

Topic Chapter: Air

Figure GC 12.1

Location of the UWF Grid Connection

Map Number:
Map 1 of 1

Legend:

Subject Development:

- UWF Grid Connection - 110kV UGC
- UWF Grid Connection - Mountphilips Substation Site

Project:
UWF Grid Connection (2019)

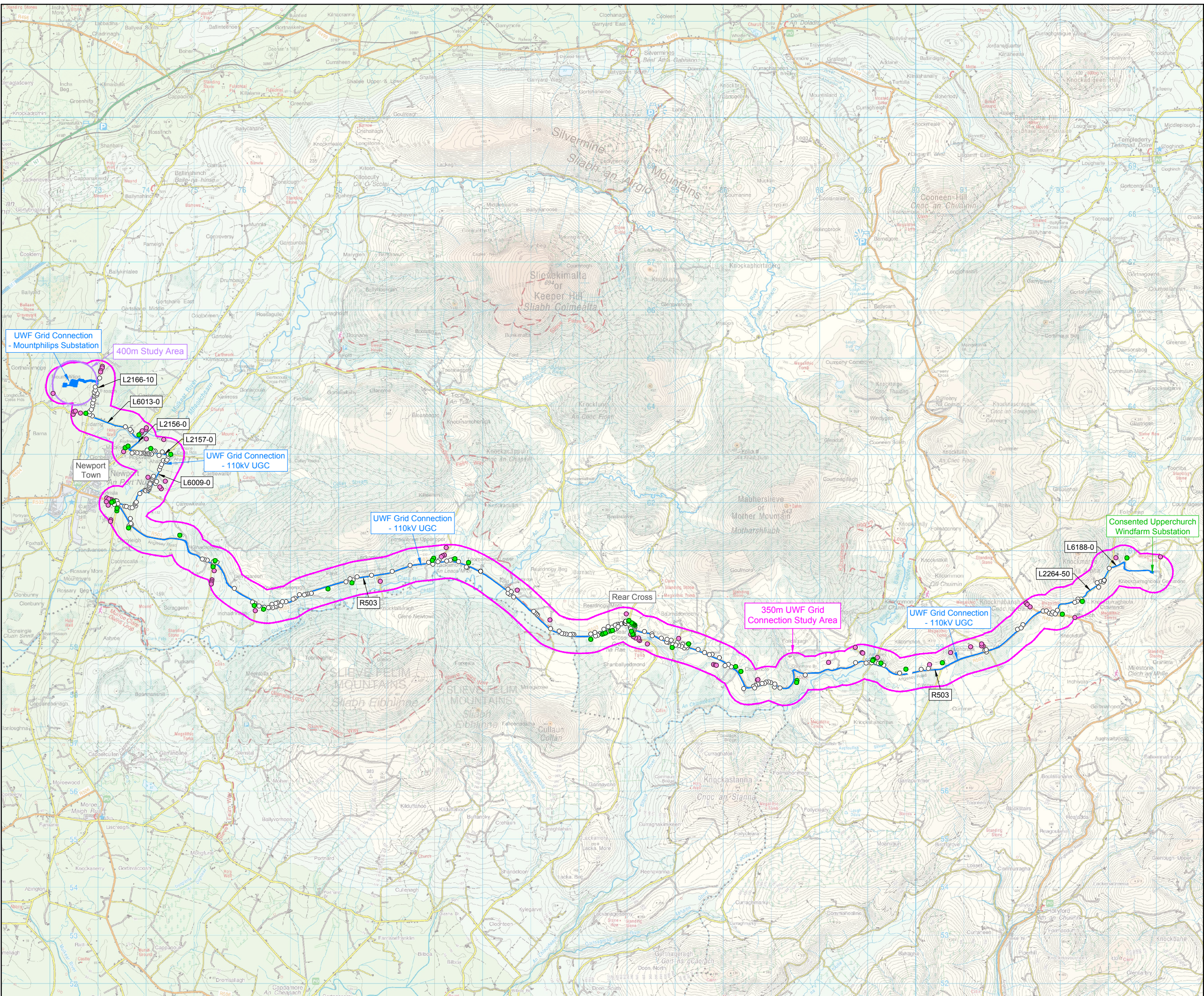
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Topic Chapter: Air

Figure GC 12.2.1

UWF Grid Connection Study
Area for Local Residents &
Community (Dust & Noise)

Map Number:
Map 1 of 1

Legend:

Subject Development:

— UWF Grid Connection
Construction Works Area

Study Area Extents:

Construction Noise and Vibration:
— 350m Study Area from the UWF Grid
Connection Construction Works Area

Operational Noise:
— 400m Study Area from the
Mountphilips Substation

Survey Results:

Air Quality:
○ Local Residents & Community within
50m of the Construction Works Area

Air Quality:
● Local Residents & Community between
51m and 100m of Construction Works Area

Air Quality:
● Local Residents & Community between
101m and 350m of Construction Works Area

Map Information:

— L6188-0 Public Road Identification Numbers



Project:

UWF Grid Connection (2019)

