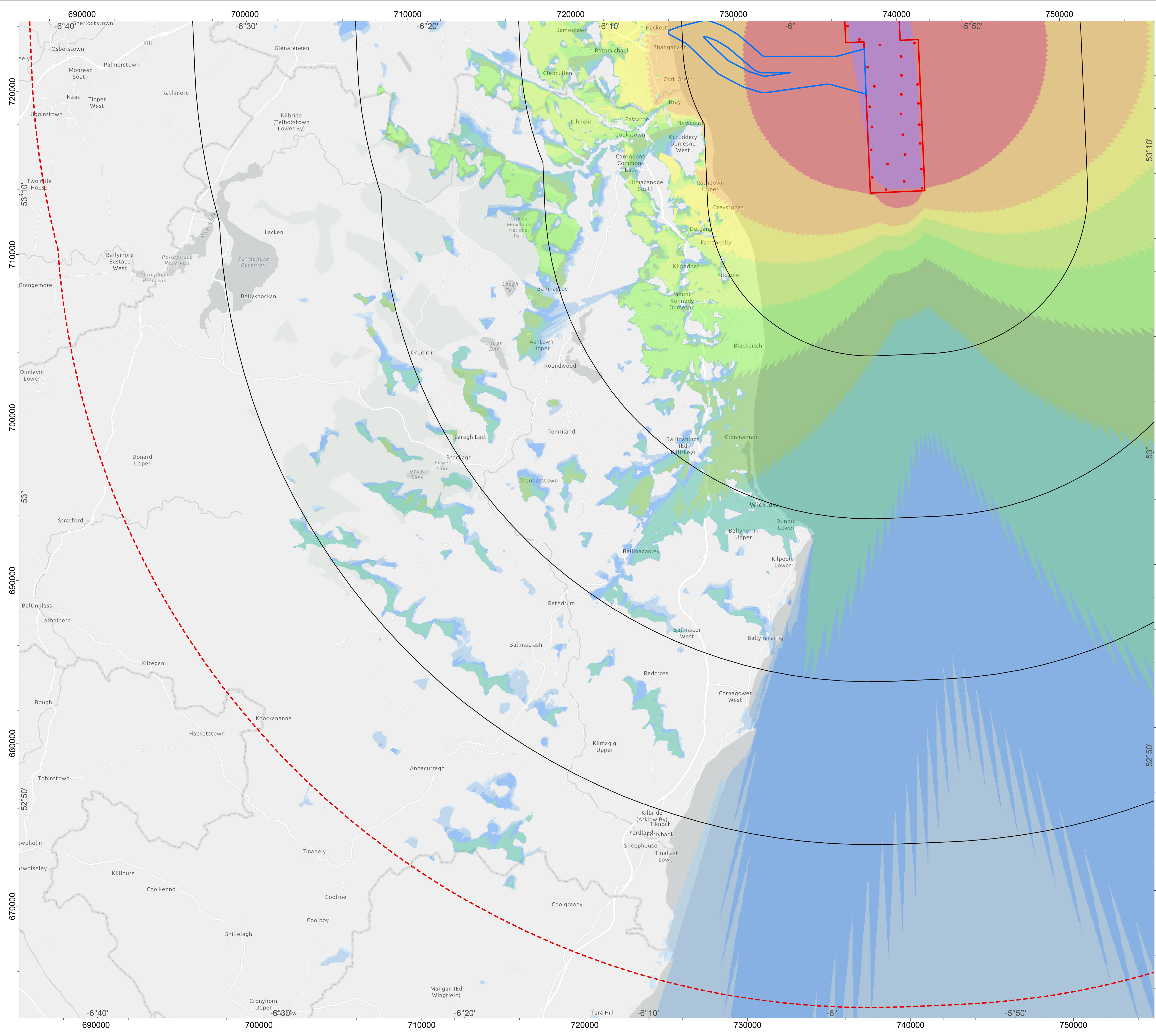
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DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Horizontal Angle ZTV

Angle (degrees)

0

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Horizontal Angle ZTV - South

DRAWING NUMBER: 3.15.11b			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-15	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

06 Kilometers

0 1 2 3 4 Miles

N

ORIG NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DDN/LAT/MLLW

open

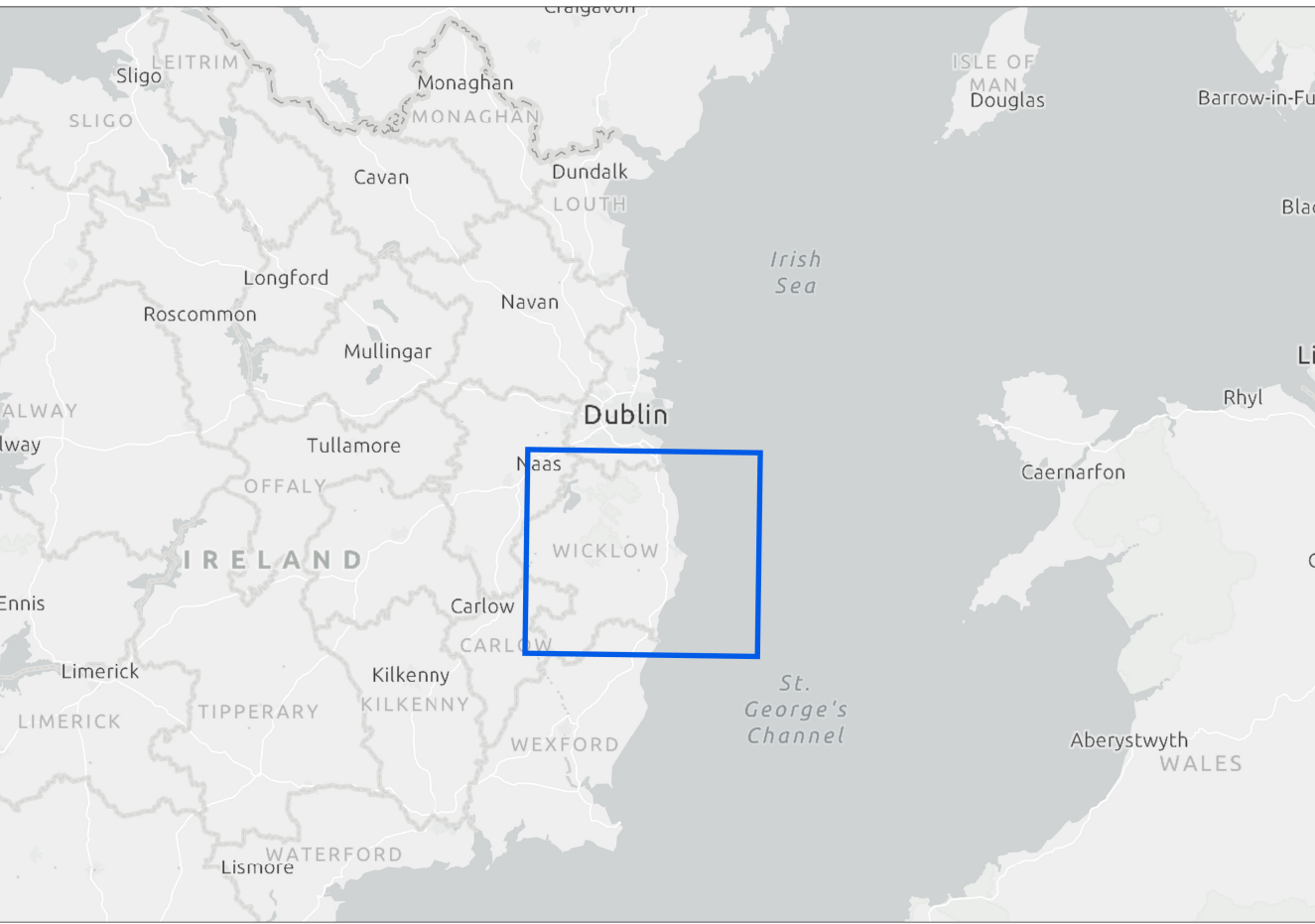
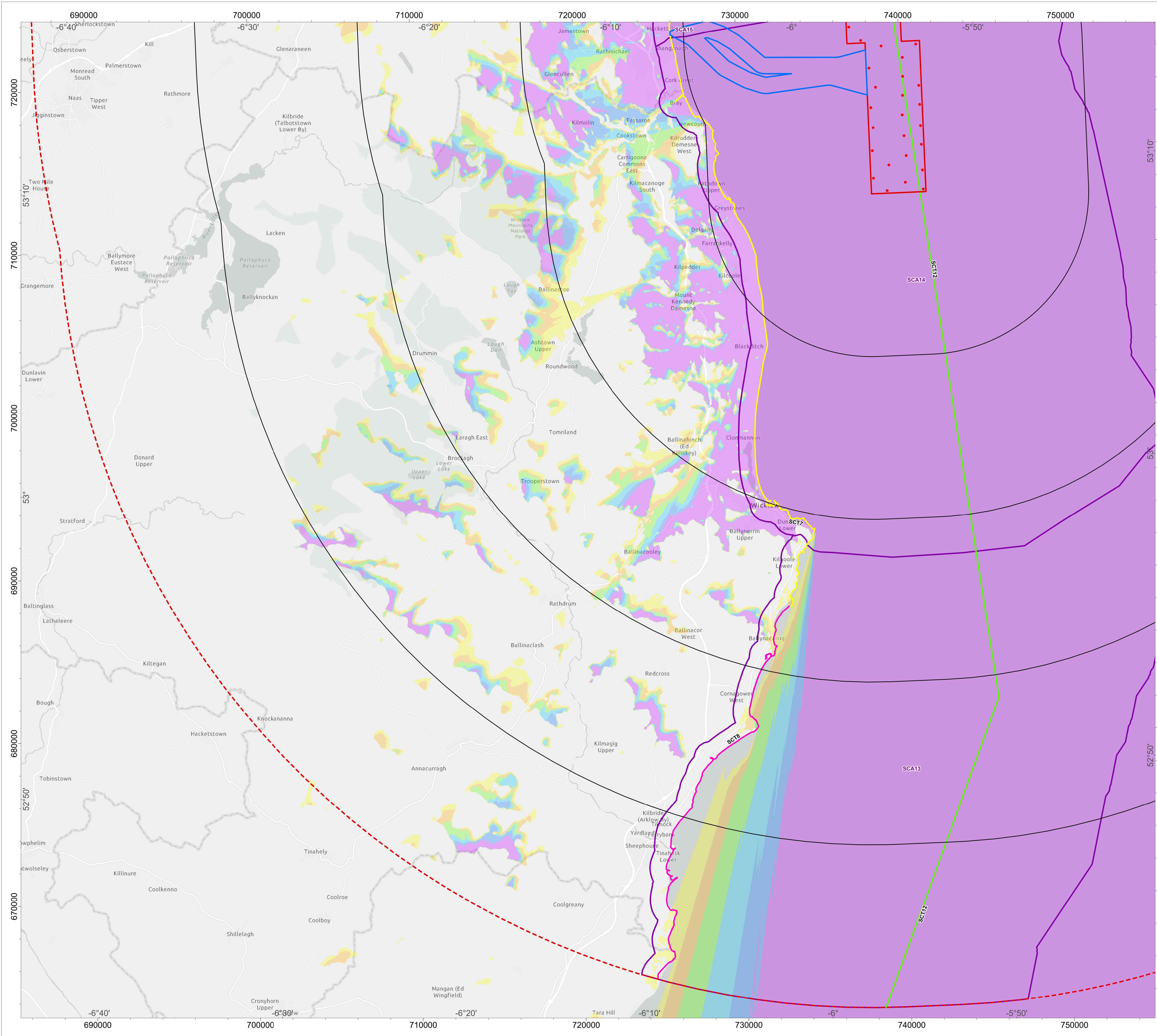
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PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Seascape Character Area

Source: Regional Seascape Character Assessment for Ireland 2020

SCA13. South East Irish Sea

SCA14. Irish Sea, Sandbanks And Broad Bays

SCA15. Dublin Bay

SCA16. Northeastern Irish Sea Islands And Beaches

No. of Blade Tips Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 35

36 - 39

Seascape Character Type

Source: Regional Seascape Character Assessment for Ireland 2020

SCT6. High Granite/ Sandstone Cliffs And Plateau

SCT7. Broad Estuarine Bays And Complex Low Plateau And Cliff Coastline

SCT8. Low Lying And Estuarine Coastal Plain With Long, Narrow Sandy Beaches

SCT10. Modified Historic Urban Bay

SCT11. Large Islands

SCT12. Shallow Offshore Waters

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Blade Tip ZTV with Seascape Character - South

DRAWING NUMBER: 3.15.12b			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers

