

The Biodiversity Metric 2.0 - Calculation Tool

Start page

Project details

Planning authority:	Carmarthenshire
Project name:	Hopkins Solar
Applicant:	Spring Che
Application type:	Solar Farm
Planning application reference:	
Assessor:	Colin Hicks
Reviewer:	
Revision:	
Assessment date:	08/01/2020
Planning authority reviewer:	

Cell style conventions

	Enter data
	Automatic lookup
	Result

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Hopkins Solar

Headline Results

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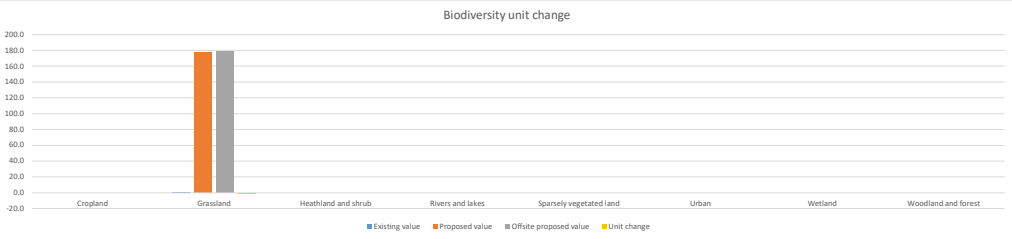
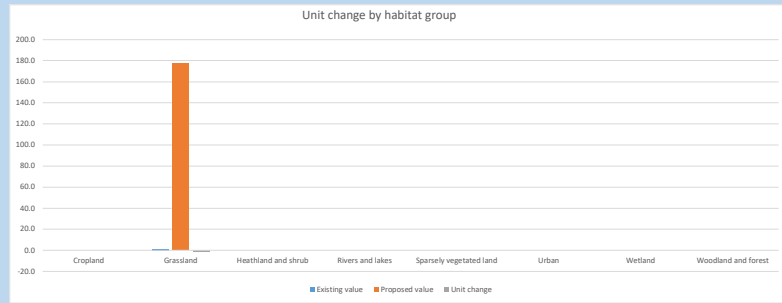
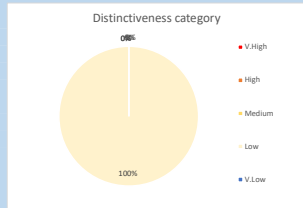
On-site baseline	<i>Habitat units</i>	132.97
	<i>Hedgerow units</i>	65.30
	<i>River units</i>	0.00
On-site post-intervention (Including habitat retention, creation, enhancement & succession)	<i>Habitat units</i>	178.31
	<i>Hedgerow units</i>	80.29
	<i>River units</i>	0.00
Off-site baseline	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Off-site post-intervention (Including habitat retention, creation, enhancement & succession)	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Total net unit change (including all on-site & off-site habitat retention/creation)	<i>Habitat units</i>	45.34
	<i>Hedgerow units</i>	14.99
	<i>River units</i>	0.00
Total net % change (including all on-site & off-site habitat creation + retained habitats)	<i>Habitat units</i>	34.10%
	<i>Hedgerow units</i>	22.95%
	<i>River units</i>	0.00%

Summary Figures

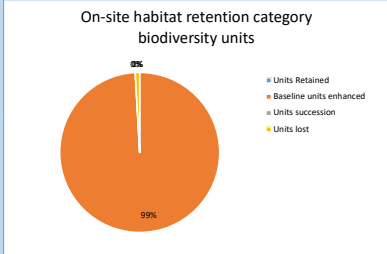
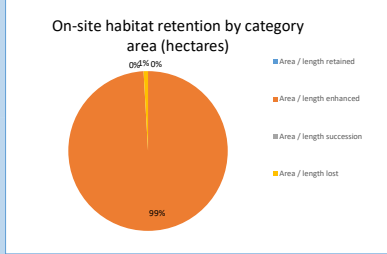
Net project biodiversity units (including all on-site & off-site habitat retention/creation)	Habitat units	45.34
	Hedgerow units	14.99
	River units	0.00
Total project biodiversity % change (including all On-site & Off-site Habitat Creation + Retained Habitats)	Habitat units	34.10%
	Hedgerow units	22.95%
	River units	0.00%

On-site habitat retention and enhancement			
	Habitats	Hedgerows	Rivers
Total site area / length	45.91	6.93	0.00
Total site units	132.97	65.30	0.00
Area / length retained	0.00	0.00	0.00
Units Retained	0.00	0.00	0.00
Area / length enhanced	45.51	6.93	0.00
Baseline units enhanced	131.80	65.30	0.00
Area / length succession	0.00		
Units succession	0.00		
Area / length lost	0.40	0.00	0.00
Units lost	1.17	0.00	0.00

