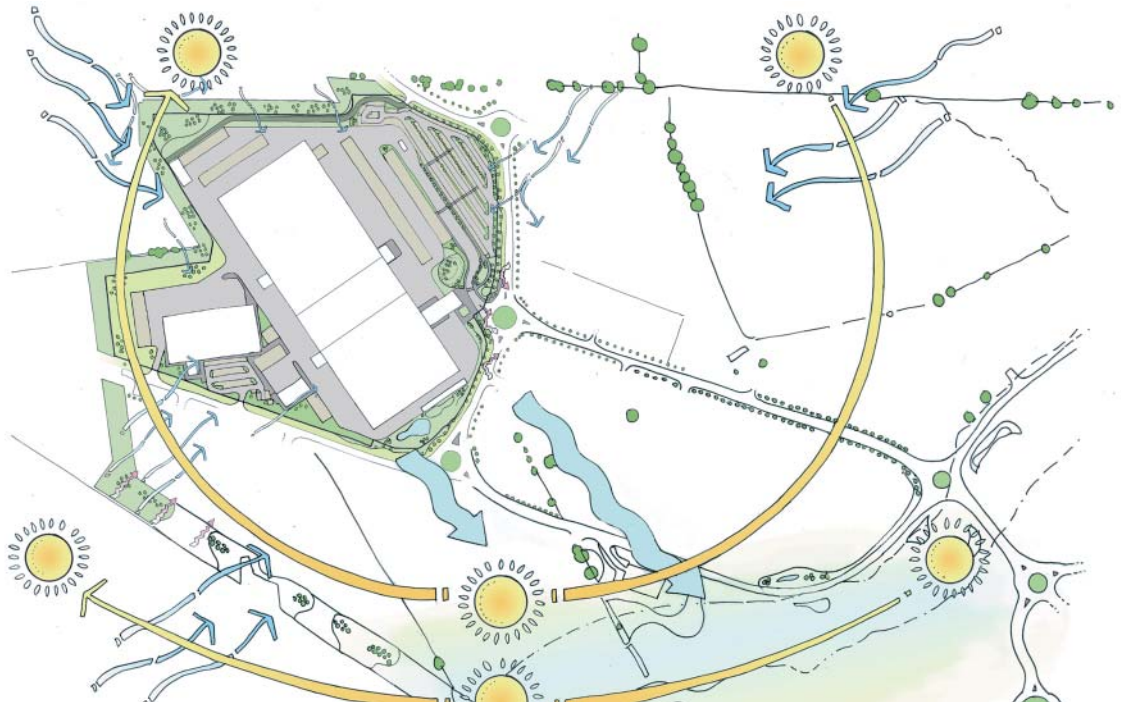


BATTLE McCARTHY©

Consulting Engineers & Landscape Architects



PROJECT:
ProLogis Park, Pineham

CLIENT:
ProLogis/Sainsburys

ARCHITECTS:

BM SERVICES:
xx

VALUE:

DATE OF COMPLETION:
xx

DESIGN BRIEF

- Our solution will build on the existing landscape and ecological opportunities. We pledge to:
- Enhance and improve existing wetlands
 - Build a Sustainable Urban Drainage System (SUDS) to retain water, mitigate flooding and enhance the natural habitat
 - Implement a managed landscape strategy to enhance the ecology and beauty of the site
 - Protect existing trees and flora

- We aim to create a development that exceeds expectations in energy, carbon and water savings, providing:
- A significant reduction in conventional energy use
 - A significant reduction in water consumption

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DESIGN INITIATIVES/ACTIONS UNDERTAKEN

Solar wall heating, photovoltaic cells, wind turbines, and geothermal heating and cooling systems will be implemented to deliver as much energy from renewable sources as is economically viable.

The scheme has been specifically designed so that the main office block is fully external to the main warehouse with glazing to the longest elevation, resulting in a greater proportion of the offices being naturally lit during daylight hours.

We have also increased the air tightness of the building from the industry standard of 6m³/m²/hr to 2.5m³/m²/hr, for which the project will be granted additional BREEAM™ credits.

The most efficient intelligent lighting control will be implemented to ensure that the lighting in the warehouse takes best advantage of the additional roof light provision. This will minimise power usage. Our proposal also includes low-energy fluorescent lamps, as we have assumed that lights will be manually turned off when conditions allow, hence positively contributing to the ecologically-friendly nature of this project.

All lighting within the offices will be switched using PIR sensors, meaning that only active areas of the office will be lit. This avoids unnecessary use of power to unlit areas, saving 20% of electricity consumption.

Heat rejection from the Produce and Chilled Food areas is likely to provide up to 50% of the heat required for a frost protected shed.

Rain water will be harvested to provide its storage and distribution to all non-potable facilities within the offices. This will include WC and urinal flushing, which typically make up over 50% of water usage within an office warehouse facility. We expect to be able to deliver a saving of potable water of about 45% for the Recycle and Recovery Unit area of the site, dependent upon rainfall.