0 1 2 3 4 Miles

N

ORIG NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DDN/LAT/MLLW

open

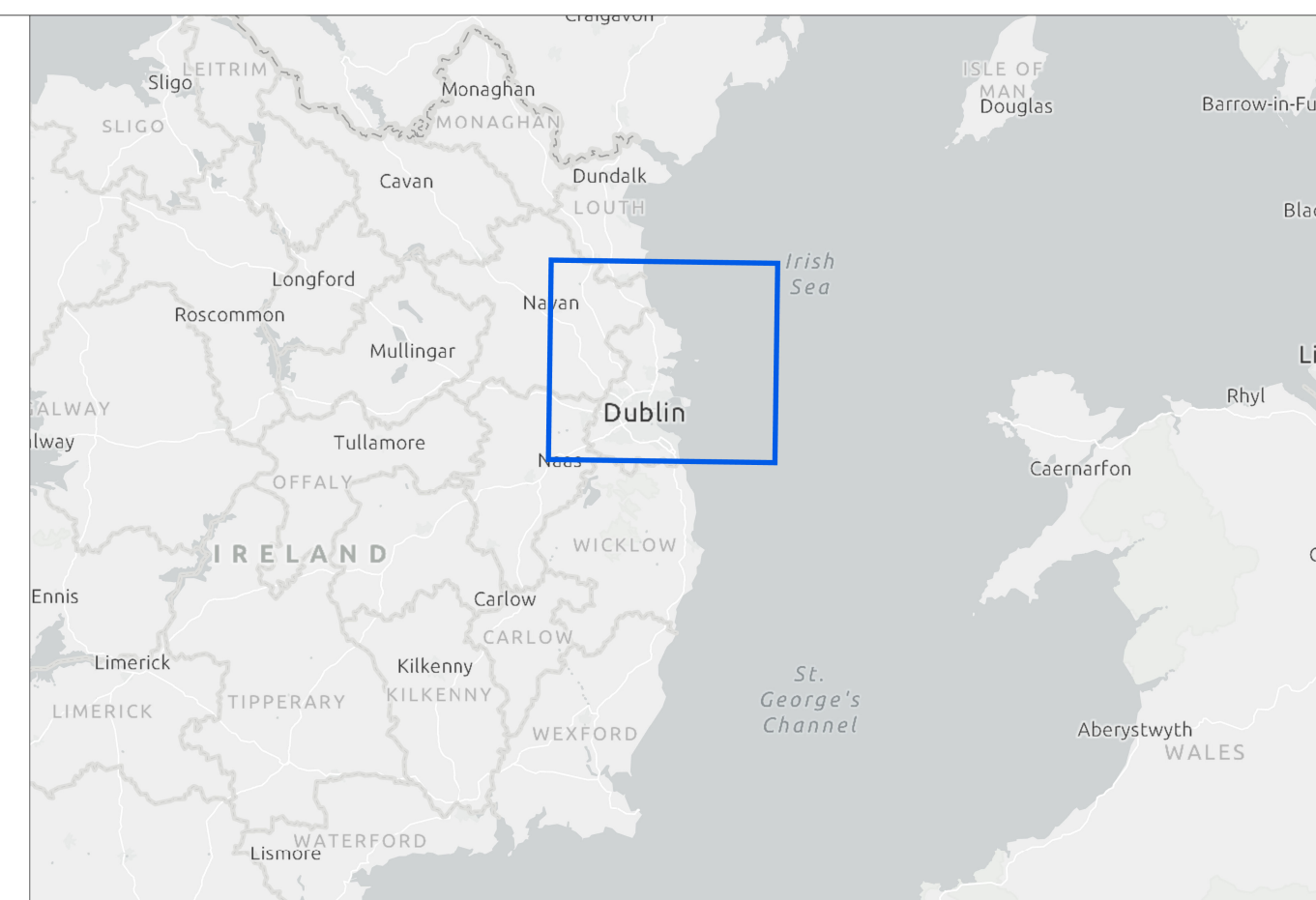
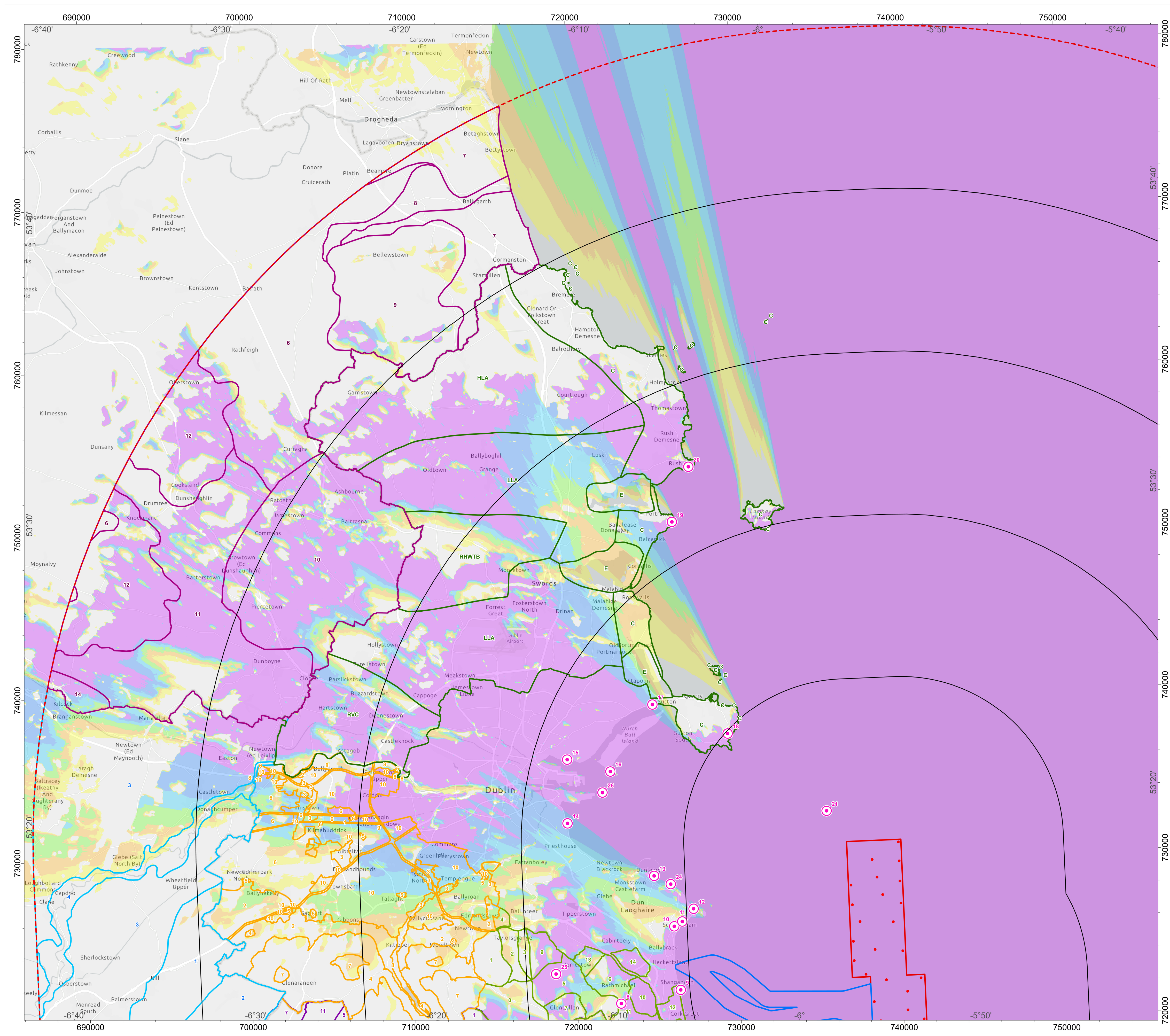
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DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
 - Array Area
 - 10km Radii
 - 50km Study Area
 - Export Cable Corridor
 - Viewpoint
 8. Hill at Carrick Gollogan, near Shankill
 9. Shankill Beach
 10. Killiney Hill Obelisk
 11. Vico Road seating area
 12. Coliemore Harbour seating area
 13. Dun Laoghaire Harbour East Pier
 14. R131 near Martello Tower, Sandymount
 15. Promenade near Clontarf village
 16. Near the Bull Wall, North Bull Island
 17. R105, Sutton
 18. Howth Head
 19. Car park near Martello Tower, Portrane
 20. Tayleaur's Point_Rush
 21. Offshore view 7km south-east of Howth Head
 24. Forty Feet
 25. Balleyedmonduff
 26. Poolbeg Pier

■ Dún Laoghaire-Rathdown Landscape Character
■ Fingal Landscape Character Area
■ Kildare Landscape Character
■ Meath Landscape Character
■ South Dublin Landscape Character
■ Wicklow Landscape Character
 Blade Tip ZTV
 No. of Blade Tips Theoretically Visible

	1 - 7
	8 - 14
	15 - 21
	22 - 28
	29 - 35
	36 - 39

For Landscape Character key see Figure 3.14.5b

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

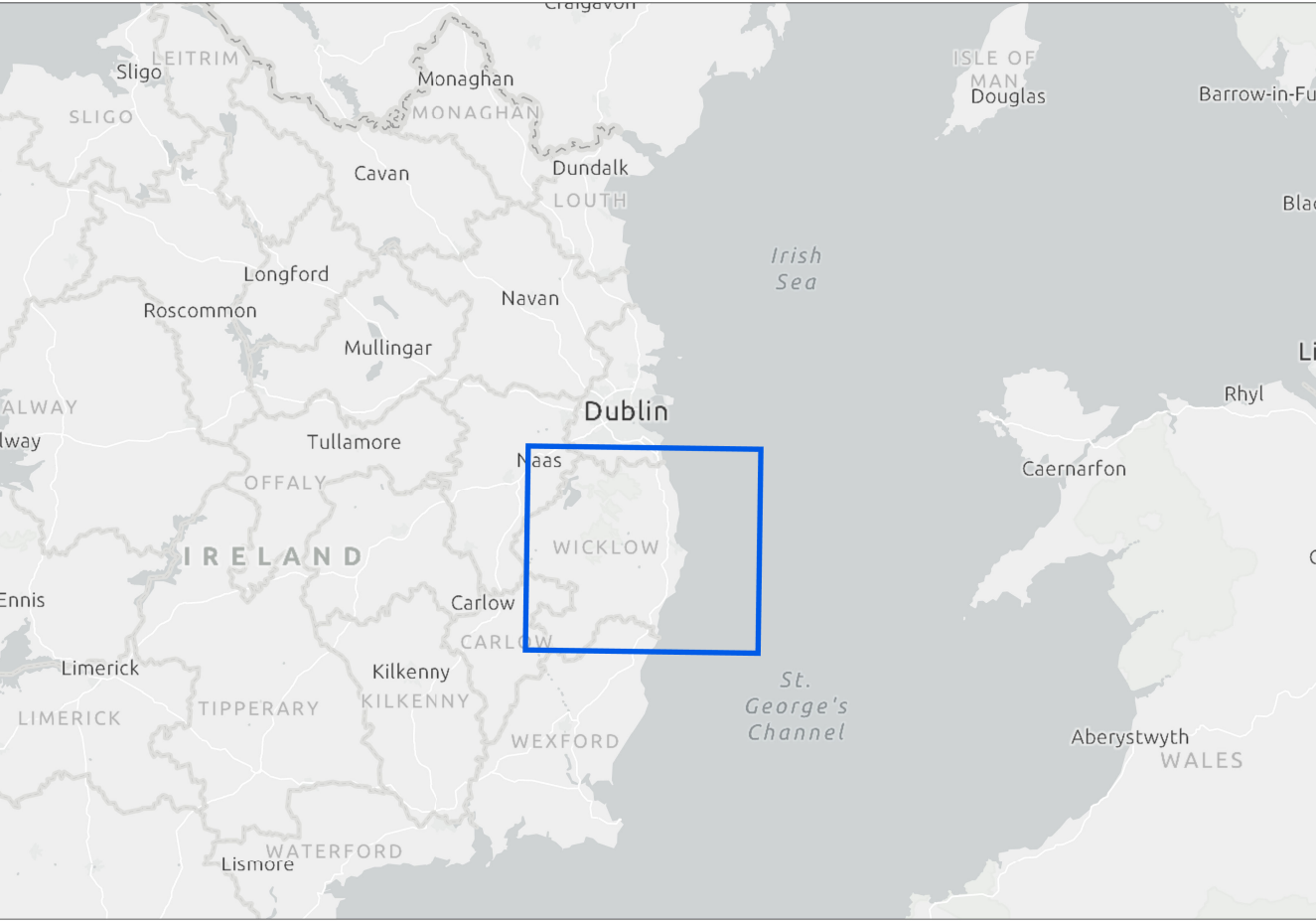
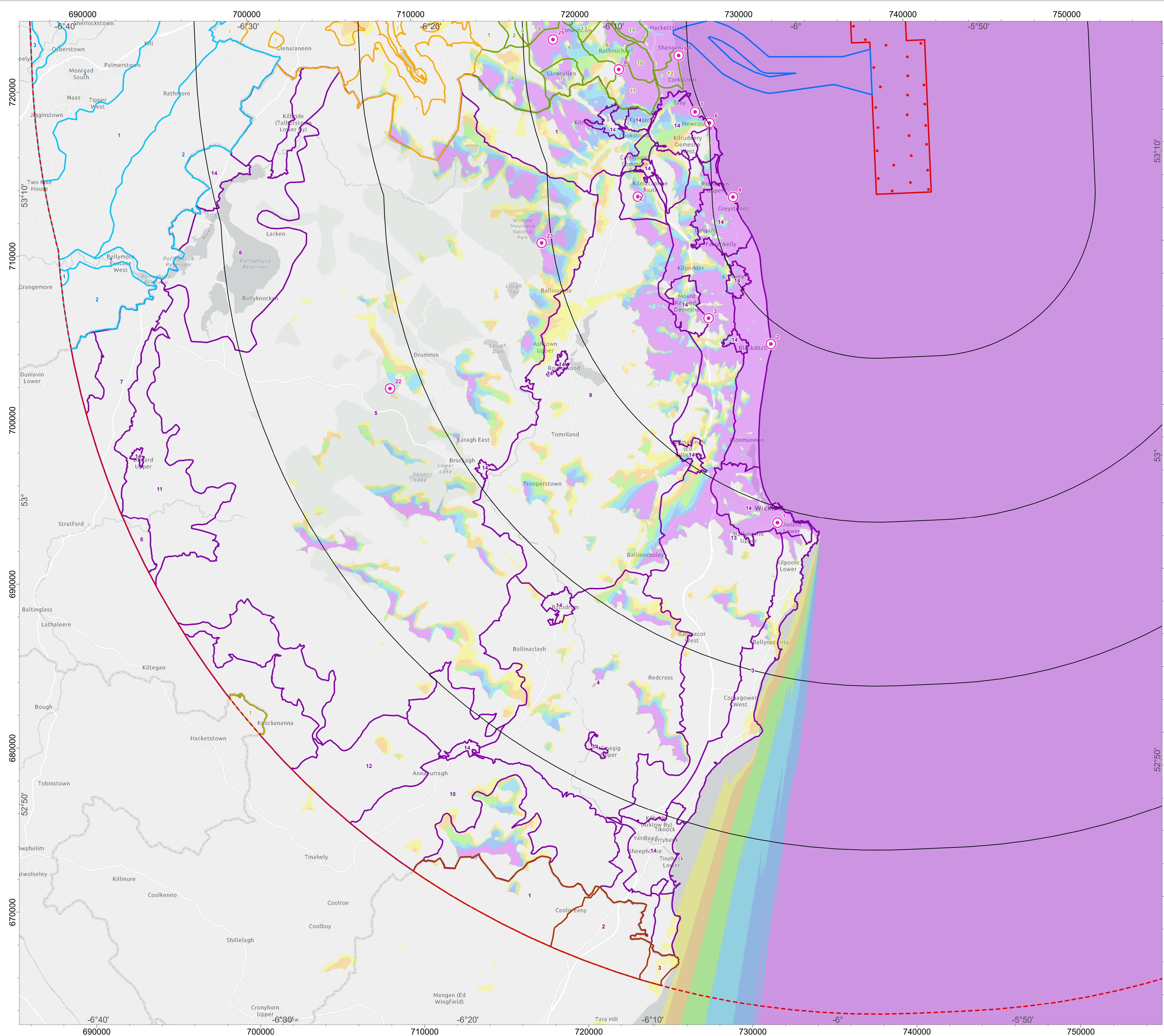
Dublin Array

DRAWING TITLE

Blade Tip ZTV with Landscape Character - North

DRAWING NUMBER: 3.15.13a			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	#####
02	2024-09-13	DRAFT	SH	JP	#####
03	2024-10-23	DRAFT	SH	JP	#####





- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Viewpoint
- 1. Scenic Car Park, Wicklow Town
- 2. Six Mile Point, Newcastle
- 3. N11 road near Kilmullin
- 4. Greystones Harbour
- 5. Sugar Loaf Mountain
- 6. Bray Head walkway
- 7. Bray Promenade
- 8. Hill at Carrick Gollogan, near Shankill
- 9. Shankill Beach
- 22. Tonelagee
- 23. Djouce Mountain
- 25. Balleyedmonduff
- Carlow Landscape Character
- Dún Laoghaire-Rathdown Landscape Character
- Kildare Landscape Character
- South Dublin Landscape Character
- Wexford Landscape Character
- Wicklow Landscape Character
- Blade Tip ZTV
- No. of Blade Tips Theoretically Visible
- 1 - 7
- 8 - 14
- 15 - 21
- 22 - 28
- 29 - 35
- 36 - 39

