

Plas Power Solar and Energy Storage Project

3.0.10 Biodiversity Net Gain Report

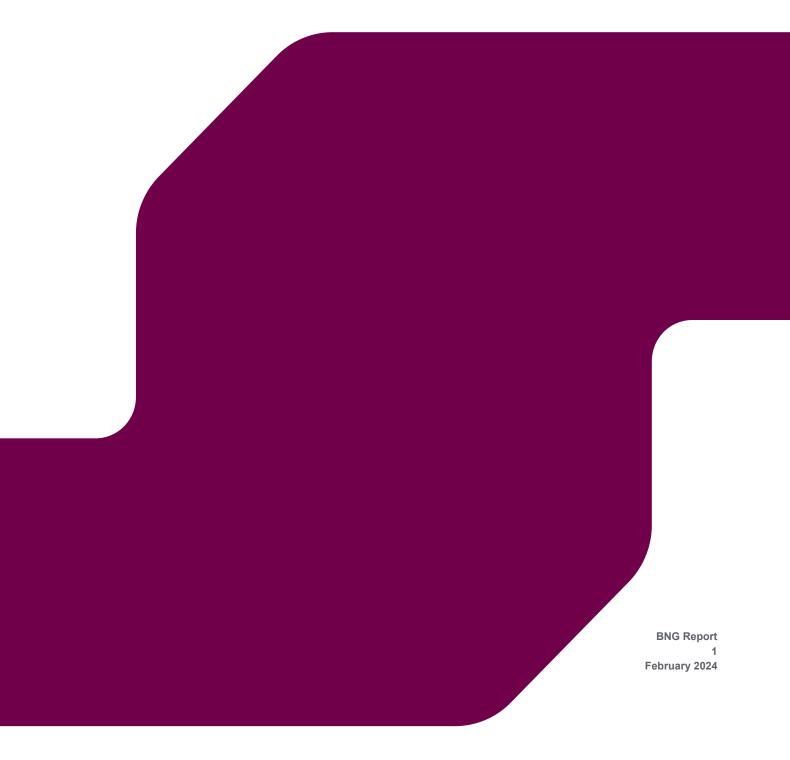
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PLAS POWER SOLAR AND ENERGY STORAGE PROJECT

Biodiversity Net Gain Report



Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
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9 February 2024

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1 INTRODUCTION

1.1 Purpose and Scope of This Report

- 1.1.1 RPS Planning and Development were commissioned by Lightsource bp to undertake a Biodiversity Net Gain (BNG) Assessment of the Proposed Development at the Plas Power Estate at Wrexham, North Wales. Lightsource bp proposes the installation of a Solar and Energy Storage Project at the site. The site is located to the West of Wrexham, centred at grid reference SJ 301 501.
- 1.1.2 While a Biodiversity Net Gain Assessment is not required for developments in Wales, the assessment has been undertaken on behalf of Lightsource bp to provide additional information on the biodiversity status of the baseline site and the Proposed Development.
- 1.1.3 The Biodiversity Net Gain Assessment provides a comparison of the values (as defined by the BNG habitat scores) of the site prior to development and following development, habitat creation and enhancement. The assessment was carried out using the Biodiversity Metric V4.0 published on the Natural England website which takes into consideration where habitat will be gained, lost or enhanced as a result of the Proposed Development. The BNG baseline assessment was completed in 2023 prior to the publishment of the Statutory Metric to provide information on the baseline habitat value and inform the design and Illustrative Landscape and Ecology Management Plan of the site.
- 1.1.4 The Biodiversity Metric provides Biodiversity Units calculated based on the habitat type, area or length, distinctiveness, condition, ecological connectivity and strategic significance. For enhanced or created habitats the time required and difficulty of establishing the habitat are also taken into consideration.
- 1.1.5 Each of the existing habitat areas and their condition are defined in the BNG metric with reference to the rationale for the selected condition in the assessor notes. The BNG metric should be viewed with reference to the Habitat Plan (Figure 1) which shows the baseline habitats, the Landscape Strategy (Figure 2) and the BNG Metric calculations (RPS, 2024).

2 BASELINE HABITATS

2.1.1 The baseline site comprises sheep grazed improved grassland and arable fields bounded by hedgerows. A field drain adjoins part of the site boundary and field ditches are present within a few fields. The extent of the habitats are shown on the Habitat Plan (Figure 1) and further information on habitats is provided in the Preliminary Ecological Appraisal (RPS, 2023).

2.2 Habitat Descriptions

Modified Grassland

- 2.2.1 The eastern and southern areas of the site comprise 11 improved grassland pasture fields. The fields are dominated by perennial rye-grass *Lolium perenne*. Rarely present within the grassland were other grass species such as creeping bent *Agrostis stolonifera*, annual meadow-grass *Poa annua*, and Yorkshire fog *Holcus lanatus* and forbs such as spear thistle *Cirsium vulgare*, white clover *Trifolium repens* and creeping buttercup *Ranunculus repens*.
- 2.2.2 The grassland is grazed by sheep. It lacks tussocks or variation in the sward height. The majority under 10 cm in height. The grassland is free of scrub, invasive species and extensive areas of damage or bare ground.
- 2.2.3 The pasture fields classify as in Moderate condition under the BNG condition criteria.
- 2.2.4 Two small areas of semi-improved grassland are present at the north of the site. Both fields have a low species diversity, characterised by Yorkshire fog, creeping bent, cock's-foot *Dactylis glomerata* and hogweed *Heracleum sphondylium*. Species present which are indicative of sub-optimal condition include nettle *Urtica dioica*, spear thistle and creeping buttercup.
- 2.2.5 The grassland has a tussocky structure and scrub, bracken and invasive species are absent, but there are some areas of bare ground and damage from vehicle movements.
- 2.2.6 The semi-improved grassland classifies as in Poor condition under the BNG condition criteria.

Arable

- 2.2.7 The northern and western areas of the site consist of nine arable fields used as grass ley and crop production. The field margins are less than 1m in width on average.
- 2.2.8 The habitat is classified as 'Non cereal crops' and 'Temporary grass and clover ley'. Habitat conditions are not applied to arable habitats under the BNG condition criteria.

Unsealed Tracks

2.2.9 Bare ground farm tracks are present throughout the site. The tracks are categorised as 'Artificial unvegetated, unsealed surface'. Habitat conditions are not applied to this habitat under the BNG condition criteria.

