

The Statutory Biodiversity Metric

Start page

Project details

Planning authority:	Buckinghamshire Council		
Project name:	fW Battery Energy Storage System (BESS) with the associated infrastructure, access, drainage and landsc		
Applicant:	Staterra Energy		
Application type:			
Planning application reference:			
Completed by:	Marcus Mitiello		
Date of metric completion:	30 November 2023		
Reviewer:	Louisa Medland		
Calculation iteration:	V1		
Planning authority reviewer:			
Date of planning authority review:			
Target % net gain:	10%		
Irreplaceable habitat present at baseline:	No ✓		
Total site area - including irreplaceable habitat area (hectares):	26.28	Irreplaceable habitat site area (hectares):	0.00
Total off-site area - including irreplaceable habitat area (hectares):	N/A	Irreplaceable habitat area off-site (hectares):	N/A

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Cell style conventions

	Attention required
	Input error/rules and principles not met
	Use of this cell is not appropriate
	Enter data
	Automatic lookup
	Result

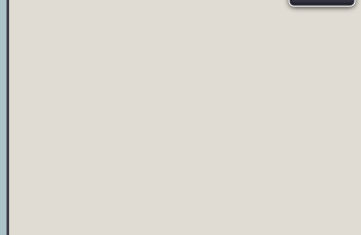
[View all](#)[Reset view](#)

On-site baseline map

[Insert](#)

On-site baseline map reference number

Off-site baseline map

[Insert](#)

Off-site baseline map reference number

On-site post intervention map

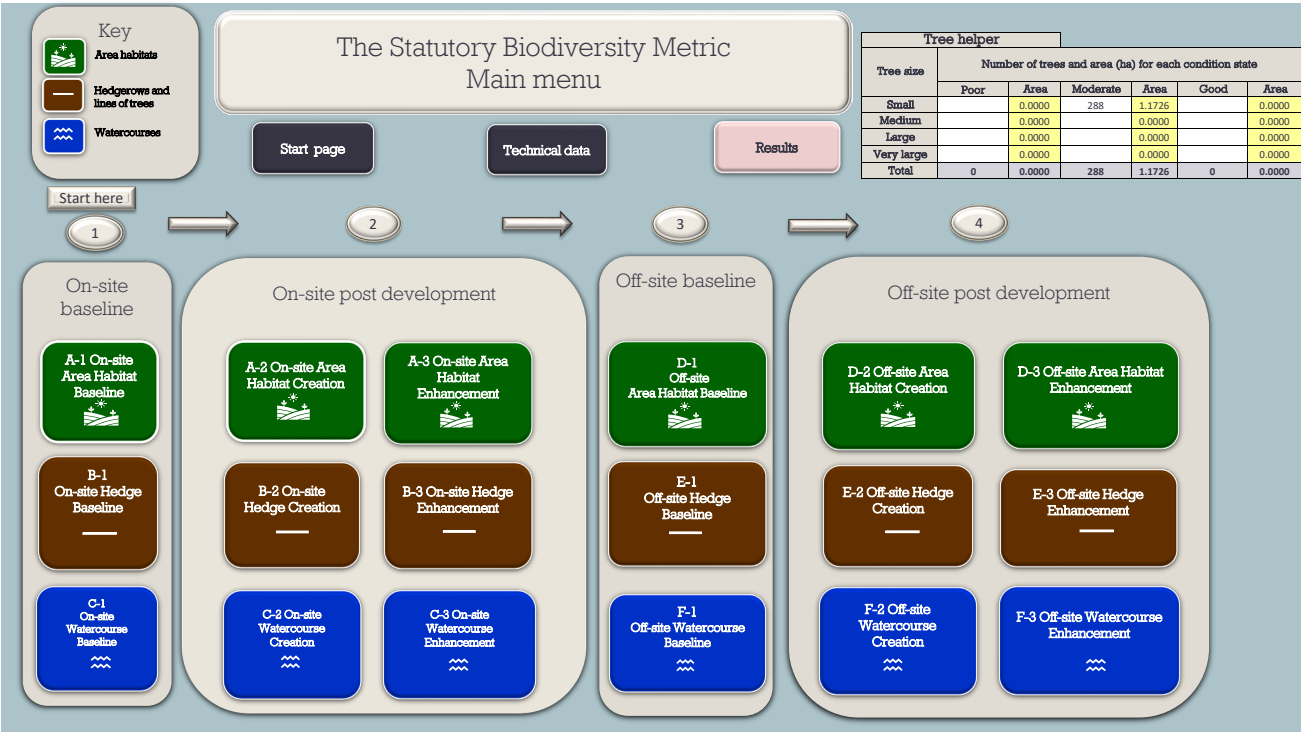
[Insert](#)