For Landscape Character key see Figure 3.14.5b

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

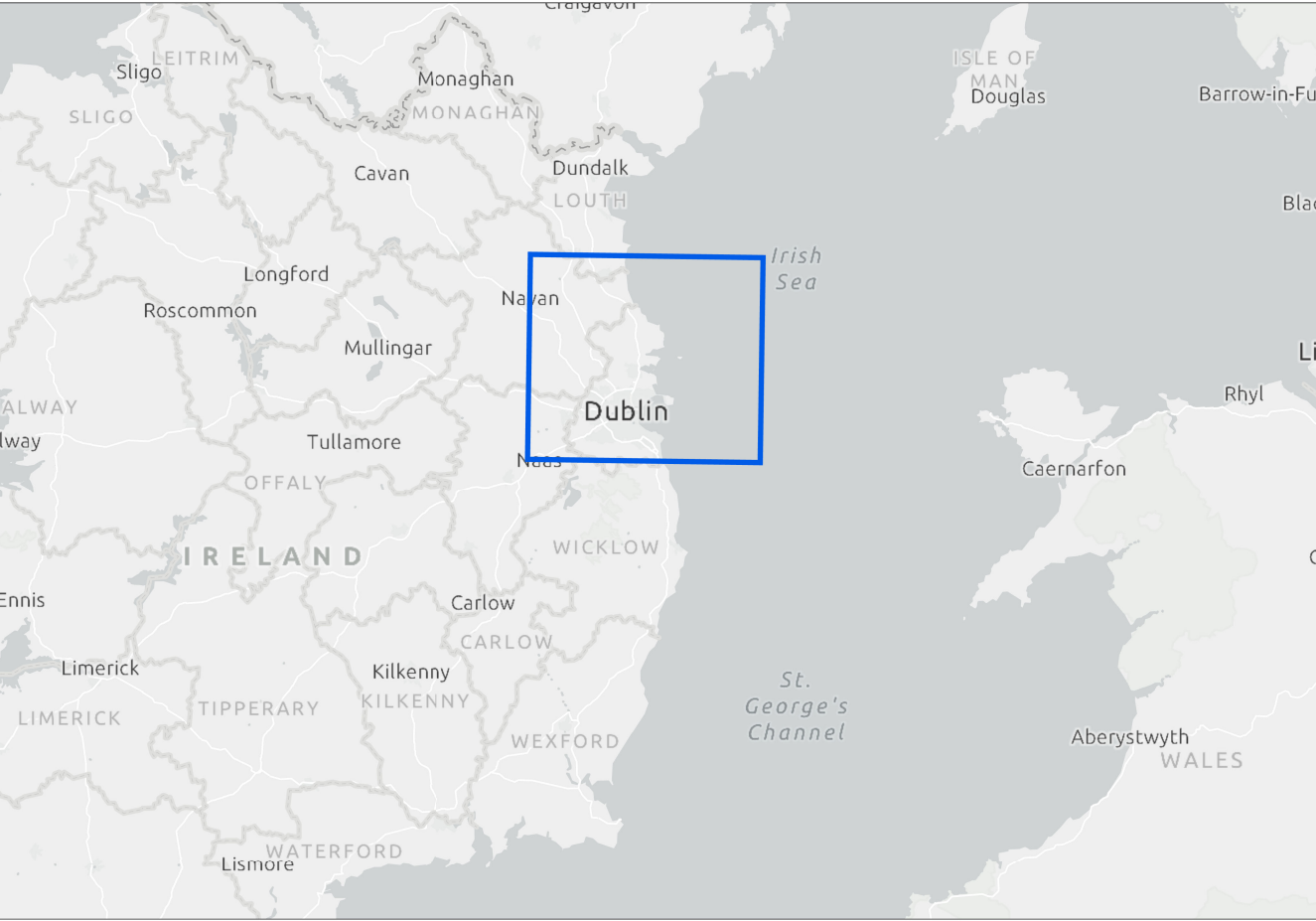
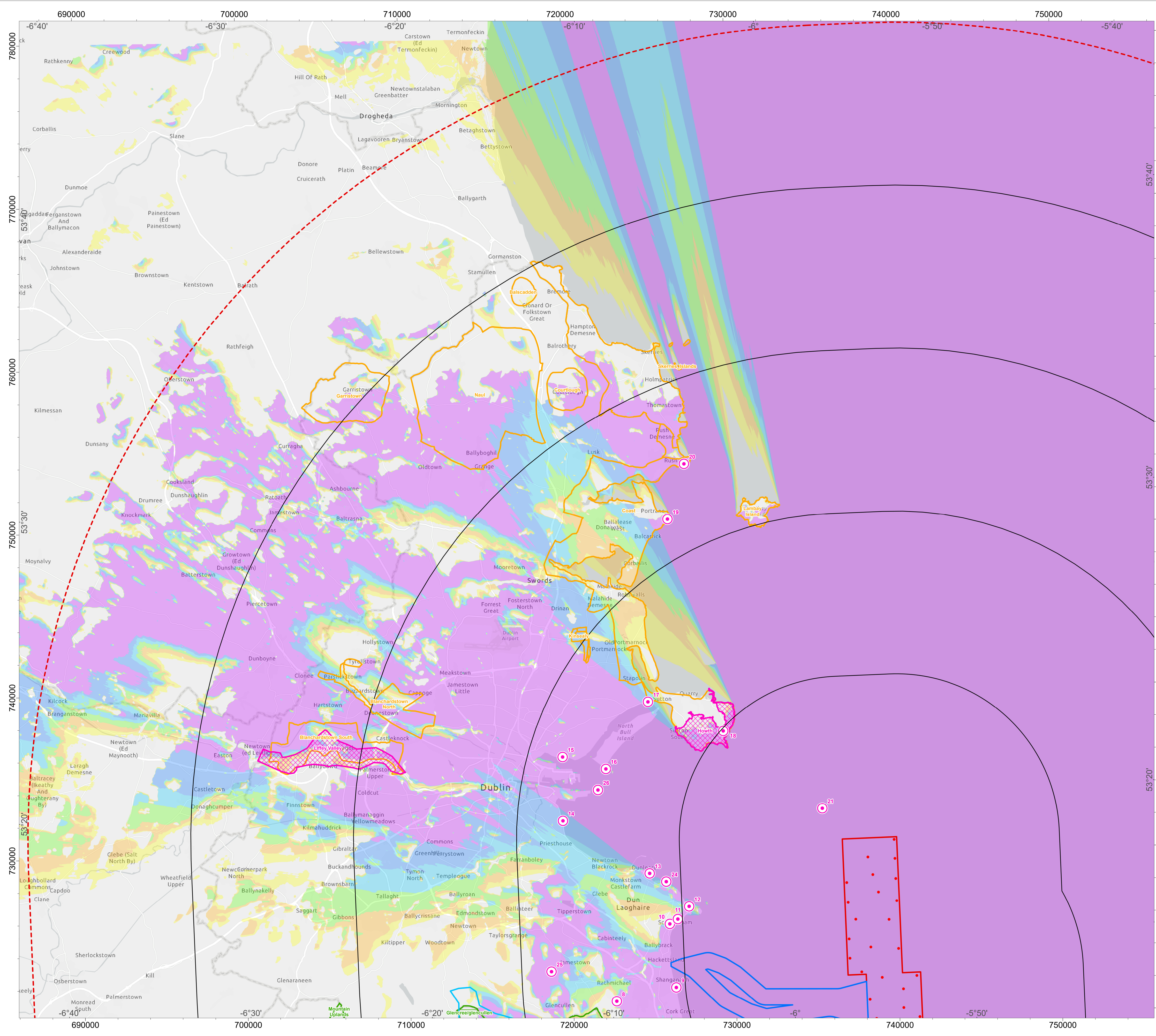
Dublin Array

DRAWING TITLE
Blade Tip ZTV with Landscape Character - South

DRAWING NUMBER: 3.15.13b PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####





- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Viewpoint
- 8. Hill at Carrick Gollogan, near Shankill
- 9. Shankill Beach
- 10. Killiney Hill Obelisk
- 11. Vico Road seating area
- 12. Coliemore Harbour seating area
- 13. Dun Laoghaire Harbour East Pier
- 14. R131 near Martello Tower, Sandymount
- 15. Promenade near Clontarf village
- 16. Near the Bull Wall, North Bull Island
- 17. R105, Sutton
- 18. Howth Head
- 19. Car park near Martello Tower, Portrane
- 20. Tayleur's Point_Rush
- 21. Offshore view 7km south-east of Howth Head
- 24. Forty Feet
- 25. Balleyedmonduff
- 26. Poolbeg Pier
- Fingal Highly Sensitive Landscape Areas
- Wicklow Area of Natural Beauty
- Wicklow Mountains National Park
- Blade Tip ZTV
- No. of Blade Tips Theoretically Visible
- 1 - 7
- 8 - 14
- 15 - 21
- 22 - 28
- 29 - 35
- 36 - 39

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Blade Tip ZTV with Landscape Designations - North

DRAWING NUMBER: 3.15.14a			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 1.5 3 4.5 6 Kilometers
0 1 2 3 4 Miles

N

ORIENT NORTH

SCALE 1:120,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

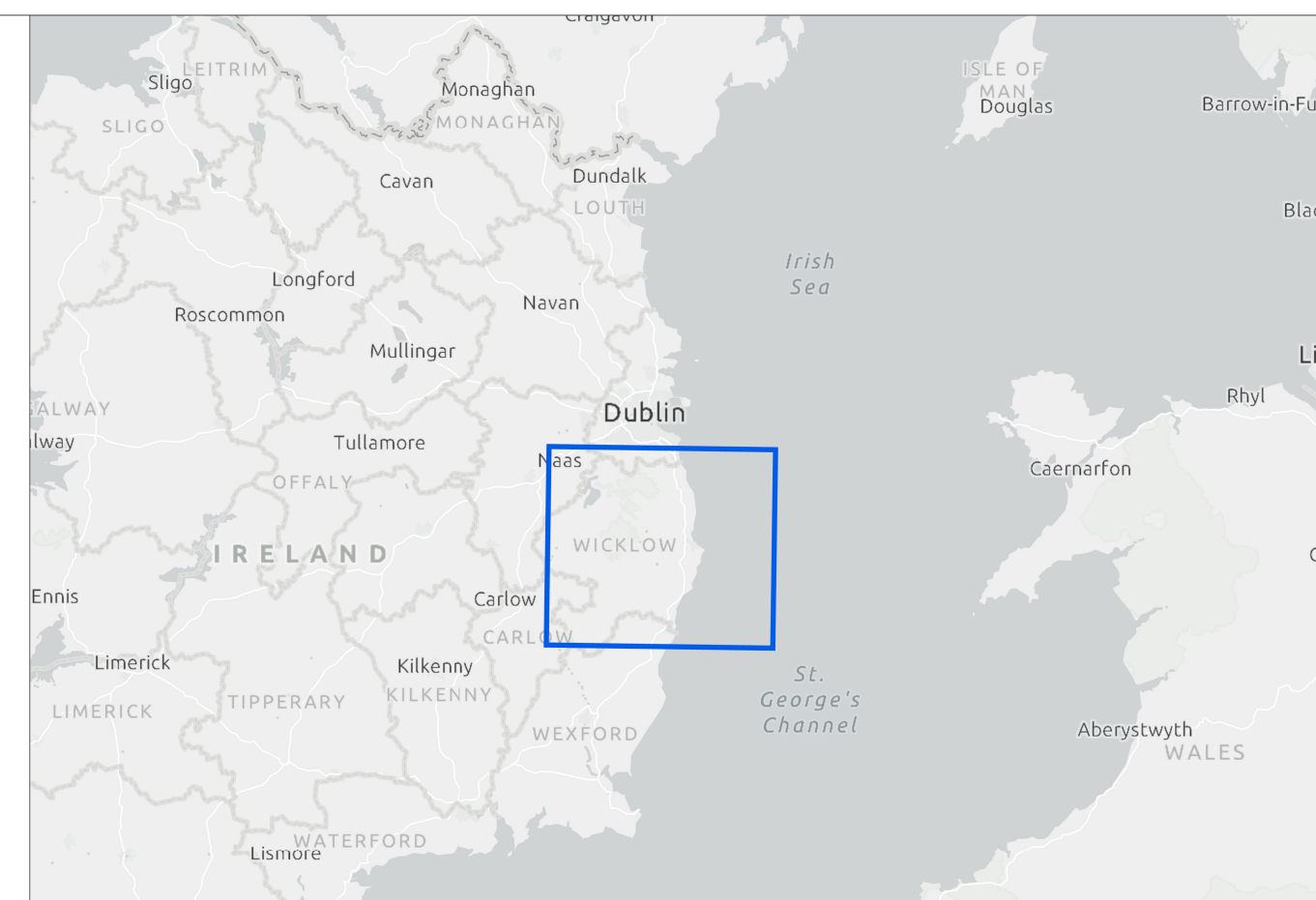
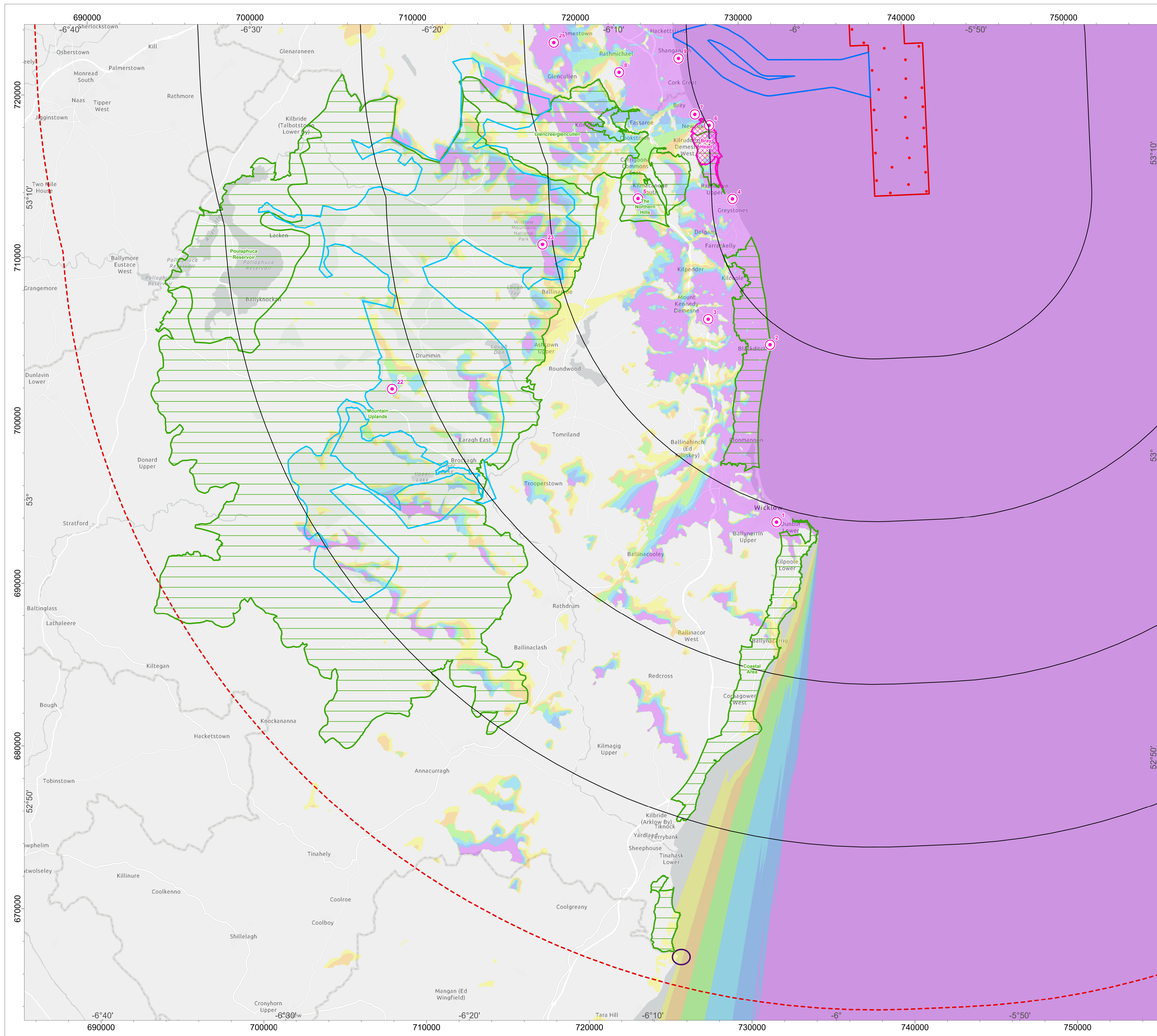
VERTICAL REF. ODNLAT/MLLW










