

### **Sustainability Appraisal**

It is contended that a sustainability appraisal of the development is positively beneficial both to the site and the LDNP as a broader entity: for the following rationale:

#### *Location and accessibility*

- The site is located as close as practicable, given landscape and visual impact constraints, to the indigenous and visitor communities it seeks to serve.
- The site is located adjacent to the major arterial road link into the LDNP.
- The site is located on the principle public transport route into the LDNP: where it is readily accessible to persons without private cars.

#### *Site*

- The occupiers of the site will be accommodated in modern standard buildings meeting the best of carbon targets
- The site will offer the ability to have shared community infrastructure such as a Combined Heat and Power Plant
- The site infrastructure will provide the opportunity for initiatives such as ground source heat pumps, both from boreholes and laid under built infrastructure such as roads and car parking.

#### *Buildings*

- Buildings will be designed to incorporate the latest in environmentally aware technology such as those developed by Kingspan [Appendix 18: Building Palettes]
- The buildings will be made, as far as is practicable, self sufficient in energy generation by the use of solar panels and photovoltaic technology: using the natural north west to south east building juxtaposition axis in the landscape
- The buildings will incorporate rainwater harvesting and grey water management techniques

#### *Renewable energy*

- The site will be able to generate exportable power through a biomass renewable energy plant and photovoltaic technology.

#### *Broader issues*

- The development will bring a substantially improved public transport offer to the LDNP underpinning accessibility in the locality addressing a major factor in making rural poverty systemic.
- The development will act as a catalyst to change personal travel planning.