Hedgerows

Native Hedgerows

- 2.2.10 There are 27 hedgerows within the site which fall into the following categories in the BNG Assessment according to the level of species richness, association with ditches and the presence and density of larger trees:
 - species-rich native hedgerow;

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- species-rich native hedgerow with trees;
- species-rich native hedgerow with trees associated with bank or ditch;
- native hedgerow;
- native hedgerow associated with bank or ditch;
- native hedgerow with trees associated with bank or ditch;
- native hedgerow with trees.
- 2.2.11 The majority hedgerows classify as one of the categories of native hedgerows with less than 5 woody species, 22 hedgerows in total.
- 2.2.12 Most are classified as Moderate condition under the BNG condition criteria but the five hedgerows with wider field margins classify as Good condition.
- 2.2.13 The majority of the native hedgerows adjoining the section of the site south of the A525 are typically dominated by hawthorn *Crateagus monogyna*. Other hedgerow species include holly *Ilex aquifolium*, hazel *Corylus avellana*, damson *Prunus domestica*, bramble *Rubus fruticosus* and gorse *Ulex* sp. Several of the hedgerows have gaps along their length.
- 2.2.14 Seven hedgerows within the survey area are species-rich with 5 or more woody plant species represented in the hedgerow. The majority of these are located within the northern section.
- 2.2.15 Species frequently present within the species-rich hedgerows include: hazel, sycamore *Acer pseudoplatanus*, ash *Fraxinus excelsior*, holly, English oak *Quercus robur*, blackthorn *Prunus spinosa*, field rose *Rosa campestre* and elder *Sambucus nigra*. Less frequent species include: willow *Salix* species., bramble, cherry *Prunus* sp., alder *Alnus glutinosa*, plum *Prunus* sp., field maple *Acer campestre*, apple, beech *Fagus sylvatica* and elm *Ulmus* sp.
- 2.2.16 The majority of hedgerows within the northern section include mature and semi-mature trees, typically sycamore, oak and ash. Fewer large trees were present in the central area.
- 2.2.17 The majority of the hedgerows adjoin short-grazed pasture or arable and the hedge-base flora is typically species-poor characterised by common nettle, broadleaved dock and cleavers *Galium aparine*.
- 2.2.18 Two hedgerows adjoin a small stream and several adjoin field ditches.

Mixed Scrub

- 2.2.19 A small linear section of dense scrub is present between two arable fields within the site. The scrub is up to 15m in width and comprises hawthorn, blackthorn and bramble. The areas of scrub have a dense structure, but lack structural diversity and have a limited ground flora.
- 2.2.20 The mixed scrub habitat classifies as being in Poor condition.

Individual Trees

- 2.2.21 Several scattered broadleaved trees are present within the site. This includes five oak and willow classified as being Medium sized and Good condition.
- 2.2.22 Six young silver birch *Betula pendula*, alder and fruit trees are also present at the south of the site and are classified as being Small sized and Moderate condition.
- 2.2.23 The trees are all in good health and the medium sized trees have features such as deadwood, loose bark and ivy with value for invertebrates.

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Field Drain

- 2.2.24 A field drain runs between the southern boundary of an arable field within the site and the A525. To the west the drain is unshaded with shallow banks supporting tall ruderal vegetation. The eastern section is shaded by an overhanging hedgerow and has steep grassy banks. The drain had a water depth of 5cm during the survey walkover and the water quality appeared good.
- 2.2.25 The drain lacks signs of physical damage. Algae is absent though the emergent and marginal plants are limited. A stand of Japanese knotweed *Reynoutria japonica* is present on the bankside.
- 2.2.26 The drain is classified as Poor condition under the BNG condition criteria.

2.3 Baseline Biodiversity Unit Scores

- 2.3.1 The baseline site achieves the following scores:
 - Score of 273.59 Habitat Units.
 - Score of 49.02 Hedgerow Units.
 - Score of 2.25 River Units.

3 HABITATS WITHIN THE PROPOSED DEVELOPMENT

- 3.1.1 The Proposed Development will largely comprise grazed improved grassland bounded by perimeter fencing. There will be a mown grassland buffer between the perimeter fencing and field boundaries.
- 3.1.2 Biodiversity Areas will also be created where a range of habitats will be created with the aim of providing resources with value for wildlife. The extent of the habitats are shown on the Illustrative Landscape and Ecology Masterplan (Figure 2).

3.2 Habitat Descriptions

Modified Grassland

- 3.2.1 The Proposed Development will largely comprise grazed grassland.
- 3.2.2 The retained grassland should at least maintain its Poor condition.
- 3.2.3 Where solar panels are installed in existing arable fields, these will be sown with a grazing mixture which will include a range of grasses and forbs. The grassland will be sheep grazed or mown and is expected to achieve at least Moderate condition.
- 3.2.4 The two small areas of semi-improved grassland at the north of the site will be retained. Both areas will be subject to sheep grazing, with several solar panel arrays installed in the smaller of the two areas. Areas of bare ground would be left to be naturally recolonised by grasses and herbs. The condition of the areas is expected to increase to Moderate.
- 3.2.5 The above conditions have been assessed based on a precautionary approach and it is possible that the grasslands will achieve a higher condition. For example where there is low intensity grazing there may be an increase in the species diversity or structural variation which could result in Moderate or higher condition being achieved. Given the large extent of the grassland, there would be potential for a significant increase in Habitat Units across the site where a higher condition is achieved.

Other Neutral Grassland

- 3.2.6 Two fields within the Proposed Development will be subject to enhancement to achieve Fairly Good condition Other Neutral Grassland classification. Measures will be undertaken to reduce the nutrient status of the soil and it will be harrowed and reseeded with a suitable grassland mixture containing a range of grasses and forbs. The fields will be sensitively managed through low intensity sheep grazing or a sensitive cutting regime (such as an early spring and late summer / early autumn cut). The management will aim to create a tussocky structure with greater species diversity compared to the existing short, grazed pasture.
- 3.2.7 Grassland between the perimeter fence of the Proposed Development and site boundary will be cut on an infrequent basis to encourage a tussocky structure and greater species diversity to develop. The condition of the grassland is anticipated to increase to achieve at least Fairly Good condition.
- 3.2.8 The margins of the arable fields and several larger sections within the existing grazed fields will be sown with a meadow mixture. These will be subject to low intensity management to encourage the development of a taller and more varied sward with greater species diversity and are expected to achieve Fairly Good condition.
- 3.2.9 Sections of woodland wildflower mixture will be sown between the perimeter fencing and woodland edges to increase the species diversity of the grassland within the site. The grassland will be sensitively managed and is expected to achieve Fairly Good condition.
- 3.2.10 Areas of wildflower rich grassland and tussocky grassland will be sown in the Biodiversity Areas. These will be subject to low intensity grazing or a sensitive cutting regime with the aim of creating

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higher value grassland with a good species diversity and varied structure. These areas are expected to achieve at least Fairly Good condition.