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optimised environments







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DublinArray
Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed STGs
 -  Array Area
 -  10km Radii
 -  50km Study Area
 -  Export Cable Corridor
 -  Viewpoint
 1. Scenic Car Park, Wicklow Town
 2. Six Mile Point, Newcastle
 3. N11 road near Kilmullin
 4. Greystones Harbour
 5. Sugar Loaf Mountain
 6. Bray Head walkway
 7. Bray Promenade
 8. Hill at Carrick Gollogan, near Shankill
 9. Shankill Beach
 22. Tonelagee
 23. Djouce Mountain
 25. Balleyedmonduff
 -  Special Amenity Area Order
 -  Wexford Distinctive Landscape - Kilmichael Point
 -  Wicklow Area of Natural Beauty
 -  Wicklow Mountains National Park
 - Blade Tip ZTV
 - No. of Blade Tips Theoretically Visible

	1 - 7
	8 - 14
	15 - 21
	22 - 28
	29 - 35
	36 - 39

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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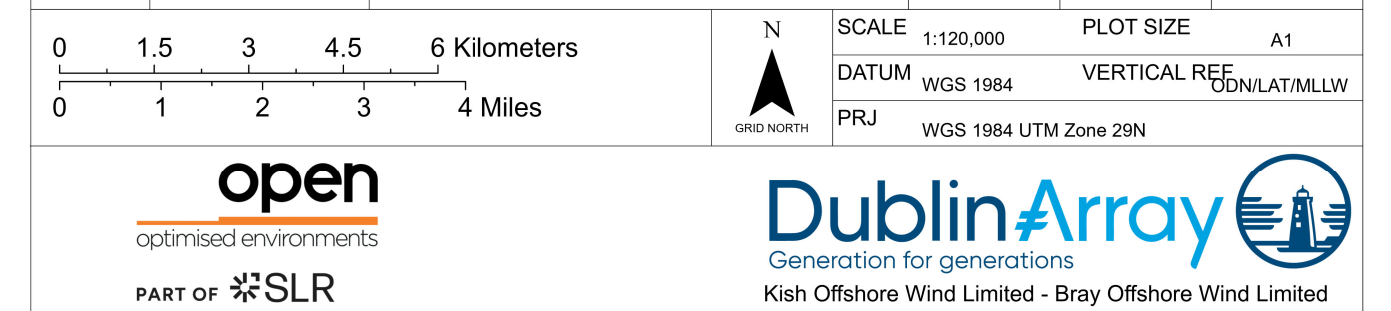
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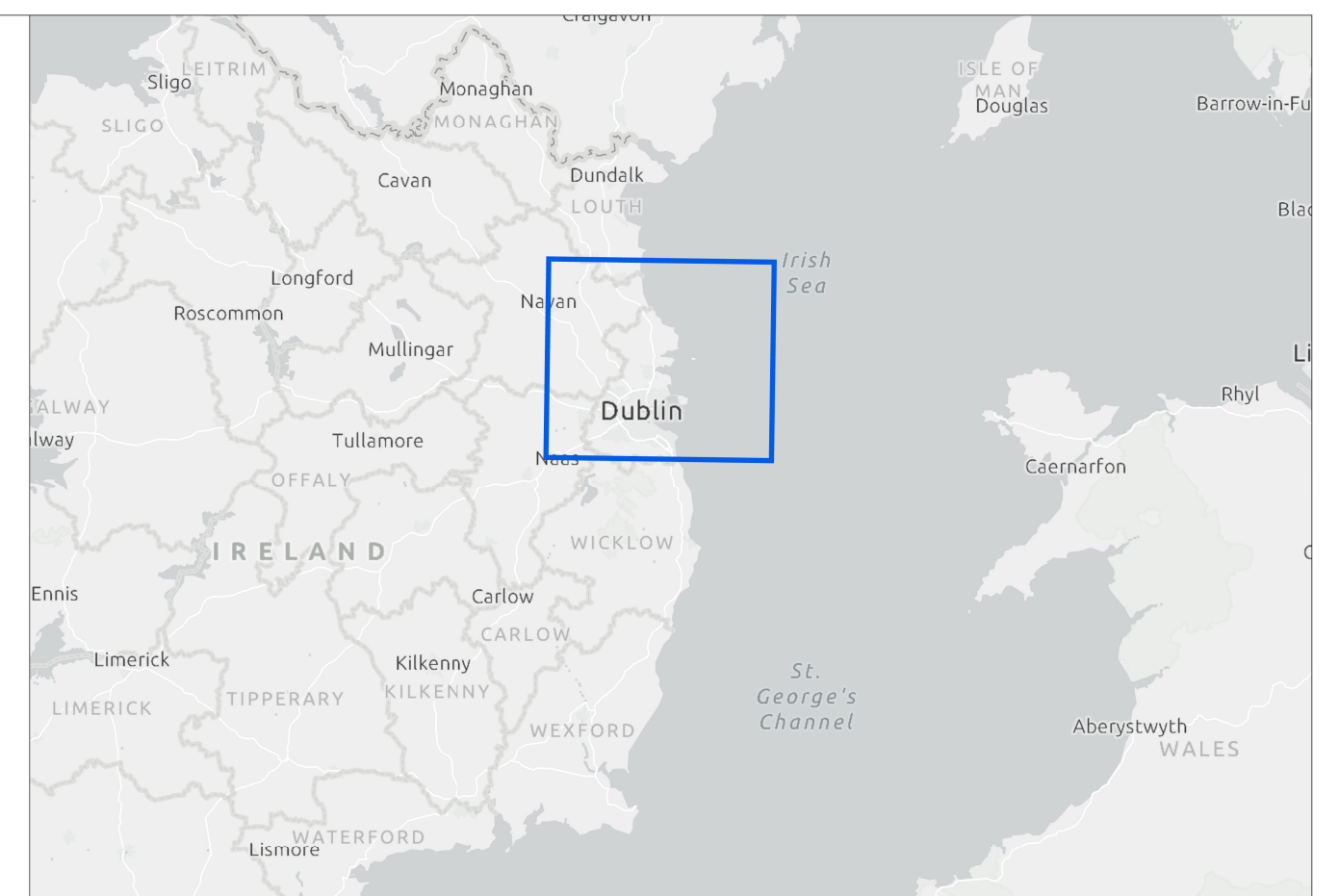
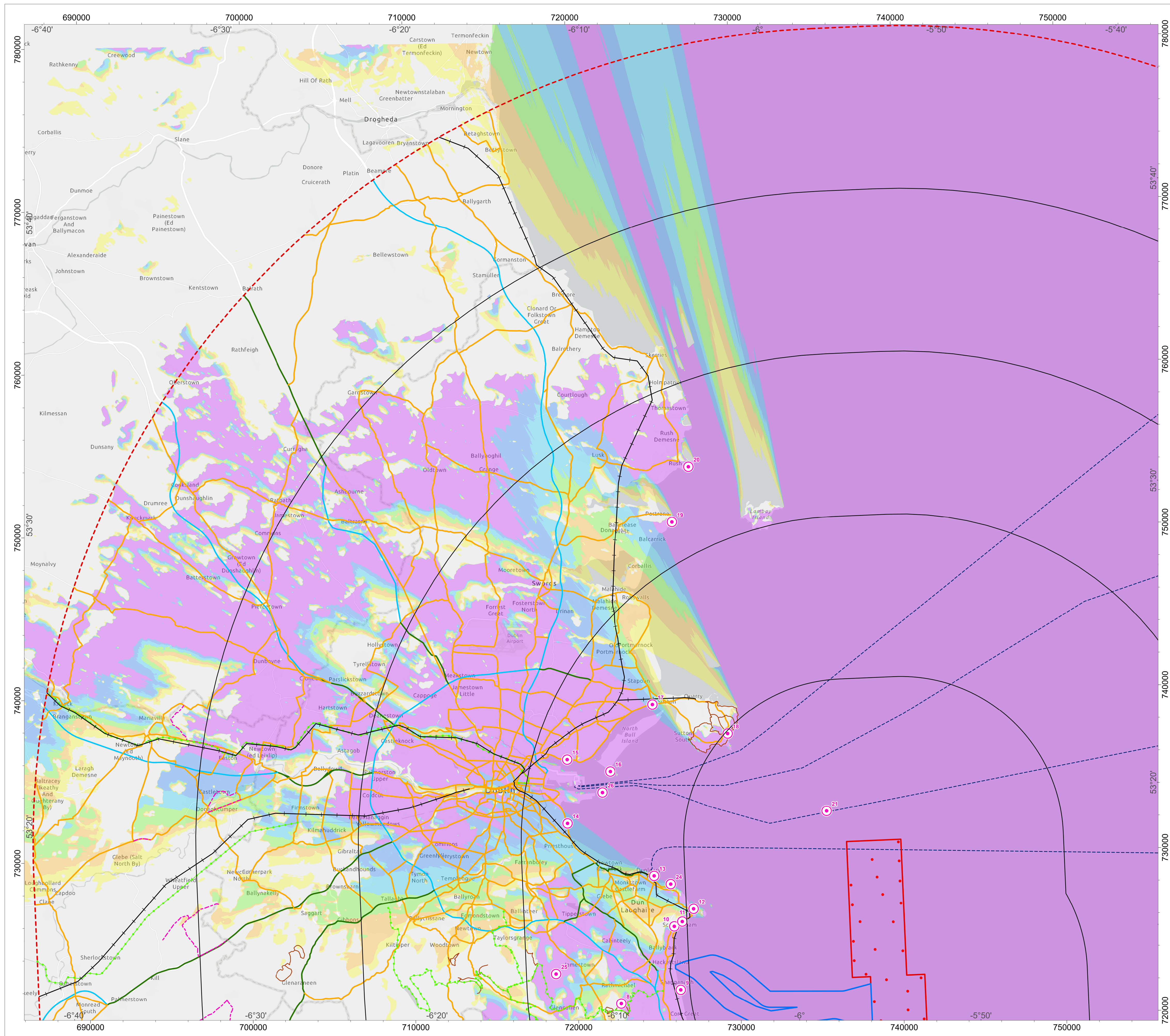
Dublin Array




DRAWING TITLE

Blade Tip ZTV with Landscape Designations - South

DRAWING NUMBER: 3.15.14b			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	#####
02	2024-09-13	DRAFT	SH	JP	#####
03	2024-10-23	DRAFT	SH	JP	#####





- | | |
|---|---|
| • Proposed WTGs | 20. Tayleur's Point_Rush |
|  Array Area | 21. Offshore view 7km south-east of Howth Head |
|  10km Radii | 24. Forty Feet |
|  50km Study Area | 25. Balleyedmonduff |
|  Export Cable Corridor | 26. Poolbeg Pier |
|  Viewpoint | --- Kildare Scenic Route |
| 8. Hill at Carrick Gollogan, near Shankill | --- Long Distance Waymarked Way |
| 9. Shankhill Beach | — Walking Trail |
| 10. Killiney Hill Obelisk | — Railway |
| 11. Vico Road seating area | — Motorway |
| 12. Coliemore Harbour seating area | — National Route |
| 13. Dun Laoghaire Harbour East Pier | — Regional Route |
| 14. R131 near Martello Tower, Sandymount | --- Ferry Crossing |
| 15. Promenade near Clontarf village | Blade Tip ZTV |
| 16. Near the Bull Wall, North Bull Island | No. of Blade Tips Theoretically Visible |
| 17. R105, Sutton |  1 - 7 |
| 18. Howth Head |  8 - 14 |
| 19. Car park near Martello Tower, Portrane |  15 - 21 |
| |  22 - 28 |
| |  29 - 35 |
| |  36 - 39 |

