

## **TURING LOCKE, EDDINGTON – CAMBRIDGE.**

### **SUSTAINABILITY FACT SHEET.**



*Turing Locke courtyard, bat boxes and solar panels.*

#### **The Property**

Turing Locke has embedded forward-thinking sustainable practices into its architecture and design and has reduced its carbon emissions by 20% using renewable energy sources – targeting BREEAM Excellent certification.

The building achieves and exceeds the required CO2 reduction as compared with AD Part L and NWC Area Action Plan Policy 24. The following energy efficiency measures are integrated to reduce energy demand for the building:

- Connecting to the District Heating Network
- 80% of the building's roof is occupied by Photovoltaic solar panels
- High efficiency Air Source Heat Pump (ASHP) with heat recovery
- Energy efficient lighting
- Heat recovery ventilation to the rooms and social space
- Improved services distribution
- Inclusion of variable speed drives on pumps and fans
- Water saving technologies
- Utilising non-potable water network

As part of a broader brand-wide initiative, Locke has partnered with climate positive procurement consultancy Dodds & Shute to source furniture, lighting, and timber from responsible suppliers. As a result of the collaboration, Locke has offset 116.53 tonnes of carbon emissions – equivalent to protecting 4,307 trees.

This project insisted that all timber be sourced from the highest sustainable standards, this ensures that all our wood used has been tracked across its journey of origin from certified forests to the manufacturer. These forests are managed with great care so that the trees that are harvested are replaced or allowed to regenerate naturally.



There has also been a considerable focus to keep manufacturing and supply chains as small as possible, appointing UK and European fabricators wherever possible including Carl Hansen, Mater, Very Good & Proper and Cane Line.

Place of Origin	No. Of Products	% of total products
UK	245	20.82%
EU	516	43.84%
Asia	351	29.82%
America	65	5.52%

Locke will also switch to 100% green gas and electricity for all of its UK sites starting from November 2021. The green gas certification will be fully backed by Renewable Gas Guarantees of Origin (RGGOs) and Biomethane Certificates (BMCs) with an additional verification from EcoAct, an Atos company. Electricity will be independently certified by the Carbon Trust and via the Renewable Electricity Guarantee of Origin (REGO).

### **The Courtyard**

Biodiversity has been enhanced with large landscaped central courtyard, which hosts a variety of plant species, as well as planters, bird and bat boxes to provide an improved habitat for animals and insects.

The eco-garden is based on a global approach to the garden, which favours the application of cultural methods and the use of alternative or biocontrol solutions, as well as using the rainwater management strategy adopted throughout Eddington.

### **Food and drink**

Locke's food drink Beverage partners will use locally sourced produce wherever possible, and also offer meat free and vegan options. The vast majority of materials used are either recyclable, biodegradable, compostable or recycled. KOTA and Dutch also participate in the [Cambridge Sustainable Food Pledge and Award](#) Scheme, which acknowledges their commitment to sustainability.

### **Transport**

Sustainable modes of transport are readily available to guests and locals, including 200 cycle parking spaces, plus 20 electrical vehicle charging spaces in the car park. Electric scooters are also available within Eddington, and an Electric Shuttle Bus to key sites in the City.



## The Location

Just a 15-minute bike ride from the historical city centre, Turing Locke will serve as a focal point for the new community of Eddington, which has been developed by the University of Cambridge as an exemplar of sustainable living.

This visionary urban area comprises new homes, learning spaces, amenities and green spaces, creating a vibrant environment for people to live, learn, and socialise in. Unique infrastructure around Eddington, such as the communal underground recycling system, the purpose-built lakes for rainwater harvesting, as well as generous open spaces, parklands and sports pitches, all help residents to live in a sustainable and communal environment.

Eddington includes:

- The UK's largest underground waste and recycling system. Local authorities are alerted to collect bins when they are 80% full, meaning only nearly full bins are emptied, vastly the use of the waste collection lorry and the carbon emissions linked to that.
- Eddington has developed a pioneering rainwater management strategy to capture and treat stormwater runoff from the site, using an integrated network of sustainable drainage systems (SuDS). Naturally filtered water is stored and redistributed to homes to flush toilets and water gardens. This is the first stormwater recycling scheme in the UK and one of the largest in the world, and has cut water consumption to 80 litres per person, per day (compared to Cambridge average of 150 litres).
- A District Heating Network and central Energy Centre which provides hot water to all buildings. This minimises the environmental impact with reduced CO2 emissions through energy efficiencies.

Further statistics:

- Surveys of Eddington residents show that only 1 in 10 residents keep a vehicle at Eddington and the number of people who use a car to get to work has dropped by 74%.
- The number of those who cycle to work has risen 45% and the number who use public transport has increased by 38%.
- Eddington has a 34% dry recycling rate, which is 12% higher than the rest of the city.

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