On-site post-intervention map reference number

Off-site post intervention map

[Insert](#)

Off-site post-intervention reference number



The Statutory Biodiversity Metric Results

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summaries](#)

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summary](#)

[Irreplaceable
habitats summary](#)

[Unit shortfall
summary](#)

500 MW Battery Energy Storage System (BESS) with

Headline Results

Scroll down for final results ▲

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results menu

On-site baseline

Habitat units	59.25
Hedgerow units	45.00
Watercourse units	17.54

On-site post-intervention

(Including habitat retention, creation & enhancement)

Habitat units	87.10
Hedgerow units	63.43
Watercourse units	18.31

On-site net change

(units & percentage)

Habitat units	27.85
Hedgerow units	18.43
Watercourse units	0.77

47.00%

40.95%

4.38%

On-site net gain is less than target set ▲

Off-site baseline

Habitat units	0.00
Hedgerow units	0.00
Watercourse units	0.00

Off-site post-intervention

(Including habitat retention, creation & enhancement)

Habitat units	0.00
Hedgerow units	0.00
Watercourse units	0.00

Off-site net change

(units & percentage)

Habitat units	0.00
Hedgerow units	0.00
Watercourse units	0.00

0.00%

0.00%

0.00%

Combined net unit change

(Including all on-site & off-site habitat retention, creation & enhancement)

Habitat units	27.85
Hedgerow units	18.43
Watercourse units	0.77

Spatial risk multiplier (SRM) deductions

Habitat units	0.00
Hedgerow units	0.00
Watercourse units	0.00

FINAL RESULTS

Total net unit change

(Including all on-site & off-site habitat retention, creation & enhancement)

Habitat units	27.85
Hedgerow units	18.43
Watercourse units	0.77

Total net % change

(Including all on-site & off-site habitat retention, creation & enhancement)

Habitat units	47.00%
Hedgerow units	40.95%
Watercourse units	4.38%

Total net gain achieved is less than target set ▲

Trading rules satisfied?

Yes ✓

Unit Type

Target

Baseline Units

Units Required

Unit Deficit

Habitat units

10.00%

59.25

66.18

0.00

Hedgerow units

10.00%

45.00

49.50

0.00

Watercourse units

10.00%

17.54

19.30

0.99

No additional area habitat units required to meet target ✓

No additional hedgerow units required to meet target ✓

Input errors/rule breaks present in metric ▲

Energy Storage System (ESS), with the associated infrastructure, access, drainage

Return to results menu

Detailed Results

Summary Figures

Net project biodiversity units (including all on-site & off-site habitat creation & retention)	Baseline	27.48
	Post-development	35.49
	Change	8.01
Total project biodiversity % change (including all on-site & off-site habitat creation & retention)	Baseline	27.48%
	Post-development	41.90%
	Change	14.42%

Combined habitat retention and enhancement	Baseline	Post-development	Change
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00
Total on-site and off-site baseline area (ha)	10.00	10.00	0.00

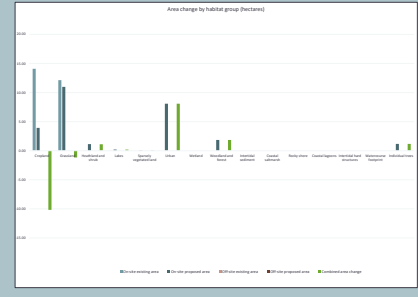
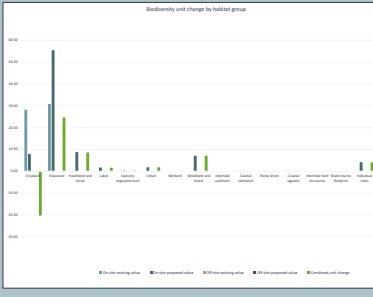
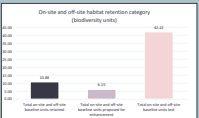
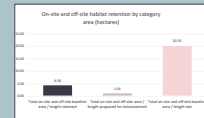
Area habitats

On-site change by broad habitat type	Baseline	Post-development on-site	On-site change
Habitat group	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

