

Colophon

|  |  |
| --- | --- |
| Project name | Site Studies Borssele Wind Farm Zone |
|  |  |
| Version | June 2016 |
| File name | 20160620\_SDB\_RVO\_Boundaries\_and\_Coordinates\_Borssele\_WFZ\_v3.docx |
| Project manager | Ruud de Bruijne |
|  |  |
| Annex(es) | - |
| Authors | R. van der Heijden (RVO.nl) |
| Reviewed | Rene van ’t Hart (RWS); Ruud de Bruijne (RVO.nl) |
| Approved | T. Collette (RWS) |

*Only the coordinates and boundaries in the final Wind Farm Site Decisions are legally binding. Nonetheless, please note that some coordinates published in the final Wind Farm Site Decisions documents need to be amended. In June 2016 so-called ‘ontwerp wijzigingsbesluit’ (draft amending decision) for BWFS III, IV and V is published and available for inspection from Friday 1 July2016 until Thursday 11 August 2016. The final amendment decision is expected in September 2016 .The coordinates in this Appendix are aligned with the amending decision.*

*Please note this Appendix confers no rights and is provided for convenience only.*

Contents

[1 Introduction 5](#_Toc454183289)

[2 The Borssele Wind Farm Zone 7](#_Toc454183290)

[3 Borssele Wind Farm Sites (BWFS’s) 8](#_Toc454183291)

[4 Infrastructure 24](#_Toc454183292)

[5 Shipping Corridor 31](#_Toc454183293)

[6 Reference documents 33](#_Toc454183294)

# Introduction

## Purpose

The purpose of this memo is to establish the exact definition for the Borssele Wind Farm Sites (in Dutch: kavels) and the zone around each Wind Farm Site. The geographical information is based on the data available on November 2015.

Only the coordinates and boundaries in the final Wind Farm Site Decisions are legally binding. Nonetheless, please note that some coordinates published in the final Wind Farm Site Decisions documents need to be amended. In the summer of 2016 so-called ‘ontwerp wijzigingsbesluit’ (draft amending decision) is expected to be issued for BWFS III, IV and V. In these amending decisions the coordinates will be aligned with this Appendix.

Please note this Appendix confers no rights and is provided for convenience only.

## Revisions

A general overview of the revisions compared to v2.1 issued February 2016:

* Only the UTM projection will be used from now on for WFS III, IV and V. In this memo also the geographical coordinates for WFS I and II have been removed for consistency reasons. Please note that the (irrevocable) Wind Farm Site Decisions I and II will not be amended.
* Figure and table 6 BWFS III Safety Zone: coordinates CP\_23; CP\_24; CP\_25; CP\_26 en SZ\_36 added.
* Table 11.3 Cable Entry Zone BWFS III: coordinates P\_88 and T\_14 removed. Coordinate P\_50 added.
* All tables: Coordinates sorted
* All descriptions: removed (to be found in the PSD main document)

## Horizontal datum

The geodetic system used for horizontal projections is European Terrestrial Reference System 1989 (ETRS89).

For UTM projections the following is applicable

* Local datum European Datum (ETRS89)
* Central Meridian 3° E (Zone 31)

## GIS Information

All coordinates given in this document correspond to GIS data that is made available by RVO through the MPK file of the BWFZ [1].

## Coordinate numbering

The coordinates given in this document are numbered according to the following system (maintenance zones have not specifically been numbered since these zones are determined by the other elements that are specifically numbered):

* Coordinates that determine the boundaries of the Borssele Wind Farm Zone start with the letter code WFZ followed by an underscore and a number (WFZ\_1, WFZ\_2, …);
* Coordinates that determine the boundaries of the different parcels in the Borssele Wind Farm Zone start with the letter code P followed by an underscore and a number (P\_1, P\_2, …);
* Coordinates that determine the safety zone of the different wind farm sites in the Borssele Wind Farm Zone start with the letter code SZ followed by an underscore and a number (SZ\_1, SZ\_2, …);
* Coordinates that determine the location of the different cables and pipelines in the Borssele Wind Farm Zone start with the letter code CP followed by an underscore and a number (CP\_1, CP\_2, …);
* Coordinates that determine the locations of the TenneT infrastructure in the Borssele Wind Farm Zone start with the letter code T followed by an underscore and a number (T\_1, T\_2, …);
* Coordinates that determine the shipping corridor in the Borssele Wind Farm Zone start with the letter code SL followed by an underscore and a number (SL\_1, SL\_2, …).

# The Borssele Wind Farm Zone

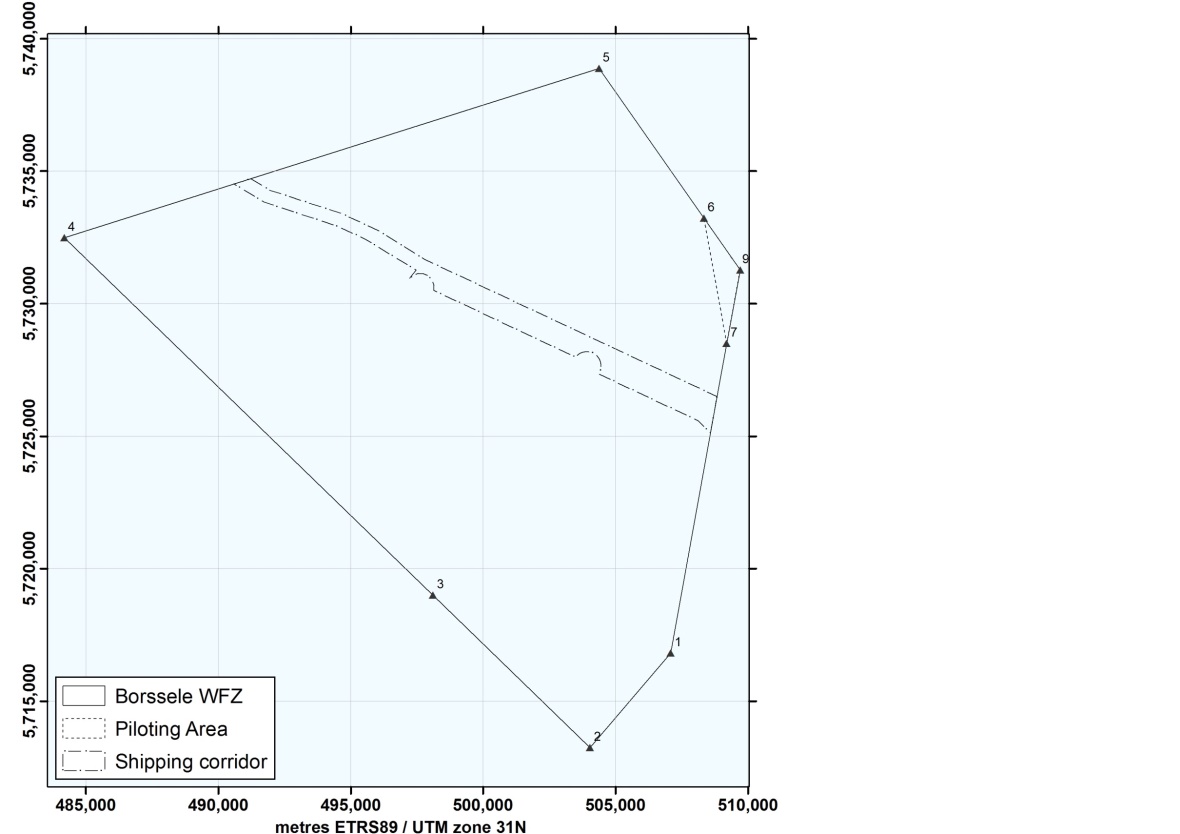


Figure 1 Overview of the Borssele Wind Farm Zone

|  |  |  |
| --- | --- | --- |
| **BWFZ** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| WFZ\_1 | 507,087.1 | 5,716,811.7 |
| WFZ\_2 | 504,039.6 | 5,713,246.1 |
| WFZ\_3 | 498,105.4 | 5,718,993.7 |
| WFZ\_4 | 484,178.5 | 5,732,482.8 |
| WFZ\_5 | 504,373.7 | 5,738,878.4 |
| WFZ\_6 | 508,339.0 | 5,733,222.4 |
| WFZ\_9 | 509,706.9 | 5,731,271.3 |
| WFZ\_7 | 509,197.8 | 5,728,498.9 |