Winter Cover Crop

3.2.11 Several areas of former grassland and arable will be sown with a winter cover crop to provide foraging resources for birds over winter. Habitat conditions are not applied to this habitat.

Hedgerows

- 3.2.12 Hedgerows will be retained and protected within the Proposed Development.
- 3.2.13 New native species hedgerows will be planted within the operational site including in the Biodiversity Areas. A mixture of native woody species will be planted.
- 3.2.14 Retained hedgerows at the north of the site include mature and semi-mature trees which will be retained. The sensitive management of mature trees will minimise tree surgery operations.
- 3.2.15 All hedgerows will be sensitively managed to promote the development of dense structure with fruiting and flowering shrubs which would achieve at least Moderate condition.
- 3.2.16 Hedgerows which currently achieve Good condition will be maintained at this condition.
- 3.2.17 The management of grassland adjoining many of the hedgerows to create a tussocky structure is expected to result in an increase in their condition to at least Fairly Good.

Individual Trees

- 3.2.18 Existing scattered broadleaved trees will be retained and sensitively managed to maintain their existing condition.
- 3.2.19 Approximately 50 new native trees will be planted throughout the site. These will be maintained at Moderate condition.

Mixed Scrub

3.2.20 Native shrubs will be planted within the Biodiversity Areas and at the edges of fields with solar arrays. These will be managed to promote the development of sections of dense scrub. The scrub is expected to achieve Moderate condition.

Ponds

3.2.21 Three new ponds will be created with Biodiversity Area 1, creating a new habitat type within the site. The pond margins will be planted with a range of marginal native species. The ponds will be managed to achieve at least Moderate condition.

Field Drain

3.2.22 The field drain will be retained and unaffected by the development, with its existing condition retained.

Unsealed tracks

3.2.23 There will be a small increase in the extent of unsealed tracks within the Proposed Development. Tracks will be created through the fields to provide vehicle access to the solar arrays and infrastructure during the operational phase. Habitat conditions are not applied to this habitat.

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Hardstanding and Buildings

3.2.24 Areas of hardstanding and buildings will be created to facilitate the Proposed Development. Habitat conditions are not applied to this habitat.

3.3 Post-development Biodiversity Unit Scores

- 3.3.1 The Proposed Development will achieve the following scores:
 - Score of 449.62 Habitat Units.
 - Score of 84.20 Hedgerow Units.
 - Score of 2.25 River Units.

3.4 Potential for Further Biodiversity Net Gain

- 3.4.1 The retention and creation of grassland across the site provides opportunity for a significant further increase in biodiversity value.
- 3.4.2 There is potential for areas of grassland beneath solar panels to achieve a greater condition than has been predicted under a precautionary basis in this assessment.
- 3.4.3 Should all areas of grassland across the site achieve Moderate condition or higher, there would be potential for a total of up to **827.33** Habitat Units to be achieved.

3.5 Management and Monitoring Plan

- 3.5.1 The biodiversity objectives and management prescriptions for habitats within the Proposed Development are detailed within the Landscape and Ecology Management Plan along with a programme of monitoring.
- 3.5.2 Monitoring targets will be aligned to BNG target condition and will relate to measurable attributes which will be reported to the LPA.
- 3.5.3 The biodiversity monitoring and reviews of management outcomes will document the status of the habitats, inform modifications to specific management plan actions, where appropriate, and identify the need for remedial measures. This objective and target led approach with periodic checks on the management approaches will be integral to initially achieving and then maintaining the target conditions over the long term.

4 CONCLUSIONS

- 4.1.1 The baseline site largely comprises sheep grazed improved grassland, categorised as Modified Grassland in Poor condition along with arable (grass leys and crop fields). Small sections of semi-improved grassland in Poor condition are also present.
- 4.1.2 The fields are bounded by hedgerows, most of which are in Moderate condition with some classified as Good condition.
- 4.1.3 Solar arrays and associated infrastructure will be installed within the fields. The grass leys and crop fields will be sown with a grazing mixture. Grassland beneath the solar panels will be sheep grazed or mown and is expected to achieve Moderate condition.
- 4.1.4 Two of the existing improved fields will be enhanced through reseeding and sensitive management to increase their biodiversity value. The fields will be enhanced to Moderate condition Other Neutral Grassland.
- 4.1.5 The semi-improved grassland will be sensitively managed and its condition is expected to increase to Moderate.
- 4.1.6 A small amount of arable and improved grassland will be converted to tracks and built infrastructure.
- 4.1.7 Biodiversity Areas will be created, which will include sections sown with a mixture of wildflower grassland and a tussocky grassland mixture. These will be managed to achieve Fairly Good condition.
- 4.1.8 Additional areas of higher value grassland will be created throughout the wider site, including areas sown with tussocky grassland, woodland edge grassland and meadow grassland seed mixtures. These will be managed to achieve Fairly Good condition.
- 4.1.9 Three new ponds will be created within Biodiversity Area 1 and managed to achieve Moderate condition.
- 4.1.10 The field ditches and drain will be retained and protected.
- 4.1.11 Existing hedgerows will be retained and protected. Where the adjoining grassland will be managed to develop a higher species diversity the hedgerow condition is expected to increase to Good.
- 4.1.12 New native species hedgerows will be created throughout the site and managed to achieve Moderate condition. New tree and shrub planting will be undertaken throughout the site.
- 4.1.13 The Proposed Development will result in the following Biodiversity Net Gain:
 - The habitat unit score will increase from **273.59** to **449.62** Habitat Units, providing an overall total on site net change of **64.34**%.
 - The hedgerow unit score will increase from **49.02** to **84.20** Hedgerow Units, providing an overall total on site net change of **71.76**%.
 - The river unit score will remain unchanged at 2.25 River Units.
- 4.1.14 Where grassland within the site achieves a higher condition than predicted under a precautionary approach in this assessment, there is potential for a gain of up to **827.33** Habitat Units. This would provide an overall net change of **202.40%**.
- 4.1.15 A Landscape and Ecology Management Plan has been prepared for the development which includes a programme of monitoring to the LPA.
- 4.1.16 The habitat monitoring will follow an objective and target led approach integral to initially achieving and then maintaining the target conditions over the long term.

