

Technical Appendix 7.4: Cumulative Assessment Spreadsheet

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	1.85	98%	0.5 (operational disturbance effects)
2017	Beaw Field, South Yell	1	0.044-0.144	98%	1
2018	Mossy Hill, Lerwick (25 yr)	1	0-0.045	98%	1
2025	Mossy Hill, Lerwick resubmission	1	0-0.02117	98%	1
2020	Energy Isles, North Yell SEI	1	0.004-0.010	99.50%	1.58 (construction & operational effects)

	Summary best-case	Summary worse-case
	1.85	1.85
	0.044	0.144
	0	0.02117
	0.004	0.01
Total	1.898	2.02517

* It should be noted that the original 2018 Mossy Hill EIAR metrics (highlighted in yellow above) are not added to the cumulative list, because the 2025 resubmission will take precedence if consented. If not consented, then the original 2018 EIAR metrics stand and the 2025 resubmission metrics can be discounted.

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	N/A, before gulls assessed		N/A
2017	Beaw Field, South Yell	1	N/A, before gulls assessed		N/A
2018	Mossy Hill, Lerwick	1	0		0
2020	Energy Isles, North Yell SEI	1	N/A, before gulls assessed		N/A

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	8.5	98%	37.5 (operational disturbance)
2017	Beaw Field, South Yell	1	0.069-0.347	98%	2 pairs (construction & operational effects)
2018	Mossy Hill, Lerwick	1	0.4477-2.346	98%	2
2025	Mossy Hill, Lerwick resubmission	1	0.424-1.202	98%	2 (during construction only)
2020	Energy Isles, North Yell SEI	1	0.007-0.010	99%	2.4 (construction effects only), 6 (operational effects only)

Summary best-case	Summary worse-case
8.5	8.5
0.069	0.347
0.424	1.202
0.007	0.01
Total	10.059

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EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	1.1	98%	4.5 (operational disturbance effects)
2017	Beaw Field, South Yell	1	0	N/A	1-3 (construction effects only)
2018	Mossy Hill, Lerwick	1	0	N/A	0
2020	Energy Isles, North Yell SEI	1	0	N/A	15.8-16.6 (construction & operational effects)

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EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm	Avoidance rate used	No. of pairs/territories lost to land-
			as calculated in EIAR	in EIAR	take/displacement
2011	Viking addendum, central-north Mainland	1	17.8	98%	2 (landtake), 8 (operational disturbance)
2017	Beaw Field, South Yell	1	0.168-0.457	98%	2-3 (construction effect only)
2018	Mossy Hill, Lerwick	1	0.005-2.97	98%	2
2025	Mossy Hill, Lerwick resubmission	1	0.004-1.523	98%	1
2020	Energy Isles, North Yell SEI	1	0.004-0.345	98%	3.2-7.9 (construction & operational effects)
			Summary best-case	Summary worse-case	
			17.8	17.8	
			0.168	0.457	
			0.004	1.523	
			0.004	0.345	
Total			17.976	20.125	

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EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	N/A, before gulls assessed		N/A
2017	Beaw Field, South Yell	1	N/A, before gulls assessed		N/A
2018	Mossy Hill, Lerwick	1	1.241-7.968	99.50%	0
2025	Mossy Hill, Lerwick resubmission	1	0.325-2.007 (summer season only)	99.50%	0
2025	Mossy Hill, Lerwick resubmission	1	0.446-0.731 (winter season only)	99.50%	0
2020	Energy Isles, North Yell SEI	1	N/A, before gulls assessed		N/A

	Summary best-case	Summary worse-case
	0.325	2.007
	0.446	0.731
Total	0.771	2.738

* It should be noted that the original 2018 Mossy Hill EIAR metrics (highlighted in yellow above) are not added to the cumulative list, because the 2025 resubmission will take precedence if consented. If not consented, then the original 2018 EIAR metrics stand and the 2025 resubmission metrics can be discounted.

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	N/A, before gulls assessed		N/A
2017	Beaw Field, South Yell	1	N/A, before gulls assessed		N/A
2018	Mossy Hill, Lerwick	1	0.681-4.172	99.50%	0
2025	Mossy Hill, Lerwick resubmission	1	0.204-0.691 (summer season only)	99.50%	0
2025	Mossy Hill, Lerwick resubmission	1	0.191-0.495 (winter season only)	99.50%	0
2020	Energy Isles, North Yell SEI	1	N/A, before gulls assessed		N/A

	Summary best-case	Summary worse-case
	0.204	0.691
	0.191	0.495
Total	0.395	1.186

* It should be noted that the original 2018 Mossy Hill EIAR metrics (highlighted in yellow above) are not added to the cumulative list, because the 2025 resubmission will take precedence if consented. If not consented, then the original 2018 EIAR metrics stand and the 2025 resubmission metrics can be discounted.

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	0	N/A	3.5 (operational disturbance)
2017	Beaw Field, South Yell	1	0	N/A	2 (construction effects only)
2018	Mossy Hill, Lerwick	1	0-0.0154	98%	0
2025	Mossy Hill, Lerwick resubmission	1	0-0.00667	98%	0
2020	Energy Isles, North Yell SEI	1	0	N/A	0
Total		Summary best-case 0	Summary worse-case 0.00667		

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2011	Viking addendum, central-north Mainland	1	0		0
2017	Beaw Field, South Yell	1	0		0
2018	Mossy Hill, Lerwick	1	0		0
2020	Energy Isles, North Yell SEI	1	0		0.8-1.6 (construction & operational effects)

EIAR date	Wind farm name	NHZ number	No. of birds killed per annum for the wind farm as calculated in EIAR	Avoidance rate used in EIAR	No. of pairs/territories lost to land-take/displacement
2011	Viking addendum, central-north Mainland	1	1.3 (breeding birds)	98%	0.6 (displacement effects)
2011	Viking addendum, central-north Mainland	1	2.7 (non-breeding birds)	98%	0
2017	Beaw Field, South Yell	1	0.031-0.104	99.50%	0
2018	Mossy Hill, Lerwick*	1	0.043-0.109	99.50%	0
2025	Mossy Hill, Lerwick resubmission	1	0.038-0.052	99.50%	0
2020	Energy Isles, North Yell SEI	1	0.18-0.22	99.80%	3 (construction & operational effects)

Summary best-case	Summary worse-case
1.3	1.3
2.7	2.7
0.031	0.104
0.038	0.052
0.18	0.22
Total	4.249

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2011	Viking addendum, central-north Mainland	1	2.1	98%	1.8 (operational disturbance effects)
2017	Beaw Field, South Yell	1	0		0
2018	Mossy Hill, Lerwick	1	0		0
2020	Energy Isles, North Yell SEI	1	0.02	99%	0
		Summary	2.12		