Table 1 Coordinates of boundary points Borssele Wind Farm Zone

# Borssele Wind Farm Sites (BWFS’s)

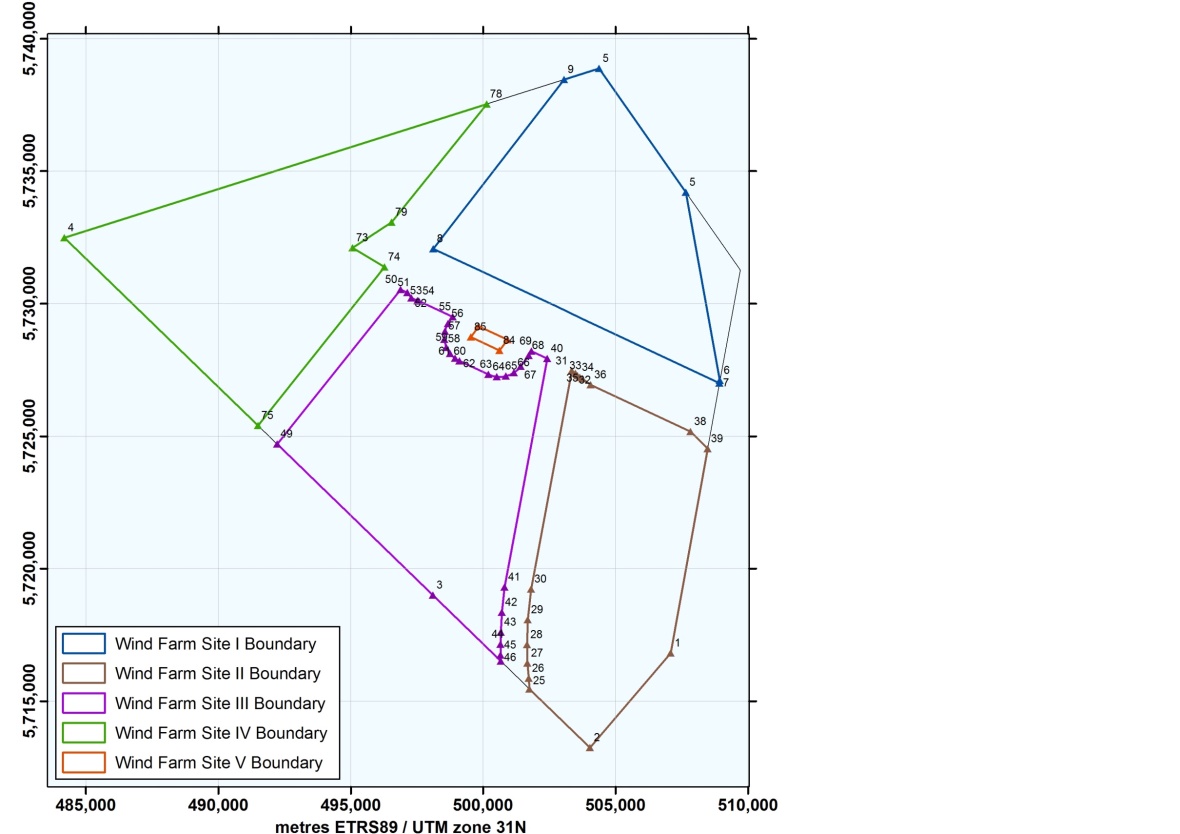


Figure 2 Overview of the Borssele Wind Farm Zone and Wind Farm Sites

## Borssele Wind Farm Site I (BWFS I)

|  |  |  |
| --- | --- | --- |
| **BWFS I** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_5 | 507,652.8 | 5,734,201.1 |
| P\_6 | 508,942.8 | 5,727,106.6 |
| P\_7 | 508,924.4 | 5,727,004.4 |
| P\_8 | 498,110.2 | 5,732,071.4 |
| P\_9 | 503,052.7 | 5,738,460.0 |
| WFZ\_5 | 504,373.7 | 5,738,878.4 |

Table 2.1 Coordinates of the Borssele Wind Farm Site I

## Borssele Wind Farm Site II (BWFS II)

|  |  |  |
| --- | --- | --- |
| **BWFS II** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_25 | 501,753.3 | 5,715,460.5 |
| P\_26 | 501,720.0 | 5,715,858.6 |
| P\_27 | 501,673.9 | 5,716,438.6 |
| P\_28 | 501,658.8 | 5,717,132.6 |
| P\_29 | 501,685.1 | 5,718,073.0 |
| P\_30 | 501,812.0 | 5,719,229.4 |
| P\_31 | 503,352.1 | 5,727,468.4 |
| P\_32 | 503,486.1 | 5,727,368.4 |
| P\_33 | 503,561.0 | 5,727,281.4 |
| P\_34 | 503,653.0 | 5,727,212.7 |
| P\_35 | 503,757.8 | 5,727,165.7 |
| P\_36 | 504,063.2 | 5,726,937.9 |
| P\_38 | 507,833.4 | 5,725,165.1 |
| P\_39 | 508,476.6 | 5,724,520.4 |
| WFZ\_1 | 507,087.1 | 5,716,811.7 |
| WFZ\_2 | 504,039.6 | 5,713,246.1 |

Table 2.2 Coordinates of the Borssele Wind Farm Site II

## Borssele Wind Farm Site III (BWFS III)

|  |  |  |
| --- | --- | --- |
| **BWFS III** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_40 | 502,426.5 | 5,727,928.5 |
| P\_41 | 500,813.5 | 5,719,302.6 |
| P\_42 | 500,704.5 | 5,718,354.3 |
| P\_43 | 500,666.3 | 5,717,604.8 |
| P\_44 | 500,658.9 | 5,717,143.2 |
| P\_45 | 500,660.2 | 5,716,737.1 |
| P\_46 | 500,666.1 | 5,716,513.5 |
| WFZ\_3 | 498,105.4 | 5,718,993.7 |
| P\_49 | 492,218.7 | 5,724,695.4 |
| P\_50 | 496,881.0 | 5,730,532.8 |
| P\_51 | 497,139.9 | 5,730,411.2 |
| P\_52 | 497,289.1 | 5,730,215.2 |
| P\_53 | 497,518.6 | 5,730,107.2 |
| P\_54 | 497,575.3 | 5,730,099.1 |
| P\_55 | 498,850.7 | 5,729,499.4 |
| P\_56 | 498,670.2 | 5,729,247.3 |
| P\_57 | 498,558.1 | 5,728,957.4 |
| P\_58 | 498,540.2 | 5,728,647.2 |
| P\_59 | 498,618.2 | 5,728,346.4 |
| P\_60 | 498,752.8 | 5,728,122.6 |
| P\_61 | 498,940.6 | 5,727,941.3 |
| P\_62 | 499,109.6 | 5,727,840.0 |
| P\_63 | 500,195.7 | 5,727,329.7 |
| P\_64 | 500,520.8 | 5,727,240.4 |
| P\_65 | 500,857.1 | 5,727,263.6 |
| P\_66 | 501,166.7 | 5,727,397.2 |
| P\_67 | 501,420.7 | 5,727,634.5 |
| P\_68 | 501,721.8 | 5,728,035.7 |
| P\_69 | 501,826.6 | 5,728,210.6 |

Table 2.3 Coordinates of the Borssele Wind Farm Site III

## Borssele Wind Farm Site IV (BWFS IV)

|  |  |  |
| --- | --- | --- |
| **BWFS IV** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_73 | 495,068.1 | 5,732,104.1 |
| P\_74 | 496,277.2 | 5,731,380.0 |
| P\_75 | 491,497.3 | 5,725,394.1 |
| WFZ\_4 | 484,178.5 | 5,732,482.8 |
| P\_78 | 500,129.9 | 5,737,534.4 |
| P\_79 | 496,541.5 | 5,733,070.9 |

Table 2.4 Coordinates of the Borssele Wind Farm Site IV

## Borssele Wind Farm Site V (BWFS V)

|  |  |  |
| --- | --- | --- |
| **BWFS V** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_83 | 500,922.0 | 5,728,636.0 |
| P\_84 | 500,621.0 | 5,728,234.8 |
| P\_85 | 499,534.9 | 5,728,745.1 |
| P\_86 | 499,836.2 | 5,729,146.6 |