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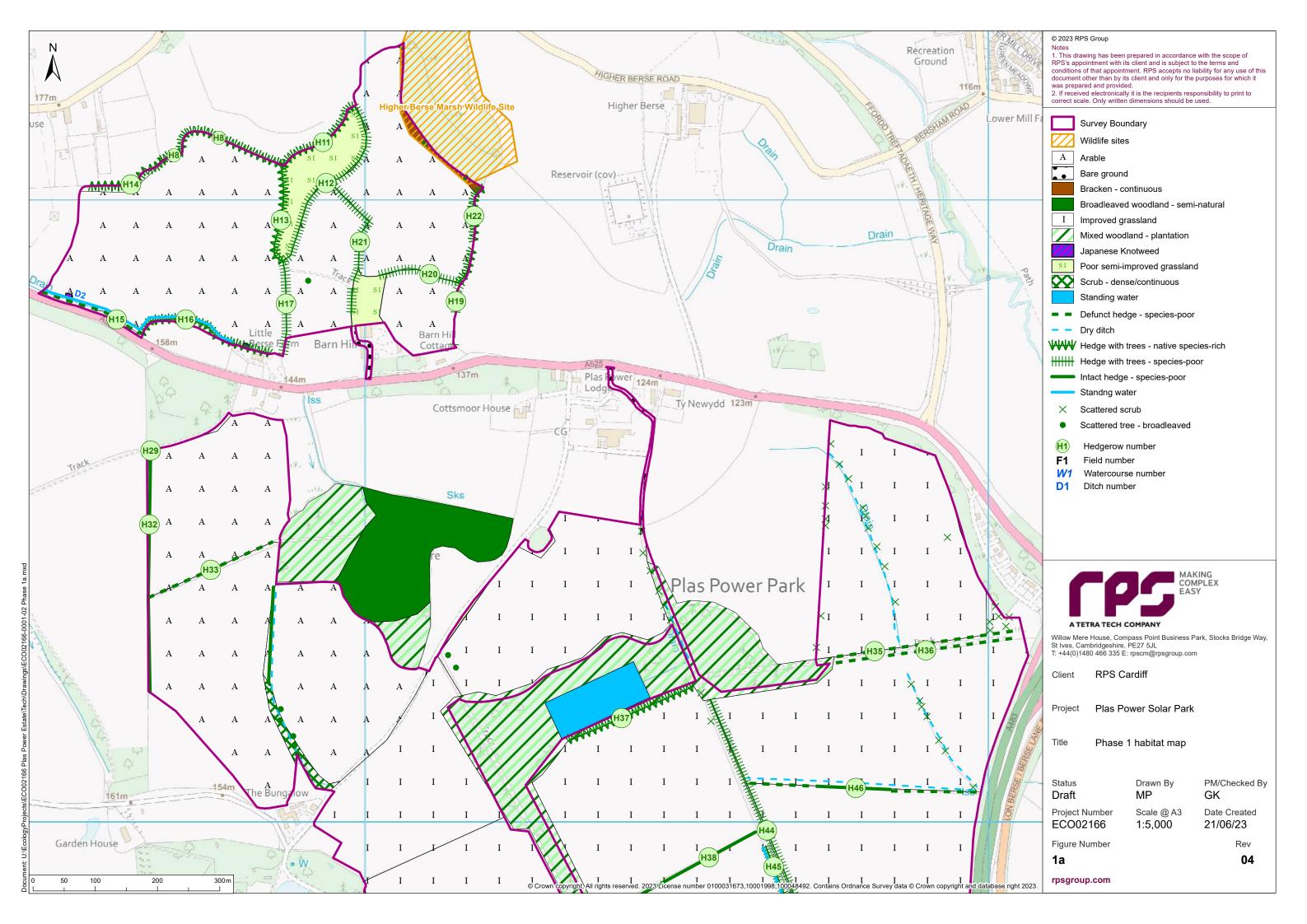
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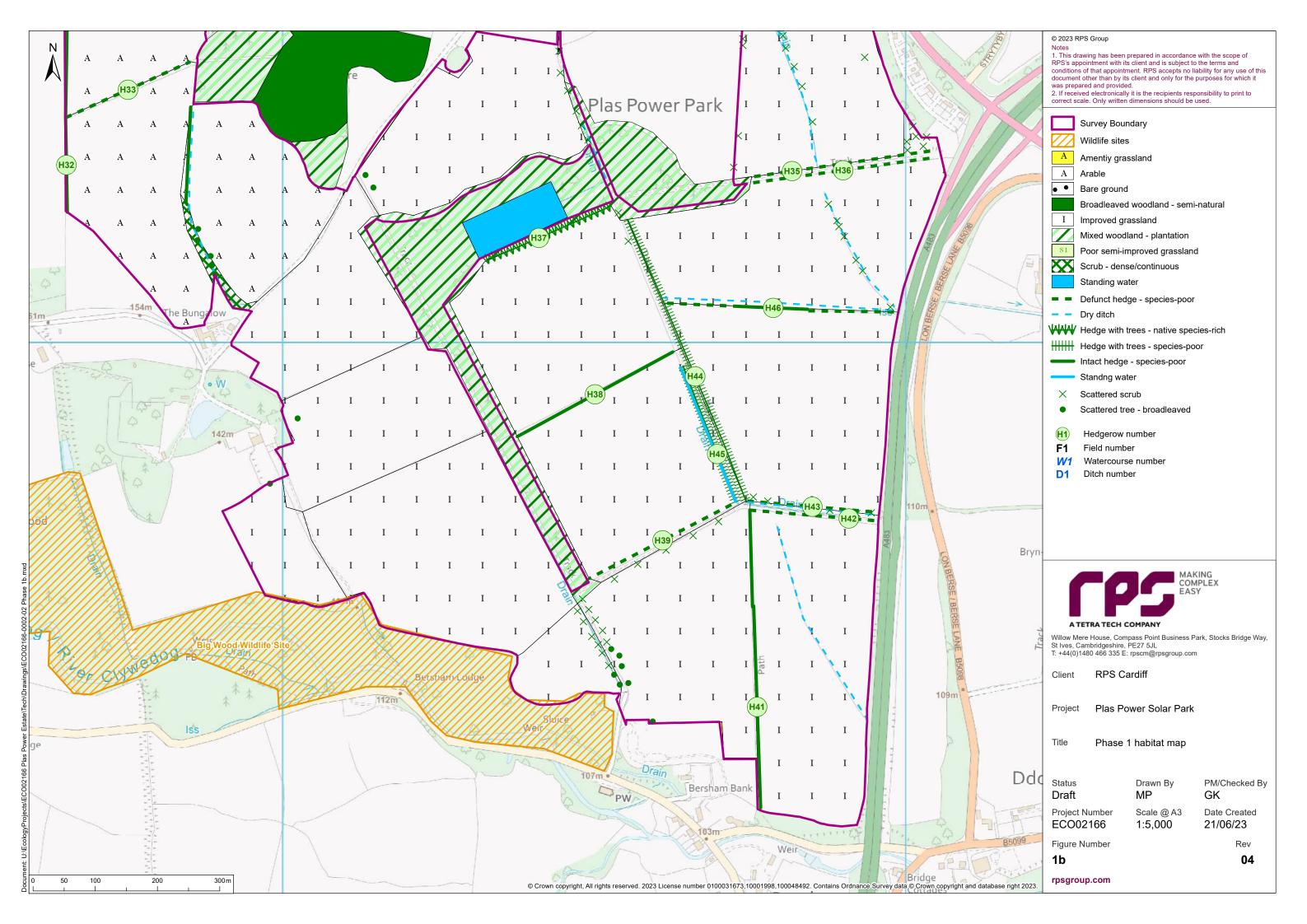
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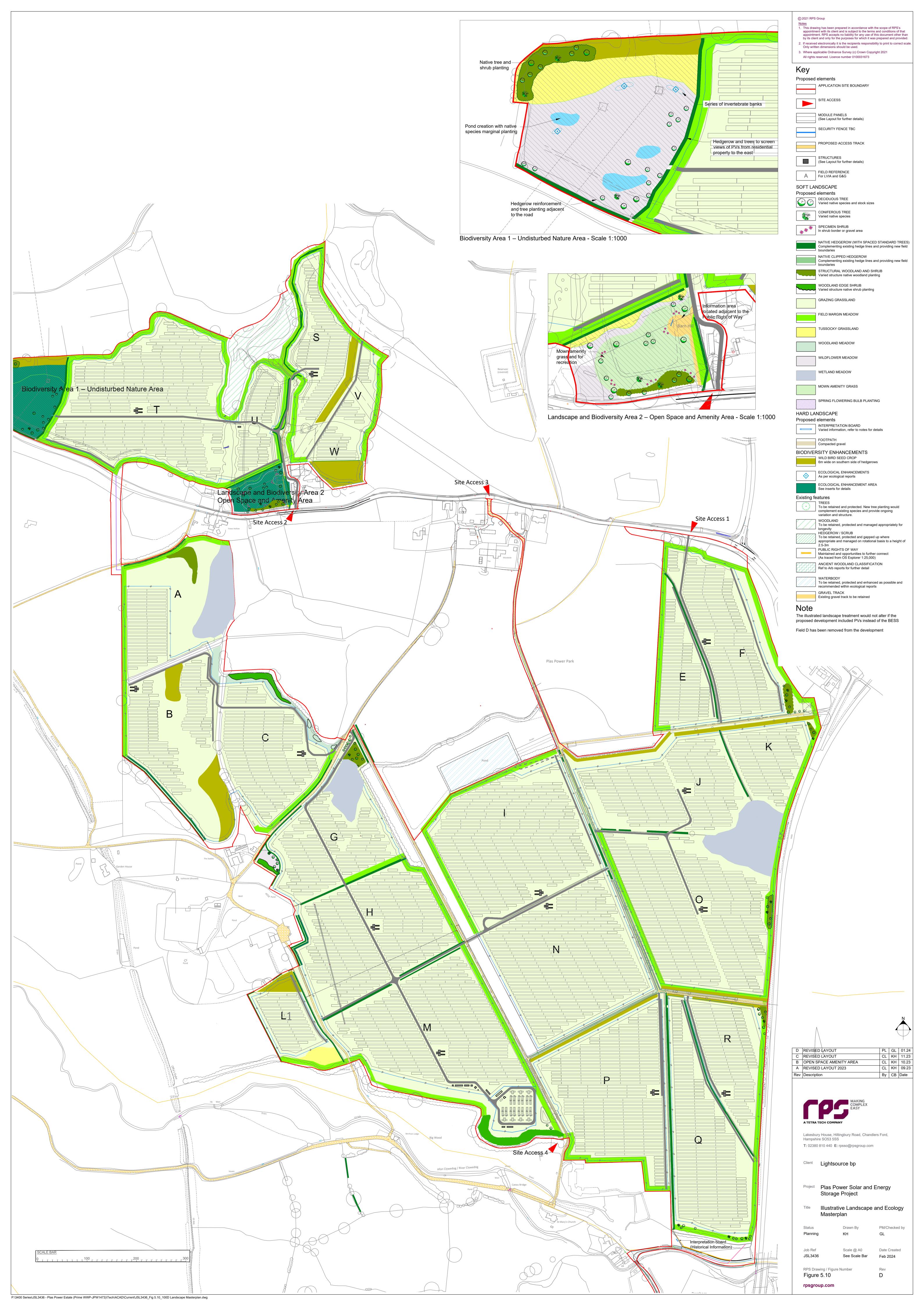
RPS (2023). Preliminary Ecological Appraisal: Plas Power Estate.

