Table of Contents

Survey Summary	2
Constraints	4
Designated Sites	5
Enhancement Areas	6
Haul Routes	7
Proposed Grid Connection	8
Proposed Project Overview	9
Site Location	10
TDR	11
WES	12

Ballydermot Wind Farm

ACP reference	ACP-310143-21
Date and time	02/04/2026
Subject	Survey Summary
Author(s)	SG / RD

Introduction

This Note has been prepared by MKO on behalf of our Client, Bord Na Móna Powergen Ltd ('the Prospective Applicant') for the purpose of informing An Coimisiún Pleanála (the 'Commission') of the surveys undertaken in relation to the proposed wind energy development and associated works at Ballydermot (and other townlands) County Offaly and the townland of Lullybeg (and other townlands) Co. Kildare ('the Proposed Project').

Site Investigation

- First round of geotechnical ground investigations, consisting of trial pitting, was undertaken during the 25th May 2021 under the supervision of Fehily Timoney & Company Ltd. (FTC) and Tobar Archaeological Services Ltd. (Tobar).
- Second round of geotechnical ground investigations, consisting of trial pitting and boreholes, commenced on 8th November 2021 and was completed on 7th December 2021 under the supervision of FTC and Tobar.
- Third round of geotechnical ground investigations, consisting of boreholes, commenced on 21st June 2022 and was completed on 23rd June 2022 under the supervision of FTC and Tobar.
- Fourth round of geotechnical ground investigations, consisting of boreholes, was completed over the time period 9th September 2022 to 16th September 2022 under the supervision FTC and Tobar.
- 53 no. trial pits and 12 boreholes, supervised by FTC, Tobar, and/or MKO completed on site.

Ornithology

- Surveys from April 2020 to March 2026 – Six years of surveys during both winter and breeding season.
- Surveys undertaken – Vantage point, breeding walkover, winter walkover, breeding raptor, breeding woodcock, waterbird distribution and abundance, wintering golden plover, breeding barn owl, breeding nightjar and hen harrier roost.

Ecology

- Ecology have been on site since 2020.
- Surveys undertaken include multidisciplinary ecological walkover surveys, detailed botanical surveys, mammal surveys, camera trapping, marsh fritillary surveys, bat surveys, aquatic surveys, round leaved wintergreen surveys and invasive species surveys.
    - Multidisciplinary Ecological Walkover Surveys (including mammals, invasives) were completed on the site in 2021, 2022, 2023, 2024 and 2025.
    - The latest Detailed Habitat and Vegetation Composition Surveys were completed on the site in 2024 and 2025.

- Aquatic Surveys were completed on the site in 2021 and 2024 by Triturus Environmental Ltd.
- Marsh Fritillary Surveys were completed on the site in 2021, 2022, 2024 and 2025.

- Key Ecological Receptors include European sites, woodland, scrub, peatland, marsh fritillary, bats, round leaved wintergreen.

Bats

- Seasonal bat surveys were carried out in 2022 and 2024. Habitat assessments and roost inspections were carried out alongside manual activity surveys and static detector surveys at ground level during spring, summer and autumn.
- Full suite of seasonal bat surveys scheduled for 2026.

Grand Canal
Grand Canal
The Long Derries, Edenderry SAC
The Long Derries, Edenderry
T01
T02
T03
T04
T05
T06
T07
T08
T09
T10
T11
T12
T13
T14
T15
T16
T17
T18
T19
T20
T21
T22
T23
T24
T25
T26
T27
T28
T29
T30
T31
T32
T33
T34
T35
T36
T37
T38
T39
T40
T41
T42
T43
T44
T45
T46
T47

Map Legend

Planning Application Boundary
Proposed Turbine Locations
200m Tip Height
220m Tip Height
2 Rotor Diameters from Planning Application Boundary (340m)
Proposed Wind Farm Footprint
Sensitive Receptors
Sensitive Receptors
880m Sensitive Receptors Buffer
Water
Watercourses
50m Watercourse Buffer
Silt Ponds
50m Silt Pond Buffer
Cultural Heritage
Recorded Monuments
50m Recorded Monuments Buffer
Shanavoola Areas
20m Shanvoola Area Buffer
Designated Sites
800m Grand Canal pNHA Buffer
SAC
200m SAC Buffer
pNHA
200m pNHA Buffer
NHA
200m NHA Buffer
Cumulative Wind Farms
Existing Cloncreen Win Farm
Existing Cushaling Wind Farm
425m (2.5 x RD) Buffer from Built Cushaling Wind Farm
Offaly Article 17 Habitats 2020
Active Raised Bog 2
Old Oak Woodlands
Orchid Rich Calcareous Grassl
50m Article 17 Buffer
Lullymore Bog
Birds
Breeding Curlew Habitat
800m Breeding Curlew Buffer
Material Assets
Uisce Eireann Pipeline