Table 2.5 Coordinates of the Borssele Wind Farm Site V

## Borssele Wind Farm Sites and Parcels

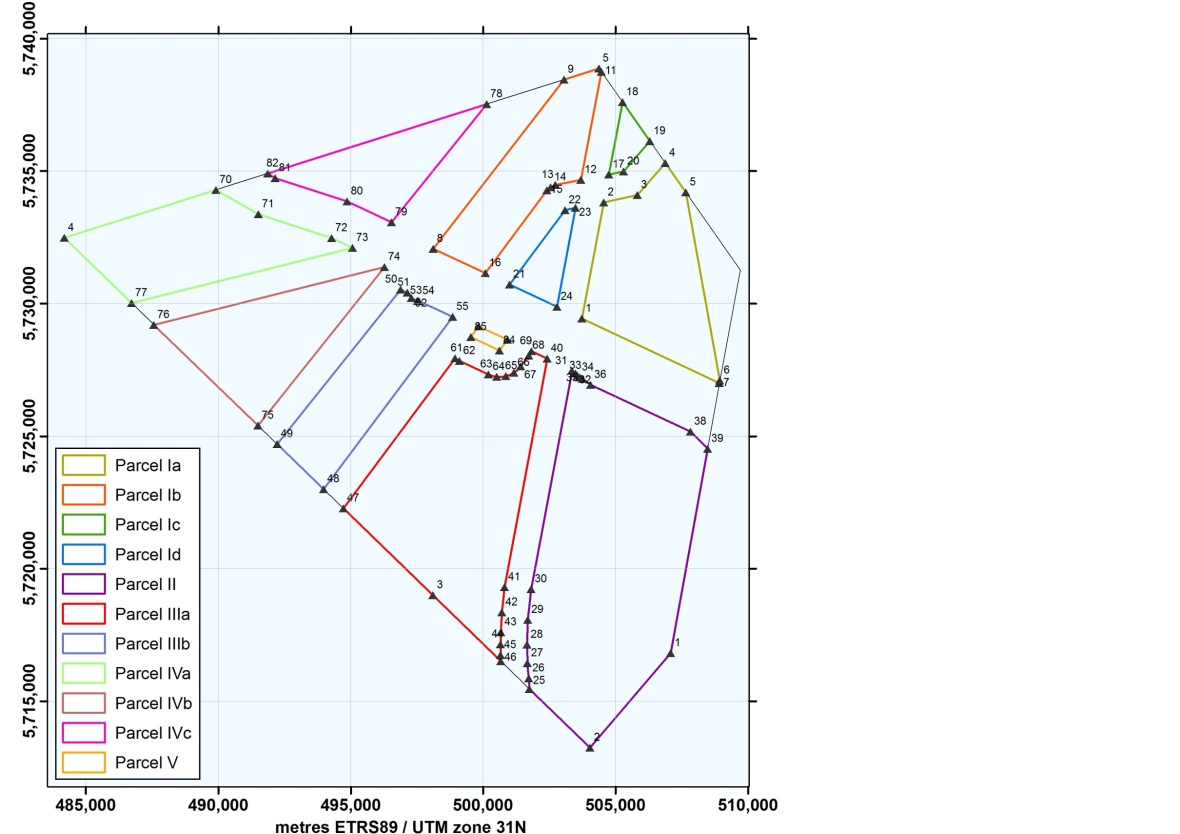


Figure 3 Parcels in the Borssele Wind Farm Sites

|  |  |  |
| --- | --- | --- |
| **Parcel Ia** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_1 | 503,726.3 | 5,729,436.4 |
| P\_2 | 504,554.7 | 5,733,823.5 |
| P\_3 | 505,822.9 | 5,734,098.7 |
| P\_4 | 506,881.9 | 5,735,300.8 |
| P\_5 | 507,652.8 | 5,734,201.1 |
| P\_6 | 508,942.8 | 5,727,106.6 |
| P\_7 | 508,924.4 | 5,727,004.4 |

Table 3.1a Boundary points of parcel Ia

|  |  |  |
| --- | --- | --- |
| **Parcel Ib** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_8 | 498,110.2 | 5,732,071.4 |
| P\_9 | 503,052.7 | 5,738,460.0 |
| WFZ\_5 | 504,373.7 | 5,738,878.4 |
| P\_11 | 504,463.3 | 5,738,750.6 |
| P\_12 | 503,691.5 | 5,734,672.8 |
| P\_13 | 502,732.4 | 5,734,476.1 |
| P\_14 | 502,543.5 | 5,734,391.2 |
| P\_15 | 502,414.0 | 5,734,276.6 |
| P\_16 | 500,084.5 | 5,731,151.3 |

Table 2.1b Boundary points of parcel Ib

|  |  |  |
| --- | --- | --- |
| **Parcel Ic** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_17 | 504,746.4 | 5,734,877.4 |
| P\_18 | 505,263.0 | 5,737,609.9 |
| P\_19 | 506,301.9 | 5,736,128.1 |
| P\_20 | 505,304.3 | 5,734,995.0 |

Table 3.1c Boundary points of parcel Ic

|  |  |  |
| --- | --- | --- |
| **Parcel Id** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_21 | 501,002.9 | 5,730,715.5 |
| P\_22 | 503,101.0 | 5,733,534.1 |
| P\_23 | 503,491.7 | 5,733,618.6 |
| P\_24 | 502,790.4 | 5,729,887.6 |

Table 3.1d Boundary points of parcel Id

|  |  |  |
| --- | --- | --- |
| **Parcel II** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_25 | 501,753.3 | 5,715,460.5 |
| P\_26 | 501,720.0 | 5,715,858.6 |
| P\_27 | 501,673.9 | 5,716,438.6 |
| P\_28 | 501,658.8 | 5,717,132.6 |
| P\_29 | 501,685.1 | 5,718,073.0 |
| P\_30 | 501,812.0 | 5,719,229.4 |
| P\_31 | 503,352.1 | 5,727,468.4 |
| P\_32 | 503,486.1 | 5,727,368.4 |
| P\_33 | 503,561.0 | 5,727,281.4 |
| P\_34 | 503,653.0 | 5,727,212.7 |
| P\_35 | 503,757.8 | 5,727,165.7 |
| P\_36 | 504,063.2 | 5,726,937.9 |
| P\_38 | 507,833.4 | 5,725,165.1 |
| P\_39 | 508,476.6 | 5,724,520.4 |
| WFZ\_1 | 507,087.1 | 5,716,811.7 |
| WFZ\_2 | 504,039.6 | 5,713,246.1 |

Table 3.2 Boundary points of parcel II

|  |  |  |
| --- | --- | --- |
| **Parcel IIIa** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_40 | 502,426.5 | 5,727,928.5 |
| P\_41 | 500,813.5 | 5,719,302.6 |
| P\_42 | 500,704.5 | 5,718,354.3 |
| P\_43 | 500,666.3 | 5,717,604.8 |
| P\_44 | 500,658.9 | 5,717,143.2 |
| P\_45 | 500,660.2 | 5,716,737.1 |
| P\_46 | 500,666.1 | 5,716,513.5 |
| WFZ\_3 | 498,105.4 | 5,718,993.7 |
| P\_47 | 494,719.1 | 5,722,273.6 |
| P\_61 | 498,940.6 | 5,727,941.3 |
| P\_62 | 499,109.6 | 5,727,840.0 |
| P\_63 | 500,195.7 | 5,727,329.7 |
| P\_64 | 500,520.8 | 5,727,240.4 |
| P\_65 | 500,857.1 | 5,727,263.6 |
| P\_66 | 501,166.7 | 5,727,397.2 |
| P\_67 | 501,420.7 | 5,727,634.5 |
| P\_68 | 501,721.8 | 5,728,035.7 |
| P\_69 | 501,826.6 | 5,728,210.6 |

Table 3.3a Boundary points of parcel IIIa

|  |  |  |
| --- | --- | --- |
| **parcel IIIb** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_48 | 493,970.0 | 5,722,999.1 |
| P\_49 | 492,218.7 | 5,724,695.4 |
| P\_50 | 496,881.0 | 5,730,532.8 |
| P\_51 | 497,139.9 | 5,730,411.2 |
| P\_52 | 497,289.1 | 5,730,215.2 |
| P\_53 | 497,518.6 | 5,730,107.2 |
| P\_54 | 497,575.3 | 5,730,099.1 |
| P\_55 | 498,850.7 | 5,729,499.4 |

Table 3.3b Boundary points of parcel IIIb

|  |  |  |
| --- | --- | --- |
| **Parcel IVa** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_70 | 489,907.4 | 5,734,297.1 |
| P\_71 | 491,506.1 | 5,733,381.0 |
| P\_72 | 494,277.3 | 5,732,475.8 |
| P\_73 | 495,068.1 | 5,732,104.1 |
| P\_77 | 486,719.0 | 5,730,022.2 |
| WFZ\_4 | 484,178.5 | 5,732,482.8 |

Table 3.4a Boundary points of parcel IVa

|  |  |  |
| --- | --- | --- |
| **Parcel IVb** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_74 | 496,277.2 | 5,731,380.0 |
| P\_75 | 491,497.3 | 5,725,394.1 |
| P\_76 | 487,565.3 | 5,729,202.5 |

Table 3.4b Boundary points of parcel IVb

|  |  |  |
| --- | --- | --- |
| **Parcel IVc** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_78 | 500,129.9 | 5,737,534.4 |
| P\_79 | 496,541.5 | 5,733,070.9 |
| P\_80 | 494,865.6 | 5,733,855.9 |
| P\_81 | 492,148.1 | 5,734,736.7 |
| P\_82 | 491,861.6 | 5,734,915.9 |

Table 3.4c Boundary points of parcel IVc

|  |  |  |
| --- | --- | --- |
| **Parcel V** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_83 | 500,922.0 | 5,728,636.0 |
| P\_84 | 500,621.0 | 5,728,234.8 |
| P\_85 | 499,534.9 | 5,728,745.1 |
| P\_86 | 499,836.2 | 5,729,146.6 |