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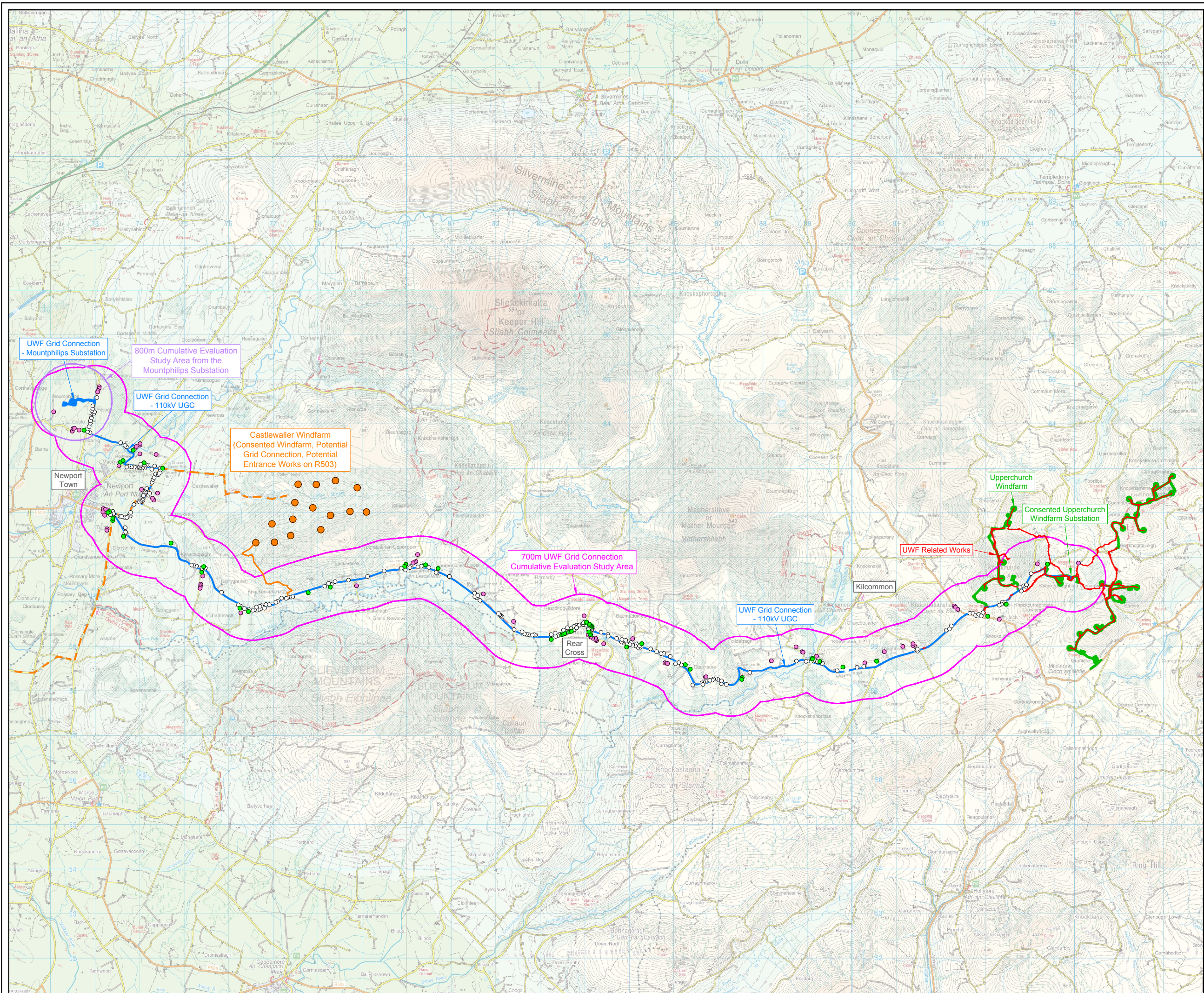
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Figure CE 12.2.1

UWF Grid Connection Cumulative Evaluation Study Area for Local Residents & Community (Dust & Noise)

Map Number:

Map 1 of 1

Legend:

Subject Development:

UWF Grid Connection Construction Works Area

Cumulative Evaluation Projects:

UWF Related Works Construction Works Area

Upperchurch Windfarm Construction Works Area

Castlewaller Windfarm

Consented Windfarm

Potential Grid Connection

Potential Entrance Works on R503

Study Area Extents:

Construction Noise and Vibration: 700m Study Area from the Grid Connection Construction Works Area

Operational Noise: 800m Study Area from the Mountphilips Substation

Survey Results:

Air Quality:

Local Residents & Community within 50m of the Construction Works Area

Air Quality:

Local Residents & Community between 51m and 100m of Construction Works Area

Air Quality:

Local Residents & Community between 101m and 350m of Construction Works Area

Map Information:

Public Road Identification Numbers



Project:

UWF Grid Connection (2019)