Area lost by distinctiveness band		
Category	Area lost (hectares)	Area lost (%)
V.High	0	
High	0	
Medium	0	
Low	0.4	100
V.Low	0	



Habitat group	Pre-development		Post development on site		Post Development off site		Total post development		Change	
	Existing area	Existing value	Proposed area	Proposed value	Proposed area	Offsite proposed value	Proposed area	Proposed value	Area change	Unit change
Cropland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Grassland	45.9	1.2	-0.4	177.1	45.5	178.3	0.0	0.0	-45.9	-1.2
Heathland and shrub	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rivers and lakes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sparsely vegetated land	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Urban	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wetland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Woodland and forest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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Very high		
Habitat group	Group	Existing area lost
Grassland - Lowland dry acid grassland	Grassland	0.00
Heathland and shrub - Mountain heaths and willow scrub	Heathland and shrub	0.00
Sparsely vegetated land - Limestone pavement	Sparsely vegetated land	0.00
Wetland - Blanket bog	Wetland	0.00
Wetland - Depressions on Peat Substrates (H7150)	Wetland	0.00
Wetland - Fens (upland and lowland)	Wetland	0.00
Wetland - Lowland raised bog	Wetland	0.00
Wetland - Oceanic Valley Mire[1] (D2.1)	Wetland	0.00
Wetland - Purple moor grass and rush pastures	Wetland	0.00
Wetland - Transition mires and quaking bogs (H7140)	Wetland	0.00
Grassland - Lowland meadows	Grassland	0.00
Grassland - Upland hay meadows	Grassland	0.00
lakes - Aquifer fed naturally fluctuating water bodies	Lakes	0.00
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00
Total impact to be addressed through separate mechanism		0.00

High								
Habitat group	Group	On-Site units lost	Units delivered on-site	On Site Unit Change	Units delivered off-site	Project wide Unit Change	Percentage change above loss	losses not yet accounted for
Cropland - Traditional orchards	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Floodplain Wetland Mosaic (CFGM)	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Lowland calcareous grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Tall herb communities	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Upland calcareous grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Lowland Heathland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Sea buckthorn scrub (Annex 1)	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Upland Heathland	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Lakes - High alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Low alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Marl Lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Moderate alkalinity lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Peat Lakes	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Ponds (Priority Habitat)	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Temporary lakes, ponds and pools	Lakes	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Coastal sand dunes	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Coastal vegetated shingle	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Inland rock outcrop and scree habitats	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Maritime cliff and slopes	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Open Mosaic Habitats on Previously Developed Land	Urban	0.00	0.00	0.00	0.00	0.00		
Wetland - Reedbeds	Wetland	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Lowland beech and yew woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Lowland mixed deciduous woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Native pine woodlands	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland birchwoods	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland mixed ashwoods	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Upland oakwood	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Wet woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Wood-pasture and parkland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
				0.00	0.00		0.00	

Any rows highlighted in red within this table highlight habitat types that require further compensation in order to deliver the required number of units to reach no net loss

cumulative positive - this sums only the positive values in order for them to be utilised to offset any deficit in lower distinctiveness bands

0.00

Trading Acceptable

Trading Down Liability High Distinctiveness/Units 0
Not Like For Like/Units 0

Medium								
Habitat Group	Group	On-Site units lost	Units delivered on-site	On site unit change	Units delivered off-site	Project wide unit change	Percentage change above loss	losses not yet accounted for
Cropland - Arable field margins cultivated annually	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins game bird mix	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins pollen & nectar	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Arable field margins tussocky	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Cereal crops winter stubble	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Bracken	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Other lowland acid grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Other neutral grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Grassland - Upland acid grassland	Grassland	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Blackthorn scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Bramble scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Gorse scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Hawthorn scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Hazel scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Mixed scrub	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Heathland and shrub - Sea buckthorn scrub (other)	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Lakes - Ditches	Lakes	0.00	0.00	0.00	0.00	0.00		
Lakes - Reservoirs	Lakes	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Calaminarian grasslands	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Other inland rock and scree	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Allotments	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Artificial lake or pond	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Brown roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Cemeteries and churchyards	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Extensive green roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Orchard	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Woodland	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Felled	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other Scot's Pine woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other woodland; broadleaved	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other woodland; mixed	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other woodland; Young Trees planted	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
				0.00		0.00		0.00

medium cumulative ofset plus high surplus, this number must be a positive when offsite compensation is factored in **0.00**

Trading Acceptable	
Trading Down Liability High Distinctiveness/Units	0
Not Like For Like or Better/Units	0
Cumulative Trading Error	0