Table 3.5 Boundary points of parcel V

## Safety Zones

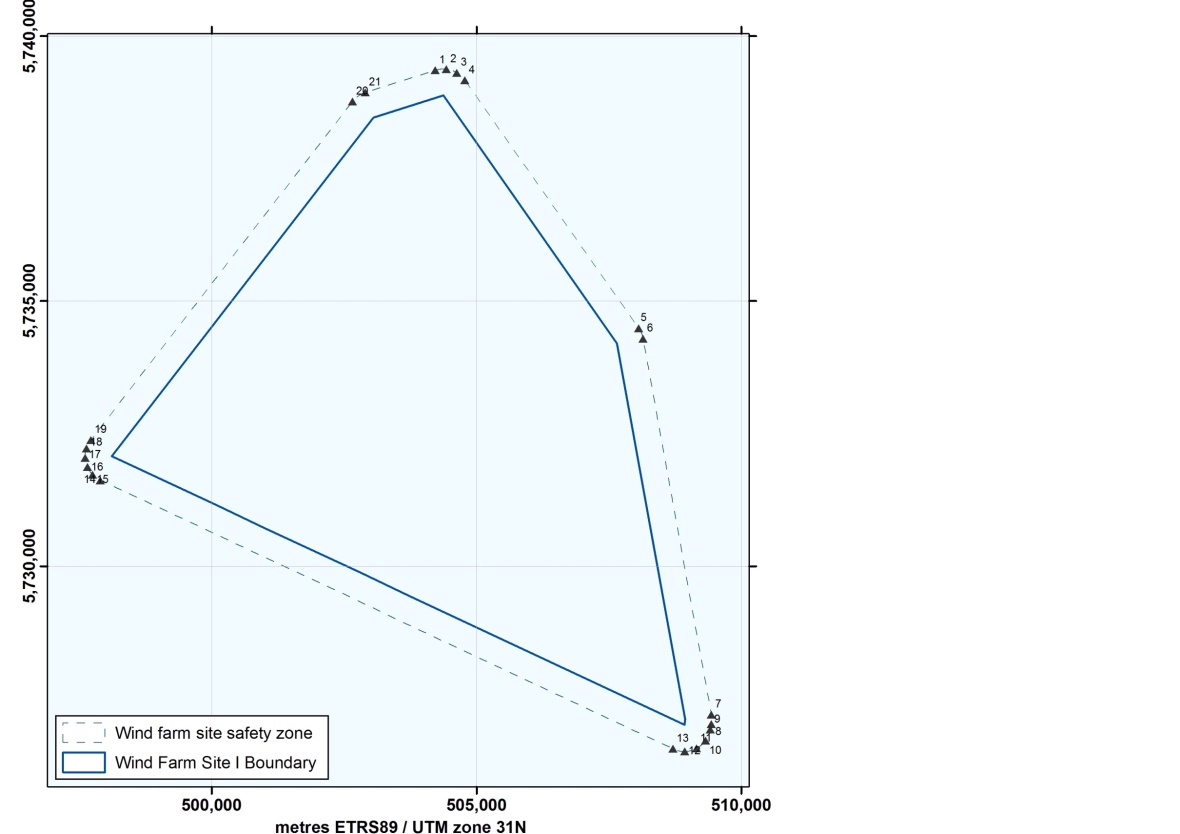


Figure 4 Safety zones around Borssele Wind Farm Site I

|  |  |  |
| --- | --- | --- |
| **BWFS I** | **UTM** | |
| **Safety zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SZ\_01 | 504,222.7 | 5,739,355.0 |
| SZ\_02 | 504,431.2 | 5,739,375.1 |
| SZ\_03 | 504,629.6 | 5,739,307.9 |
| SZ\_04 | 504,783.1 | 5,739,165.4 |
| SZ\_05 | 508,062.2 | 5,734,488.1 |
| SZ\_06 | 508,144.8 | 5,734,290.6 |
| SZ\_07 | 509,434.7 | 5,727,196.1 |
| SZ\_08 | 509,434.9 | 5,727,017.9 |
| SZ\_09 | 509,416.4 | 5,726,915.7 |
| SZ\_10 | 509,326.7 | 5,726,707.5 |
| SZ\_11 | 509,154.1 | 5,726,560.3 |
| SZ\_12 | 508,934.3 | 5,726,504.5 |
| SZ\_13 | 508,712.5 | 5,726,551.5 |
| SZ\_14 | 497,899.0 | 5,731,618.2 |
| SZ\_15 | 497,753.3 | 5,731,721.3 |
| SZ\_16 | 497,653.0 | 5,731,869.0 |
| SZ\_17 | 497,611.1 | 5,732,042.6 |
| SZ\_18 | 497,632.8 | 5,732,219.8 |
| SZ\_19 | 497,715.4 | 5,732,378.1 |
| SZ\_20 | 502,657.2 | 5,738,766.0 |
| SZ\_21 | 502,901.7 | 5,738,936.7 |

Table 4 Boundary points of the safety zones of Borssele Wind Farm Site I

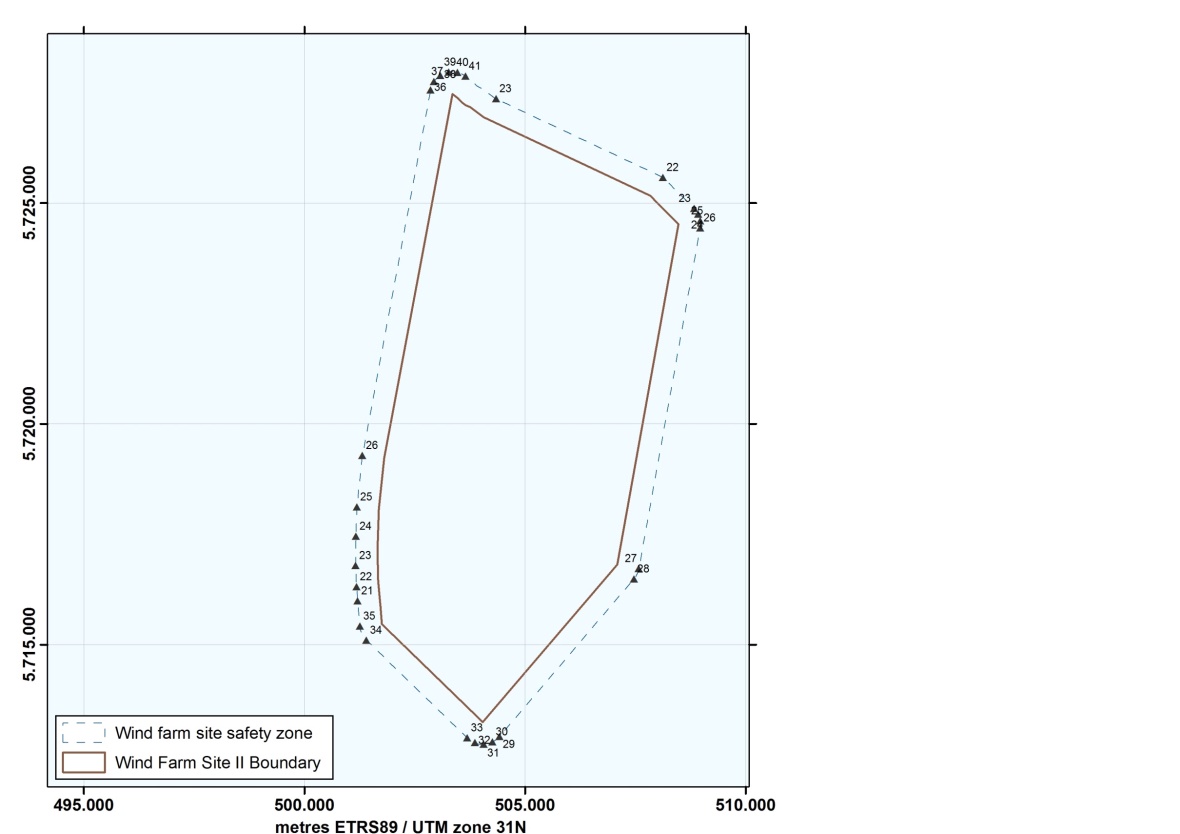


Figure 5 Safety zones around Borssele Wind Farm Sites II

|  |  |  |
| --- | --- | --- |
| **BWFS II** | **UTM** | |
| **Safety zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SZ\_22 | 508,125.5 | 5,725,580.2 |
| SZ\_23 | 508,830.6 | 5,724,873.6 |
| SZ\_24 | 508,923.9 | 5,724,743.9 |
| SZ\_25 | 508,971.5 | 5,724,591.5 |
| SZ\_26 | 508,968.7 | 5,724,431.7 |
| SZ\_27 | 507,579.1 | 5,716,723.0 |
| SZ\_28 | 507,467.1 | 5,716,486.8 |
| SZ\_29 | 504,419.6 | 5,712,921.2 |
| SZ\_30 | 504,259.4 | 5,712,797.0 |
| SZ\_31 | 504,063.1 | 5,712,746.6 |
| SZ\_32 | 503,862.9 | 5,712,778.4 |
| SZ\_33 | 503,691.7 | 5,712,886.9 |
| SZ\_34 | 501,405.4 | 5,715,101.4 |
| SZ\_35 | 501,255.0 | 5,715,418.9 |
| CP\_21 | 501,206.1 | 5,715,990.5 |
| CP\_22 | 501,181.0 | 5,716,307.4 |
| CP\_23 | 501,160.0 | 5,716,790.0 |
| CP\_24 | 501,167.6 | 5,717,455.3 |
| CP\_25 | 501,186.9 | 5,718,115.4 |
| CP\_26 | 501,314.5 | 5,719,280.2 |
| SZ\_36 | 502,860.6 | 5,727,560.3 |
| SZ\_37 | 502,936.8 | 5,727,746.8 |
| SZ\_38 | 503,080.2 | 5,727,888.0 |
| SZ\_39 | 503,267.7 | 5,727,961.2 |
| SZ\_40 | 503,468.8 | 5,727,954.5 |
| SZ\_41 | 503,651.0 | 5,727,869.1 |
| SL\_23 | 504,344.7 | 5,727,358.0 |