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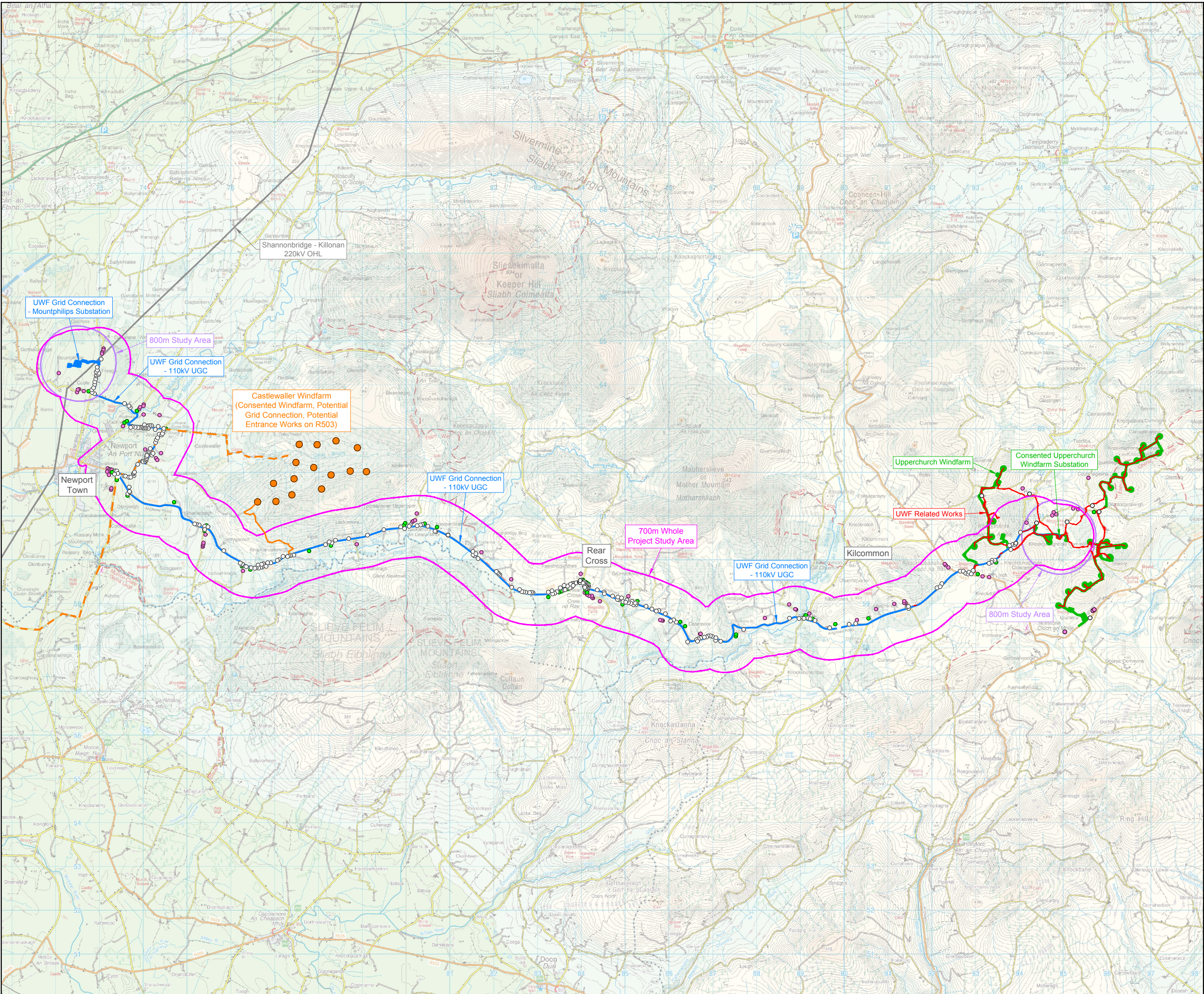
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Figure WP 12.2.1

Whole Project Study Area for Local Residents & Community (Dust & Noise)

Map Number:
1 of 1

Legend:

Elements of the Whole UWF Project:

- UWF Grid Connection Construction Works Area
- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area

Study Area Extents:

- Air Quality, Noise & Vibration:**
700m Study Area from all of the Construction Works Areas
- Air Quality, Noise & Vibration:**
800m Study Area from Substations

Other Projects and Activities:

- Shannonbridge - Killonan 220kV OHL
- Castlewall Windfarm
- Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503

Survey Results:

- Air Quality:**
Local Residents & Community within 50m of the Construction Works Area
- Air Quality:**
Local Residents & Community between 51m and 100m of Construction Works Area
- Air Quality:**
Local Residents & Community between 101m and 350m of Construction Works Area



Project:
UWF Grid Connection (2019)