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

FINAL

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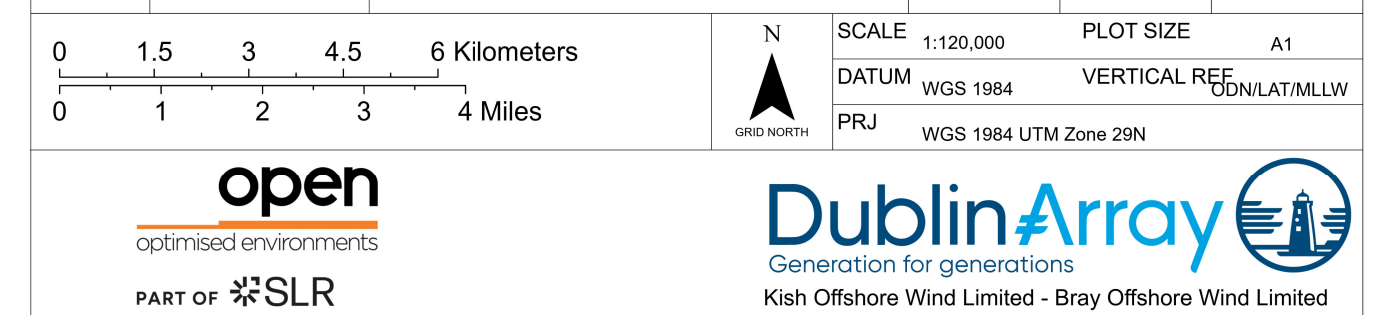
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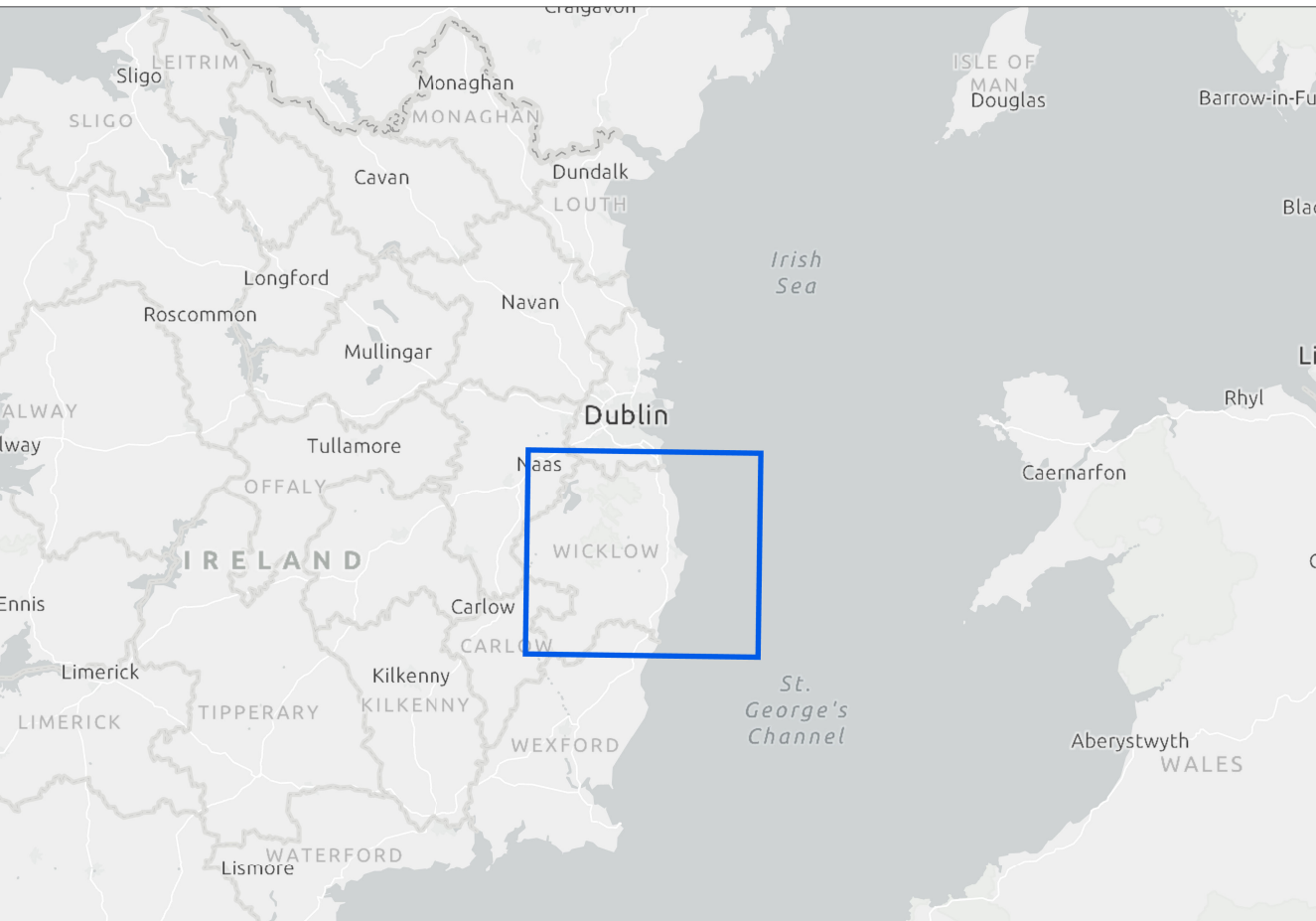
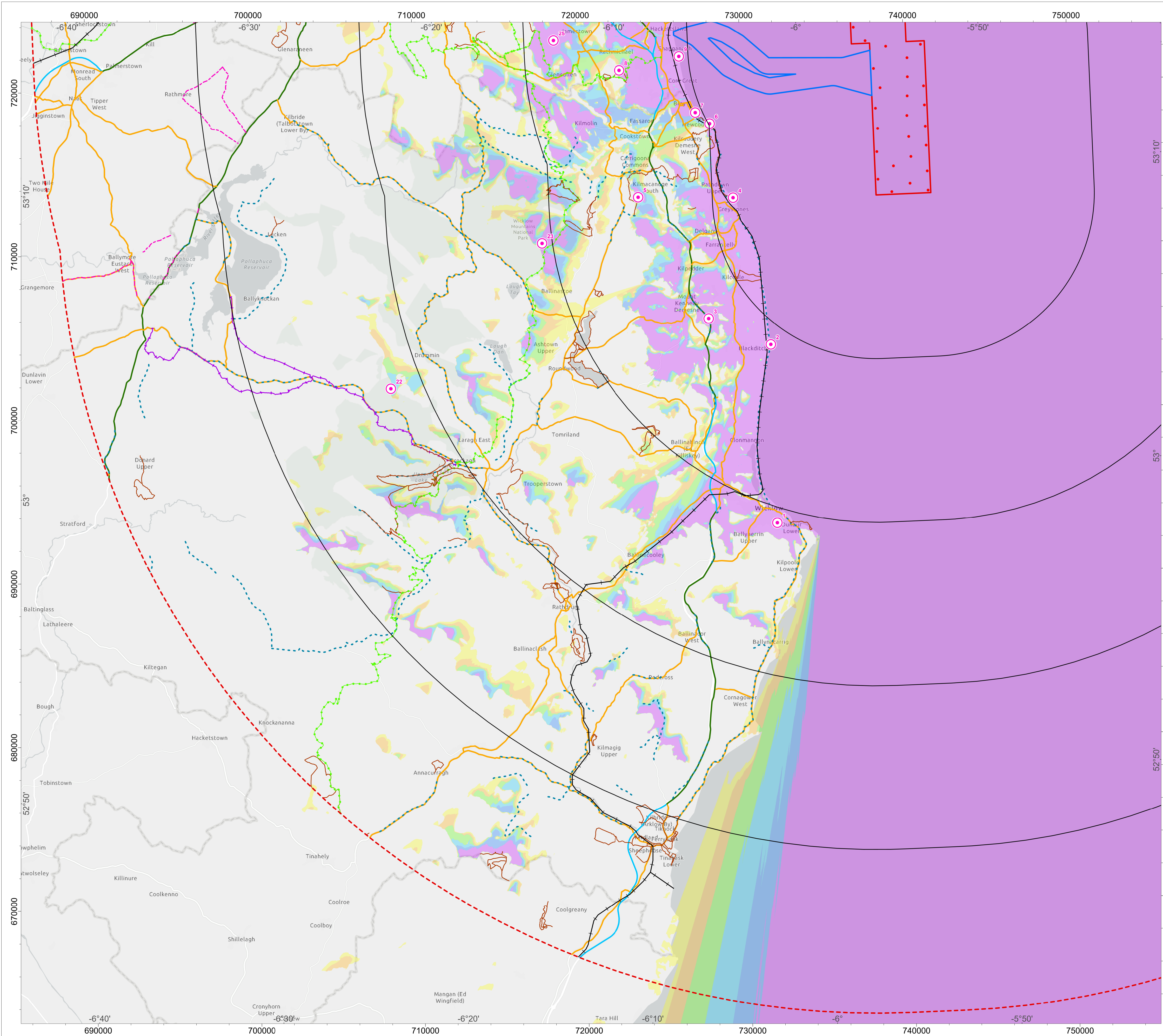
Dublin Array

DRAWING TITLE

Blade Tip ZTV with Visual Receptors - North

DRAWING NUMBER: 3.15.15a			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-15	DRAFT	SH	JP	#####
02	2024-09-13	DRAFT	SH	JP	#####
03	2024-10-23	DRAFT	SH	JP	#####





- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Viewpoint
- 1. Scenic Car Park, Wicklow Town
- 2. Six Mile Point, Newcastle
- 3. N11 road near Kilmullin
- 4. Greystones Harbour
- 5. Sugar Loaf Mountain
- 6. Bray Head walkway
- 7. Bray Promenade
- 8. Hill at Carrick Gollogan, near Shankill
- 9. Shankhill Beach
- 22. Tonelagee
- 23. Djouce Mountain
- 25. Balleyedmonduff
- Kildare Scenic Route
- Wicklow Prospects
- Long Distance Waymarked Way
- Pilgrim Path
- Walking Trail
- Railway
- Motorway
- National Route
- Regional Route
- Blade Tip ZTV
- No. of Blade Tips Theoretically Visible
- 1 - 7
- 8 - 14
- 15 - 21
- 22 - 28
- 29 - 35
- 36 - 39

Blade tip:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

FINAL

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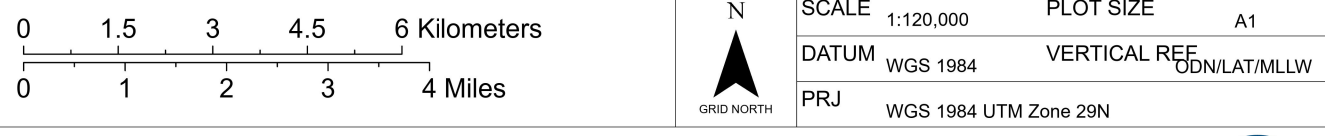
PROJECT TITLE

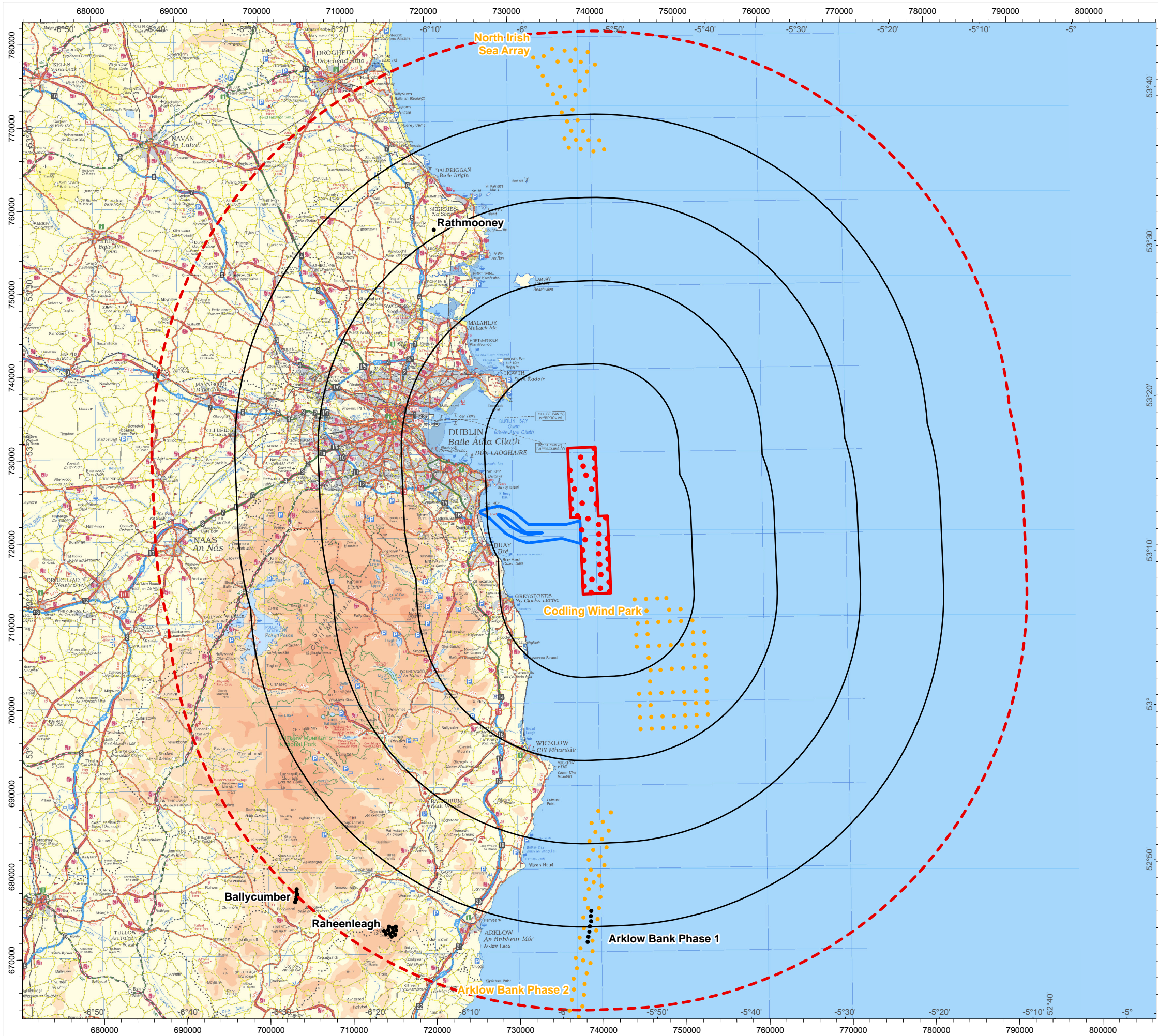
Dublin Array

DRAWING TITLE

Blade Tip ZTV with Visual Receptors - South

DRAWING NUMBER: 3.15.9c			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-14	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####





- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Cumulative Wind Farm Status
 - Operational
 - Phase 1

DRAWING STATUS

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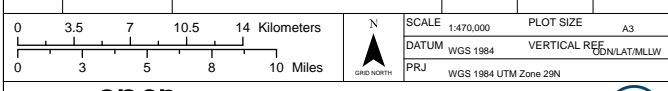
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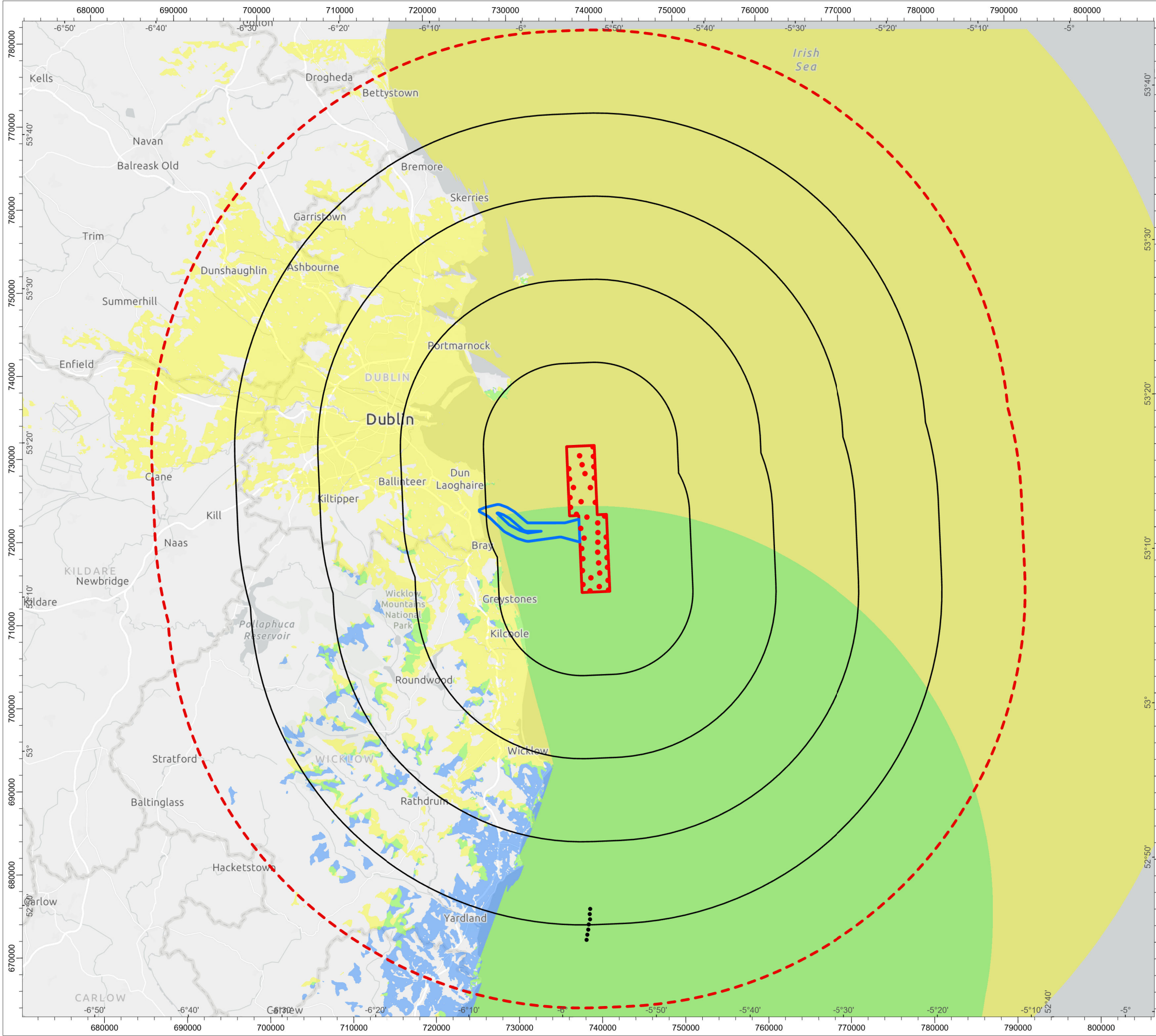
Dublin Array

DRAWING TITLE

Cumulative Projects

DRAWING NUMBER: 3.15.16			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-12-22	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####





Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Arklow Bank Phase 1 Operational Turbines

Dublin Array Theoretically Visible

Arklow Bank Phase 1 Theoretically Visible

Combined Theoretical Visibility

Arklow P1 BT:	126.8m above LAT		
Dublin Array BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Cumulative ZTV with Arklow Bank Phase 1

DRAWING NUMBER: 3.15.17			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-07	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