RPS (2024). Plas Power BNG Metric.









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Headline Results	3	results menu				
Scroll down for final re	sults 🛆					
			Habitat units	273.59		
On-s	site baselir	ne	Hedgerow units	49.02		
			Watercourse units	2.25		
On cito r	ost-interv	ontion	Habitat units	449.62		
	etention, creation &		Hedgerow units	84.20		
(Watercourse units	2.25		
On-sit	e net chan	CO.	Habitat units	176.03	64.34%	
	nits & percentage)	.90	Hedgerow units	35.18 0.00	71.76%	
`			Watercourse units	0.00	0.00%	On-site net gain is less than target se
			Habitat units	0.00	Ì	
Off-s	site baselir	ne.	Hedgerow units	0.00		
011 1	nto Raboni		Watercourse units	0.00		
			Habitat units	0.00		
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0.00			Habitat units	0.00	0.00%	
	te net char	ıge	Hedgerow units	0.00	0.00%	
(ui	nits & percentage)		Watercourse units	0.00	0.00%	
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			Habitat units	0.00		
Spatial risk mu	ltiplier (SRM)	deductions	Hedgerow units	0.00		
			Watercourse units	0.00		
	F	INAL RESULTS				
-			Habitat units	176.03		
	et unit cha		Hedgerow units	35.18		
(Including all on-site & off-sit	e habitat retention, c	reation & enhancement)	Watercourse units	0.00		
W ()	. (0 / 1		Habitat units	64.34%		
'I'otal : (Including all on-site & off-sit	net % char		Hedgerow units	71.76%		
(including all on-site & oil-sit	e nabitat retention, c.	eation & emancement)	Watercourse units	0.00%	Total net	gain achieved is less than target set A
Trading	rules satis	fied?	Ye	s√		
Unit Type	Target	Baseline Units	Units Required	Unit Deficit		
	10.00%	273.59	300.95	0.00		requirement met or surpassed ✓
Habitat units Hedgerow units	10.00%	49.02	53.92	0.00	Unit	requirement met or surpassed 🗸