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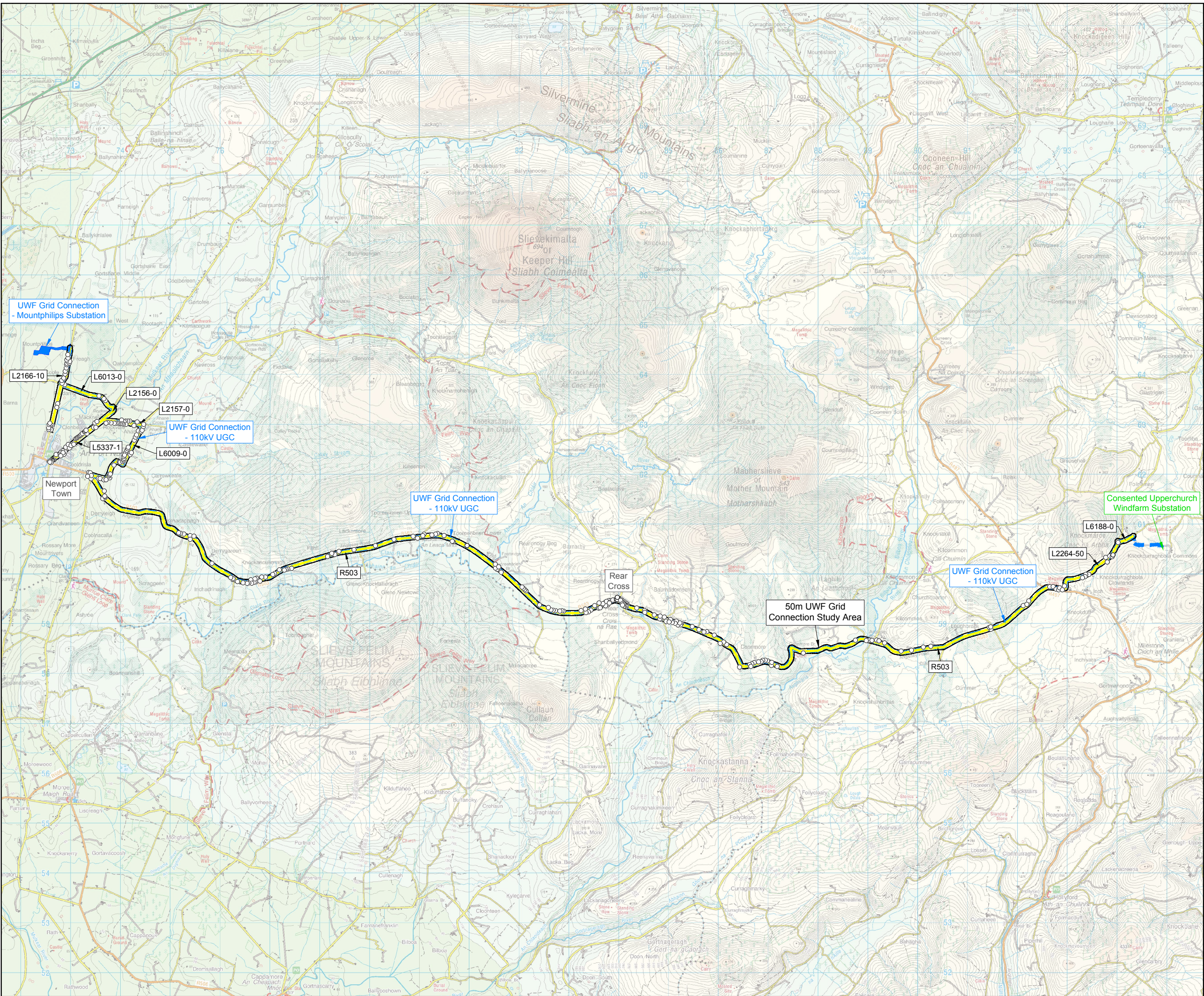


- Legend:
- Subject Development:**
- UWF Grid Connection - Mountphilips Substation Site

- Study Area Extents:**
- Transport Routes used by Construction vehicles
 - Construction Dust:** 50m Study Area from the Transport Routes

- Survey Results:**
- Air Quality:**
 - Local Residents & Community within 50m of the Main Transport Routes

- Map Information:**
- L6188-0 Public Road Identification Numbers



Project:
UWF Grid Connection (2019)

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


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





Topic Chapter: Air
Figure CE 12.2.2
UWF Grid Connection
Cumulative Evaluation Study
Area for Local Residents &
Community (Haulage Routes)


Map Number:
Map 1 of 1

Legend:

- Subject Delvelopment:
-  UWF Grid Connection - Mountphilips Substation Site
- Cumulative Evaluation Projects:
-  UWF Related Works Construction Works Area
 -  Upperchurch Windfarm Construction Works Area
 -  Castlwaller Windfarm Consented Windfarm
 -  Potential Grid Connection
 -  Potential Entrance Works on R503

- Study Area Extents:
-  Transport Routes used by Construction vehicles
 -  100m Study Area from the Transport Routes
- Construction Dust:
-  100m Study Area from the Transport Routes
- Survey Results:
- Air Quality:
 -  Local Residents & Community within 50m of the Main Transport Routes

Map Information:

 L2166-0 Public Road Identification Numbers

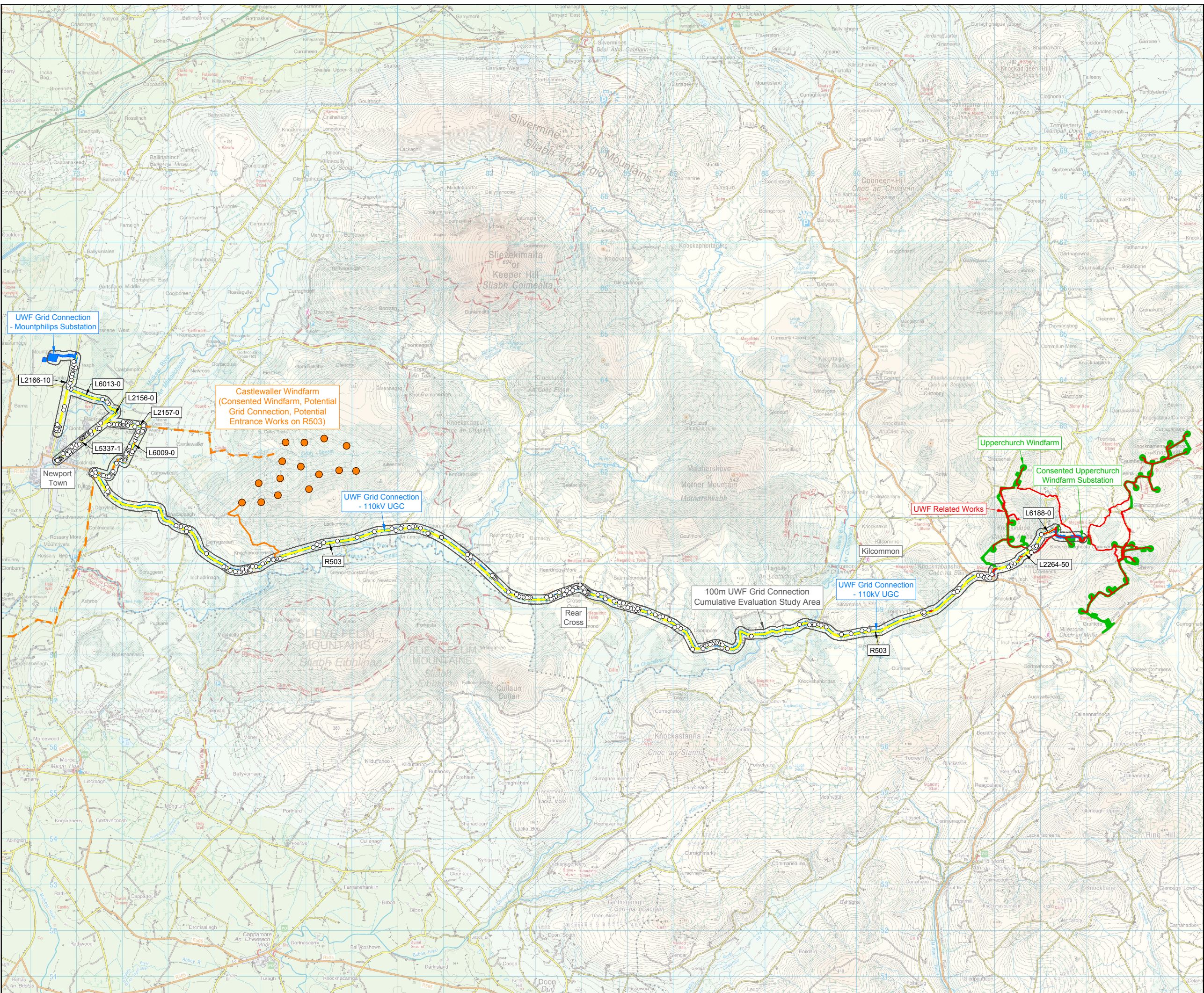
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

Map Number:
Map 1 of 1

Legend:


Elements of the Whole UWF Project:

-  UWF Grid Connection -
Mountphilips Substation Site
-  UWF Related Works
Construction Works Area
-  Upperchurch Windfarm
Construction Works Area




Study Area Extents:

-  Transport Routes used by Construction
vehicles (Whole UWF Project)
- Construction Dust:**
 50m Study Area from the Transport
Routes (Whole UWF Project)


Survey Results:

- Air Quality:**
 Local Residents & Community within
50m of the Main Transport Routes

Other Projects and Activities:

-  Castlewaller Windfarm
-  Potential Grid Connection
-  Potential Entrance Works on R503

Map Information:

 Public Road Identification Numbers



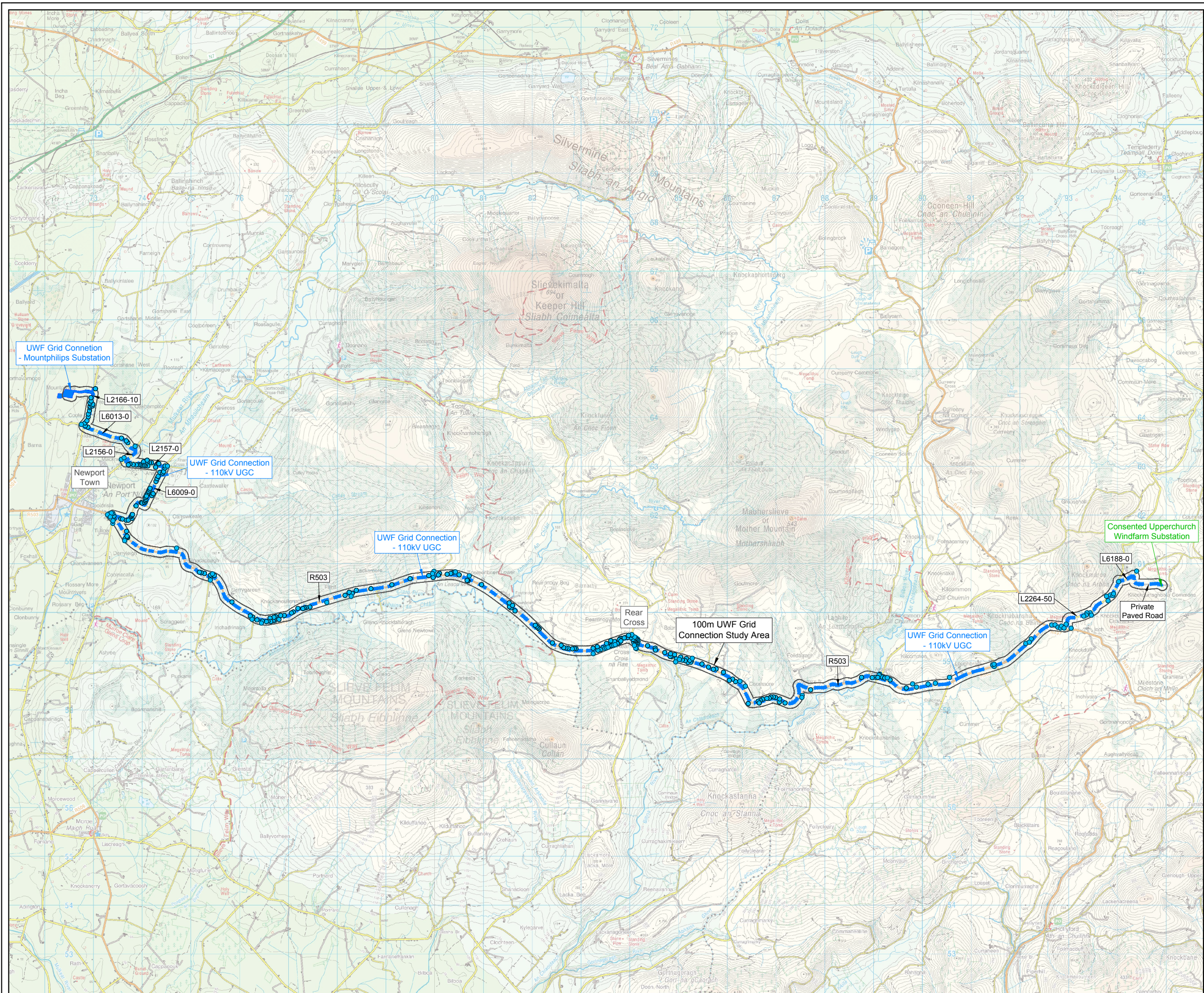
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Figure GC 12.2.3

