A “Billboard” on 1st Ave

----UN headquarters for sustainability
Review of Research
Starting point

food

water

energy

green
Starting point

- Question from the beginning:
  
  if architecture wants to talk, how could that be?
Highlights
The shape
council chamber
interior space
The new building is right facing the General Assembly from a distance in a way to respect U.N. headquarters and preserve an open space in between so that visitors have perfect views of everything.
A triangle shape connects the existing platform and eventually become something new.
Council chamber

The hardcore behind the scene
Interior space

Power of architecture: a message of how determined we are!
Program

entrance
visiting routing
functions & departments
Program

Delegates’ route

2nd level---enter council chamber
Program

public & employee entrance

one entrance for two buildings
Program

public visiting route

Entrance hall

exposition

Council public gallery
Program

Function arrangement

5th level: offices

4th level: booth

3rd level: press gallery

2nd level: council chamber, storage, toilets,

1st level: reading rooms, library, info desk, lockers, toilets, wardrobe

Ground level: entrance hall(public), safety control, info desk, card distribution, wardrobe, lockers, storage, office, toilets, auditorium, exhibition space, shop, bar, delegates’ lounge, meeting rooms, workshop, ICT, facility management...

Basement level: auditorium, product space, archive storage, canteen, kitchen, storage, facilities(cleaning)
Building technology

structure design
climate design
choice of materializations
Façade
Building Techniques

Structure design
Building Techniques

Structure design
Building Techniques

Structure design
Building Techniques

Structure design
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Structure design

40mm cladding panels (300mm*300); dark grey polished surface; light weight prefabricated concrete panels fixed to structure by adjustable steel fasteners, air space (180mm).

1.5mm waterproof

150mm board insulation

200mm hollow core prefab concrete panel

acrylic covering panel

section C slab supported by cable structure 1:30
Building Techniques

**Integrated climate design**

thermal mass & heat storage

cold water: rainwater, gray water, ground water,

warm water: passive solar heating, "computer room"
Building Techniques

Integrated climate design
thermal mass & heat storage
Building Techniques

Integrated climate design
thermal mass & heat storage

short term----day time
Building Techniques

Integrated climate design
thermal mass & heat storage

short term----night time
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Integrated climate design
thermal mass & heat storage

long term—summer

warm water tank: 13320 m³
cold water tank: 3552 m³
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**Integrated climate design**
thermal mass & heat storage

long term---autumn
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Integrated climate design
thermal mass & heat storage

long term---winter
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Integrated climate design

air circulation

cross section A-A
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Integrated climate design

air circulation

section B-B
Building Techniques

choice of materializations

contrast between heavy and light

0.1000

0.3000
Building Techniques

choice of materializations
Building Techniques

Facade
Building Techniques

LEDs----tools for broadcasting
“Signs inflect toward the highway even more than buildings. “