*Table 5 Boundary points of the safety zones of Borssele Wind Farm Site II*

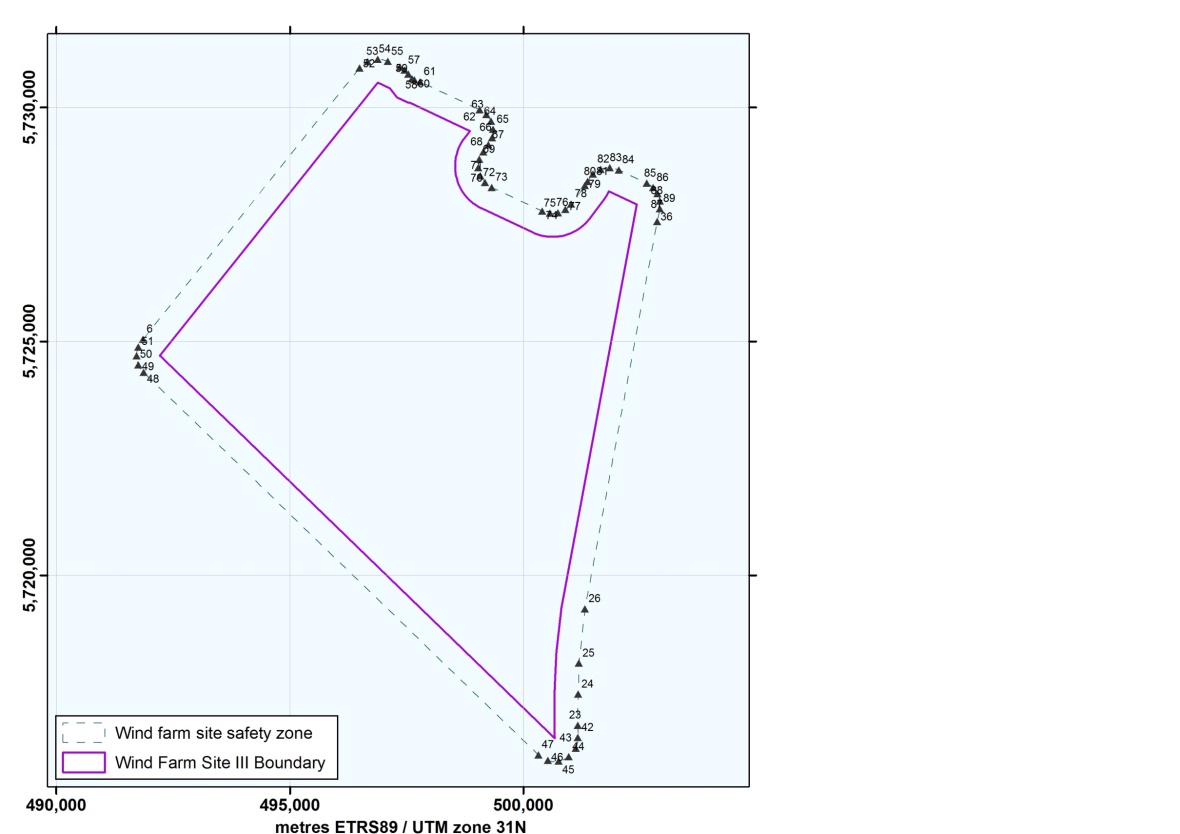


Figure 6 Safety zones around Borssele Wind Farm Sites III

|  |  |  |
| --- | --- | --- |
| **BWFS III** | **UTM** | |
| **Safety zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SZ\_42 | 501,166.0 | 5,716,526.7 |
| SZ\_43 | 501,117.0 | 5,716,297.4 |
| SZ\_44 | 500,969.0 | 5,716,115.6 |
| SZ\_45 | 500,754.3 | 5,716,021.3 |
| SZ\_46 | 500,520.2 | 5,716,035.2 |
| SZ\_47 | 500,318.3 | 5,716,154.3 |
| SZ\_48 | 491,870.8 | 5,724,336.3 |
| SZ\_49 | 491,759.8 | 5,724,496.8 |
| SZ\_50 | 491,718.7 | 5,724,687.5 |
| SZ\_51 | 491,753.8 | 5,724,879.4 |
| CP\_6 | 491,857.9 | 5,725,044.9 |
| SZ\_52 | 496,490.3 | 5,730,844.9 |
| SZ\_53 | 496,662.9 | 5,730,982.7 |
| SZ\_54 | 496,878.0 | 5,731,032.8 |
| SZ\_55 | 497,093.6 | 5,730,985.4 |
| SZ\_56 | 497,352.6 | 5,730,863.7 |
| SZ\_57 | 497,454.3 | 5,730,800.0 |
| SZ\_58 | 497,537.9 | 5,730,713.9 |
| SZ\_59 | 497,612.8 | 5,730,615.4 |
| SZ\_60 | 497,664.7 | 5,730,591.0 |
| SZ\_61 | 497,788.1 | 5,730,551.6 |
| SZ\_62 | 499,063.4 | 5,729,951.9 |
| SZ\_63 | 499,207.5 | 5,729,849.7 |
| SZ\_64 | 499,307.0 | 5,729,703.9 |
| SZ\_65 | 499,349.6 | 5,729,532.5 |
| SZ\_66 | 499,330.0 | 5,729,357.0 |
| SZ\_67 | 499,250.6 | 5,729,199.3 |
| SZ\_68 | 499,139.1 | 5,729,050.7 |
| SZ\_69 | 499,057.5 | 5,728,892.1 |
| SZ\_70 | 499,036.1 | 5,728,715.1 |
| SZ\_71 | 499,078.5 | 5,728,542.0 |
| SZ\_72 | 499,178.8 | 5,728,394.6 |
| SZ\_73 | 499,324.4 | 5,728,291.6 |
| SZ\_74 | 500,403.1 | 5,727,784.8 |
| SZ\_75 | 500,568.3 | 5,727,738.1 |
| SZ\_76 | 500,739.5 | 5,727,749.6 |
| SZ\_77 | 500,896.8 | 5,727,818.2 |
| SZ\_78 | 501,021.8 | 5,727,935.9 |
| SZ\_79 | 501,317.8 | 5,728,330.3 |
| SZ\_80 | 501,370.2 | 5,728,414.9 |
| SZ\_81 | 501,484.8 | 5,728,575.6 |
| SZ\_82 | 501,652.7 | 5,728,679.4 |
| SZ\_83 | 501,847.7 | 5,728,710.2 |
| SZ\_84 | 502,039.3 | 5,728,663.1 |
| SZ\_85 | 502,639.2 | 5,728,381.0 |
| SZ\_86 | 502,774.0 | 5,728,288.0 |
| SZ\_87 | 502,871.5 | 5,728,156.4 |
| SZ\_88 | 502,921.3 | 5,728,000.4 |
| SZ\_89 | 502,918.0 | 5,727,836.6 |
| SZ\_36 | 502,860.6 | 5,727,560.3 |
| CP\_26 | 501,314.5 | 5,719,280.2 |
| CP\_25 | 501,186.9 | 5,718,115.4 |
| CP\_24 | 501,167.6 | 5,717,455.3 |
| CP\_23 | 501,160.0 | 5,716,790.0 |

