

CONSULTANTS IN ENGINEERING, ENVIRONMENTAL SCIENCE & PLANNING

APPENDIX 6.1

Input Data for Carbon Clare Planno Authority. Inspr Calculator

Jare Planno Authority. Inspection Purposes Only

Carbon Calculator Inputs Category	Value	Comments
No. of Turbines		Comments
Duration of consent	35	35 year lifespan.
Power rating of 1 turbine (MW)	3.9MW -	Calculator ran twice for upper and lower range extents
rower rating of 1 tarbine (PW)	4.8MW	calculator rain twice for apper and lower rainge extents
Capacity factor	35	
Backup - Fraction of output to back up %	5	Carbon calculator note advises that 'If 20% of national electricity is generated by wind energy, the extra capacity required for backup is 5% of the rated
		capacity of the wind plant (Dale et al 2004)'. 5% of capacity (105.6) = 1.65%
Additional emissions due to reduced thermal efficiency of the reserve generation (%)	10	Carbon calculator note advises that: 'Extra emissions due to reduced thermal efficiency of the reserve power generation \approx 10% (Dale et al 2004)'.
average annual air temp (°C)	11	Taken from Table 6-6 from Chapter 5 Air and Climate Chapter, Volume 2 of the EIAR.
Type of peatland	Fen	
average depth of peat at site (m)	0	
Content of dried peat (% by weight)	49	Carbon calculator note advises that: 'An estimate of the range of %C in peat of between 49% and 62% is provided by Birnie et al. (1991)'. Based on the thinness of peat on site, limited frequency and area and management (farming and forestry), peat is not intact and is therfore likely to have a lower level of carbon content.
Average extent of drainage around	1	Unable to calculate. Land already drained and not
drainage features at site (m)		intact peatland. An estimation is given.
average water table depth (m)	0.5	The carbon calculator only allows a figure of -0.1-1m,
		as the this is likely to be less due to land management
Drainage around drainage	0.5	a depth of 0.5m is provided. Worst case
Dry soil bulk density of peat gcm ⁻³	0.2	Carbon calculator note advises that: 'A value for bulk
pery company control your gam	7	density for peat as derived from the National Soil Inventory of Scotland (Lilly et al., 2010), is 0.2 g cm- 3 Dryburgh (1978) report a range of typical bulk density of sod peat slightly higher, as being between 0.25 and 0.45 g/cm-3'.
Time required for regeneration of bog plants after restoration (years)	2	While no restoration/regeneration is envisaged, the lowest figure the carbon calculator accepts is 2 years.
Carbon accumulation due to C fixation by	0.1	While no restoration/regeneration is envisaged, the
bog plants in undrained peats (tC ha-1 yr-1)		lowest figure the carbon calculator accepts is 0.1 tC ha- 1 yr-1.
area of forestry to be felled (ha)	14.2	This is dependent on the visit described from t
Average rate of carbon sequestration in timber (tC ha- 1 yr-1)	3.6	This is dependent on the yield class of the forestry. Carbon sequestered for yield class 16 m3 ha-1 y-1 = 3.6 tC ha-1 yr-1
Counterfactual emission factors: Fossil fuel mix emission factor (t CO2 MWh-1)	0.45	Fixed value
no. of borrow pits	0	
average length of borrow pits (m)	0	
average width of borrow pits (m)	0	
average depth of peat removed from pit (m)	0	
Method used to calculate CO2 loss from foundations and hard-standing	Rectangular with verticle	
average length of turbine foundation (m)	walls 25	
average width of turbine foundation (m)	25	
average depth of peat removed from turbine foundation		No peat shall be removed from site
average length of hard standing (m)	70	
average width of hard standing (m)	35	
average depth of peat removed from hard-standing (m)		No peat shall be removed from site
Volume of concrete (m3) used in construction of wind fa		

and upgrading approx. 1.4km of existing forest tracks. length of access track that is floating road (m) 0 0 mexpected. Floating road depth (m) 0 1	Existing access track	1400	We are constructing approx 7.1km of new access track
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	Restoration of site after decomissioning	N/A	Not applicable

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