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title
Constraints Map

Project Title
Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
123456	Figure 2
Scale	Date
1:40,000	2026-04-01

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website:
www.mkoireland.ie

Map Legend

Planning Application Boundary

Designated Sites

SAC

SAC 200m Buffer

pNHA

pNHA 200m Buffer

NHA

NHA 200m Buffer

Ballina Bog

Royal Canal

Royal Canal

Black Castle Bog NHA

Carbury Bog NHA

Donadea Wood

Raheenmore Bog SAC

Raheenmore Bog

Grand Canal

The Long Derries, Edenderry SAC

The Long Derries, Edenderry

Hodgestown Bog NHA

Ballynafagh Lake

Ballynafagh Lake SAC

Ballynafagh Bog

Ballynafagh Bog SAC

Daingean Bog NHA

Grand Canal

Liffey At Osberstown

Mouds Bog SAC

Mouds Bog

Raheen Lough

Pollardstown Fen SAC

Pollardstown Fen

Curragh (Kildare)

Liffey Bank Above Athgarvan

River Barrow and River Nore SAC

Mountmellick SAC

Grand Canal

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267527

Drawing Title

Designated Sites

Project Title

Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
250708	Figure 3
Scale	Date
1:120,000	2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie

Map Legend

Planning Application Boundary

Proposed Turbine Layout

200

220

Bat Buffers

Scrub Planting Areas

Proposed Enhancement Areas

N

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title

Proposed Project Overview

Project Title: Ballydermot Wind Farm, Co. Offaly & Co. Kildare	
Drawn By: CJ	Checked By: EC
Project No.: 250708	Drawing No.: Figure 5
Scale: 1:40,000	Date: 2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie

Derrygreenagh Roadstone

Walshes Sandpit

Derrycoffey Pit

Sheridan's Quarry

Roadstone Tullamore

Hanlon Concrete

Kilsaran Tullamore

Akil Sand and Gravel

Roadstone Allen Quarry

Map Legend

Planning Application Boundary

Traffic and Transport

Haul Routes

Turbine Delivery Route

N

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title: Proposed Haul Routes

Project Title: Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No. 250708	Drawing No. Figure 8
Scale 1:160,000	Date 2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie

Lorem ipsum

Map Legend

Planning Application Boundary

Proposed Turbine Layout

200

220

Additiona Information

Car parking

Met Mast Hardstand

Peat Deposition & Side Cast

Relay Mast Hardstand

Security Hut

Turbine Foundation

Tower Build Area

Tempory Setdown Area

New Gantry Structure

Crane Pad

New Steel Mast

Excavator Work Zone

Existing Steel Mast

ElectricalCabling

Cable Trench

Internal 33kV Cabling

Exitsing Overhead Line

Underground 220kV Cabling

AccessRoad_Polygon

Amenity Walkway

Equestrian Amenity

New Road

Passing Bay

Turning Bay

Upgrade Road

Off Site Substation Access Road

Masts

Telecommunications Tower

N

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title

Proposed Grid Connection

Project Title	
Ballydermot Wind Farm, Co. Offakly & Co. Kildare	
Drawn By: CJ	Checked By: EC
Project No.: 250708	Drawing No.: Figure 6
Scale: 1:40,000	Date: 2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie



Map Legend

Planning Application Boundary

Proposed Turbine Layout

200

220

Turbine Hardstands

Met Mast

Met Mast

Telecommunications Tower

Relay Telecoms Mast

JointBays

Temporary Construction Compounds

Access Road

Amenity Walkway

Equestrian Amenity

New Road

Passing Bay

Turning Bay

Upgrade Road

Additional Information

Car parking

Met Mast Hardstand

Peat Deposition & Side Cast

Relay Mast Hardstand

Security Hut

Turbine Foundation

ElectricalCabling

Cable Trench

Internal 33kV Cabling

Underground 220kV Cabling

Substation

On Site 110kV GIS Substation

On Site 220kV GIS Substation

N

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title

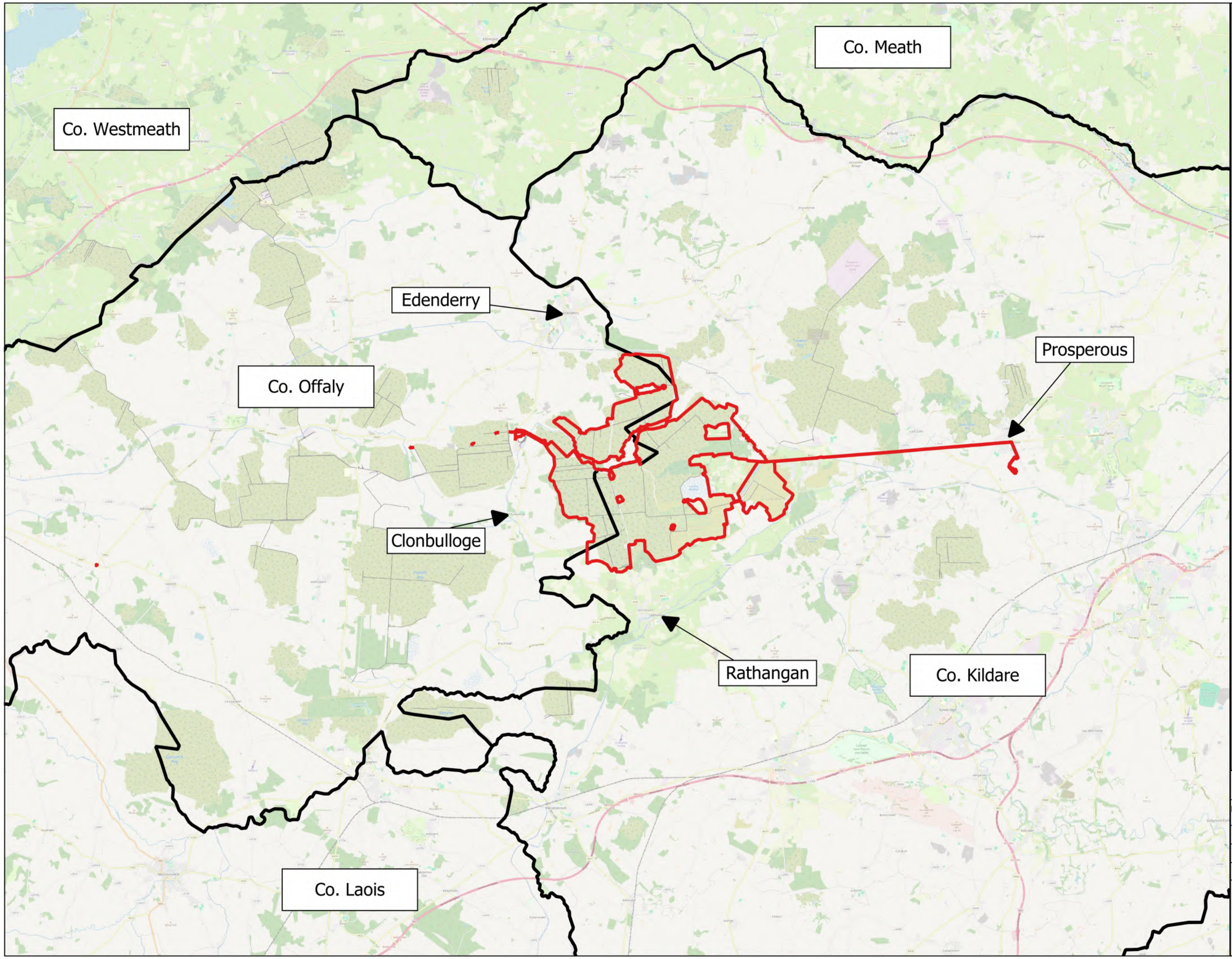
Proposed Project Overview

Project Title

Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
250708	Figure 4
Scale 1:40,000	Date 2026-03-18

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email: info@mkoireland.ie
Website: ww.mkoireland.ie