UWF Grid Connection Study Area for
Local Residents & Community (EMF)

Map Number:
Map 1 of 1

Legend:

Subject Development:

- UWF Grid Connection - 110kV UGC
- UWF Grid Connection - Mountphilips Substation Site

Study Area Extends:

- EMF:**
- 100m Study Area
 - Mountphilips Substation
 - 110kV UGC

Survey Results:

- EMF:**
- Local Residences and Community Facilities within the 100m Study Area



Project:
UWF Grid Connection (2019)

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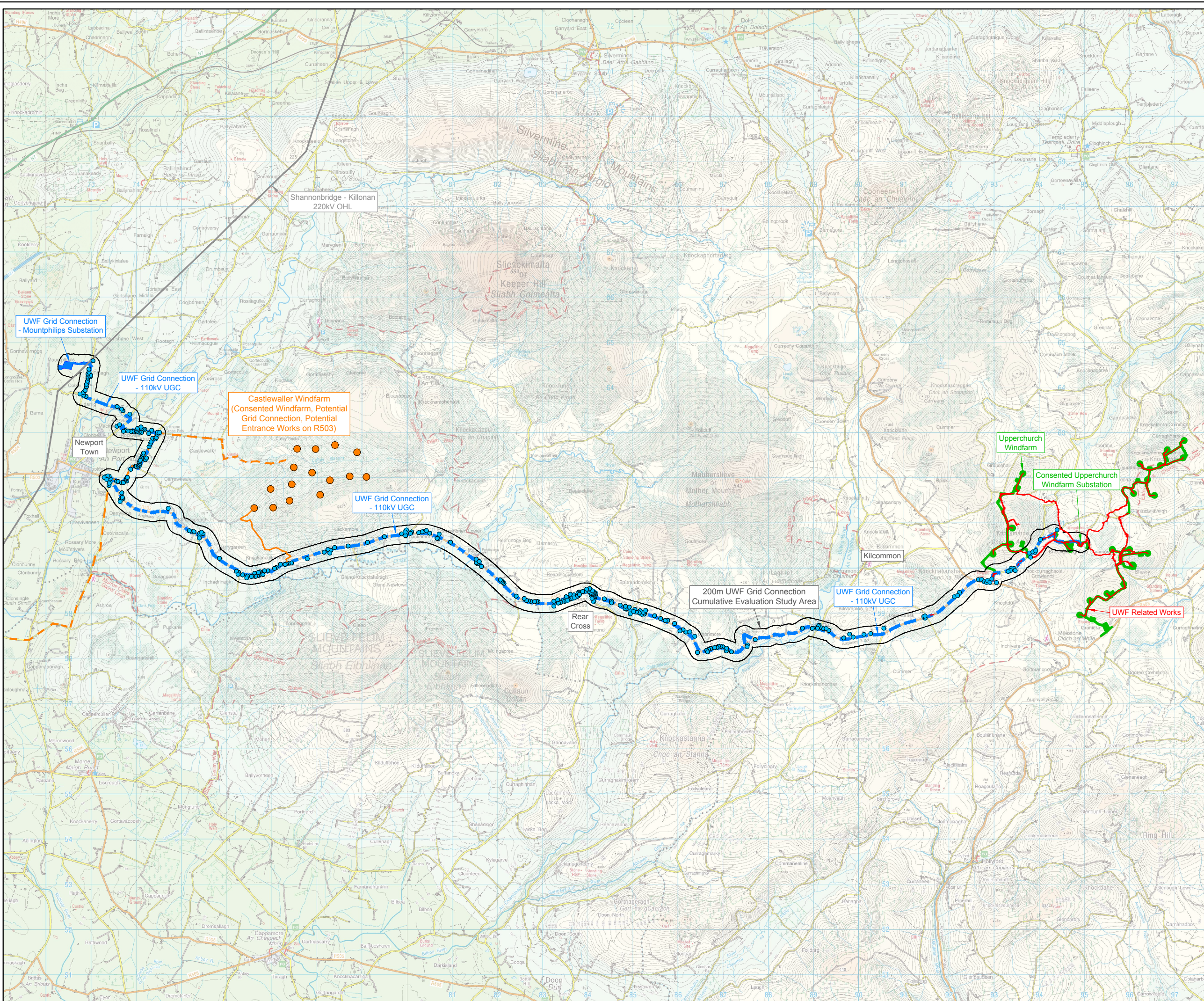
Legend:

- Subject Development:**
- UWF Grid Connection - 110kV UGC
 - UWF Grid Connection - Mountphilips Substation Site

- Cumulative Evaluation Projects:**
- UWF Related Works
 - Internal Windfarm Cabling
 - Consented Upperchurch Turbines
 - Consented Upperchurch Substation
 - Shannonbridge to Nenagh 220kV Overhead Line
 - Castlewaller Windfarm
 - Consented Windfarm
 - Potential Grid Connection
 - Potential Entrance Works on R503

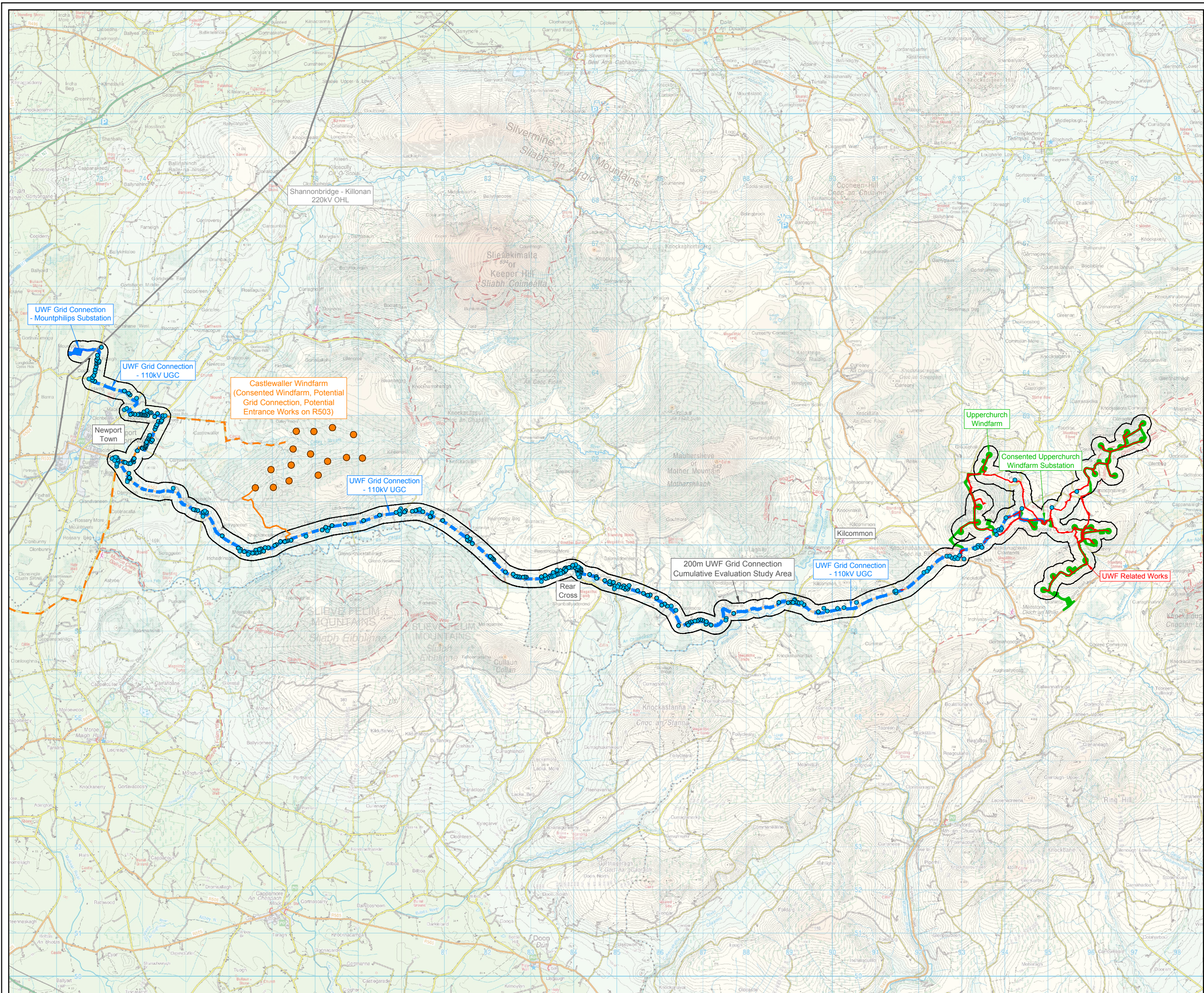
- Study Area Extents:**
- EMF: 200m Study Area
 - Mountphilips Substation
 - 110kV UGC

- Survey Results:**
- EMF:
 - Local Residences and Community Facilities within the 100m Study Area



Project:
UWF Grid Connection (2019)

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Topic Chapter: Air

Figure WP 12.2.3

Whole Project Study Area for Local Residents & Community (EMF)

Map Number:
Map 1 of 1

Legend:

Elements of the Whole UWF Project:

- UWF Grid Connection - 110kV UGC
- UWF Grid Connection - Mountphilips Substation Site
- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area

Other Projects and Activities:

- Shannonbridge to Nenagh 220kV Overhead Line
- Castlewaller Windfarm Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503

Study Area Extents:

