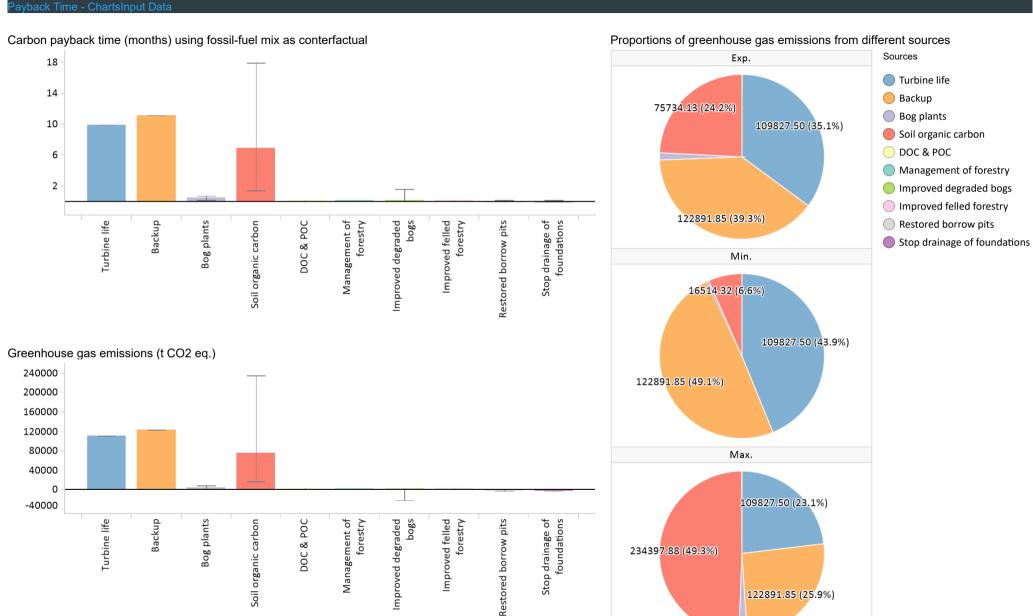
Payback Time

Payback	Time		
Payback	Time -	- ChartsInput	Data

1. Windfarm CO2 emission saving over	Exp.	Min.	Max
coal-fired electricity generation (t CO2 / yr)	271,345	261,295	351,74
grid-mix of electricity generation (t CO2 / yr)	74,791	72,021	96,95
fossil fuel-mix of electricity generation (t CO2 / yr)	132,723	127,808	172,04
Energy output from windfarm over lifetime (MWh)	14,747,022	14,200,836	19,116,51
Total CO2 losses due to wind farm (tCO2 eq.)	Exp.	Min.	Max
2. Losses due to turbine life (eg. manufacture, construction, decomissioning)	109,827	109,827	109,82
3. Losses due to backup	122,892	122,892	122,89
4. Lossess due to reduced carbon fixing potential	4,399	1,205	7,75
5. Losses from soil organic matter	75,734	16,514	234,39
6. Losses due to DOC & POC leaching	18	0	29
7. Losses due to felling forestry	0	0	
Total losses of carbon dioxide	312,871	250,438	475,17
	Exp.	Min.	Max.
8a. Change in emissions due to improvement of degraded bogs	0	0	-22,458
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry	0	0	-22,458 0
8. Total CO2 gains due to improvement of site (t CO2 eq.) 8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits	0 0 -446	0 0 0	-22,458 0 -2,237
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding	0 0 -446 -790	0 0 0	-22,458 0 -2,237 -2,696
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding	0 0 -446	0 0 0	-22,458 0 -2,237 -2,696
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits	0 0 -446 -790	0 0 0	-22,458 0 -2,237
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding Total change in emissions due to improvements	0 0 -446 -790 -1,236	0 0 0 0	-22,458 0 -2,237 -2,696 -27,391 Max.
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding Total change in emissions due to improvements RESULTS Net emissions of carbon dioxide (t CO2 eq.) Carbon Payback Time	0 0 -446 -790 -1,236 Exp. 311,635	0 0 0 0 0 Min. 223,047	-22,458 0 -2,237 -2,696 -27,391 Max. 475,172
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding Total change in emissions due to improvements RESULTS Net emissions of carbon dioxide (t CO2 eq.) Carbon Payback Timecoal-fired electricity generation (years)	0 0 -446 -790 -1,236 Exp. 311,635	0 0 0 0 0 Min. 223,047	-22,458 0 -2,237 -2,696 -27,391 Max . 475,172
8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding Total change in emissions due to improvements RESULTS Net emissions of carbon dioxide (t CO2 eq.) Carbon Payback Timecoal-fired electricity generation (years)grid-mix of electricity generation (years)	0 0 -446 -790 -1,236 Exp. 311,635	0 0 0 0 0 Min. 223,047	-22,458 0 -2,237 -2,696 -27,391 Max . 475,172
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8a. Change in emissions due to improvement of degraded bogs 8b. Change in emissions due to improvement of felled forestry 8c. Change in emissions due to restoration of peat from borrow pits 8d. Change in emissions due to removal of drainage from foundations & hardstanding Total change in emissions due to improvements	0 0 -446 -790 -1,236 Exp. 311,635	0 0 0 0 0 Min. 223,047	-22,458 0 -2,237 -2,696 -27,391





Sources