

# THE EDGE AMSTERDAM, THE NETHERLANDS



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## WORKPLACE

### 1 THE ATRIUM

The atrium provides opportunities for employees to work around the building, with flexible city views. This provides context on the building, how it works and the services on the ground, and the most popular working space for Dutch employees.

### 2 FLEXIBLE WORKSPACES

Dutch employees spend significant amounts of time out of the office, so meetings and working in smaller than in previous would need to be. It accommodates this new way of working. The Edge provides flexible workspaces and there are no assigned desks. This, together, also helps for people to work with no less than the amount of space available for broadcast office.

### 3 ACTIVITY BASED WORKING

At The Edge, the percentage of employees not using for gathering, meeting and break-out spaces is 20%, compared to the average 10% in most office buildings. The Edge is designed to be an open-plan office environment, allowing what kind of environment they need for each specific task, whether quiet and focused, collaborative and creative, meeting, sitting, or standing. These different environments include Activity Based Working.

### 4 CHANGE MANAGEMENT

The building is designed with the future in mind. On a basic, structural level, it could be converted to other uses, as indicated in our drawing with various green. The building was partly commissioned by Ducth's Change Management Commission and with the advisory URB, both bodies to create the organizational plan around the design of the new building, increasing Ducth's strategy with a successful targeted approach to change.

### 5 THE BUILDING APP

Every employee is connected to the building via apps on their smartphones. This app contains digital building data in the interface for their smartphone with the building, they can find parking spaces, free desks for meeting colleagues, report issues to the facilities team, or even manage their own office space.

### 6 PERSONALIZED WORKSPACES

Employees can customize their workspace and light levels according to their needs. The app remembers how they use their office, and even tracks their energy use so they're aware of it.

### 7 DIGITAL FACILITIES

The digital infrastructure embedded into The Edge is connected to every building system, from lighting, and many other aspects of the building's smart and other systems. This digital infrastructure enables management to automatically generate reports, to lights that track replacing printers that need paper, and is available to other facility managers on a large office environment.

### 8 DATA

The vast amount of data generated by the building's digital systems and the massive data storage capacity from sensors and building systems, has been put into a secure cloud just outside of our operations, but our understanding of existing environments and is better. It also allows us to better understand the future of this data, and the other research and knowledge it could.

## SUSTAINABILITY

### 1 ORIENTATION

The building's orientation is based on the path of the sun. The green facade on the building is maximum daylight while the solar panels on the southern facade absorb the maximum from the sun.

### 2 FACADES

Each facade is uniquely oriented according to its structure and purpose:

- East-facing walls in the south, east and west have vertical openings to provide natural cross and shading, and also generate power for the building.
- Louvers on the south facade are designed according to sun angles and provide additional shading for the office spaces, reducing solar heat gain.
- Solar panels on the south facade provide enough sustainable electricity to power all smart meters, lighting and other systems.
- The facade facades are highly transparent and use three glass to reduce heat gain from the outside.
- The atrium facade is highly transparent, allowing natural light into the atrium and giving people light in.

### 3 GREEN LIGHTING

The building integrates an Ethernet-enabled LED lighting system, which integrates 20,000 sensors, or connectivity, to monitor air quality, lighting levels, humidity and temperature, allowing the building to automatically adjust lighting use.

### 4 SOLAR PANEL ROOF

Solar panels on the roof of the building generate an energy to power the thermal energy store.

### 5 ENERGY STORE

The atrium acts as a buffer between the workplace and the external environment. It acts as a thermal store, and the office is kept cool again to maintain the atrium space. The air is then recirculated back out through the top of the atrium where it passes through a heat exchanger to re-use any leftover temperature conditioning.

### 6 RAIN WATER REUSE

Water is collected in the roof and used for flush toilets and to irrigate the green terraces in the atrium and other green areas surrounding the building.

### 7 THERMAL ENERGY STORAGE

The 1,200m<sup>3</sup> storage water store is an efficient alternative energy alternative to an external thermal storage.

### 8 HYDROLOGICAL CYCLE

The green spaces that surround the building have the ability to absorb water and the ecological cycle, allowing people and water to move through the site safely.

# Case Study The Edge Breeam NI

**Ron Bakker**



## **Case Study The Edge Breeam NI:**

**Smart Buildings** Ron Bakker, 2020-01-31 How is technology shaping our built environment and changing the practice of architecture This book explores how buildings and spaces are designed built used and better understood through technology A practical guide to technical advances including Internet of Things IoT 3D printing innovative materials and robotics Smart Buildings also outlines the opportunities for architecture including improved communication flexibility wellbeing productivity and data collection Bringing together multidisciplinary contributions and case studies from across the globe this book provides an inspiring practical guide on how technology can inspire new architectural ideas improving quality comfort health and wellbeing in the built environment

## Case Study The Edge Breeam NI Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Case Study The Edge Breeam NI**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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