01020304050607080910

Kilometers

012345678910

Miles

N

open

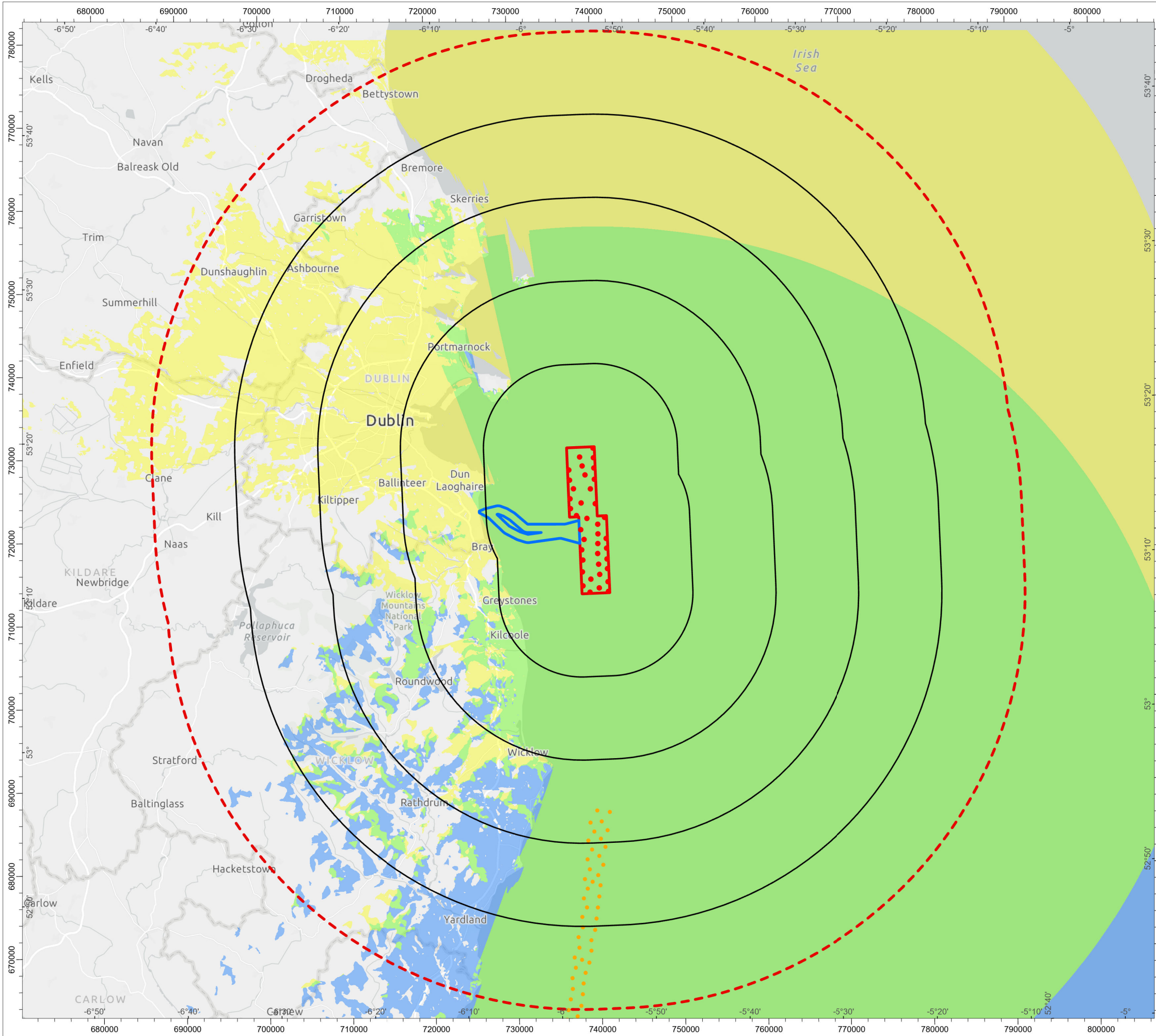
optimised environments

PART OF SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Arklow Bank Phase 2 Turbines

Dublin Array Theoretically Visible

Arklow Bank Phase 2 Theoretically Visible

Combined Theoretical Visibility

Arklow P2 BT:	287m above LAT		
Dublin Array BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Cumulative ZTV with Arklow Bank Phase 2

DRAWING NUMBER: 3.15.18

PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

OPEN NORTH

SCALE 1:470,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

VERTICAL REF. 00N/LAT/MLLW

open

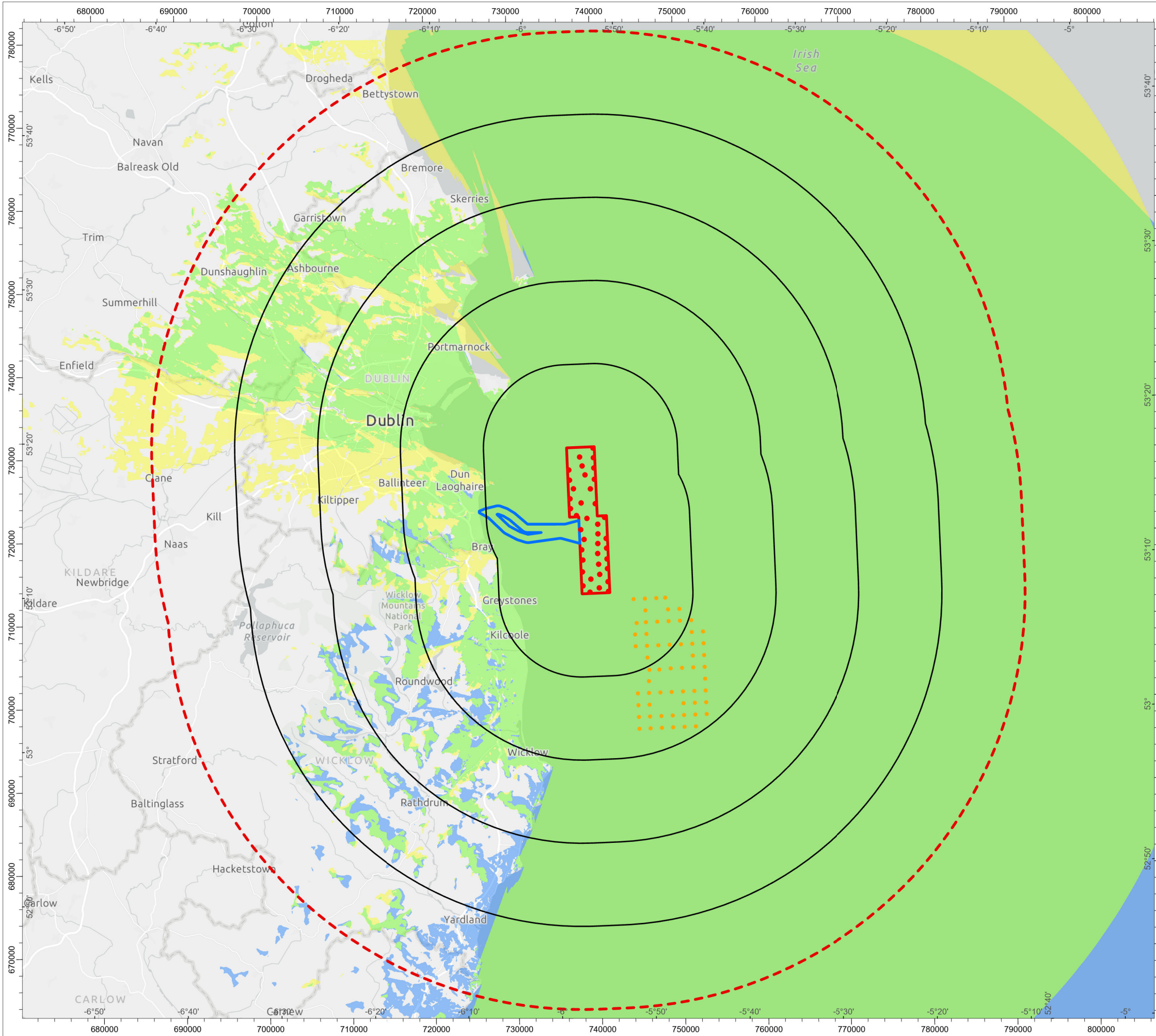
optimised environments

PART OF SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



Proposed WTGs

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Codling Wind Park Turbines

Dublin Array Theoretically Visible

Codling Wind Park Theoretically Visible

Combined Theoretical Visibility

Codling BT:	314m above LAT		
Dublin Array BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Cumulative ZTV with Codling Wind Park

DRAWING NUMBER: 3.15.19

PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-07	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

SCALE 1:470,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A3

VERTICAL REF. ODN/LAT/MLLV

open

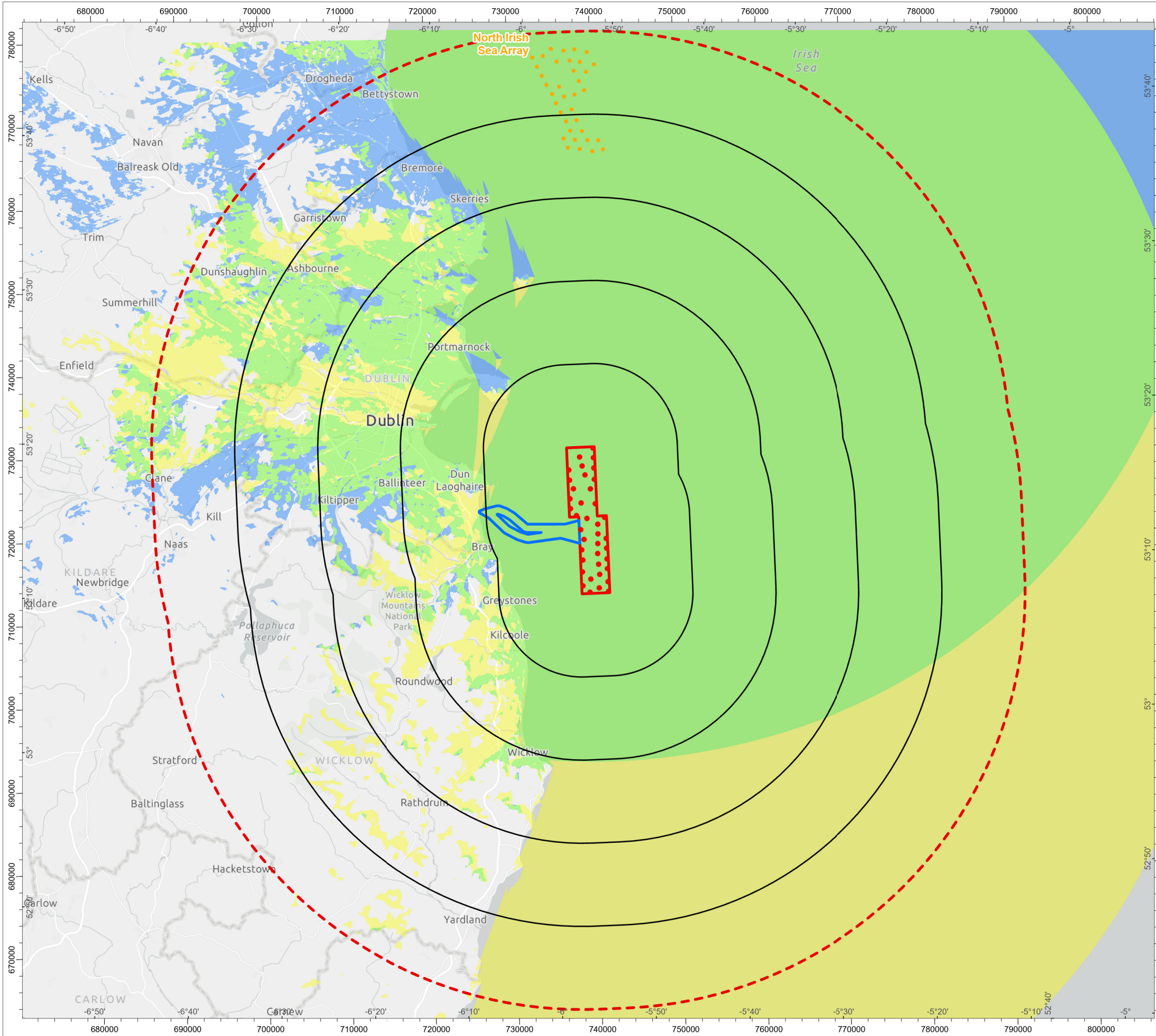
optimised environments

PART OF SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- North Irish Sea Array Turbines
- Dublin Array Theoretically Visible
- North Irish Sea Array Theoretically Visible
- Combined Theoretical Visibility

NISA BT:	316m above LAT		
Dublin Array BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

