

Kipeto Wind Farm

Photomontages and ZTV Maps

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Prepared by:



Date:	Rev:	Description:	Drawn By:
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Agent Address:

Galetech Energy Developments,
Cootehill Enterprise Center,
Cootehill,
Co. Cavan
Ireland

Job Title:

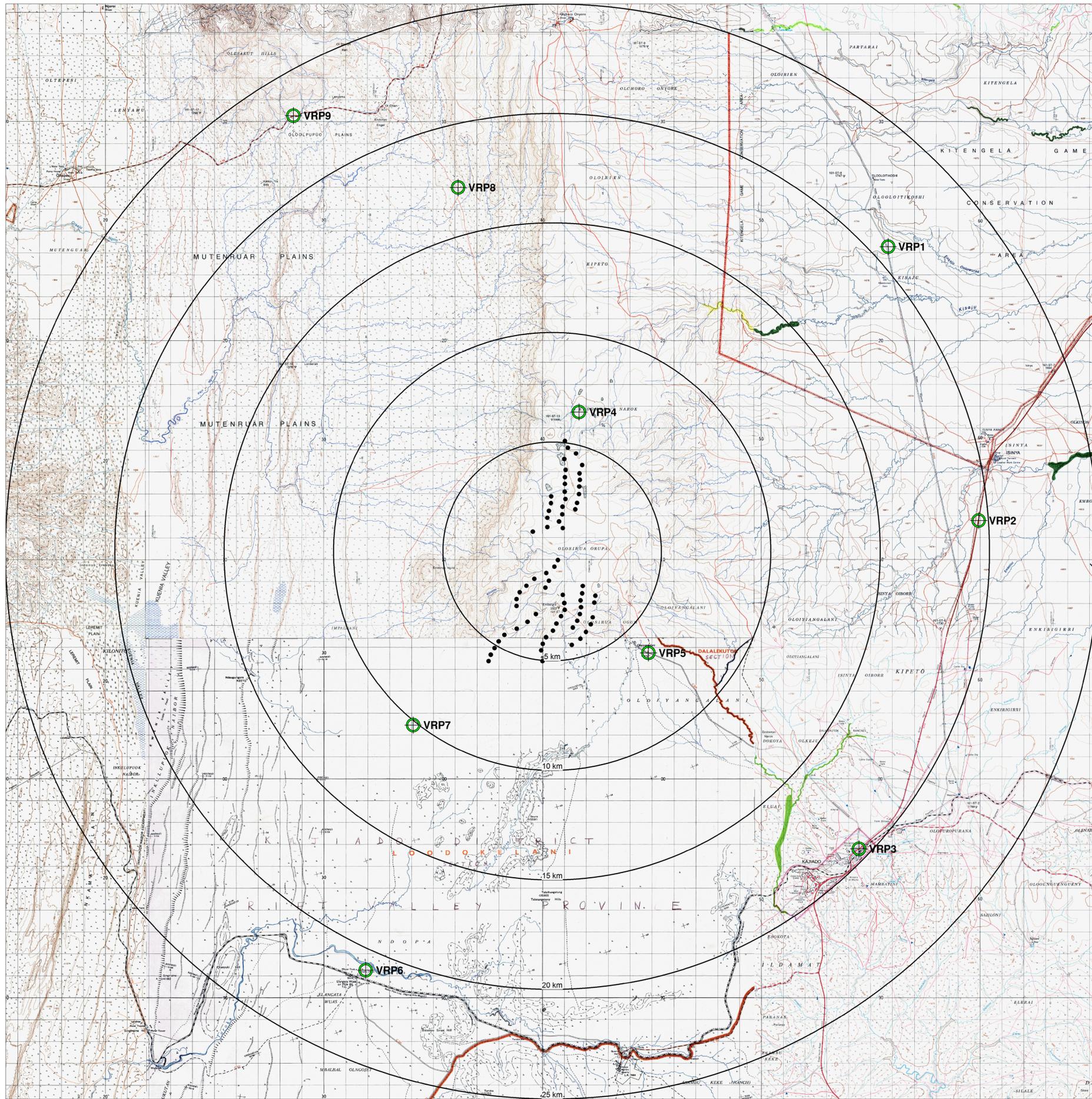
Kipeto Wind Farm

Client:

Kipeto Wind Farm

Drawing Title:

Drawing No.:	Revision No.:	
	0	
Scale:	Date:	
	23/12/2011	
Drawn By:	Checked By:	Confirmed By:
C.M.P	S.D	D.S



Legend:

Viewshed Reference Points



Description:
Location of Viewshed Reference Points for the proposed wind farm

A photomontage was prepared from each Viewshed Reference Point

Date:	Rev:	Description:	Drawn By:
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Prepared by:



Galetech Energy Developments,
Coochill Enterprise Center,
Coochill,
Co. Cavan, Ireland

Client:

Kipeto Wind Farm

Job Title:

Kipeto Wind Farm

Drawing Title:

Fig 1: Location of VRPs

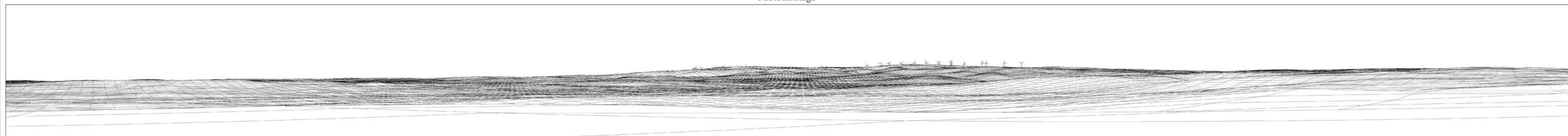
Drawing No:	CMP/120101/Vis/001	Revision No.:	0
Scale:	A1 - 1:95,000	Date:	23/12/2011
Drawn By:	C.M.P	Checked By:	S.D
		Confirmed By:	D.S



Existing Landscape



Photomontage



Wireframe Photomontage



Galetech Energy Developments
Unit 3,
Cootehill Enterprise Centre,
Cootehill, Co. Cavan, Ireland,

Figure 2 - Viewshed Reference

Point VRP1

Description:
Photomontage taken from along a road
between Kiserian & Isinya.

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 224 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 17,107m

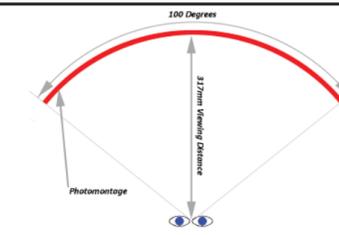
Angle of view: 100 degrees

Viewpoint elevation: 1706m AOD

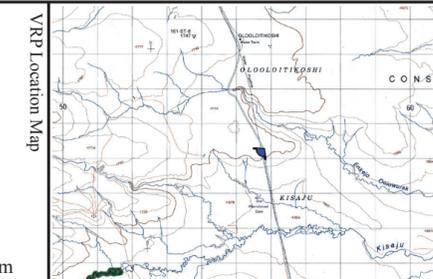
Viewpoint grid reference:

Eastings: 255888
Northing: 9823980

Turbine Dimensions:
Rotor Diameter: 100m
Hub Height: 80m



This photomontage should be viewed as a
cylindrical projection with a radius of 317mm

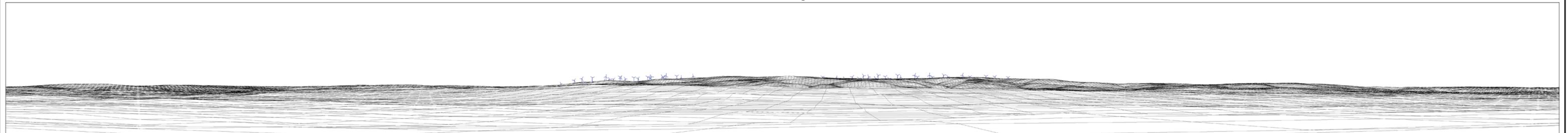




Existing Landscape



Photomontage



Wireframe Photomontage



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Cootehill, Co. Cavan, Ireland,

Figure 3 - Viewshed Reference

Point VRP2

Description:
Photomontage taken from along the A104
south of Isinya Village

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 266 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 17,852m

Angle of view: 100 degrees

Viewpoint elevation: 1662m AOD

Viewpoint grid reference:

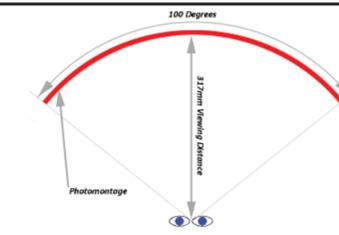
Eastings: 260027

Northing: 9811476

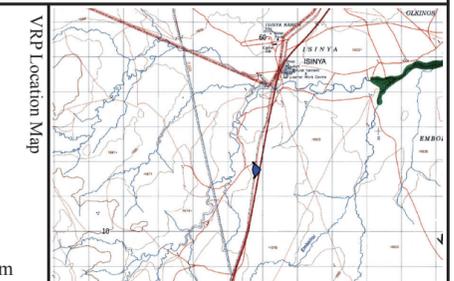
Turbine Dimensions:

Rotor Diameter: 100m

Hub Height: 80m



This photomontage should be viewed as a
cylindrical projection with a radius of 317mm

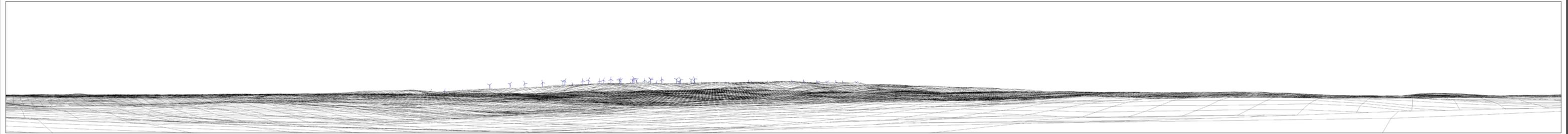




Existing Landscape



Photomontage



Wireframe Photomontage



Galetech Energy Developments
Unit 3,
Cootehill Enterprise Centre,
Cootehill, Co. Cavan, Ireland,

Figure 4 - Viewshed Reference

Point VRP3

Description:
Photomontage taken from along the A104 at
Kajido Village

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 319 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 15,930m