Project Name: Plas Power Solar and Ens	rgy Storage Project Map Reference:	Area ha	bitat summary
Ā-1 On-Site Ha	hitat Basalina	Total Net Unit Change	176.03
A-1 Oll-bite 11e	Ditat Dageinie	Total Not % Change	84.34%
		Trading Rules Satisfied	Yes √
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4			

	Main Meno		Instructions	Į.									
		E	nisting erea habitate		Distinctivene	100	Conditio		Strategic signi	Boznos		B	Ecological baselina
Ref	Broad Habitat		Habitat Type	Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic algnificance	Strategic Significance multiplier	Required Action to Meet Trading Rules	Total habitet units
1	Grassland		Modified grassland	80.51	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	161.02
2	Grassland		Modified grassland	15.8	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	31.60
3	Grassland		Modified grassland	1.73	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	3.46
4	Cropland		Non-cereal crops	19.77	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	39.54
8	Cropland		Femporary grass and clover leys	16.39	Low	2	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness or better habitat required ≥	32.78
6	Heathland and shrub		Mixed scrub	0.26	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	1.04
7	Individual trees		Rural tree	0.1832	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	2.20
8	Individual trees		Rural tree	0.244	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same broad habitat or a higher distinctiveness habitat required (2)	1.95
9	Urban	Arti	ficial unvegetated, unsealed surface	1.08	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00
10													

	R	etention cu	tegory biodi	versity value		Bespoke compensation		Comments	
Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost	agreed for unacceptable losses	User comments	Consenting body comments	GIS reference number
72.4	4	144.80	8.00	4.11	8.22		Improved, sheep grazed grassland. Passes condition criteria C. D. E. F. G.		
0	15.8	0.00	31.60	0.00	0.00		Small sections of St. Passes condition criteria C, F, G		
0	1.73	0.00	3.46	0.00	0.00		Arable crop (fields north of A road)		
0	0	0.00	0.00	19.77	39.54		Grass ley (fields south of A road)		
0	0	0.00	0.00	16.39	32.78		Section of scrub bEtween grass ley fields. Passes condition criteria A, C.		
0.26	0	1.04	0.00	0.00	0.00				
0.1832	0	2.20	0.00	0.00	0.00				
0.244	0	1.95	0.00	0.00	0.00		Tracks throughout site		
1.08	0	0.00	0.00	0.00	0.00				
									· ·

Gel	A-3 Co-Sile Habitat Enhancement on / Zore Column Date Men. Date Men.	iod Son Ross											West Het West Cheeses Reid Het St Cheeses Westlies Bales Beliebed		20-30 4-2005 Res d	A	histy" Casegory has I	oon sood - aboo		enance file is appropriate &															
						Junelius babi	bio .					Zupas	el Rabini (Pro-payelaină bai sun bo espenidânt)	Champs in distinct	irrenes and condition	Т				Direitgia significana	00			Traper	not makiples				Differency mich coulty	does			Comment		1
-	Swillerholder	100	-	-	ordino directoria	Donation condition condition	Innin militares		- Income and		tiet Enquired Seizes to Most Treeling Seize	Proposed Broad Bubble	Troposed Inhibit	Datastrana dasp	Condition already:	-	Distantivesses 0	Occiden		Strategie stjellensen			Habitat enhanced in columns (press)	Delay is storing behind enhancement	Standard or adjusted time to target evolution.	Find time to tempt continue (press)	Tand Store to Suppl	Steedard estandly of	-	Plant delivery of	<u> </u>	ide proof there	and a	Connecting body communic	THE REAL PROPERTY.
- 1	Cranical - Mediled granical	803	a Le		2		- 1	Low States		141.02	Zame distinctiveness or hotter habitat	Granteed	Other control prontlend	Low-Medium	Leave Districtiveness Habitat - Painty	-	Medium	4 Fairly Con	-1 2.5	Area/compression and in fored sharings/ no. L	Low Dealergie	1 12			Sandard time to barget condition.	12	0.002	Low	Zondard difficulty applied	Low	1 1	Falci margine (see late	margin measing on		
	Chandard Mediled psecions	- 10			2	Peer		Lear Stealing Signalinates		3140	Zame distinctiveness or leater habital respired 3	Oranteed	Other control greatings	Low-Medium	Lower Districtions and Habital : Manierate	10.0	Medium	6 Moderate		Area/compression and in bond strategy/ no. Literal strategy	Low Disabogie Zignileanow	1 10			Standard time is target condition. applied	10	0.300	Low	Dandard difficulty applied	L		Two improved debte to the migh resemble; and	ne endancemi sensitive		
3	Chandard - Medided grandard	17	i Le	,	2	Peer	- 1	Low States Sendous		346	Zame distinctiveness or letter habital remained 3	Granical	Modified granteed	Low-Low	Per Medeste	173	Low	I Moderate	. 2	Area/compressation and in Social shadings/ no: Lincol shadener	Low Danlesje Zemileason	1 10	0		Standard time in temper condition assisted	10	0.700	Low	Standard difficulty applied	Low		All II to be associated one	ceri		

Protect Name: Plat Power Solar and Rosery Storace Protect Map Reference:
A-2 On-Site Habitat Creation

Continue / Elow Columns

Continue / Elow Rose

Area habited gummary
Total life Unit Cheson 178.00
Total life U. Cheson 178.00
Total life III Cheson 03.2409
Treatment Intelligence 178.00
Area Clood (concession unit)
Area Accognition of Accognition of Area Accognition of Are

A 'Pairly' Category has been used - check cridence to ensure this is appropriate &

