UNECE Head Quarter for sustainability

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- Project description
- Master Plan
- Concepts
- Building Organization
- Structure
- Façade
- Materialization
- Climate
Project: UNEC (United Nations Environmental Council)
Location: Manhattan, New York

Type: Mixed program, Public and Private
Program: +/- 16,000m²

UNECC IS PRIMARILY FOCUSED ON SUSTAINABLE MEASUREMENTS.
CONTRADICTION PRIVATE & PUBLIC

GOOD SECURITY VS.
EASY ACCESSIBLE FOR VISITORS

SUSTAINABILITY
MASTERPLAN

ANALYSES NY
- Safety on building level instead of plot level
- Breaking the grid system and recover it
- Great green spaces / boulevard
- Replace and reuse of old FDR drive
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- Great green spaces / boulevard
- Replace and reuse of old FDR drive
CONNECT CITY TO WATER FRONT
Urban concept

From the masterplan
• **Replace the old FDR-drive to a safer place**
• **Restore the grid structure of New York**
• **Introduce people from city level to water level**
• **Connect with the green city axe and the new boulevard**
• **Entrance General Assembly is framing the plot**
- Replace the old FDR-drive to a safer place
- Restore the grid structure of New York
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Building concept

M asterplan & Analyses
• **Sustainable Volume (Program of Requirements)**
  • Make a visual connection between the High City & Low Boulevard
  • Separate volumes for program and daylight
  • Lift the building to make a connection with the park
  • Change heights for a better connection between building-city and building-water
  • Enlarge the park on boulevard side
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• Lift the Sustainable Volumes
• Carried by People
• Lift the sustainable volumes
• Carried by people
UNEC United Nations Environmental Council
NEW YORK

Building concept
Program concept

MASTER PLAN, ANALYSES & CONCEPT
CONCRETE JUNGLE  VS.  GREEN BOULEVARD

PRIVATE  PUBLIC
Program Concept

CITY ENTRANCE

BOULEVARD ENTRANCE
PROGRAM CONCEPT

CITY ENTRANCE

BOULEVARD ENTRANCE

Offices
Canteen
Brainstormroom
Meetingroom

Study landscape
Meetingroom
Office

Conference hall
Video conference
Pressroom

Library

Restaurant
Auditoria
Conference hall

Garage employees
Garage delegates
2 ENTRANCES
(VISUAL LINE CITY TO WATER SIDE)

PRIVATE TRANSPORTATION AND PUBLIC TRANSPORTATION
RELATED TO THE VISUAL LINE (CITY - WATER)
WATERFALLSTAIRS

FUNCTIONS ARE RELATED TO THE CITY AND THE WATER FRONT
Building organization

Entrance hall, restaurant, conference hall, study landscape, offices
Structure
Façade
UNEC United Nations Environmental Council

NEW YORK

Facade Approach
Materialization
CONCRETE  GLASS  STEEL  WOOD
- Structure
- Slab
- Elevator & Stair Core
- Facade Elements (Microbeton with insulation)
- Facade elements
- Doors (pivot doors)
• STRUCTURE FOR RINGS AND BRIDGES
• COVERED WITH WOOD
• STAIRS
Climate
• Concrete core activation
  • Heating in winter times
  • Cooling in summer times
• Mechanical ventilation
  • Acoustic panel - suspended ceiling
  • Ventilation shafts in suspended ceiling
  • No beams for ventilation shafts
- Research for solar panels
- Creating energy with plants
- Use of LED lights
- Water filtering
PROGRESSION
• Research for facades!! Different typologies for rings etc.
• Research for structure!! Which structure, and how to make