LOCATION: MANHATTAN (NEW YORK CITY)

The United Nations Environmental Council is will be situated in Manhattan (New York) at the United Nations site. The site is located Eastside of the Midtown district. Although on American territory, the buildings and surrounding area are property of the United Nations and its members. Midtown district, also known as district 6 is New York’s largest business district with more than 700,000 commuters working in its offices, hotels, and retail establishments.

For those who live and work in this district, there’s less than a square meter per person. With 51.5 million domestic and international visitors per year, Downtown and Midtown Manhattan can be considered as hectic areas which can be the cause of stress among most people. For those people and also for a better environment in this neighbourhood there we must consider to use the UN plot as starting point for a greener Manhattan. On this plot a new building will arise. This new building will be the United Nations Environmental Council. The United Nations want to coordinate the global developments on sustainability from a central point. The UNEC will be that central organisation. The building must be a billboard for sustainability in its architecture and technology. The UNEC will collects, produces, propagates and exchanges information on sustainability worldwide, concerning ecological, social and economical sustainability issues.

EXCISTING URBAN CONDITIONS

Filling the gap of the green belt
(By the NYC 2020 greenbelt plan)

Missing connection from to the waterside and a security-risk because of the FDR-tunnel

Lack of existing public and green spaces

STRATEGIES FOR NEW URBAN SITUATION

Reduce car traffic

Connect neighbourhood & waterfront

Extend waterfront and move FDR tunnel

Infrastructure 1st avenue and FDR tunnel

CONCEPT FOR NEW URBAN SITUATION

01. DESIGN LOCATION

Create new pedestrian routes to the waterfront

02. CONNECT CITY TO THE WATERFRONT

Extend the axis of the Dag Hammarskjold plaza over the plot to divide the plot

03. USE GREEN AXIS TO DIVIDE PLOT

Drop down the plot to connect 1st avenue with waterfront with a slope

04. USE HIGHT DIFFERENCE
05. PEDESTRIAN ROUTE 47TH STREET
Create new route along 1st avenue and creating a bufferzone between city and UN plot.

06. CREATING PUBLIC SPACES
Making public patios inside the boundary of the building.

06. USE OF WATER
Creating water elements to connect patios with square and park.

06. USE OF GREEN
Creating new green zones on the plot and waterfront.

01. 1st Avenue
- Bufferzone between city and UN plot
- Zone with a mix of structural green and sitting spots
- Business character

02. Entrance square and patio
- Entrance for the existing and new building
- Open square with water and bridges

03. Tower park and patio
- A mix with green and water
- Relaxing area out of city and into the green
- The water, the green and the building forms an interesting place

04. Waterside park
- Part of the green belt around manhattan
- A pedestrian area with an open view over the East river.
- An informal place with
URBAN PLAN WITH CHARACTERS

01. Route along the 1st avenue
02. Overview over entrance square
03. View over East river to the plot
04. Waterside park (green belt)
05. View along the facade of the UNEC to the Dag Hammarskjold Plaza
06. Birdview over the UN plot

URBAN DESIGN
**Graduation Studio SADD**

by D. Kaatee (1401475)

16280 m² NVO (67% of BVO)  
24420 m² BVO

**Entrance area:**

- Collect: 930 m² NVO (67% of BVO)  
- Produce: 1395 m² BVO

**Propagate:**

- Facilities: 1765 m² NVO (67% of BVO)  
- Exchange: 2650 m² BVO

**Program divided into groups**

- **VISITORS** 24%  
- **TOTAL: 3885 m² NVO**  
- **EMPLOYEES** 43%  
- **DELEGATES** 33%  
- **TOTAL: 5390 m² NVO**  
- **TOTAL: 6850 m² NVO**

**Deviding the program**

**01. DESIGN LOCATION**  
Create new route along 1st avenue and creating a bufferzone between city and UN plot

**02. USING CITY AXIS**  
Creating facade of of building in order to strengthen the axis of the Dag Hammarskjold plaza

**03. KEEPING STRONG BOUNDARY**  
Using plot to create the other facades to keep a strong base

**04. BUILDING ON END OF THE PLOT**  
Create a plinth on end of the plot and create a square between existing and new building

**05. PATIOS**  
Creating public patios to link the building to the public area

**06. SPECIAL ELEMENT**  
Create a special element as a centre of the building

**07. TOWER**  
Creating a tower on corner of the building as a landmark

**08. CREATING GREEN**  
Creating recognizable sustainable elements

**Building Concept**

**Model Study'S**

**Creating Park of Roof**

- Building with Patios and Special Elements
- Create building on corner
- Spread down building all over the plot

**Creating a Landmark on Corner of the Plot**

- Extending existing building

**Creating a Landmark on Corner of the Plot**

- Extending existing building and creating a landmark on corner of the plot

**Division of the Program in 3D-view (security level)**

**Program of requirements**

- Division of the program for different users

**Architectural Design**
IMPRESSIONS

View on east facade

Own identity facade in entrance patio

Conference hall

View to presenter council chamber

South facade with exceptions in facade

View on corridor

View along the south facade to the plot

Birdview over urban and building design

Corridor zone with meeting zone on the patio facades

ARCHITECTURAL DESIGN
01. Plinth
- Two story high vertical element on the dividing the northern border of the UN plot

02. Functions
- Entrance
- Meetingrooms
- Exposition area
- Auditoria
- Hallway around the patio’s

03. Structure
- Steel column and beamstructure with concrete slimline floorsystem

04. Facade
- Vertical shading fins
- Horizontal bands
- Vegetation on roof

01. Cone
- Column and beamstructure with concrete slimline floorsystem

02. Functions
A - Council chamber
B - Large auditorium

03. Structure
- Steel column and beamstructure

04. Facade
- Coper faced
- PV-cells on roof

01. Tower
- Vertical 22 story high element

02. Functions
- Library
- Kitchen/ storage
- Offices
- Roof terrace

03. Structure
- Concrete column and beamstructure with concrete slimline floorsystem

04. Facade
- Second skin facade with Colored panels
ARCHITECTURAL DESIGN