On-site change by broad habitat type	Baseline	Post-development on-site	On-site change
Habitat group	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined on-site and off-site change by broad habitat type	Baseline	Post-development on-site	On-site change
Habitat group	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined area lost from baseline(s) by disturbance level	Category	Area lost (hectares)	Area lost (%)
High	0	0	0
Medium	0.002	0	0
Low	0.000	0	0
Total	0.002	0	0



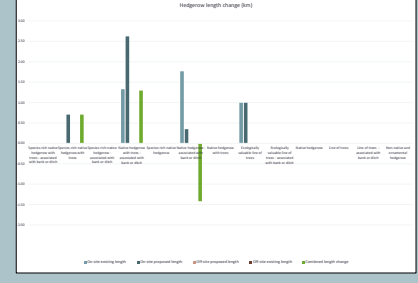
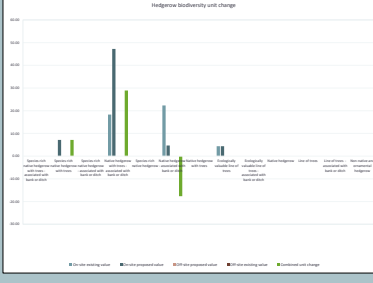
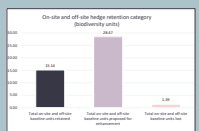
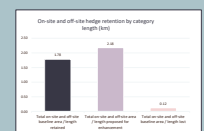
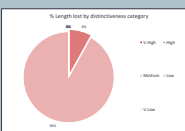
Hedges and lines of trees

On-site change by hedgerow type	Baseline	Post-development on-site	On-site change
Hedgerow type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

On-site change by hedgerow type	Baseline	Post-development on-site	On-site change
Hedgerow type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined on-site and off-site change by hedgerow type	Baseline	Post-development on-site	On-site change
Hedgerow type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined length lost from baseline(s) by disturbance level	Category	Length lost (km)	Length lost (%)
High	0.00	0	0
Medium	0.000	0	0
Low	0.000	0	0
Total	0.000	0	0



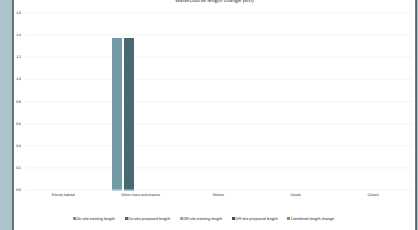
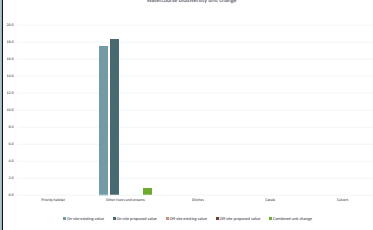
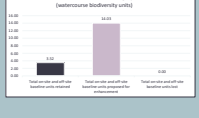
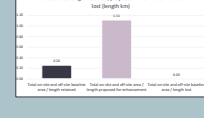
Watercourse

On-site change by watercourse type	Baseline	Post-development on-site	On-site change
Watercourse type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

On-site change by watercourse type	Baseline	Post-development on-site	On-site change
Watercourse type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined on-site and off-site change by watercourse type	Baseline	Post-development on-site	On-site change
Watercourse type	On-site existing area (ha)	On-site proposed area (ha)	On-site change (ha)
Grassland	0.00	0.00	0.00
Woodland	0.00	0.00	0.00
Watercourse	0.00	0.00	0.00
Other	0.00	0.00	0.00

Combined length lost from baseline(s) by disturbance level	Category	Length lost (km)	Length lost (%)
High	0	0	0
Medium	0	0	0
Low	0	0	0
Total	0	0	0



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	2.00	1.50	1.00	0.50	0.00
Total area lost (including area of individual trees, grass quills and individual hard structures)					20.10

IP to business comparison tool	Select a unit	Features	IP

Source Storage System (SSSD) with the associated infrastructure, access, drainage and A-3 On-Site Habitat Creation

