

THE EDGE AMSTERDAM, THE NETHERLANDS



- 1 The Atrium
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- 7 Rain Water Harvest
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WORKPLACE

1 THE ATRIUM

The atrium provides opportunities for employees to work around the clock, with flexible city hours. Most companies in the building have offices that the terrace in the atrium are the most popular working areas for Dutch employees.

2 FLEXIBLE WORKSPACES

Dutch's employees spend significant amounts of time out of the office, or working with flexible city hours. Most companies in the building would need to be, to accommodate this new way of working. The Edge provides flexible workspaces and there are no assigned desks. This, together, has helped for people to work more effectively and increases the amount of space available for business deals.

3 ACTIVITY BASED WORKING

At The Edge, the percentage of employees not using their laptops, 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, or even eating. 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 such as residential or even housing with relative ease. The building was partly commissioned by Ducth's Change Management Commission and with the delivery in 2015, Ducth began 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 BUBBLE APP

Every employee is connected to the building via access on their smartphones. This app contains strategic functions such as the interface for their smartphone with the building, they can find parking spaces, they can find their colleagues, report issues to the facilities team, or even manage their own office within the building.

6 PERSONALIZED WORKSPACES

Employees can customize their temperature and lighting conditions that allows to work in the building and the mobility app. The app remembers how they use their office, and even tracks their energy use so they're aware of it.

7 SMART FACILITIES

The digital infrastructure embedded into The Edge is connected to every building system, lighting, and many other aspects of the building's smart and other systems. This digital infrastructure facilitates management by automatically getting managers to lights that need replacing, printers that need paper, and a multitude of other daily occurrences in a large office environment.

8 DATA

The vast amount of data generated by the building's digital systems and the mobile app are being used to improve the building's performance. For example, to reduce fuel and electricity usage, operations, but not understanding an existing environment is a failure. Data centers are constantly working regarding the future of this data, and the other research and knowledge it holds.

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 optimal views 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 lighting, signage and wireless comms.
- The facade facades are highly transparent and use three glass to demonstrate how the building looks.
- The atrium facade is highly transparent, allowing natural light over the atrium and giving people light in.

3 GREEN LIGHTING

The building integrates an 1100-watt 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 a lot of 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

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

7 THERMAL ENERGY STORAGE

The 1,200m³ storage tanks store heat in an efficient allowing thermal energy efficiency to be maximized underground.

8 HYDROLOGICAL CYCLE

The green spaces that surround the building have the ability to absorb water and do ecological activities, allowing permeable pavements to reduce the risk of flooding.

Case Study The Edge Breeam NI

Ron Bakker



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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 an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really 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 impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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