A revitalization through the transformation of the former power plan of The Hague
MY FASCINATION

ART

PUBLIC BUILDING

INDUSTRIAL HERITAGE
case selection

vacant buildings
architecture comprising huge spaces
built before 1950
first impression
first findings
case introduction
CONTENT

ANALYSIS
  urban
  architectural
PROBLEM STATEMENT
MASTERPLAN
THE PROGRAM
DESIGN
  POINTS OF DEPARTURE
  CONCEPT
  BUILDING PARTS
    . the street
    . central hall
    . expo hall
    . museum floors
    . hotel
TECHNICAL DESIGN
ANALYSIS
urban qualities & issues
urban qualities & issues
urban qualities & issues
urban qualities & issues
- morphology-
urban issues
- paths-
-linking paths of non motorized traffic-

link to city center

link with neighbourhood

connect area's

historical centre

the power plant
MASTERPLAN

- park
- waterfront
- square
- new building blocks
MASTERPLAN

park

waterfront

square
architectural qualities & issues
- complex -

Actual building complex
architectural qualities & issues
- facades -
architectural qualities & issues
- facades -
architectural qualities & issues
- facades-
architectural qualities & issues
- construction -
architectural qualities & issues
\- construction-
VALUE ASSESSMENT

**urban**
- water, tram and road
- landmark function
- open space

**architecture**
- large windows
- large dimension hall
- blind facades
- secondary buildings

**building technology**
- large steel structure
- old machine hall
PROBLEM STATEMENT & STARTING POINT

building for machines

factory scale

new program for people

human scale

The new historical experience

factory scale & human scale
PROGRAM CHOICE

new program

personal building context city → new program
FURTHER ANALYSIS THE HAGUE

FEATURES
Despite the city is known as a bureaucratically city:
- Former **industrial city**, important part of the history of The Hague.
- **Tourist city** nr.2 of The Netherlands

AMBITIONS
- Wants to invest extensively in attracting more tourists to the city
  The government wants to increase the tourism of The Hague until 2020 every year with 3 percent and increase the overnights in hotels with half a million.

  To achieve this ambition:
  - organize **annual events**
  - invest in more **tourist attractions** in the city
  - hop on hop of busses

TREND & DEVELOPMENT
Focus on the **creative sector** -> Creative City The Hague.
  The creative city will be a link between the creative industry and the client:
  The creative economy.
new program:

**MUSEUM**
- HOTEL
- MEETING ROOM
- LOUNGE HOTEL
- RESTAURANT
- CINEMA
- BAR
- STUDY PLACE
- LIBRARY
- SHOP
THE PROGRAM

foto kleine maquette
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<th>06:00</th>
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Modern Art
Art about history of The Hague
Artworks between 1400-1900
Photography
Modern Sculptures

existing

Modern Art
Art about history of The Hague
Artworks between 1400-1900
Photography
Modern Sculptures

missing

Contemporary Art: ?
FACILITIES THE HAGUE

-hotels-

Hotels in the Hague
Medium size & medium price
Small size & small price

existing

missing

more personal and small hotels
with a special experience
MUSEUM OF CONTEMPORARY & MODERN ART

PERMANENT EXPO
TEMPORARY EXPO
EXPO HALL
SCULPTURE ROUTE

COLLECTION
Large value of art hide away in depots

DEPENDANCE OF....
Large value of art hide away in depots

Tate modern
- THE museum of modern & contemporary art of the UK
- Also former power plant
PERMANENT COLLECTION

SELECTION OF ARTWORKS

paintings, drawing, sculptures, installations

contemporary & modern art: abstract, expressionism, minimalism
Olafur Eliasson, Your double lighthouse project
DESIGN
POINT OF DEPARTURE

general

relation with direct context
entrances at more sides
blind facades
secundary buildings
POINTS OF DEPARTURE

factory scale

large dimension hall

large steel structure

human scale

integrate
assemble activities
open up
invite
SPATIAL CONCEPT
SPATIAL CONCEPT
SPATIAL CONCEPT
DESIGN

PRESERVE                                   <                          >                      RENEW

STREET   EXPO HALL   CENTRA HALL  OTHER PUBLIC SPACES   MUSEUM    HOTEL

ANALOGY           <                       >              CONTRAST

_STREET
_CONNECTION AREA
_INDUSTRIAL AMBIANCE
_OLD STRUCTURE
ROUGH MATERIALS
_CONCRETE
STEEL
_VIBRANT SPACE

_EXPO HALL
_FREE ENTRY EXPO HALL
_INDUSTRIAL AMBIANCE
_MAXIMUM HIGHT
_OLD ROOF TRUSSES
_OLD WALL with openings

_CENTRAL HALL
_CENTER POINT
_LIGHT, BRIGHT SPACE
_INDUSTRIAL OLD ROOF
_GLASS ROOF
_LIGHT MATERIAL
.Floor Tiles
_WALLS

_OTHER PUBLIC SPACES
_OLD STRUCTURES
_BIG WINDOW OPENINGS
_NEW WALLS

_MUSEUM
_NEW MINIMAL EXPOSACES
_OLD STRUCTURE
.NEW WALLS, FLOORS, PLAFOND
_MATERIALS
_inside
_ANALOGY KIND OF MATERIAL
_CONTRAST FINISH OF MATERIAL
outside
_ANALOGY RED STRIPE
_CONTRAST CONCRETE FACADE

_HOTEL
_NEW EFFICIENT VOLUME
_FACADE PERFORATES STEEL
- CLIMATE CONTROL
- ANALOGY WITH COLOR
- CONTRAST WITH MATT BRICK
CENTRAL HALL
OTHER PUBLIC FUNCTIONS

ground floor

first floor

multi functional

museum shop

depot

restaurant

office

study/library

museum workshop

museum café
OTHER PUBLIC FUNCTIONS
Art versus Architecture

= start of my museum design.

Art has to be the main subject in the space the architecture is the decor
BUT the spaces need to have a certain architectural quality

- variation in spaces
- interesting light design
- rest points

MUSEUM
MUSEUM
-the artworks-
MUSEUM
- the artworks-
MUSEUM
- route-

ground floor museum wing/
MUSEUM - route-
HOTEL
-floorplans-
HOTEL
-emphasize entrance zone-

[Image -1x-1 to 1191x843]
HOTEL
-perforated steel panels
TECHNICAL DESIGN
-structure-
Three important values

- Light intensity: lux
- Relative humidity: RH
- Temperature: T
**TECHNICAL DESIGN**

- *climate system*

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<th><strong>Recommended for Museum The Netherlands</strong></th>
<th><strong>Requirements Tate Modern</strong></th>
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<td><strong>T</strong></td>
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<td>fluctuation = 2 K</td>
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<tr>
<td>seasonal fluctuation = -10 + 5 K</td>
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**Diagrams**

- Temperature
- Relative Humidity
TECHNICAL DESIGN
-all air system-
TECHNICAL DESIGN
-all air system-
TECHNICAL DESIGN
-all air system-

conventional

Baopt system

Benefits:
- energy reduction
- 100% mixing air
- flexibility of air in- and outlet
- draft-free
TECHNICAL DESIGN
-sustainability-

WKO
pv cells
green roofs
CONCLUSION

-vergelijking met oude situatie
tekening werking nieuwe gebouw.
THANK YOU FOR YOUR ATTENTION