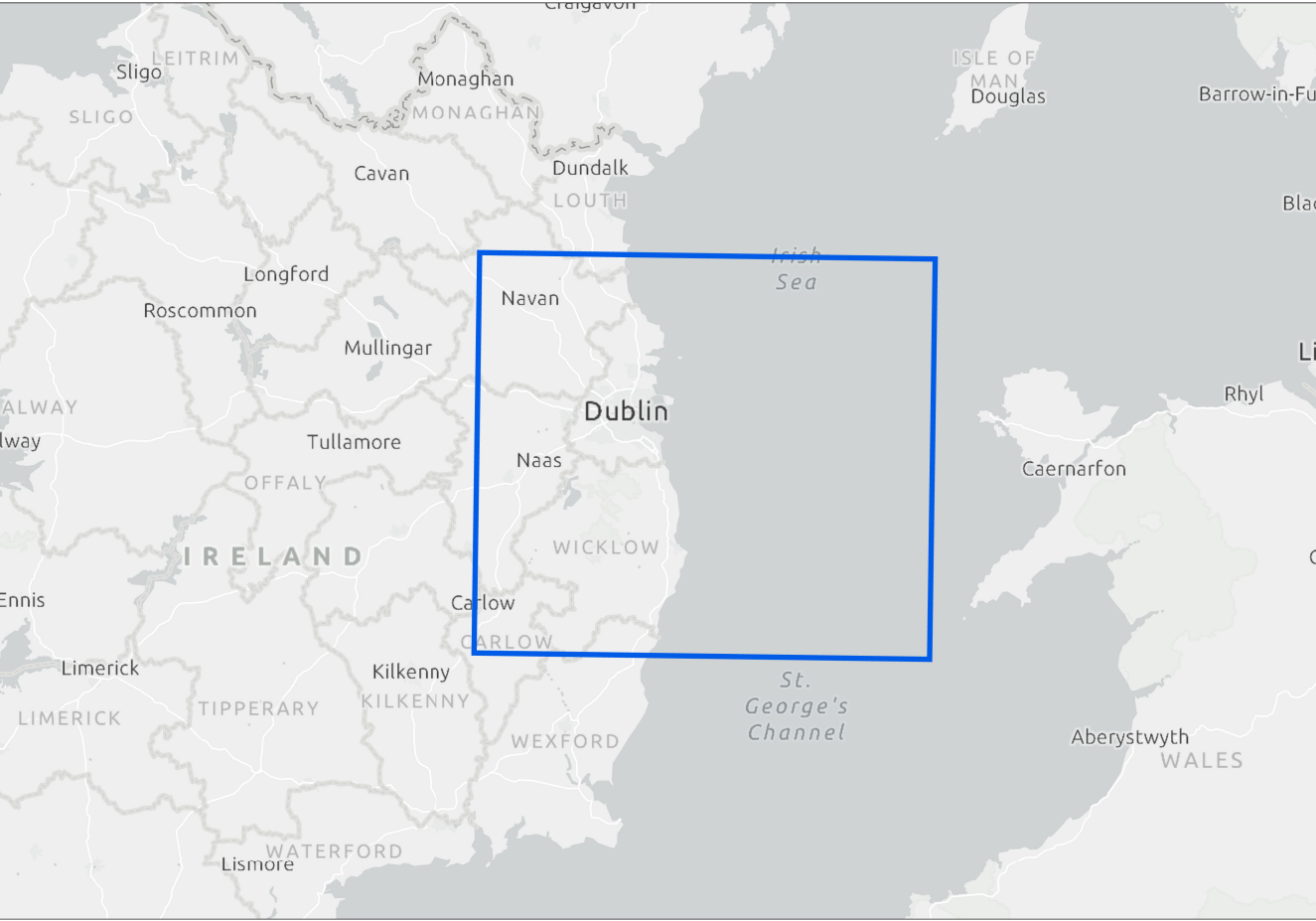
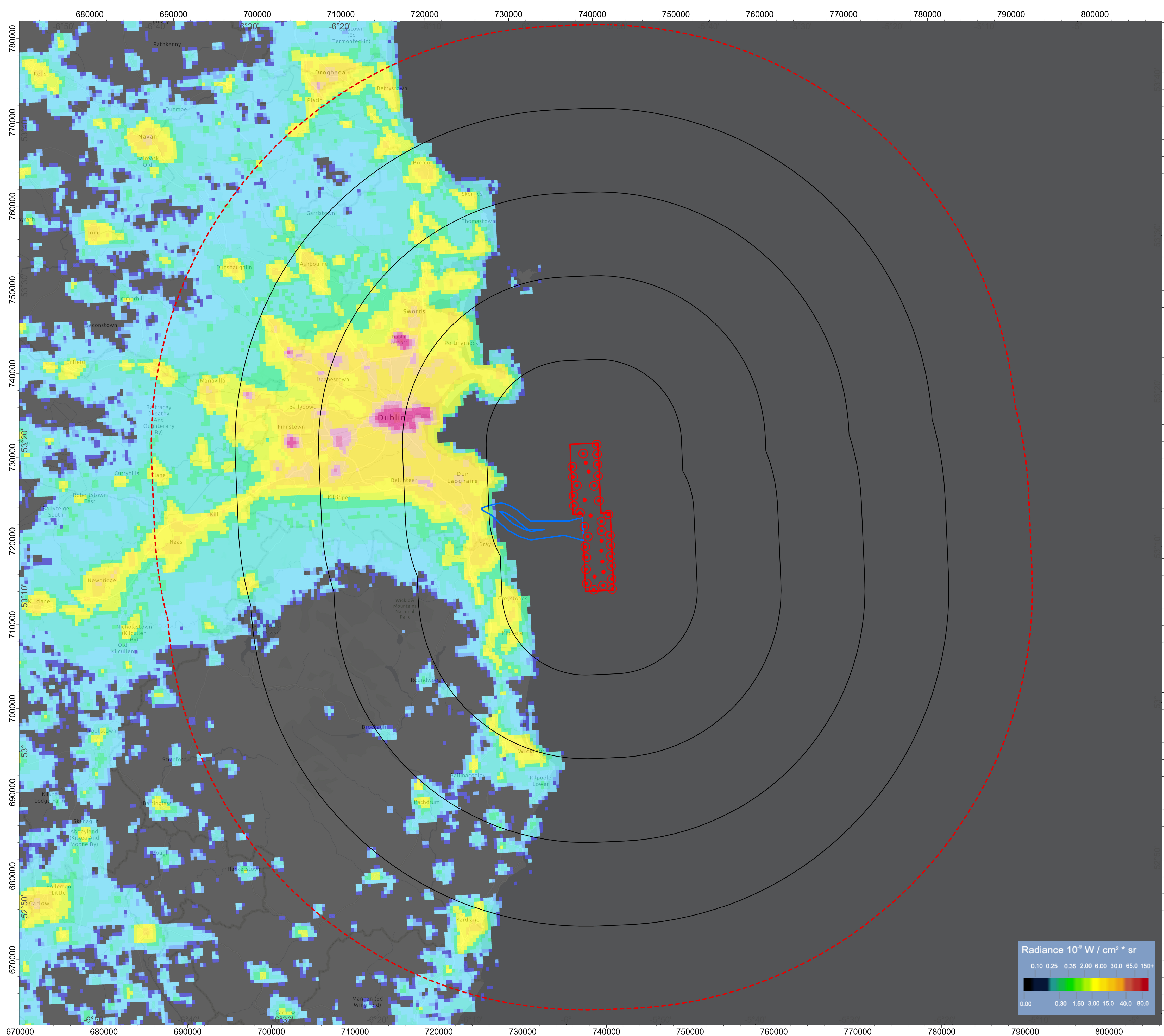
Cumulative ZTV with North Irish Sea Array

DRAWING NUMBER: 3.15.20

PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####





Proposed WTGs with Aviation Lighting

Proposed WTGs without Aviation Lighting

Array Area

10km Radii

50km Study Area

Export Cable Corridor

DRAWING STATUS

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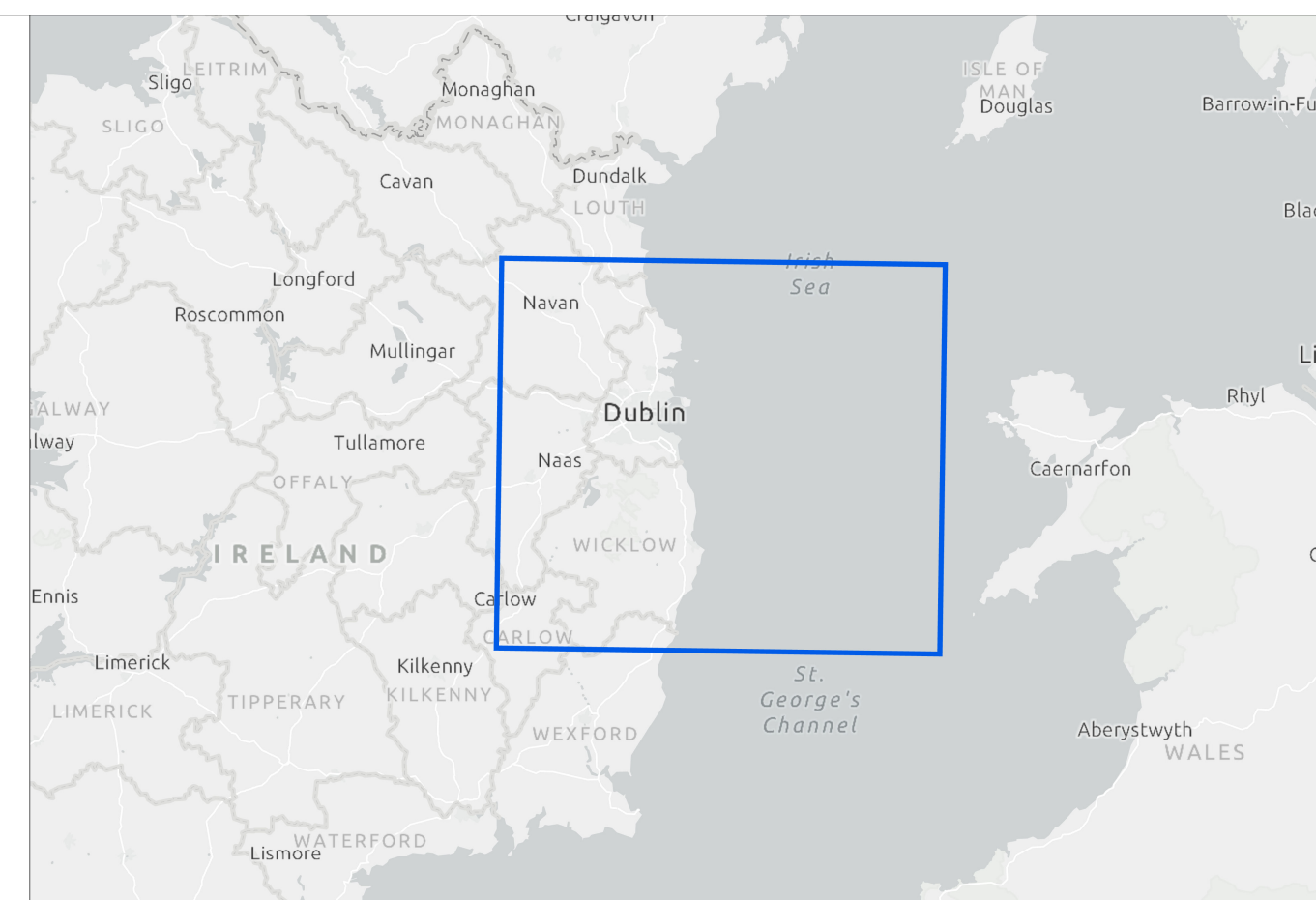
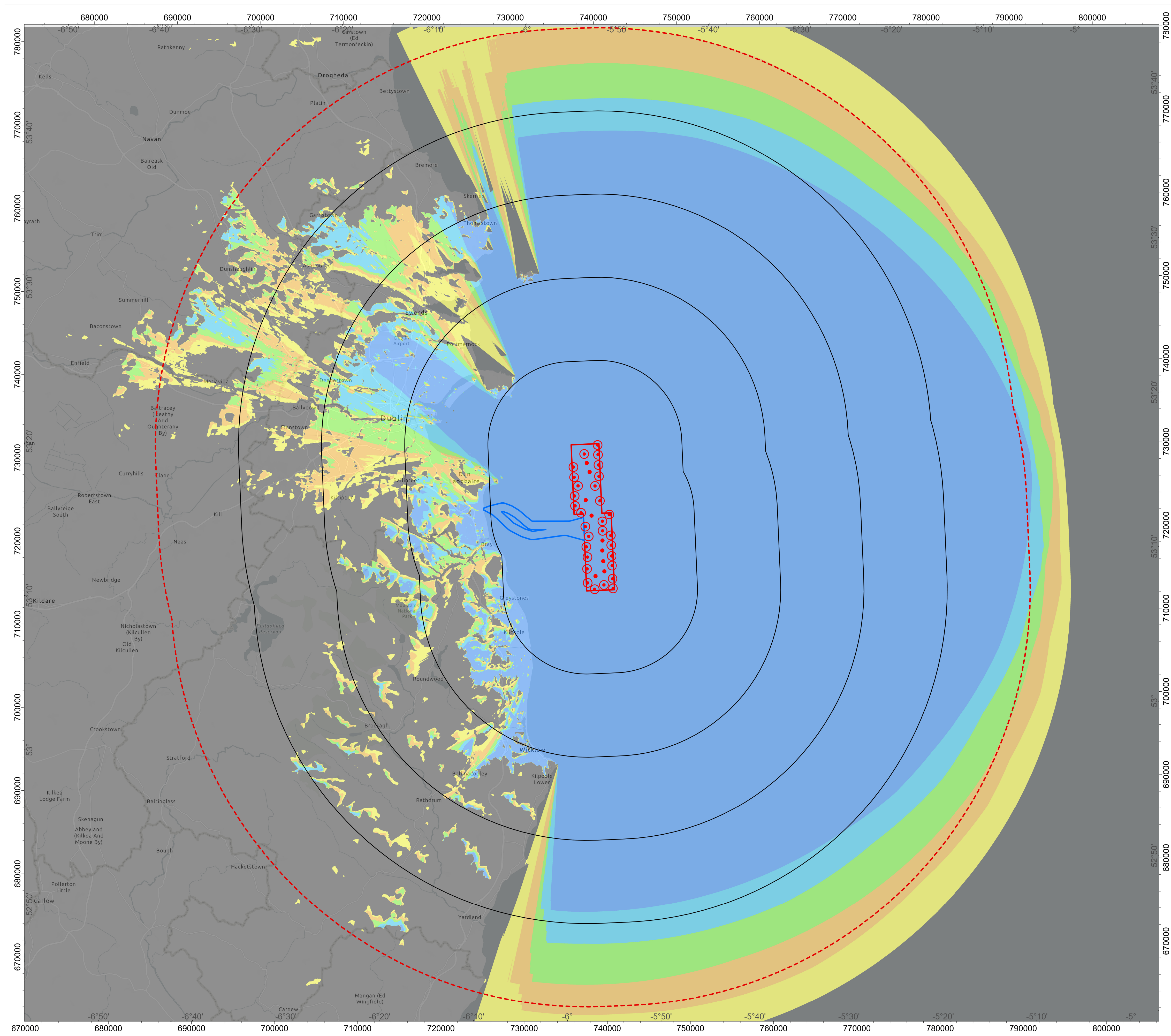
PROJECT TITLE

Dublin Array

DRAWING TITLE

Baseline Lighting

DRAWING NUMBER:		3.15.27	PAGE NUMBER:		1 of 1
VER	DATE	REMARKS	DRAW	CHEK	APRD
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02	2024-09-13	DRAFT	SH	JP	####
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0 3 5 8 10 Miles			PLOT SIZE A1 VERTICAL REF. DDN/LAT/MLLV		
open optimised environments PART OF *SLR			DublinArray Generation for generations Kish Offshore Wind Limited - Bray Offshore Wind Limited		



- Proposed WTGs with Aviation Lighting
- Proposed WTGs without Aviation Lighting
- ▭ Array Area
- ▭ 10km Radii
- ▭ 50km Study Area
- ▭ Export Cable Corridor

Hub Aviation Lighting ZTV
No. of Hub Lights Theoretically Visible

1 - 7

8 - 14

15 - 21

22 - 28

29 - 30

Hub Height:	170.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS	
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PROJECT TITLE