										Post de	valorment/ poet is	invention habitals											_
			Distinction	THE SAME	Con	dition.	Strategio nignili	conco		1	,,		Temporal multiplier			1	Difficulty multiplier				I Co	meanle	4
Broad Habitat	Proposed babitet	Area (bestures)	Distinctiveness	Secre	Condition	Socre	Strategio significance	Strategio algnificance	Strategio position multiplier	Standard time to target condition (years)	Habitet orested in advance (years)	Delay in starting habitet creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creetion	Applied difficulty multiplier	Pinal difficulty of creation	Difficulty multiplier applied	Habitat units delivered	Teer comments	Consuming body comments	Oli reference number
Grassland	Modified grassland	26.5	Low	2	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	4	0	0	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1	91.92	Crassland on former scable - sown with grazing mixture and sheep grazed, panels to be installed in fields		
Grassland	Other neutral grassland	3.94	Medium	4	Fairly Good	2.5	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	7	0	0	Standard time to target condition applied	7	0.779	Low	Standard difficulty applied	Low	1	30.70	Meadow grassland margins on former arable		
Grassland	Other neutral grassland	0.45	Medium	4	Fairly Good	2.5	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	7	0	0	Standard time to target condition applied	7	0.779	Low	Standard difficulty applied	Low	1	3.51	Woodland grassland margins on former arable		
Grassland	Other neutral grassland	1.71	Medium	4	Fairly Good	2.5	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	- 1	7	0	0	Standard time to target condition applied	7	0.779	Low	Standard difficulty applied	Low	1	13.33	Wildfower recessions on former analyte		
Grassland	Other neutral grassland	0.77	Medium	4	Fairly Good	2.5	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	7	0	0	Standard time to target condition applied	7	0.779	Low	Standard difficulty applied	Low	1	6.00	Larger areas of tustocky grassland		
Grassland	Other neutral grassland	0.51	Medium	4	Fairly Good	2.5	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	7	0	0	Standard time to target condition applied	7	0.779	Low	Standard difficulty applied	Low	1	3.97	Mown amenity in Bioadisseriety Area 2		
Cropland	Arable field margins game bird mix	2.23	Medium	4	Condition Assessment N/A	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.965	Low	Standard difficulty applied	Low	1	8.61	Window consist conn.		
Urban	Artificial unvergetated, unsealed surface	2	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Low	1	0.00	New tracks		
Urban	Developed land; seeled surface	1	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00	Built infrastructure elements		
Heathland and shrub	Mixed acrub	1.05	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Sireifmann	1	s	0	0	Standard time to target condition applied	s	0.837	Low	Standard difficulty applied	Low	1	7.03	Name anothers of classes acrosh the combons		
Lalons	Ponda (non-priority habitat)	0.12	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	8	0.837	Low	Standard difficulty applied	Low	1	1.21	New round creation in Biodiversity Area		
Individual trees	Fazzal trese	0.2036	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	27	0	0	Standard time to target condition applied	27	0.382	Low	Standard difficulty applied	Low	1	0.62	New tree classing throughout		

oject Name: Plas Power Solar and I	Energy Storage Project Map Refer	ence			edgerow summary
P. I. On Sito	Hedge Baseline		Total Net Unit		35.18
B-1 Oll-bile	neage baseine		Total Net %		71.76%
Condense / Show Columns	Condense / Show Rows		Trading Rules	Satisfied	Yes √
Condense / Show Coldinas	Condense / Bilow Rows				
Main Menu	Instructions				
	Existing hedgerow habitats		Distinctiveness	Condition	Strategic significance

		Existing hedgerow habitats		Distinctiveness	Condition	Strategic aignificance	Required Action to	Ecological baseline
Baseline ref	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Condition	Strategic significance	Meet Trading Rules	Total hedgerow units
1	H11, H12, H13, H37	Species-rich native hedgerow with trees	0.43	High	Good	Area/compensation not in local strategy/ no local strategy	Like for like or better	7.74
2	H8, H14, H22	Species-rich native hedgerow with trees	0.56	High	Moderate	Area/compensation not in local strategy/ no local strategy	Like for like or better	6.72
3	H16	Species-rich native hedgerow with trees - associated with bank or ditch	0.23	V.High	Moderate	Area/compensation not in local strategy/ no local strategy	Like for like	3.68
4	H12	Native hedgerow with trees	0.32	Medium	Good	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	3.84
8	H17, H19, H20, H21, H44	Native hedgerow with trees	0.83	Medium	Moderate	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	6.64
6	H45	Native hedgerow with trees - associated with bank or ditch	0.27	High	Moderate	Area/compensation not in local strategy/ no local strategy	Like for like or better	3.24
7	H1S	Native hedgerow - associated with bank or ditch	0.28	Medium	Good	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	3.36
8	H43	Native hedgerow - associated with bank or ditch	0.22	Medium	Moderate	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	1.76
9	H29, H32, H38, H41, H34	Native hedgerow	1.34	Low	Moderate	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	5.36
10	H33, H35, H36, H39, H42, H46	Native hedgerow	1.67	Low	Moderate	Area/compensation not in local strategy/ no local strategy	Same distinctiveness band or better	6.68
11								

	Retention o	ategory bio	odiversity val	ue		Comm	nents	
Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	User comments	Consenting body comments	GIS reference number
0.43		7.74	0.00	0.00	0.00	Passes condition criteria A1, A2, B1, B2, C1, D1, D2, E1 (some), E2		
	0.56	0.00	6.72	0.00	0.00	Passes condition criteria A1, A2, B1, B2, D1, D2, E1, E2		
	0.23	0.00	3.68	0.00	0.00	Passes condition criteria A1, A2, B1, B2, D1, D2, E1, E2		
0.32		3.84	0.00	0.00	0.00	Passes condition criteria A1, A2, B1, B2, C1, D1, D2, E1, E2		
0.15	0.68	1.20	5.44	0.00	0.00	Passes condition criteria A1, A2, B1, B2, D1, D2, E1 (some), E2 H17, H19, H21 and H44 enhanced		
0.27		3.24	0.00	0.00	0.00	Passes condition criteria A1, A2, B1, B2, D1, D2, E1, E2		
0.28		3.36	0.00	0.00	0.00	Passes condition criteria A1, A2, B1, C1, D1, E1		
	0.22	0.00	1.76	0.00	0.00	Passes condition criteria A1, A2, B1, D1, D2		
0.95	0.39	3.80	1.56	0.00	0.00	Passes condition criteria A1, A2, B1, B2, D1, D2 H29 and H32 enhanced		
1.46	0.21	5.84	0.84	0.00	0.00	Passes condition criteria A1, A2, B1, D1, D2 H33 enhanced		
1	1					l l		I