Table 6 Boundary points of the safety zones of Borssele Wind Farm Site III

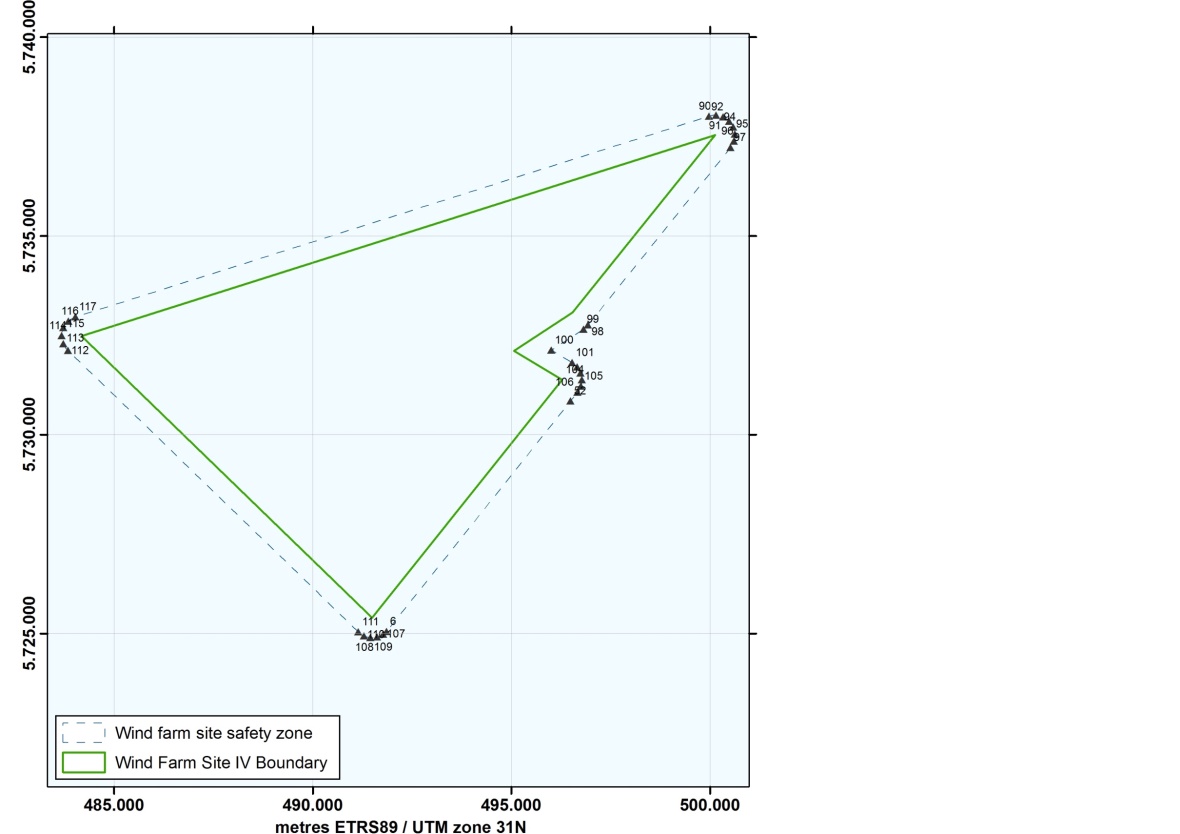


Figure 7 Safety zones around Borssele Wind Farm Sites IV

|  |  |  |
| --- | --- | --- |
| **BWFS IV** | **UTM** | |
| **Safety zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SZ\_90 | 499,979.0 | 5,738,011.1 |
| SZ\_91 | 500,159.1 | 5,738,033.6 |
| SZ\_92 | 500,335.3 | 5,737,990.3 |
| SZ\_93 | 500,484.5 | 5,737,887.0 |
| SZ\_94 | 500,587.0 | 5,737,737.3 |
| SZ\_95 | 500,629.2 | 5,737,560.8 |
| SZ\_96 | 500,605.8 | 5,737,380.8 |
| SZ\_97 | 500,519.6 | 5,737,221.1 |
| SZ\_98 | 496,931.1 | 5,732,757.7 |
| SZ\_99 | 496,815.8 | 5,732,652.9 |
| SZ\_100 | 496,008.9 | 5,732,123.5 |
| SZ\_101 | 496,534.1 | 5,731,809.0 |
| SZ\_102 | 496,662.8 | 5,731,698.4 |
| SZ\_103 | 496,747.1 | 5,731,551.1 |
| SZ\_104 | 496,777.2 | 5,731,384.1 |
| SZ\_105 | 496,749.8 | 5,731,216.7 |
| SZ\_106 | 496,668.0 | 5,731,068.0 |
| SZ\_52 | 496,490.3 | 5,730,844.9 |
| CP\_6 | 491,857.9 | 5,725,044.9 |
| SZ\_107 | 491,772.4 | 5,724,976.6 |
| SZ\_108 | 491,618.4 | 5,724,909.0 |
| SZ\_109 | 491,450.7 | 5,724,896.3 |
| SZ\_110 | 491,288.2 | 5,724,939.9 |
| SZ\_111 | 491,149.4 | 5,725,034.9 |
| SZ\_112 | 483,837.6 | 5,732,117.0 |
| SZ\_113 | 483,718.7 | 5,732,286.5 |
| SZ\_114 | 483,678.6 | 5,732,489.5 |
| SZ\_115 | 483,724.1 | 5,732,691.4 |
| SZ\_116 | 483,847.5 | 5,732,857.5 |
| SZ\_117 | 484,027.6 | 5,732,959.4 |

Table 7 Boundary points of the safety zones of Borssele Wind Farm Site IV

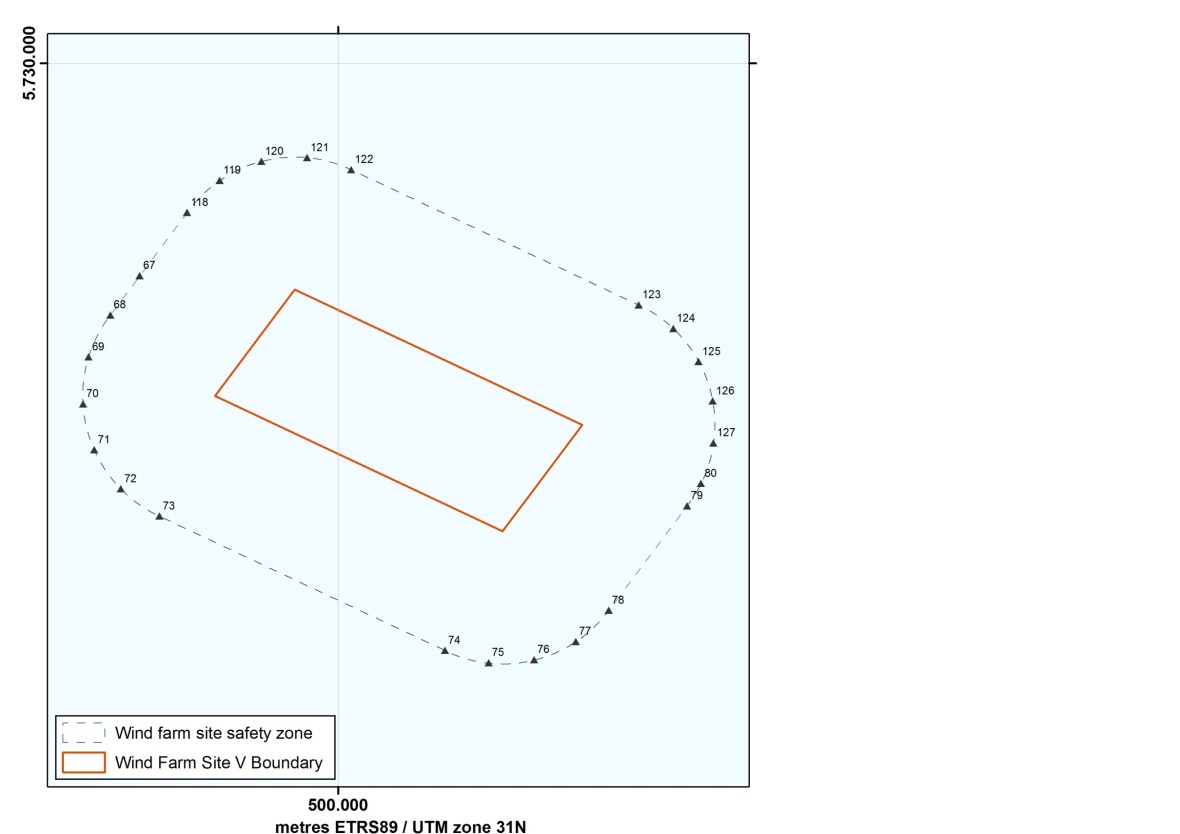


Figure 8 Safety zones around Borssele Wind Farm Sites V

|  |  |  |
| --- | --- | --- |
| **BWFS V** | **UTM** | |
| **Safety zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SZ\_118 | 499,429.2 | 5,729,437.2 |
| SZ\_119 | 499,552.6 | 5,729,558.4 |
| SZ\_120 | 499,709.8 | 5,729,630.3 |
| SZ\_121 | 499,882.1 | 5,729,644.4 |
| SZ\_122 | 500,048.9 | 5,729,599.0 |
| SZ\_123 | 501,134.8 | 5,729,088.4 |
| SZ\_124 | 501,265.2 | 5,728,999.6 |
| SZ\_125 | 501,361.5 | 5,728,874.5 |
| SZ\_126 | 501,413.9 | 5,728,725.6 |
| SZ\_127 | 501,417.4 | 5,728,567.8 |
| SZ\_80 | 501,370.2 | 5,728,414.9 |
| SZ\_79 | 501,317.8 | 5,728,330.3 |
| SZ\_78 | 501,021.8 | 5,727,935.9 |
| SZ\_77 | 500,896.8 | 5,727,818.2 |
| SZ\_76 | 500,739.5 | 5,727,749.6 |
| SZ\_75 | 500,568.3 | 5,727,738.1 |
| SZ\_74 | 500,403.1 | 5,727,784.8 |
| SZ\_73 | 499,324.4 | 5,728,291.6 |
| SZ\_72 | 499,178.8 | 5,728,394.6 |
| SZ\_71 | 499,078.5 | 5,728,542.0 |
| SZ\_70 | 499,036.1 | 5,728,715.1 |
| SZ\_69 | 499,057.5 | 5,728,892.1 |
| SZ\_68 | 499,139.1 | 5,729,050.7 |
| SZ\_67 | 499,250.6 | 5,729,199.3 |

Table 8 Boundary points of the safety zones of Borssele Wind Farm Site V

# Infrastructure

## Cables and pipelines



Figure 9 Active cables and pipelines in the Borssele Wind Farm Zone

|  |  |  |
| --- | --- | --- |
| **TAT-14** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| CP\_1 | 487,143.1 | 5,729,611.4 |
| CP\_2 | 495,679.0 | 5,731,738.2 |
| CP\_3 | 496,524.3 | 5,732,250.9 |
| CP\_4 | 496,847.1 | 5,732,654.0 |
| CP\_5 | 500,990.2 | 5,737,806.9 |

Table 9.1 Coordinates TAT-14

|  |  |  |
| --- | --- | --- |
| **SeaMeWe 3** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| CP\_11 | 494,329.2 | 5,722,651.2 |
| CP\_13 | 500,215.7 | 5,730,531.7 |
| CP\_14 | 500,549.5 | 5,730,936.7 |
| CP\_15 | 502,805.0 | 5,733,965.0 |
| CP\_16 | 503,597.7 | 5,734,150.5 |
| CP\_17 | 504,128.0 | 5,734,250.9 |
| CP\_18 | 504,652.5 | 5,734,345.4 |
| CP\_19 | 505,570.0 | 5,734,530.0 |
| CP\_20 | 506,591.9 | 5,735,714.4 |