Dublin Array

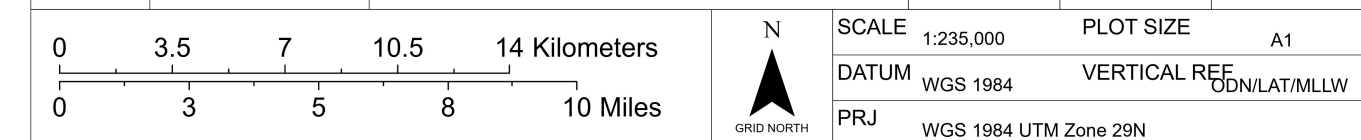
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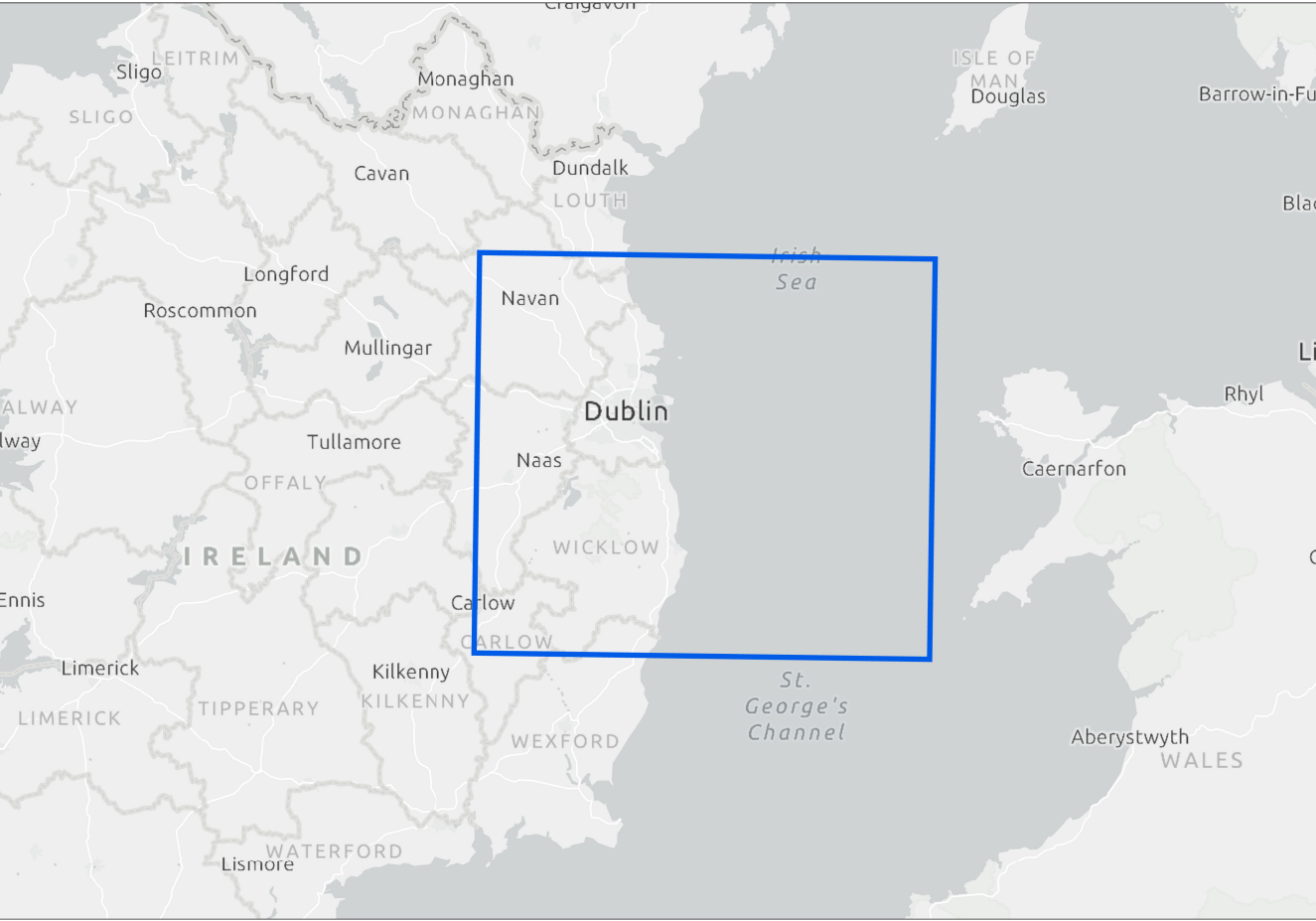
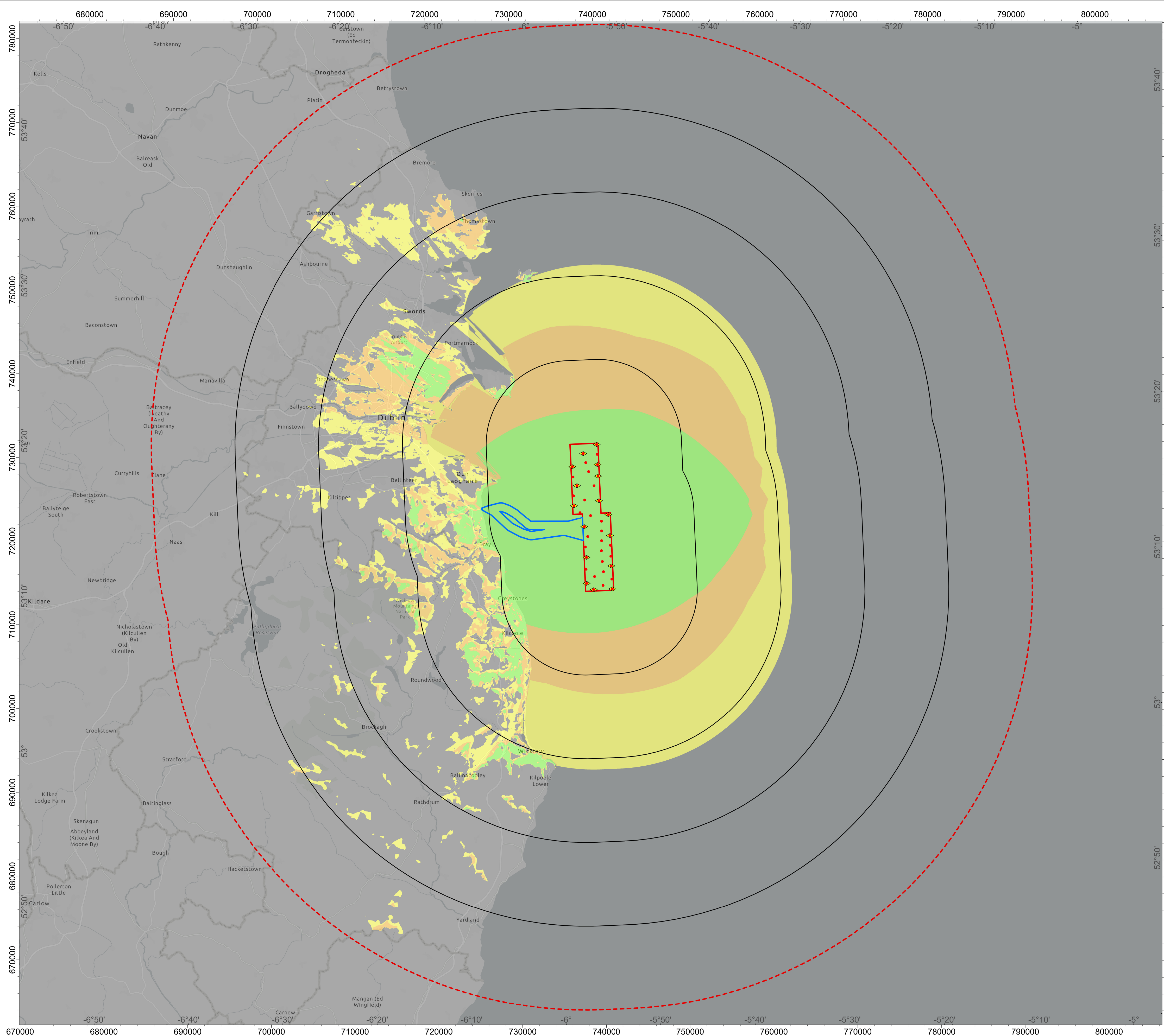
Hub Aviation Lighting ZTV

DRAWING NUMBER: **3.15.28**

PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-16	DRAFT	SH	JP	#####
02	2024-09-13	DRAFT	SH	JP	#####
03	2024-10-23	DRAFT	SH	JP	#####





Proposed WTGs with Marine Navigation Lighting

Proposed WTGs without Marine Navigation Lighting

Array Area

10km Radii

50km Study Area

Export Cable Corridor

Marine Navigation Lighting ZTV

No. of Marine Navigation Lights Theoretically Visible

1 - 7

8 - 14

15 - 16

Hub Height:	20m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Marine Navigation Lighting ZTV

DRAWING NUMBER: 3.15.23			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-16	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	DRAFT	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

ORIENT NORTH

SCALE 1:235,000

DATUM WGS 1984

PRJ WGS 1984 UTM Zone 29N

PLOT SIZE A1

VERTICAL REF. DATUM LAT/LLW

open

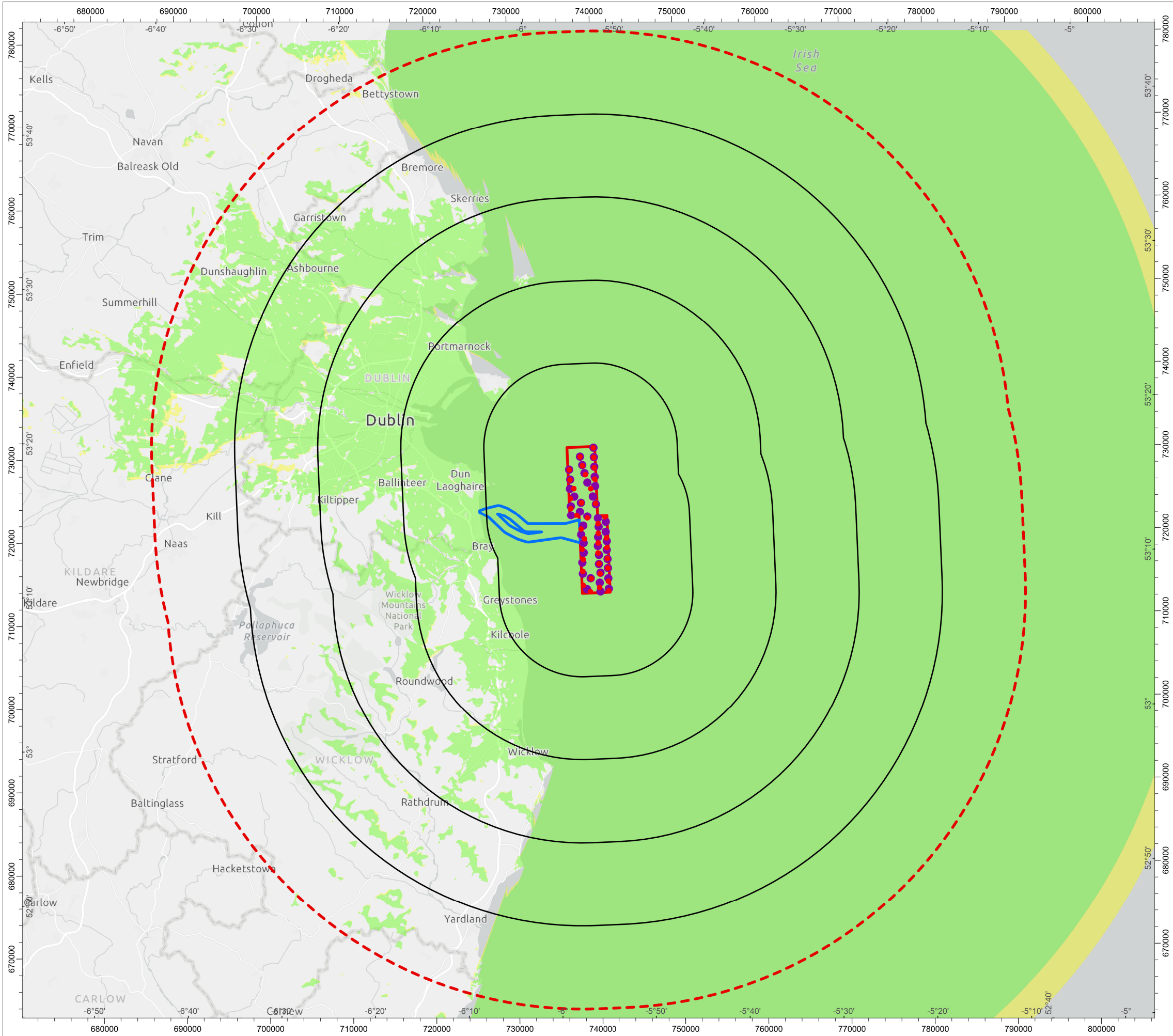
optimised environments

PART OF *SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs - Layout 1
- Proposed WTGs - Layout 2
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Dublin Array Layout 1 (39 Turbines) Theoretically Visible
- Dublin Array Layout 2 (45 Turbines) Theoretically Visible
- Combined Theoretical Visibility

Layout 2 BT:	281.6m above LAT		
Layout 1 BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

FINAL

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Comparative ZTV - Layout 1 and Layout 2

DRAWING NUMBER: 3.15.24			PAGE NUMBER: 1 of 1		
VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-07	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

0 3.5 7 10.5 14 Kilometers

0 3 5 8 10 Miles

N

GRID NORTH

SCALE 1:470,000

DATUM WGS 1984

PLOT SIZE A3

VERTICAL REF. DATUM LAT/LLW

PRJ WGS 1984 UTM Zone 29N

open

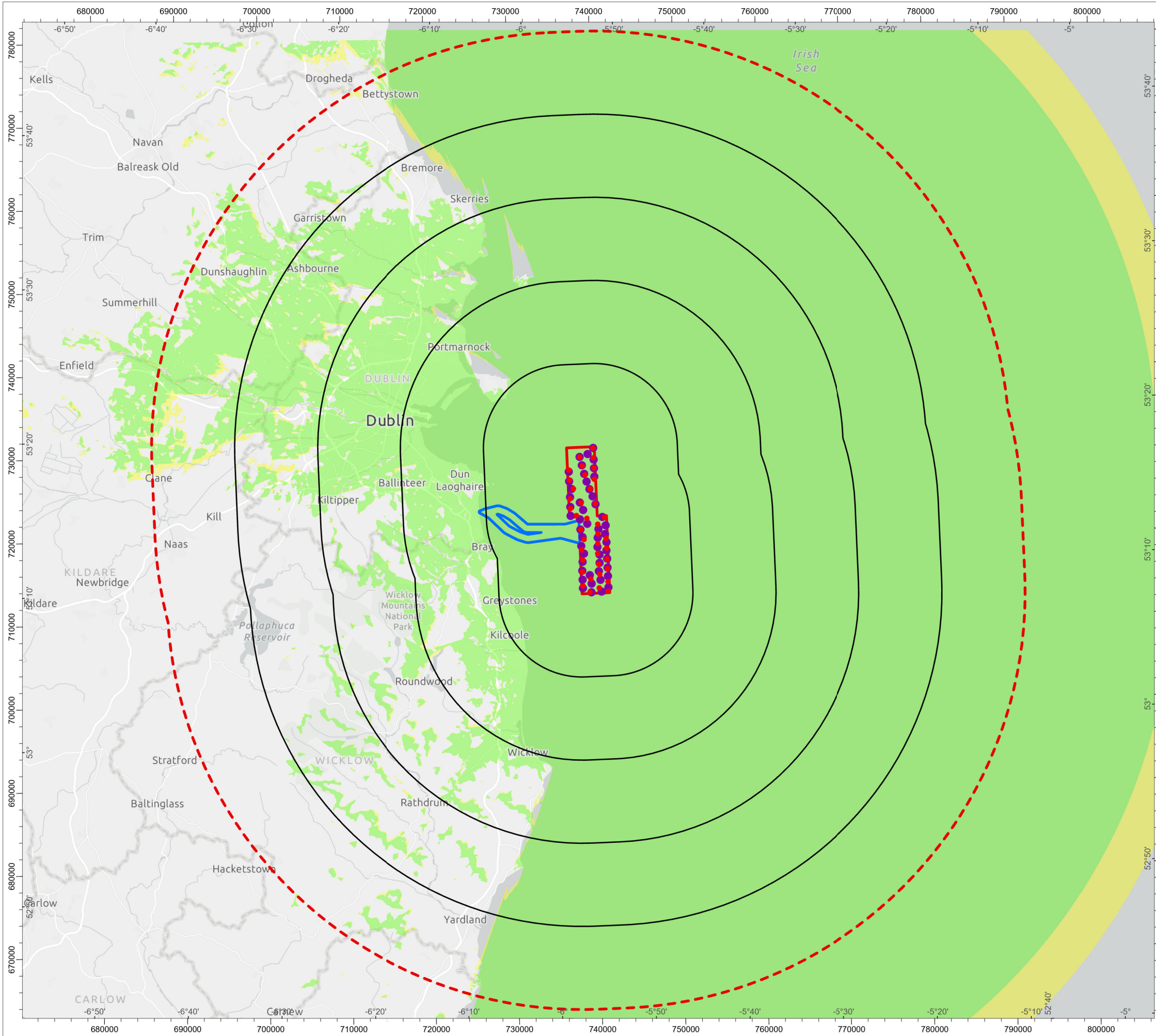
optimised environments

PART OF SLR

DublinArray

Generation for generations

Kish Offshore Wind Limited - Bray Offshore Wind Limited



- Proposed WTGs - Layout 1
- Proposed WTGs - Layout 3
- Array Area
- 10km Radii
- 50km Study Area
- Export Cable Corridor
- Dublin Array Layout 1 (39 Turbines) Theoretically Visible
- Dublin Array Layout 3 (50 Turbines) Theoretically Visible
- Combined Theoretical Visibility

Layout 3 BT:	267.6m above LAT		
Layout 1 BT:	309.6m above LAT	Observer height:	2m
DTM:	OSI Series 1 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

DRAWING STATUS

FINAL

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PROJECT TITLE

Dublin Array

DRAWING TITLE

Comparative ZTV - Layout 1 and Layout 3

DRAWING NUMBER: 3.15.25 PAGE NUMBER: 1 of 1

VER	DATE	REMARKS	DRAW	CHEK	APRD
01	2023-11-07	DRAFT	SH	JP	####
02	2024-09-13	DRAFT	SH	JP	####
03	2024-10-23	FINAL	SH	JP	####