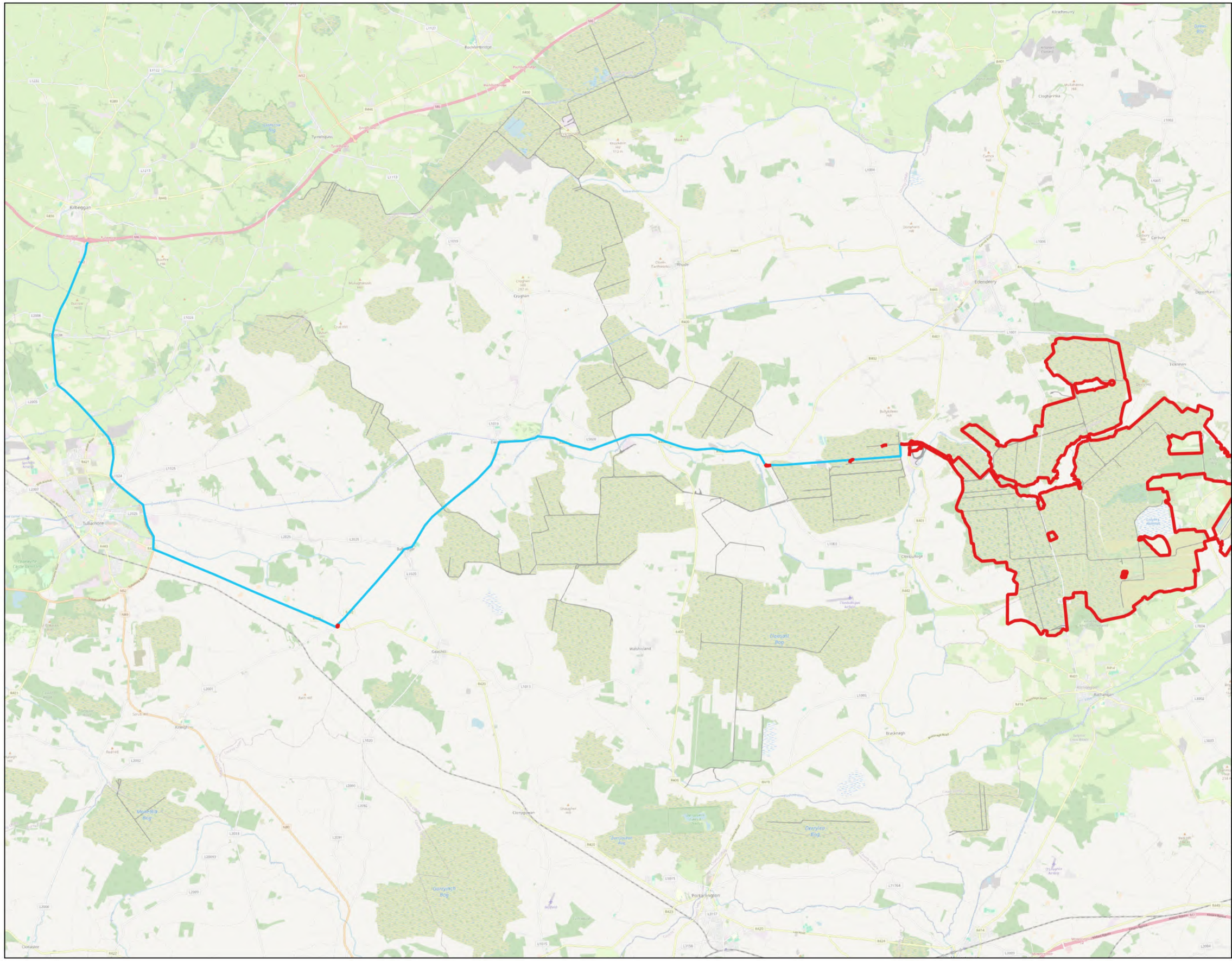
Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title: Proposed Project Site Location

Project Title: Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
250708	Figure 1
Scale	Date
1:150,000	2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: www.mkoireland.ie



Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title
Turbine Delivery Route

Project Title
Ballydermot Wind Farm, Co. Offaly & Co. Kildare

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
250708	Figure 7
Scale	Date
1:110,000	2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie

Map Legend

Planning Application Boundary

TurbineLayout

200

220

Kildare Wind Energy Strategy

Acceptable in Principle

Not Normally Permissible

Open to Consideration

Offaly Wind Energy Strategy

Areas Not Deemed Suitable for Wind Energy

Areas Open For Consideration for Wind Energy

Microsoft product screen shots reprinted with permission from Microsoft Corporation
© Ordnance Survey Ireland. All rights reserved. Licence number CYAL50267517

Drawing Title

Wind Energy Strategy Map – Area Suitable for Wind Farm Development

Project Title

Proposed Ballydermot Wind Farm, Co. Kildare & Co. Offaly

Drawn By	Checked By
CJ	EC
Project No.	Drawing No.
250708	Figure 9
Scale	Date
1:45,000	2026-03-17

MKO
Planning and Environmental Consultants
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
email:info@mkoireland.ie
Website: ww.mkoireland.ie