Low								
Habitat group	Group	On-site units lost	Units delivered on-site	On site unit change	Units delivered off-site	Project wide unit change	Percentage change above loss	losses not yet accounted for
Cropland - Cereal crops	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Cereal crops other	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Horticulture	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Intensive orchards	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Non-cereal crops	Cropland	0.00	0.00	0.00	0.00	0.00		
Cropland - Temporary grass and clover leys	Cropland	0.00	0.00	0.00	0.00	0.00		
Grassland - Modified grassland	Grassland	1.17	178.31	177.14	0.00	177.14		
Heathland and shrub - Rhododendron scrub	Grassland	0.00	0.00	0.00	0.00	0.00		
Sparsely vegetated land - Ruderal/Ephemeral	Heathland and shrub	0.00	0.00	0.00	0.00	0.00		
Urban - Bioswale	Sparsely vegetated land	0.00	0.00	0.00	0.00	0.00		
Urban - Façade-bound green wall	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Ground based green wall	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Ground level planters	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Intensive green roof	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Introduced shrub	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Amenity grassland	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Rain garden	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Sand pit quarry or open cast mine	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Street Tree	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Suburban/ mosaic of developed/ natural surface	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Sustainable urban drainage feature	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Vacant/derelict land/ bareground	Urban	0.00	0.00	0.00	0.00	0.00		
Urban - Vegetated garden	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other coniferous woodland	Urban	0.00	0.00	0.00	0.00	0.00		
Woodland and forest - Other coniferous woodland	Woodland and forest	0.00	0.00	0.00	0.00	0.00		
				177.14		177.14		0.00

medium cumulative offset plus high surplus, this number must be a positive when offsite compensation is factored in	177.14
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Trading Acceptable

Trading Down Liability High Distinctiveness/Units	0
Not Like For Like or Better	0

Hopkins Solar
B-1 Site Hedge Baseline

Condense / Show Columns

Condense / Show Rows

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Instructions

Baseline ref	UK Habitats - existing habitats			Habitat distinctiveness		Habitat condition		Ecological connectivity			Strategic significance			Ecological baseline Total hedgerow units	
	Hedge number	Hedgerow type	length KM	Distinctiveness	Score	Condition	Score	Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic significance	Strategic position multiplier		Suggested action to address habitat losses
1		Native Species Rich Hedgerow	2.966	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	Like for like or better	30.01592
2		Native Species Rich Hedgerow	3.475	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	30.58
3		Native Hedgerow with trees - Associated with bank or ditch	0.31	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Within area formally identified in local strategy	High strategic significance	1.15	Like for like or better	3.1372
4		Native Hedgerow with trees - Associated with bank or ditch	0.178	Medium	4	Moderate	2	Medium	Moderately connected habitat	1.1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Like for like or better	1.5664
5															
		Total Site length/KM	6.93												Total Site baseline 65.30

Retention category biodiversity value						Comments	
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments	Reviewer comments
0	2.966	0	30.01592	0	0	Species rich hedgerows in Site A and B	
	3.475	0	30.58	0	0	Species rich hedgerows in Site C	
	0.31	0	3.1372	0	0	Species rich hedgerow with ditch in Site A	
	0.178	0	1.5664	0	0	Species rich hedgerow with ditch in Site C	
0.00	6.93	0.00	65.30	0.00	0.00		

Post development/ post intervention habitats										
Proposed	Change in distinctiveness and condition		Length KM	Distinctiveness	Score	Condition	Score	Ecological connectivity		
	Distinctiveness movement	Condition movement						Medium	Moderately connected habitat	1.1
Native Species Rich Hedgerow	Medium - Medium	Moderate - Good	2.966	Medium	4	Good	3	Medium	Moderately connected habitat	1.1
Native Species Rich Hedgerow	Medium - Medium	Moderate - Good	3.475	Medium	4	Good	3	Medium	Moderately connected habitat	1.1
Native Hedgerow with trees - Associated with bank or ditch	Medium - Medium	Moderate - Good	0.31	Medium	4	Good	3	Medium	Moderately connected habitat	1.1
Native Hedgerow with trees - Associated with bank or ditch	Medium - Medium	Moderate - Good	0.178	Medium	4	Good	3	Medium	Moderately connected habitat	1.1
Total site length			6.93							

Strategic significance			Temporal multiplier		Difficulty Multipliers		Hedge units delivered	Comments	
Strategic significance	Strategic significance	Strategic position multiplier	Time to target condition/years	Time to target multiplier	Difficulty of enhancement Category	Difficulty of Enhancement Multiplier		Assessor comments	Reviewer comments
Within area formally identified in local strategy	High strategic significance	1.15	10	0.700	Medium	0.67	37.06		
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	10	0.700	Medium	0.67	37.75		
Within area formally identified in local strategy	High strategic significance	1.15	20	0.490	Medium	0.67	3.65		
Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	20	0.490	Medium	0.67	1.82		
							80.29		