Angle of view: 100 degrees

Viewpoint elevation: 1733m AOD

Viewpoint grid reference:

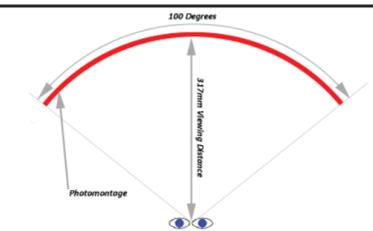
Eastings: 254553

Northing: 9796488

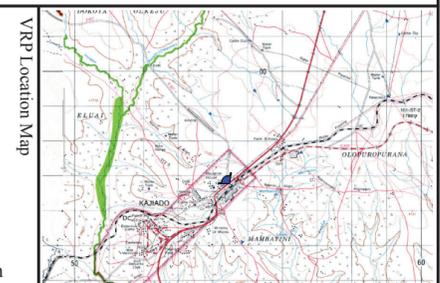
Turbine Dimensions:

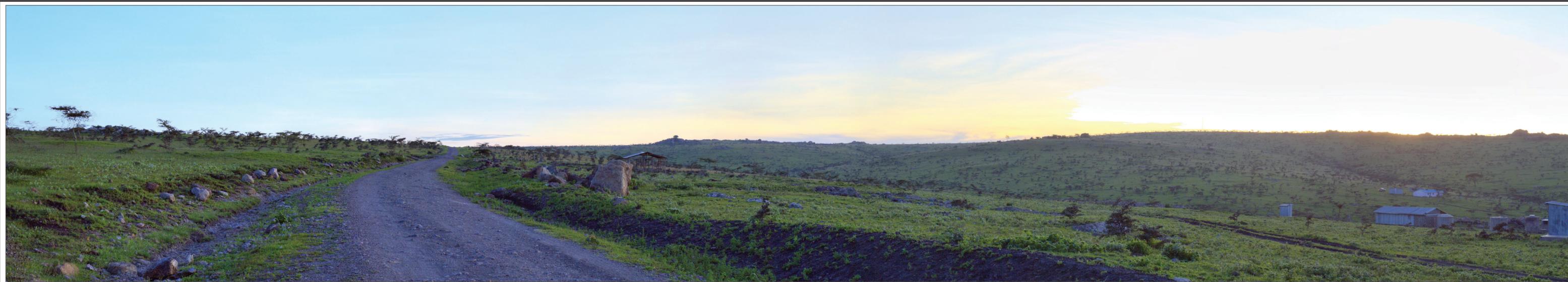
Rotor Diameter: 100m

Hub Height: 80m



This photomontage should be viewed as a cylindrical projection with a radius of 317mm

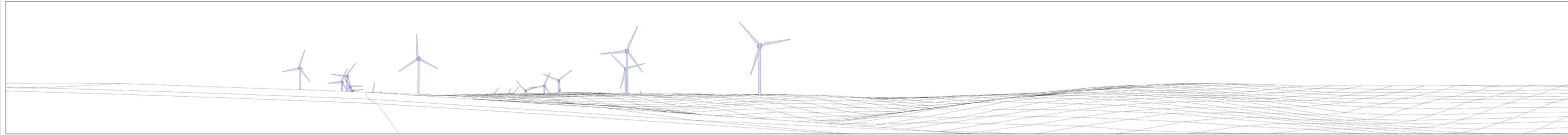




Existing Landscape



Photomontage



Wireframe Photomontage



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Figure 5 - Viewshed Reference

Point VRP4

Description:
Photomontage taken from along a local road to the north of the proposed site

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 207 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 1930m

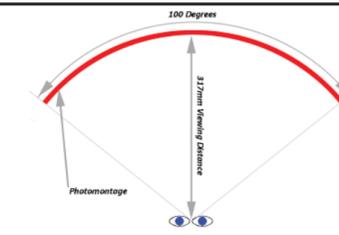
Angle of view: 100 degrees

Viewpoint elevation: 1930m AOD

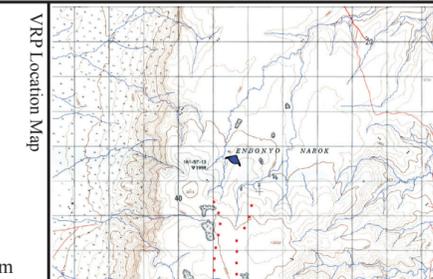
Viewpoint grid reference:

Eastings: 241752
Northing: 9816431

Turbine Dimensions:
Rotor Diameter: 100m
Hub Height: 80m



This photomontage should be viewed as a cylindrical projection with a radius of 317mm

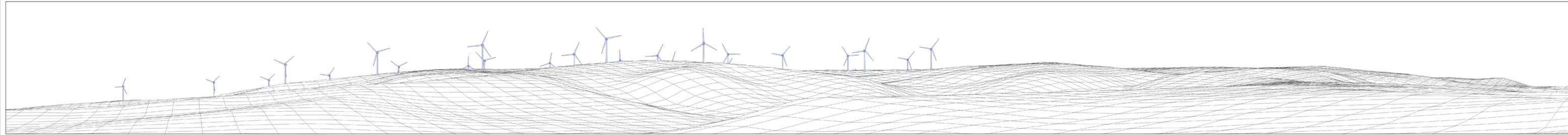




Existing Landscape



Photomontage



Wireframe Photomontage



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Unit 3,
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Cootehill, Co. Cavan, Ireland,

