Home Country Examples

Offices
Amsterdam, NLD

Sustainability Score = 98.4%

Internet of Things: Controlled via App

15 Stories Atrium

Hot desking: 2,500 workers share 1,000 desks
**Construction Costs:**
74 M € excluding VAT & building equipment.

**Area Details:**
Plot area: 6,323 m² (2,809 m² not built)
Total Usable Floor Area: 39,910 m² (excluding the basement).

**Sustainability:**
1. Smart orientation
2. High insulation from a glass façade
3. Net Zero-Energy Building showcase
4. Smart lighting
5. PV production-5,900 square metres of solar panels
6. Optimised natural and mechanical ventilation
7. Aquifer thermal energy storage for heating and cooling
8. Rainwater harvesting
9. Ecological corridor
10. Accessibility
11. Sustainable materials

**Energy consumption**
Total primary energy consumption: 67.6 kWh PE/m².year
Fossil primary energy consumption: 56.7 kWh PE/m².year
Renewable energy production (PV): 3 kWh PE/m².year
The level of final energy consumption of the building will vary between -0.3 and 40.7 kWh/m².year depending on the availability of the renewable energy supply by the PV production.
Energy Harvestation & Storage
Two 129m deep wells reach down to an aquifer, allowing thermal energy differentials to be stored deep underground.

2 Kinds of Tubing:
- Ethernet
- Water
MAPIQ Office App

The Edge continuously feeds data from building and users

DATA LAKE

Data from the city's smart grids could be used by occupants of smart buildings

CITY OF AMSTERDAM

Weather data
Traffic data
Energy data
Lyon, France

Christian Kerez

2018

6600 m²

8 stories

Office Building
Confluence Îlot A3
Office and Retail Building
Nowy Świat 2.0

AMC – Andrzej M. Chołdzyński

Area: 1084.0 m²

4 100 m² of office

2 000 m² of retail

5 floors

Warsaw, Poland

2015
Thank You!
Bibliography

http://www.plparchitecture.com/the-edge.html

https://www.architectmagazine.com/project-gallery/the-edge_1


http://nowa.amcholdzynski.pl/