Table 9.2 Coordinates SeaMeWe 3

|  |  |  |
| --- | --- | --- |
| **Farland** | **UTM** | |
| **North** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| CP\_33 | 508,832.6 | 5,726,495.4 |
| CP\_34 | 503,626.9 | 5,728,917.6 |
| CP\_28 | 503,162.6 | 5,729,151.1 |
| CP\_35 | 502,694.9 | 5,729,368.1 |
| CP\_36 | 500,695.7 | 5,730,308.0 |
| CP\_13 | 500,215.7 | 5,730,531.7 |
| CP\_37 | 499,761.4 | 5,730,750.1 |
| CP\_38 | 497,788.4 | 5,731,668.5 |
| CP\_8 | 497,325.2 | 5,731,891.1 |
| CP\_43 | 496,853.8 | 5,732,105.5 |
| CP\_3 | 496,524.3 | 5,732,250.9 |
| CP\_39 | 495,804.1 | 5,732,587.1 |
| CP\_40 | 494,583.4 | 5,733,161.0 |
| CP\_41 | 491,831.0 | 5,734,057.0 |
| CP\_42 | 490,924.9 | 5,734,619.3 |

Table 9.3 Coordinates Farland North

|  |  |  |
| --- | --- | --- |
| **Franpipe** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| CP\_6 | 491,857.9 | 5,725,044.9 |
| CP\_7 | 497,002.5 | 5,731,488.1 |
| CP\_8 | 497,325.2 | 5,731,891.1 |
| CP\_9 | 497,647.5 | 5,732,290.3 |
| CP\_10 | 502,208.1 | 5,738,192.6 |

Table 9.4 Coordinates Franpipe

|  |  |  |
| --- | --- | --- |
| **Zeepipe** | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| CP\_21 | 501,206.1 | 5,715,990.5 |
| CP\_22 | 501,181.0 | 5,716,307.4 |
| CP\_23 | 501,160.0 | 5,716,790.0 |
| CP\_24 | 501,167.6 | 5,717,455.3 |
| CP\_25 | 501,186.9 | 5,718,115.4 |
| CP\_26 | 501,314.5 | 5,719,280.2 |
| CP\_28 | 503,162.6 | 5,729,151.1 |
| CP\_29 | 503,259.3 | 5,729,658.4 |
| CP\_30 | 504,018.9 | 5,733,713.0 |
| CP\_17 | 504,128.0 | 5,734,250.9 |
| CP\_31 | 504,214.8 | 5,734,778.9 |
| CP\_32 | 504,861.9 | 5,738,182.1 |

Table 9.5 Coordinates Zeepipe

## Infrastructure - TenneT

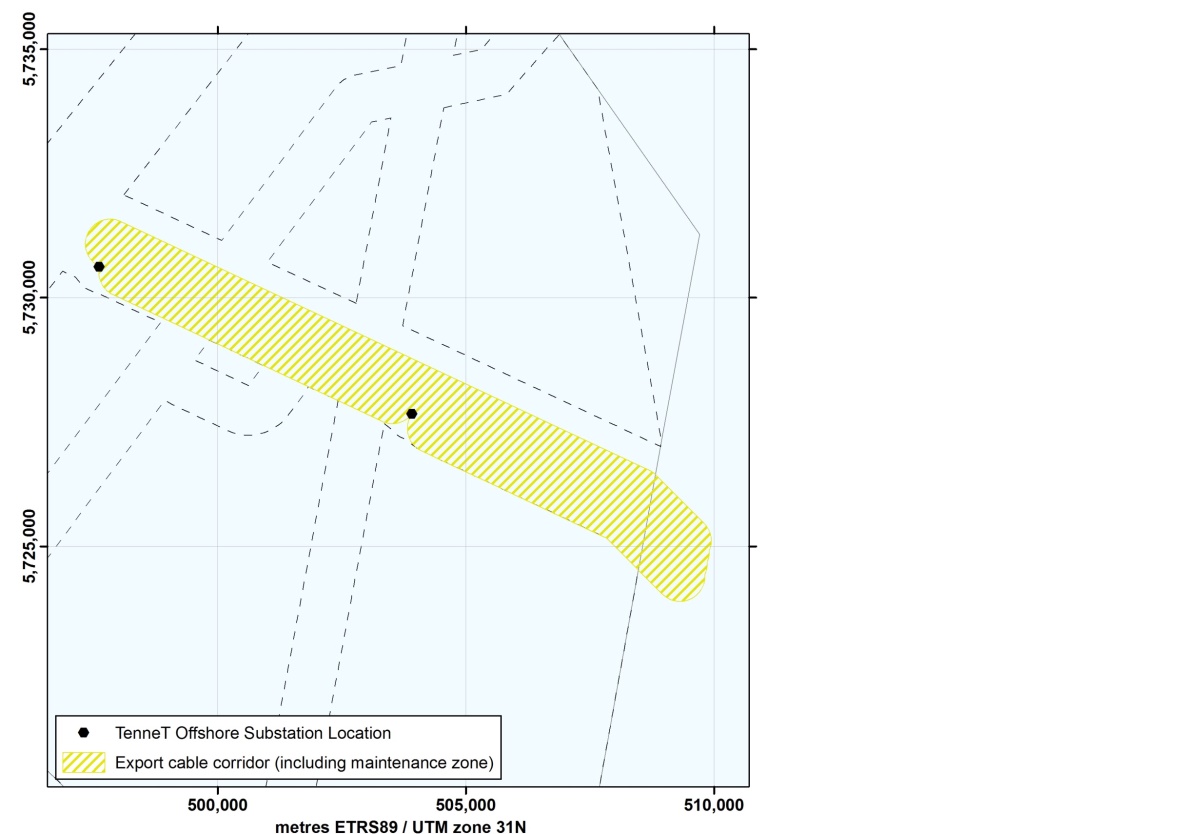


Figure 10 TenneT Platforms Alpha and Beta and export cable route  
(including maintenance zone)

|  |  |  |
| --- | --- | --- |
|  | **UTM** | |
|  | **(ETRS89, zone 31)** | |
| **Platform** | **Easting** | **Northing** |
| Alpha | 503,919.0 | 5,727,666.0 |
| Beta | 497,620.7 | 5,730,622.0 |

Table 10 Position points TenneT platforms

## Infield Cable Entry Zones

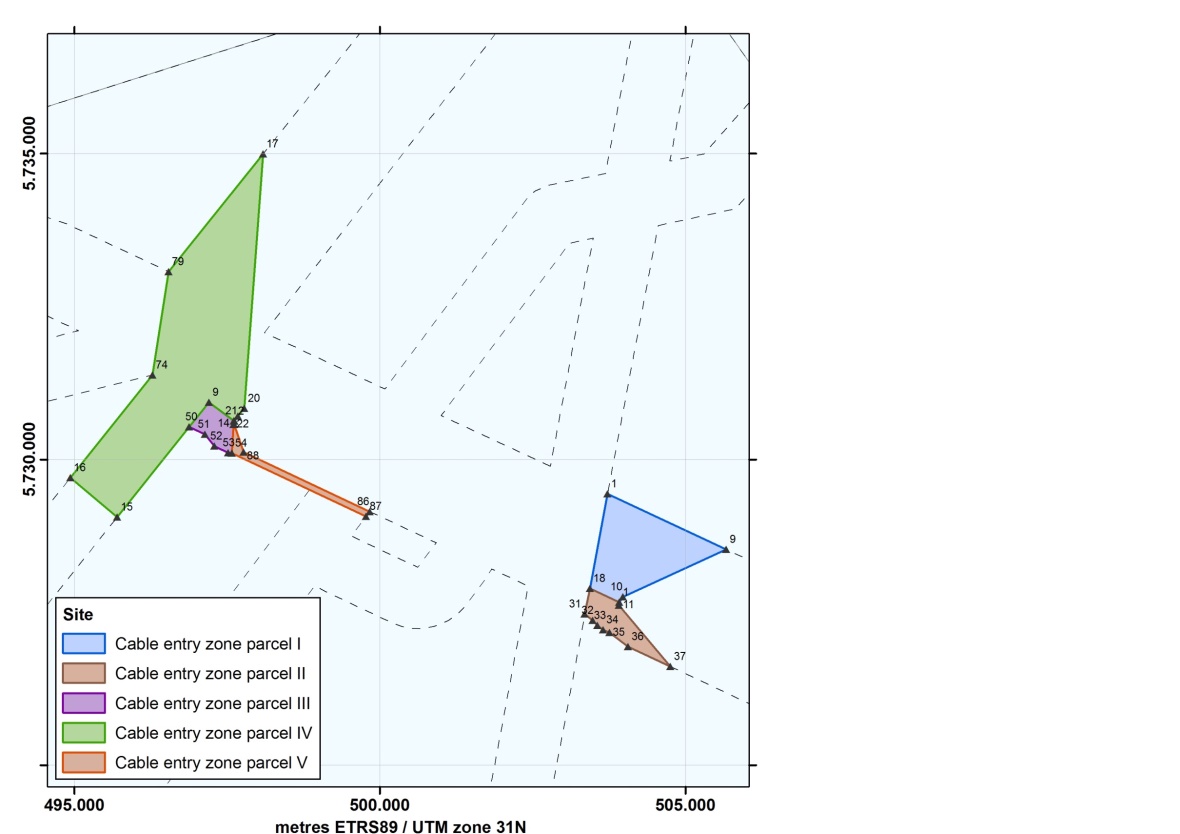


Figure 11 The infield cable entry zones for the TenneT infrastructure in the Borssele Wind Farm Zone

|  |  |  |
| --- | --- | --- |
| **BWFS I** | **UTM** | |
| **Cable entry zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_1 | 503,726.3 | 5,729,436.4 |
| T\_9 | 505,669.1 | 5,728,527.4 |
| T\_10 | 503,977.5 | 5,727,748.8 |
| T\_1 | 503,919.0 | 5,727,665.3 |
| T\_18 | 503,438.1 | 5,727,891.2 |