Figure 6 - Viewshed Reference

Point VRP5

Description:
Photomontage taken from a small settle-
ment to the east of the proposed site

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 308 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 2938m

Angle of view: 100 degrees

Viewpoint elevation: 1825m AOD

Viewpoint grid reference:

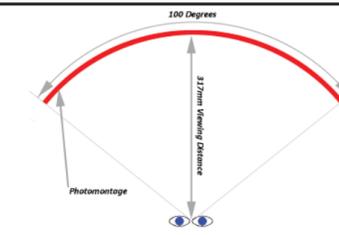
Eastings: 244927

Northing: 9805436

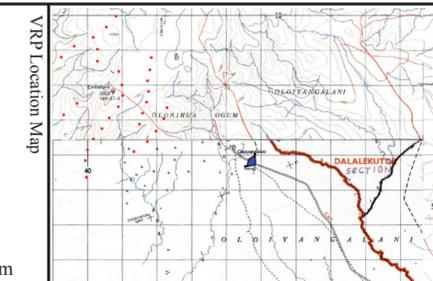
Turbine Dimensions:

Rotor Diameter: 100m

Hub Height: 80m



This photomontage should be viewed as a
cylindrical projection with a radius of 317mm

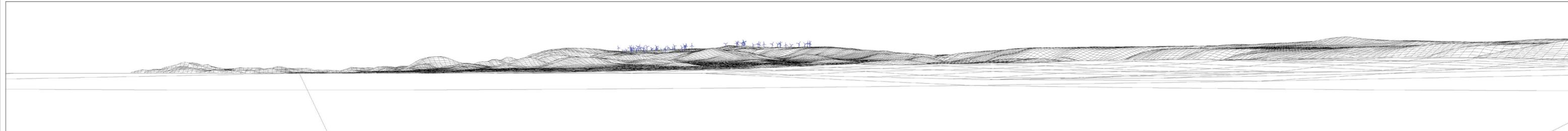




Existing Landscape



Photomontage



Wireframe Photomontage



Galetech Energy Developments
Unit 3,
Cootehill Enterprise Centre,
Cootehill, Co. Cavan, Ireland,

Figure 7 - Viewshed Reference

Point VRP6

Description:
Photomontage taken from Elangata Waus which is a small village to the south west of the proposed site

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 32 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 15,203m

Angle of view: 100 degrees

Viewpoint elevation: 1405m AOD

Viewpoint grid reference:

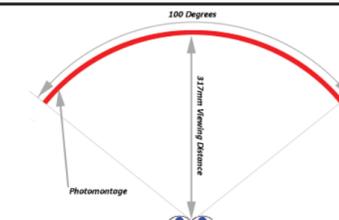
Eastings: 231999

Northing: 9790946

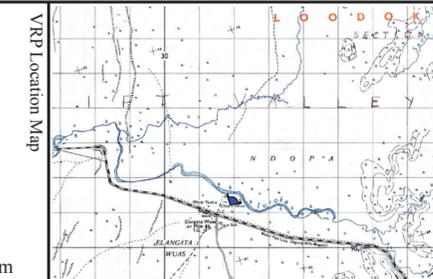
Turbine Dimensions:

Rotor Diameter: 100m

Hub Height: 80m



This photomontage should be viewed as a cylindrical projection with a radius of 317mm

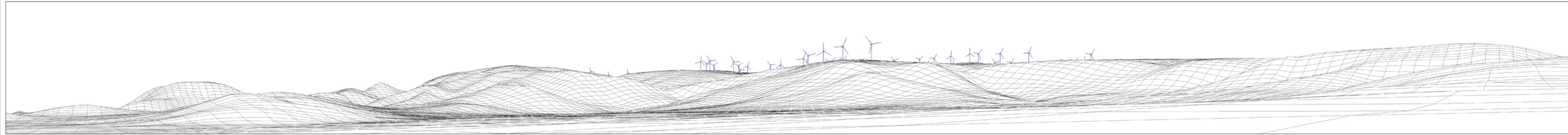




Existing Landscape



Photomontage



Wireframe Photomontage



Galetech Energy Developments
Unit 3,
Cootehill Enterprise Centre,
Cootehill, Co. Cavan, Ireland,

Figure 8 - Viewshed Reference

Point VRP7

Description:
Photomontage taken from a small settle-
ment to the west of the proposed wind farm

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 44 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 4,631m

Angle of view: 100 degrees

Viewpoint elevation: 1461m AOD

Viewpoint grid reference:

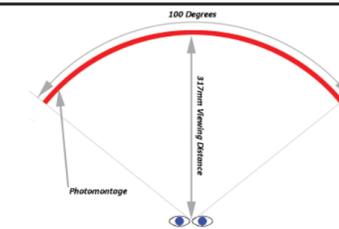
Eastings: 234168

Northings: 9802136

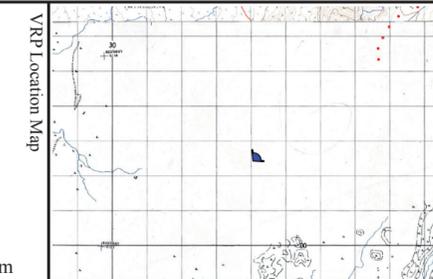
Turbine Dimensions:

Rotor Diameter: 100m

Hub Height: 80m



This photomontage should be viewed as a
cylindrical projection with a radius of 317mm

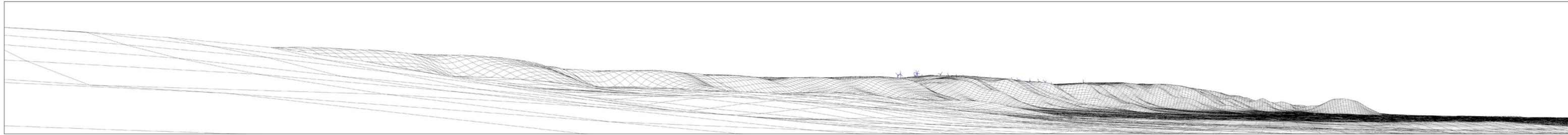




Existing Landscape



Photomontage



Wireframe Photomontage



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Unit 3,
Coothill Enterprise Centre,
Coothill, Co. Cavan, Ireland,

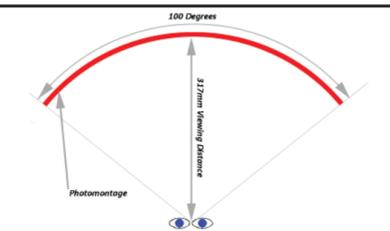
Figure 9 - Viewshed Reference

Point VRP8

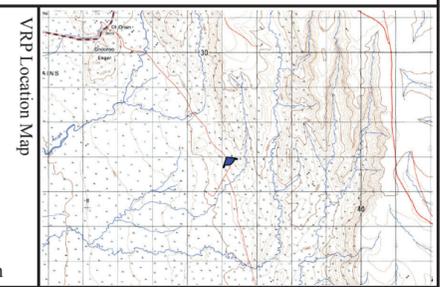
Description:
Photomontage taken from along a local road to the north west of the proposed site

Photograph taken:
11/12/2011

- Recommended viewing distance:** 317mm
- Bearing:** 149 degrees
- Height of Camera above ground:** 1.6m
- Distance to nearest turbine:** 12,559m
- Angle of view:** 100 degrees
- Viewpoint elevation:** 1556m AOD
- Viewpoint grid reference:**
Eastings: 236225
Northing: 9826682
- Turbine Dimensions:**
Rotor Diameter: 100m
Hub Height: 80m



This photomontage should be viewed as a cylindrical projection with a radius of 317mm

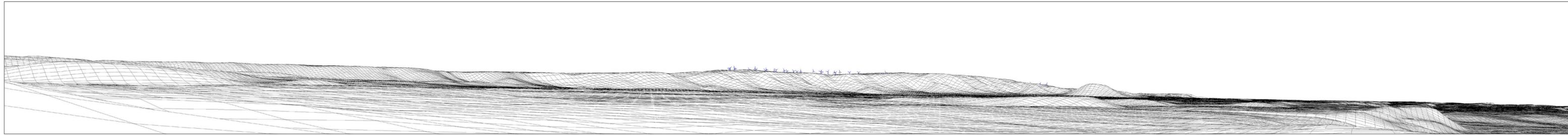




Existing Landscape



Photomontage



Wireframe Photomontage



Galetech Energy Developments
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Cootehill Enterprise Centre,
Cootehill, Co. Cavan, Ireland,

Figure 10 - Viewshed Reference

Point VRP9

Description:
Photomontage taken from along the C58 to the north west of the proposed site

Photograph taken:
11/12/2011

Recommended viewing distance: 317mm

Bearing: 144 degrees

Height of Camera above ground: 1.6m

Distance to nearest turbine: 19,358m

Angle of view: 100 degrees

Viewpoint elevation: 1403m AOD

Viewpoint grid reference:

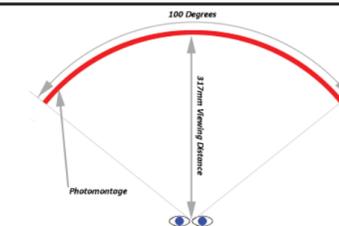
Eastings: 228694

Northing: 9829962

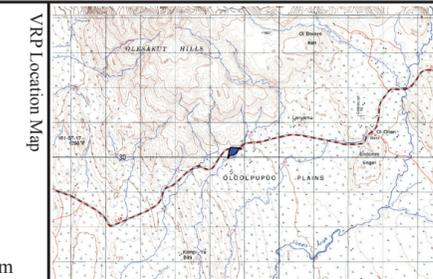
Turbine Dimensions:

Rotor Diameter: 100m

Hub Height: 80m

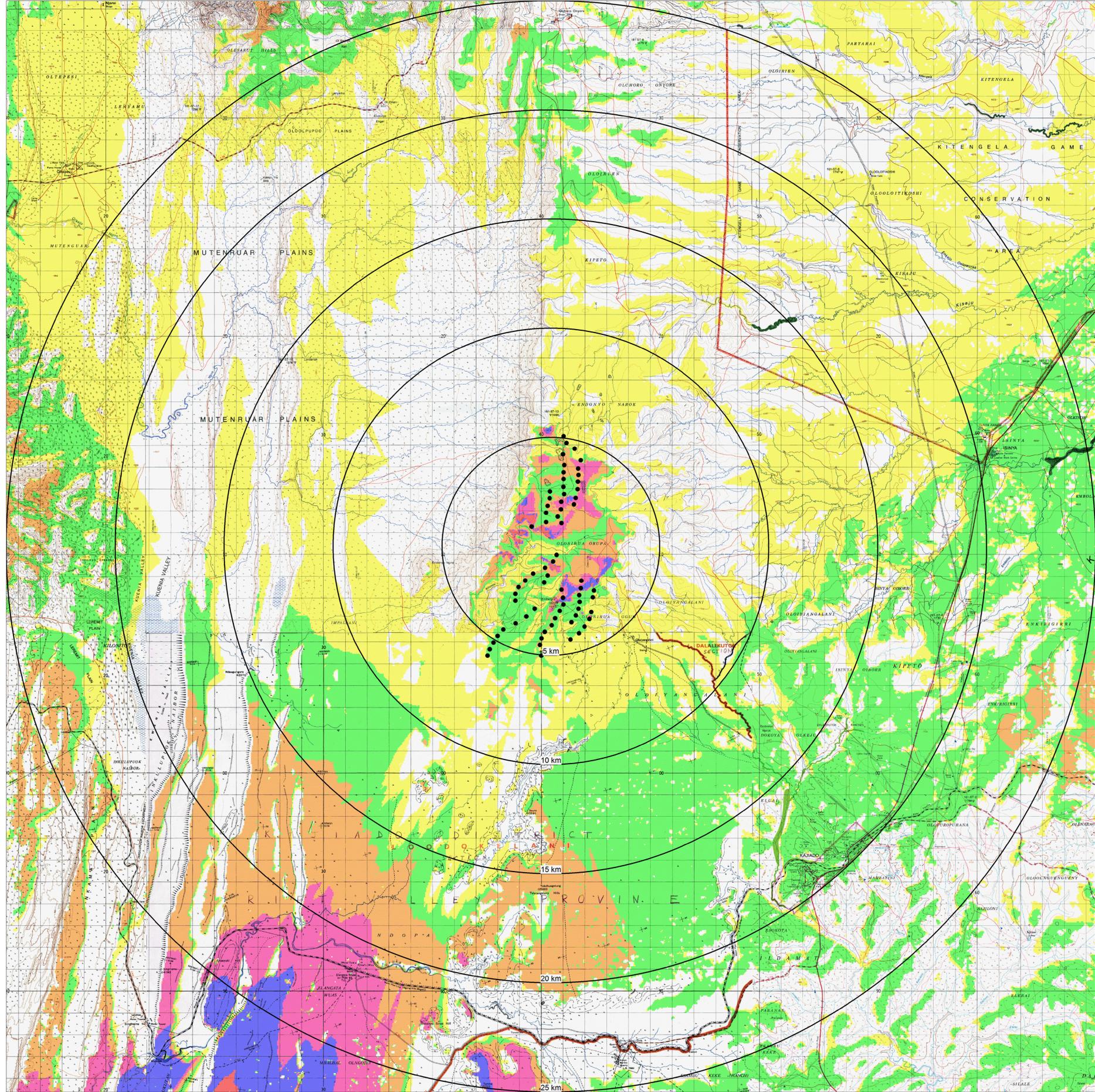
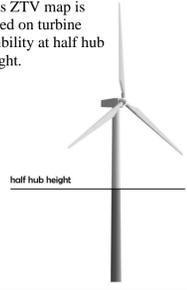


This photomontage should be viewed as a cylindrical projection with a radius of 317mm



VRP Location Map

ZTV Base:
This ZTV map is based on turbine visibility at half hub height.



Legend:

Location of proposed turbines



Number of turbines theoretically visible

Visibility	Color
1 to 15	Yellow
16 to 30	Light Green
31 to 45	Orange
46 to 50	Pink
51 to 55	Blue
56 to 65	Red
66 to 67	Dark Grey

Date: Rev: Description: Drawn By:

Prepared by:



Galetech Energy Developments,
Cootehill Enterprise Center,
Cootehill,
Co. Cavan, Ireland

Client:

Kipeto Wind Farm

Job Title:

Kipeto Wind Farm

Drawing Title:

Figure 11 - ZTV map at half hub height

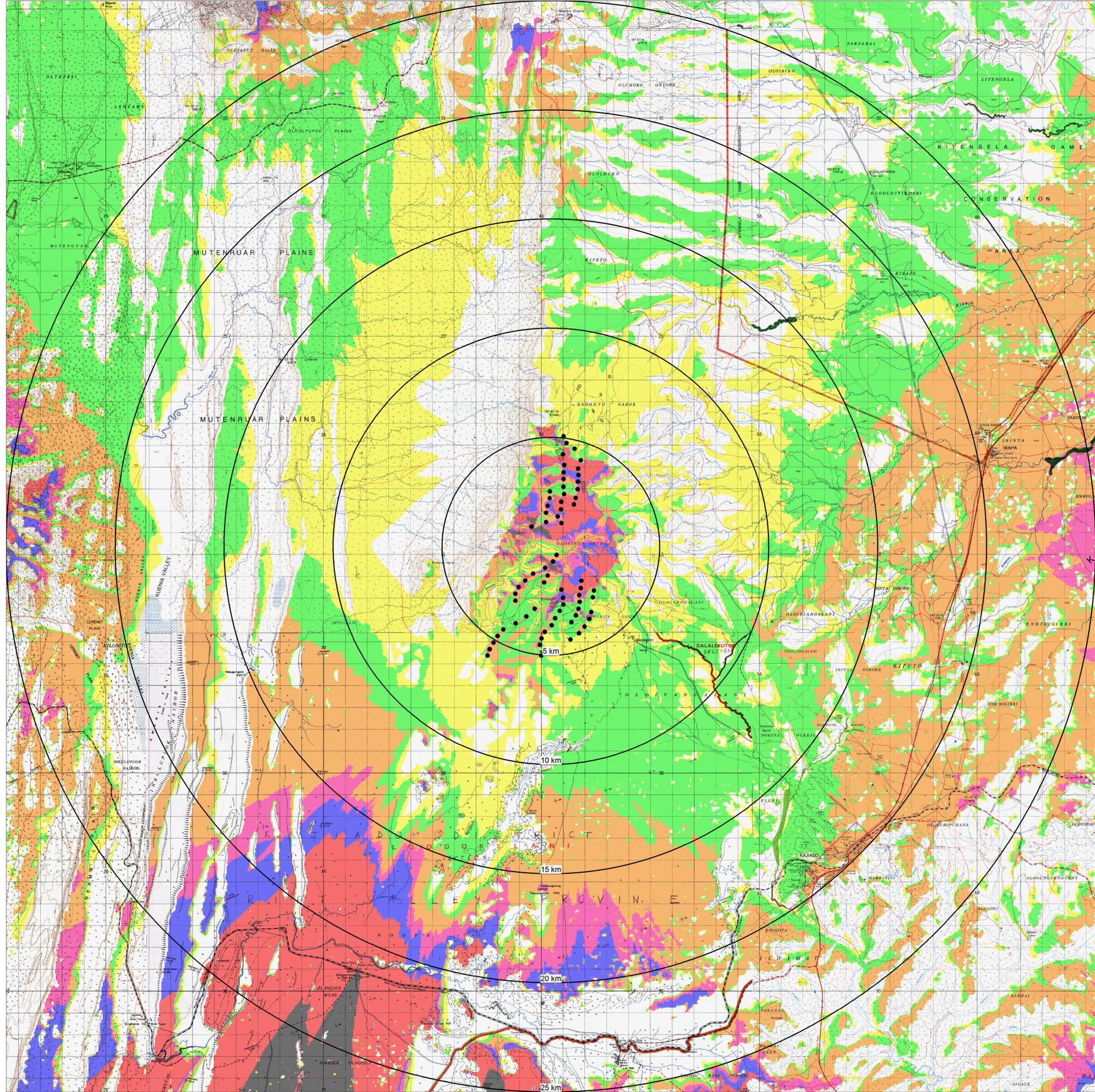
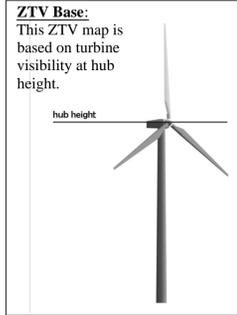
Drawing No.: CMP/120101/Vis/0011	Revision No.: 0
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Scale: A1 - 1:95,000	Date: 23/12/2011
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Drawn By: C.M.P	Checked By: S.D	Confirmed By: D.S
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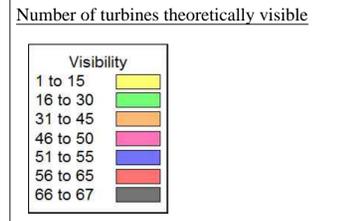
Description:
A 20km Radius Zone of Theoretical Visibility map for the proposed wind farm at half hub height.

The ZTV represents a 'worst case scenario' as it does not take into account the potential screening of views by buildings or vegetation



Legend:

Location of proposed turbines



Date: Rev: Description: Drawn By:

Prepared by:



Galetech Energy Developments,
Cootehill Enterprise Center,
Cootehill,
Co. Cavan, Ireland

Client:

Kipeto Wind Farm

Job Title:

Kipeto Wind Farm

Drawing Title:

Figure 12 - ZTV map at hub height

Drawing No:	CMP/120101/Vis/012	Revision No.:	0
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Scale:	A1 - 1:95,000	Date:	23/12/2011
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Drawn By:	C.M.P	Checked By:	S.D	Confirmed By:	D.S
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Description:
A 20km Radius Zone of Theoretical Visibility map for the proposed wind farm at hub height.

