

Green Infrastructure Statement – Phase 4E/4G

Green Infrastructure is incorporated into each aspect of the landscape design by integrating a sustainable, nature-based landscape solutions into the design and delivery of the Llanwern 4E & 4G development. The proposal will align with national and local planning policies to promote biodiversity, enhance ecological networks, and support the well-being of future residents.

An integrated network of natural habitats, sustainable drainage, tree and shrub planting will be created through the Green Infrastructure network. Natural habitats are connected throughout the open spaces which links into the surrounding green corridors and beyond. The streetscape is tree-lined, and each of the green spaces combines play elements and social spaces whilst creating a habitat rich environment.

The proposed Green Infrastructure strategy is carefully planned, designed and managed to:

- Promote healthier living, providing open spaces for physical activity and relaxation.
- Reduce urban heat island effect and absorb stormwater run-off to lessen the impacts of climate change.
- Filter pollutants at source to improve air and water quality.
- Make streets clean, comfortable and more attractive to encourage walking and cycling.
- Where possible, store carbon in soils and trees by using carbon rich materials such as biochar.
- Create high-quality green spaces to improve habitat connectivity, biodiversity and ecological resilience.