

Biodiversity net gain

Planning reference: P/2022/0352

Blaenau Uchaf

Froncyclyte

Nr Llangollen

LL20 7RY

Within the proposed planning application there are a number of key benefits to wildlife & ecology to ensure that there will be a “net biodiversity gain” some of the benefits are listed below;

1. *Growing wild flower pots* - wildflower pots will provide food for pollinating insects, all wildflowers that will be planted will be from British origin, such as; honeysuckle, dog rose & cornflower. There will be a minimum of 10 wild flower pots within the curtilage of the dwelling.
2. *Bat Box* - x2 “Schwöglar 2F bat boxes will be fitted, x1 onto each gable end of the house as there will be minimum light pollution in that area, and they will be located 4.5m above ground.
3. *Bird nesting boxes* – a variety of bird nesting boxes will be installed on the trees around the curtilage of the dwelling, to encourage safe nesting for birds to raise their young chicks. There will be a variety of bird box sizes to ensure a variety of species can utilise the land.



4. *Build hotels for solitary bees* – Bumble bees & honeybees only form 10% of the UK's total bee fauna, they are an integral part of the pollination network, the hotel will be made from hollow canes encased inside a wooden structure similar to a bird nesting box but unlike to nesting box the front is open with hollow canes to allow bees to freely enter. One hotel will be installed.



5. *Install hedgehog homes (burrows)* – recent estimates suggest there are under 1 million hedgehog's left in the UK, we aim to build a minimum of three hedgehog homes within the curtilage. The hedgehog homes will encourage hedgehogs to shelter/hibernate or raising hoglets.



6. *Plant native hedgerows* – will plant native hedge rows along the land boundaries, native hedgerows will encourage insects and birds to shelter, create nests & hibernate within them. The hedges will comprise of;
- 85% black thorn / Hawthorn hedge
 - 10 % field maple
 - 5% gooseberry

Throughout the proposed project the aim is to cause minimum disruption to the natural wildlife, there will not be any requirement to cut trees unnecessarily, all hedges and trees will not be cut during the bird nesting season. To avoid unnecessary disturbance to bats in the future all lighting;

- Use light omitting diodes (LED) luminaries
- Have a warm white spectrum <2700 degrees kelvin
- Have peak wavelengths higher than 550nm
- Be set on motion sensors
- Use short duration (one minute) timers
- Not be in the vicinity of bat roosting areas
- Not shine towards the roof structures
- Not be in the vicinity or shine towards boundary vegetation.