can natural lighting shape architecture?

Sebastian Moreno-Vacca
Architect, founding partner of A2M
AIA, Professor at University of architecture ULB (BE)
Director FAAST think tank
moreno@a2m.be

Aline Branders
Architect partner of A2M
branders@a2m.be
we are architects…
A2M

daylight

Symposium

Liters of coffee

Gross surface m²

build
FIFTY SHADES OF GREEN
Luxembourg – Belval office
PH, zero energy, CO2 neutral 21,000 m²
Belgium – Brussels office
PH, zero energy, CO2 neutral  7 596 m²
natural lighting simulation shows that we have a very high average level of Lux. The reflection of the horizontal frame helps to have natural lighting to the central zone. The luminance ratio (Cd/m²) shows a difference less than 1/20.
Portugal - Lisbon
office
PH, zero energy, CO2
neutral 31 000 m²

Canada - Vancouver
residential
PH, zero energy, CO2
neutral 30 000 m²
permacity
5 points of future-proof architecture
5 points of future-proof architecture

- passive house
- net zero energy
- carbon neutral
- autonomous
- regen

www.a2m.be/practices/permacity/
www.a2m.be/practices/cost/
can we regenerate the environment?

Luxembourg - Rout-Lëns mixed use

USA, NYC - Governor’s Island – mixed use

Luxembourg, Belval - sport center

USA, AZ, EI - residential and congress center
France – Paris
"the Reinvent Paris" project
The first Climate Neutral District in France
a complete CO2 neutral development in Paris for ATENOR with EAI, OXO
450 000 m²
A2M daylight symposium district generated with Rhino and grasshopper algorithm
A2M daylight symposium

FOREST of Paris gardens, squares, parcs …

DELTA of 3 017 t CO2/yr
to be or not to be
Shakespeare

to do is to be
Jean-Paul Sartre

do be do be do be do
Frank Sinatra

do it