Coordinates / Show Columns

Coordinates / Show Rows

Main Menu

Area habitat summary

Total Net Wet Change

87.68

Total Net % Change

67.50%

Travelling Value Estimated

Yes /

Area Check

Area Acceptable /

Ref	Broad Habitat	Proposed habitat	Area (Centares)	Distinctiveness		Condition	Strategic significance	Temporal multiplicity		Difficulty	Habitat value delivered	Comments		
				Distinctiveness	Condition			Standard or adjusted time to target condition	Final time to target condition (years)			User comments	Planning authority comments	Habitat reference number
1	Urban	Developed hard sealed surface	7.032	Very Low	High - Critical	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		0	Low	0.00			
2	Woodland and forest	Other woodland / tree/deciduous	1.854	Medium	High	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		5	Low	1.14			
3	Urban	Grass / low priority habitat	0.180	Medium	Moderate	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		2	Low	0.00			
4	Grassland	Woodland grassland	0.000	Low	Good	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		7	Low	0.00			
5	Urban	Domestic drainage system	0.000	Low	Good	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		5	Medium	1.00			
6	Urban	Hard of tree	1.173	Medium	Moderate	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		17	Low	0.00			
7	Woodland and forest	Woodland	1.145	Medium	Moderate	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		5	Low	0.00			
8	Woodland and forest	Woodland	0.000	Low	Moderate	Reinstatement/creation not in broad strategic or local strategies	Standard or adjusted time to target condition applied		3	Low	0.00	Reinstatement		
9														
10														
11														
12														
13														
14														
Total habitat area			87.68								88.78			

Site Area (including area of individual trees, grass, yellow, intertidal hard structures)

88.78

MP to landscape conservation tool:

Reinstatement

Reinstatement

MP

Hedge summary

Total for the Design Year for the Design Year 2

Total for the Design Year 2

Existing bridge details										Comments										
Ref	Bridge number	Bridge type	Length (m)	Deflection		Condition		Strategic alignment		Required Action to meet Trading Rate	Strategic location	Length (m)	Length (m)	Value (m)	Value (m)	Length (m)	Value (m)	User comments	Planning authority comments	Related reference number
				Deflection	Score	Condition	Score	Strategic alignment	Strategic alignment											
1		Station bridge - associated with track or deck	1.20	High	5	Structure	5	Primarily identified in local strategy	High strategic significance	1.10	Station bridge - associated with track or deck	1.20	1.20	1.20	1.20	1.20	1.20			
2		Station bridge - associated with track or deck	1.35	Medium	4	Good	5	Primarily identified in local strategy	High strategic significance	1.10	Station bridge - associated with track or deck	1.35	1.35	1.35	1.35	1.35	1.35			
3		Station bridge - associated with track or deck	0.40	Medium	4	Structure	5	Primarily identified in local strategy	High strategic significance	1.10	Station bridge - associated with track or deck	0.40	0.40	0.40	0.40	0.40	0.40			
4		Ecologically valuable line of track	0.00	Medium	4	Good	5	Location strategically identified but not in local strategy	Medium strategic significance	1.1	Station bridge - associated with track or deck	0.00	0.00	0.00	0.00	0.00	0.00			
5																				
6																				
7																				
8																				
			4.00									4.00	1.20	0.40	1.20	0.40	1.20			

Storage System 0380 with the associated infrastructure, screen, drive	
B-3 On-Site Hedge Creation	
Clientwork / Asset Creation	Clientwork / Asset Build

Budgetary summary	
Year 00 YTD Budget	25.00
Year 00 YTD Actual	0.00
Year 00 YTD Budget	25.00

		Project initiation		Endorsement		Status		Strategic alignment				Temporal multiplier				Biodiversity risk multiplier				Budget with allowance		Outcome	
Ref	Step number	Initiative type	Length (km)	Endorsement	Score	Condition	Score	Strategic alignment	Strategic alignment multiplier	Strategic alignment multiplier	Standard time to target condition (years)	Actual time to achieve (years)	Ratio to starting initiative condition (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target condition multiplier	Standard diversity of results	Adjusted diversity multiplier	Final diversity of results	Final diversity multiplier applied	Year estimate	Planning reliability estimate	Relative reference number
		Operational action with endogenous risk under	0.00	None	0	Good	0	Partially identified in local strategy	1.00	1.00				Adjusted time to target condition	0.00	1.00	Low	1.00	Low	1	2024	1.00	
	A				0																		
	B				0																		
	C				0																		
	D				0																		
	E				0																		
	F				0																		
	G				0																		
	H				0																		
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	DK				0									</									

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Table 1	
Year	Value
2010	100
2011	105
2012	110
2013	115
2014	120
2015	125
2016	130
2017	135
2018	140
2019	145
2020	150