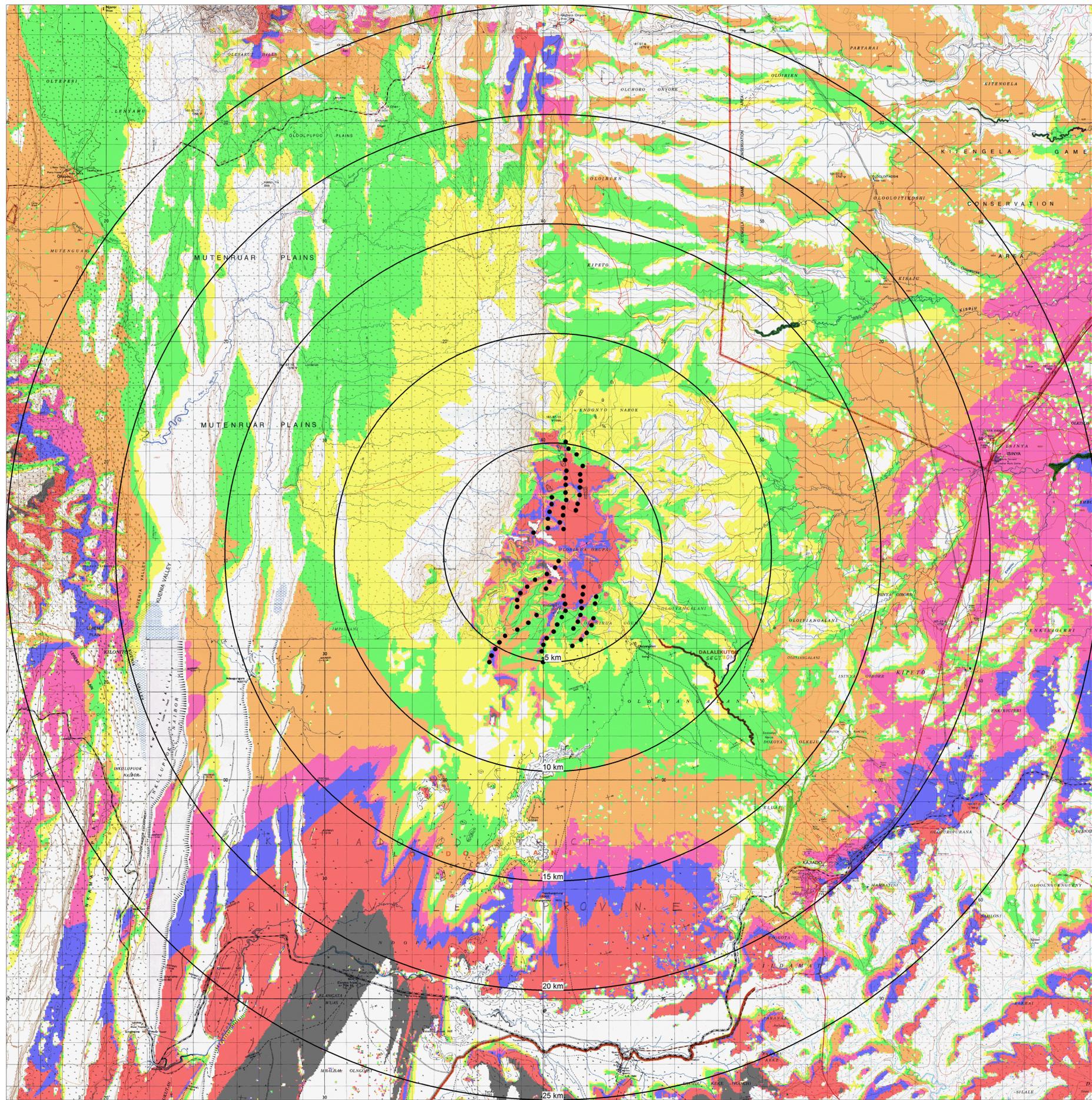
The ZTV represents a 'worst case scenario' as it does not take into account the potential screening of views by buildings or vegetation

ZTV Base:

hub height plus half blade length



This ZTV map is based on turbine visibility at hub height plus half blade length (105m).



Legend:

Location of proposed turbines



Number of turbines theoretically visible

Visibility	Color
1 to 15	Light Green
16 to 30	Green
31 to 45	Yellow
46 to 50	Orange
51 to 55	Pink
56 to 65	Red
66 to 67	Dark Grey

Date: Rev: Description: Drawn By:

Prepared by:



Galetech Energy Developments,
Coochill Enterprise Center,
Coochill,
Co. Cavan, Ireland

Client:

Kipeto Wind Farm

Job Title:

Kipeto Wind Farm

Drawing Title:

Figure 13 - ZTV map at hub height plus half blade length (105m)

Drawing No.: CMP/120101/Vis/013

Revision No.: 0

Scale: A1 - 1:95,000

Date: 23/12/2011

Drawn By: C.M.P

Checked By: S.D

Confirmed By: D.S

Description:
A 20km Radius Zone of Theoretical Visibility map for the proposed wind farm at hub height plus half blade length (105m).

The ZTV represents a 'worst case scenario' as it does not take into account the potential screening of views by buildings or vegetation