- EMF: 200m Study Area
 - Mountphilips Substation
 - UWF Grid Connection
 - Internal Windfarm Cabling
 - Consented Upperchurch Turbines
 - Consented Upperchurch Substation

Survey Results:

- EMF: Local Residences and Community Facilities within the 100m of
 - Mountphilips Substation
 - UWF Grid Connection
 - Internal Windfarm Cabling
 - Consented Upperchurch Turbines
 - Consented Upperchurch Substation



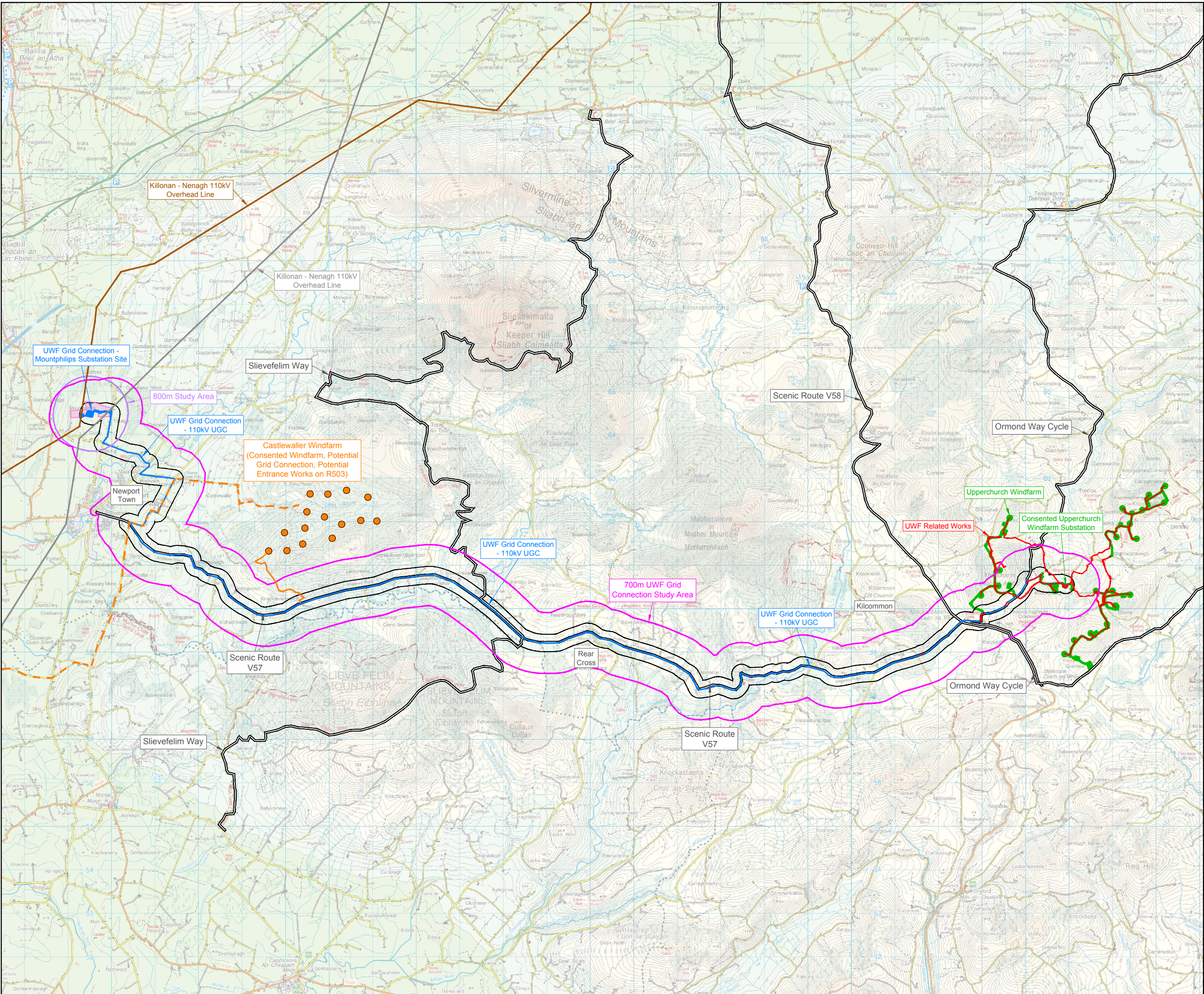
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Topic Chapter: Air

Figure CE 12.3

UWF Grid Connection
Cumulative Evaluation Study
Area for Transient People

Map Number:
Map 1 of 1

Legend:

Subject Development:

- UWF Grid Connection Construction Works Area

Study Area Extents:

- Air Quality, Noise & Vibration:**
 - 700m & 100m Study Area from the UWF Grid Connection Construction Works Area and of main transport routes used by construction vehicles
- Operational Stage Noise:**
 - 800m Study Area from Mountphilips Substation and Upperchurch Windfarm Substation
- Operational Stage EMF:**
 - 200m Study Area from Mountphilips Substation and the 110kV UGC

Cumulative Evaluation Projects:

- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area
- Air Quality, Noise & Vibration:**
 - Landholding - Agricultural Land
- Shannonbridge - Killonan 220kV OHL
- Killonan - Nenagh 110kV OHL
- Castlewaller Windfarm
 - Consented Windfarm
 - Potential Grid Connection
 - Potential Entrance Works on R503

Survey Results:

- Air Quality, Noise & Vibration:**
 - Walking/Cycling Trails

Project:
UWF Grid Connection (2019)

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