			Total 2	et Unit Chas let % Chan Rules Satis	70	ow sum	mary 38.16 71.70% Yes /																
	Proposed habitats		Distinctive	10.05	Conditio	n	Strategio signifios	moe				Ten	aporal multiplier				Difficulty risk	miltipliera		Hedge	Com	ments	
Baseline ref hadge number	Habitat type	Length (km)	Distinctiveness	Score	Condition.	Score	Strategio algnificance	Strategic significance	Strategic position multiplier	Standard Time to target condition (years)	Habitat created in advance (years)	Delay in starting habitet creation (years)	Standard or adjusted time to target condition	Final time to target condition (years)	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier	Final difficulty of creation	Difficulty smittplier applied	units delivered	User comments	Consenting body comments	reference numbe
1	Species-rich native hedgerow	3.37	Medium	4	Good	3	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	12	0	0	Standard time to target condition applied	12	0.652	Low	Standard difficulty applied	Low	1	26.37	New native hedge planting throughout		

B-3 On-Site Hedge Enhancement Condense (Shore Column Man Mess	2005										Hadge Yold Not that Change Yold Not to Change Youling Roles Stellated	700 of atministry 11.705 700 of					Poor development' poor las														
				Describe He	all distants						Chance in distinctiv	non and amelitim	т	Distinsticano	On	ndition	Strategie signific	7000			Yespo	nd mobilphine				Difficulty state	saldplines			Comments	
Describes Section Inchinal	1 mag in ma	Description bend	Bareline Selectiveness precs	Bardino condition coloquey	Involtes condition reces	Standing standards algottlemen entercory	Basiles strategie stgationes	Baseline hebited water	Required Action to bleet Trading Bules	Proposed (Dro-populated but our be-eventidate)	Distinstrumes more and	Condition meyennesi	Longth (tm)	Distinstiyeeses Boose	Condition	Source	Montagle algotificences	Strategie Positi algoritomere mobile	gio Standard Vi- los to target disc condition (ye	Stabilist enhanced Sa edipmon (possi)	Dulay is starting habited enhancement (years)	Standard or edjusted time to target condition	Final time to tempet condition. (years)	Final Time to inspet multiplier	Standard differency of	Applied differity multiplier	Final differency of enhancement	Difficulty units multiplier deliver opplied.	d Tour comments	Ownerling body comment	
Species sich satire bedgecow with trees	0.96	Hall	4	Moderate	2	Low Strategio Significance	1	6.22	Like for like or better	Species sich sative hedgecon with trees	High - High	Moderate - Good	0.56	High 6	Good	2	Areatompensation not in local strategy to local strategy	Low Strategic Significance	4		4	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1 9.63	Hedgerous where adjoining consisted will describe a february	tra.	
Species-rich native hedgester with trees - associated with basis or disth	0.23	V.Hgh		Moderate	2	Low Strangio Significance	1	2.68	Like for like	Species-rich stative bedgenow with trees - associated with bank or disch.	V.Hgh - V.High	Moderate - Cood	0.23	V.High 8	Cloud	2	Area/compensation not in local strategy' no local strategy	Low/inseegio Significance 1	4		4	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1 5.29	Hedgerous where adjoining consulted will desert a distribution of	in .	
8 Native hedgeour with trees	0.80	Medium	4	Moderate	2	Low Strongio Significance	1	6.64	Same distinctiveness band or better	Native hedgesow with trees	Medium - Medium	Moderate - Cood	0.68	Medium 4	Good	3	Area/compensation not in local strategy' no local strategy	Low/inseegio Significance	4		4	Standard time to target condition applied	4	0.867	Low	Standard difficulty applied	Low	1 7.90	Hedgerous where adjoining practiced will develop higher to	ise.	
Native bedgerow - associated with bank or disch.	0.22	Medium	4	Moderate	2	Low Strangio Significance	1	1.26	Same distinctiveness band or better	Native bedgeow - associated with bank or droh	Medium - Medium	Moderate - Cood	0.82	Medium 4	Good	3	Area/compensation not in local entergy/ no local entergy	Low/Inneegio Significance	2		4	Standard time to target condition applied	2	0.901	Low	Standard difficulty applied	Low	1 1.50	Hedgerous where adjoining consisted will dession broker or	tra.	
9 Nativehedgeour	1.94	Low	2	Moderate	2	Low Strongio Significance	1	9.96	Same distinctiveness band or better	Native hedgecow	Low-Low	Moderate - Cood	0.39	Low 1	Good	3	Area/compensation not in local strategy' no local strategy	Low/inseegio Significance	2		4	Standard time to target condition applied	2	0.931	Low	Standard difficulty applied	Low	1 2.29	Hedgerous where adjoining consisted will decelor, higher to	in .	
10 Native bedgerow	1.60	Low	2	Moderate	2	Low Strategio Significance	1	4.66	Same distinctiveness band or better	Matine bedgecow	Low-Low	Moderate - Cood	0.31	Low 1	Good	2	Areatompensation not in local strategy/ no local strategy	Low Strategic 1 Significance 1	2		4	Standard time to target condition applied	- 1	0.901	Low	Standard difficulty applied	Low	1 1.23	Hedgerous where adjoining consisted will describe a federal	tra.	
															Good	2	Areacompensation not in local strategy no local strategy	Low/Itsseegio 1			4										

Project Name: Plan Power Solar and Energy Storage Project
C-1 On-Site WaterC' Baseline

Condense / Store Columns
Condense / Store Columns
Man Mens
Introduces

Watercourse summary									
Total Net Unit Change	0.00								
Total Net % Change	0.00%								
Trading Rules Satisfied	Yes √								

	Existing watercourse type		Distinctiven	068	Condi	tion	Strategio aiç	Watercourse en	croachment	Riparian encroso	Required	Ecological baseline			
Beseline ref	Watercourse type	Length (km)	Length (km) Distinctiveness Score Co		Condition	Score	Strategic significance	Strategio significance	Strategic significance multiplier	Extent of encroachment	Multiplier	Extent of encroschment for both banks	Multiplier	Action to Meet Trading Rules	Total watercourse units
1	Other rivers and streams	0.5	High	6	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	No Encroachment	1	Major/Major	0.75	Same habitat required =	2.25
2															

		Retention out	egory biodiv	orsity value		Bespoke compensation	Com	ments	
Length retained	Length enhanced	Units retained	Units enhanced			agreed for unacceptable losses	User Comments	Consenting body comments	GIS reference number
0.5	0	2.25	0.00	0.00	0.00				