Table 11.1 Coordinates infield cable entry BWFS I

|  |  |  |
| --- | --- | --- |
| **BWFS II** | **UTM** | |
| **Cable entry zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_31 | 503,352.1 | 5,727,468.4 |
| P\_32 | 503,486.1 | 5,727,368.4 |
| P\_33 | 503,561.0 | 5,727,281.4 |
| P\_34 | 503,653.0 | 5,727,212.7 |
| P\_35 | 503,757.8 | 5,727,165.7 |
| P\_36 | 504,063.2 | 5,726,937.9 |
| P\_37 | 504,755.8 | 5,726,612.2 |
| T\_11 | 503,914.4 | 5,727,612.4 |
| T\_1 | 503,919.0 | 5,727,665.3 |
| T\_18 | 503,438.1 | 5,727,891.2 |

*Table 11.2 Coordinates infield cable entry BWFS II*

|  |  |  |
| --- | --- | --- |
| **BWFS III** | **UTM** | |
| **Cable entry zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_50 | 496,881.0 | 5,730,532.8 |
| P\_51 | 497,139.9 | 5,730,411.2 |
| P\_52 | 497,289.1 | 5,730,215.2 |
| P\_53 | 497,518.6 | 5,730,107.2 |
| P\_54 | 497,575.3 | 5,730,099.1 |
| T\_22 | 497,603.4 | 5,730,569.9 |
| T\_21 | 497,609.5 | 5,730,630.6 |
| SL\_9 | 497,202.2 | 5,730,934.4 |

Table 11.3 Coordinates infield cable entry BWFS III

|  |  |  |
| --- | --- | --- |
| **BWFS IV** | **UTM** | |
| **Cable entry zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| P\_50 | 496,881.0 | 5,730,532.8 |
| T\_15 | 495,703.3 | 5,729,058.3 |
| T\_16 | 494,935.0 | 5,729,700.0 |
| P\_74 | 496,277.2 | 5,731,380.0 |
| P\_79 | 496,541.5 | 5,733,070.9 |
| T\_17 | 498,088.1 | 5,734,994.8 |
| T\_20 | 497,781.3 | 5,730,835.8 |
| T\_13 | 497,678.4 | 5,730,705.1 |
| T\_2 | 497,620.7 | 5,730,622.2 |
| SL\_9 | 497,202.2 | 5,730,934.4 |

Table 11.4 Coordinates infield cable entry BWFS IV

|  |  |  |
| --- | --- | --- |
| **BWFS V** | **UTM** | |
| **Cable entry zone** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| T\_2 | 497,620.7 | 5,730,622.2 |
| T\_14 | 497,615.4 | 5,730,568.7 |
| P\_88 | 497,769.0 | 5,730,118.6 |
| P\_86 | 499,836.2 | 5,729,146.6 |
| P\_87 | 499,774.9 | 5,729,064.9 |
| P\_54 | 497,575.3 | 5,730,099.1 |
| T\_22 | 497,603.4 | 5,730,569.9 |
| T\_21 | 497,609.5 | 5,730,630.6 |

Table 11.5 Coordinates infield cable entry BWFS V

# Shipping Corridor

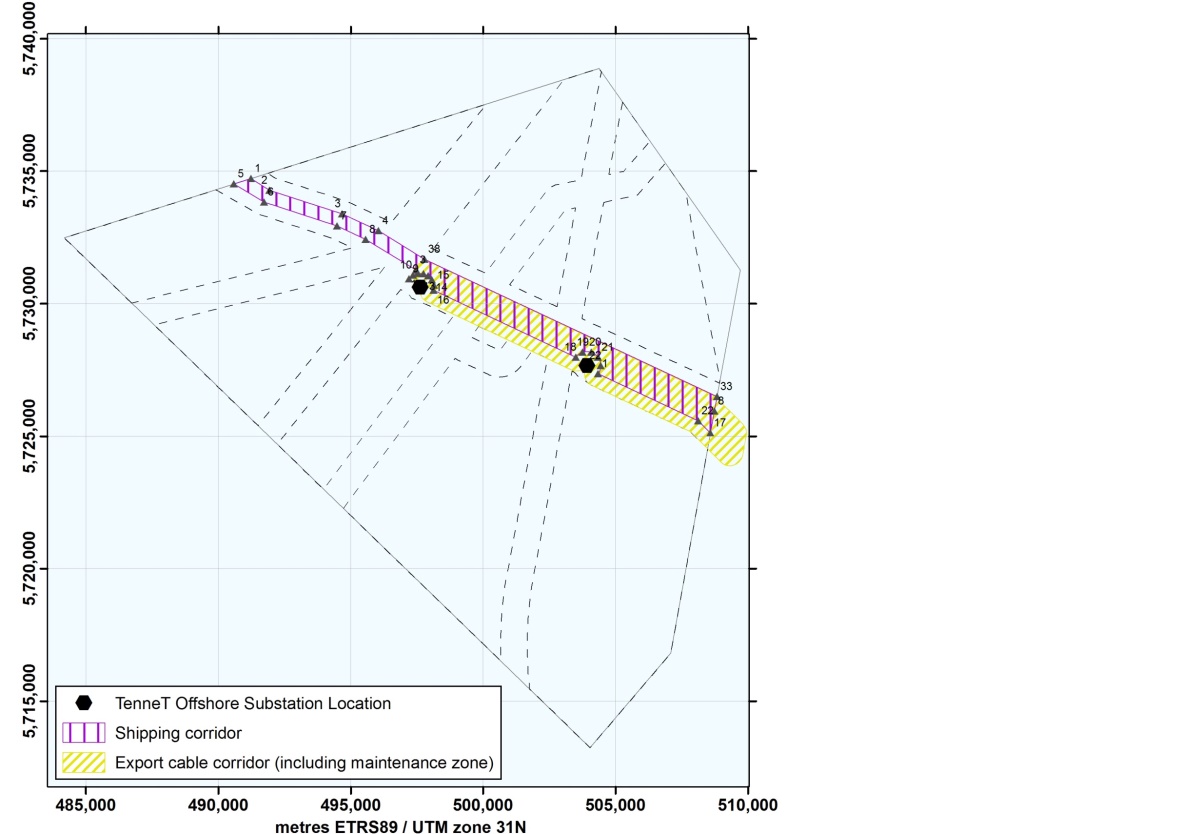


Figure 12 The shipping corridor through the Borssele Wind Farm Zone

|  |  |  |
| --- | --- | --- |
| **Shipping** | **UTM** | |
| **corridor** | **(ETRS89, zone 31)** | |
| **Point No.** | **Easting** | **Northing** |
| SL\_1 | 491,235.2 | 5,734,717.5 |
| SL\_2 | 491,936.7 | 5,734,283.6 |
| SL\_3 | 494,677.5 | 5,733,392.6 |
| SL\_4 | 496,051.9 | 5,732,749.7 |
| CP\_38 | 497,788.4 | 5,731,668.5 |
| CP\_33 | 508,832.6 | 5,726,495.4 |
| T\_8 | 508,733.7 | 5,725,946.4 |
| SL\_17 | 508,584.7 | 5,725,120.0 |
| SZ\_22 | 508,125.5 | 5,725,580.2 |
| SL\_23 | 504,344.7 | 5,727,358.0 |
| SL\_22 | 504,444.0 | 5,727,665.7 |
| SL\_21 | 504,344.3 | 5,727,973.2 |
| SL\_20 | 504,083.3 | 5,728,164.0 |
| SL\_19 | 503,760.0 | 5,728,165.7 |
| SL\_18 | 503,497.0 | 5,727,977.6 |
| SL\_16 | 498,131.4 | 5,730,500.7 |
| SL\_15 | 498,139.5 | 5,730,702.5 |
| SL\_14 | 498,069.4 | 5,730,894.8 |
| SL\_13 | 497,931.1 | 5,731,045.6 |
| SL\_12 | 497,745.6 | 5,731,132.1 |
| SL\_11 | 497,541.2 | 5,731,141.1 |
| SL\_10 | 497,348.8 | 5,731,071.3 |
| SL\_9 | 497,202.2 | 5,730,934.4 |
| T\_3 | 497,466.3 | 5,731,268.0 |
| SL\_8 | 495,559.3 | 5,732,426.4 |
| SL\_7 | 494,481.4 | 5,732,932.6 |
| SL\_6 | 491,722.7 | 5,733,831.7 |
| SL\_5 | 490,590.5 | 5,734,513.4 |

Table 12 Position points defining the shipping corridor

# Reference documents

1. [SDB\_20160226\_RVO\_MPK.MPK](http://offshorewind.rvo.nl/file/view/42479162/base-map-gismpk-file)

