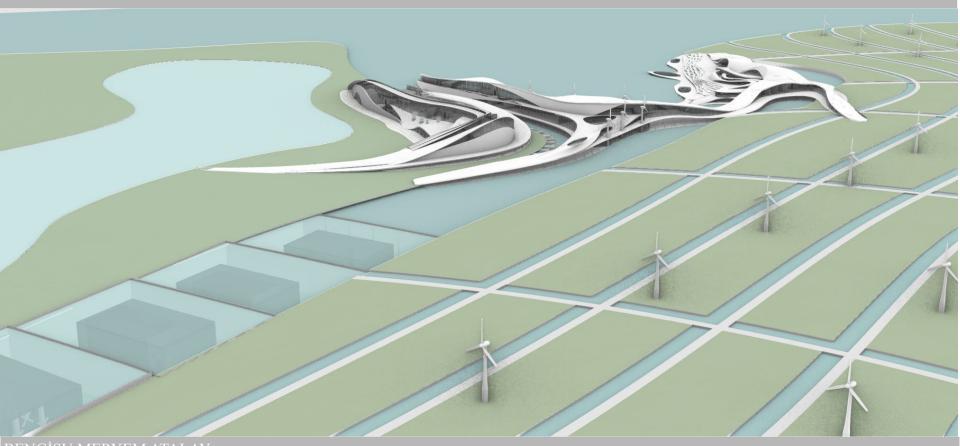
SELF SUSTAINABLE CITY HUB PROPOSAL HONG KONG: KAI TAK



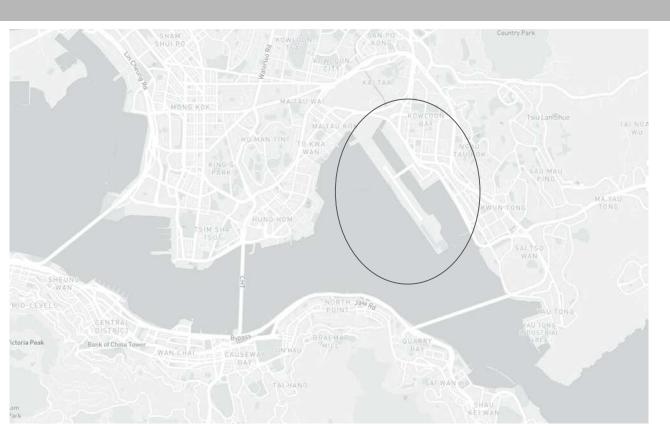
CONTENTS



- ABOUT THE SITE
- CASE STUDIES
- SCENARIO
- SUSTAINABILITY
- MASTER PLAN DESIGN
- SUSTAINABLE STRATEGIES
- ELEVATIONS
- SITE PLAN
- SECTIONS
- PLANS
- STRUCTURE
- RENDERS
- CONCEPT RENDERS
- BIBLIOGRAPHY

INTRODUCTION





Kai Tak was located **on the east side of Kowloon Bay in Kowloon, Hong Kong**. The area is surrounded by rugged mountains. Less than 4 km (2.5 mi) to the north and northeast of the former runway 13 threshold is a range of hills reaching an elevation of 2,000 ft (610 m).





Declared as the sixth most dangerous airport in the world, Kai Tak served as Hong Kong's airport from 1925 to 1998.

Landings over densely populated Kowloon were spectacular and involved a complicated last-minute manoeuvre known in the piloting community as a 'Hong Kong turn' or 'checkerboard turn', after the checkerboard reference point above Kowloon Tsai Park.



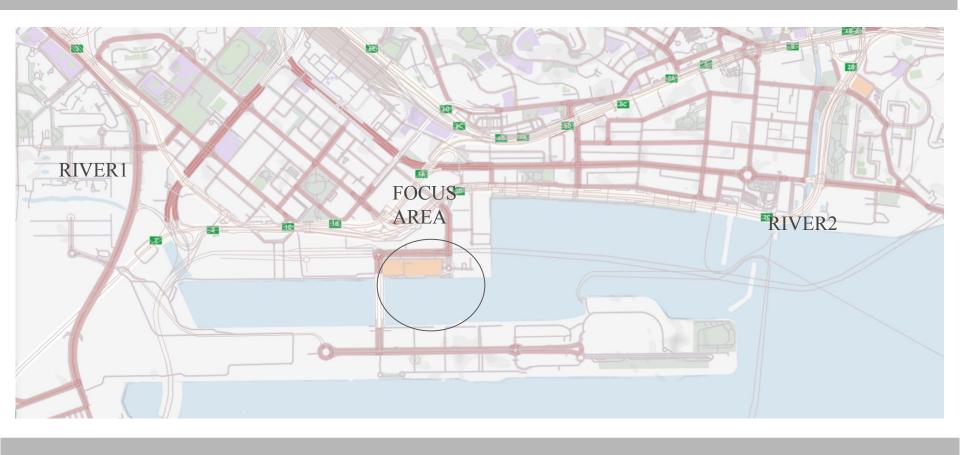


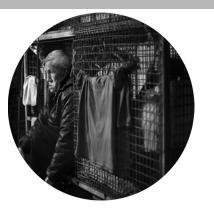
By the 90s, booming Hong Kong was outgrowing Kai Tak's limited capacity. The airport was designed to handle 24 million passengers per year but, by 1996, Kai Tak was handling 29.5 million passengers, plus 1.56 million tonnes of freight, making it the third busiest airport in the world in terms of international passenger traffic.

Night flight curfews, Kowloon building restrictions, pollution and noise forced the colonial government to seek an alternative location to replace the ageing airport.

A new airport at Chek Lap Kok, Lantau opened on July 6th, 1998. Meanwhile, at Kai Tak, a small ceremony celebrating the end of the airport was held inside the control tower after a final Cathay flight from Kai Tak to Chek Lap Kok took off. A speech was given, and the controller's famous last words as he switched off the runway lights were "Goodbye Kai Tak, and thank you".













Dirty water and ecosystem

Poor people around Hong Kong

Social discriminitaion:no common culture

Loss of identity: aggressive environment

All food is imported, no production

Nice climate conditions

139 bird type, varied ecosystem



CASE STUDIES



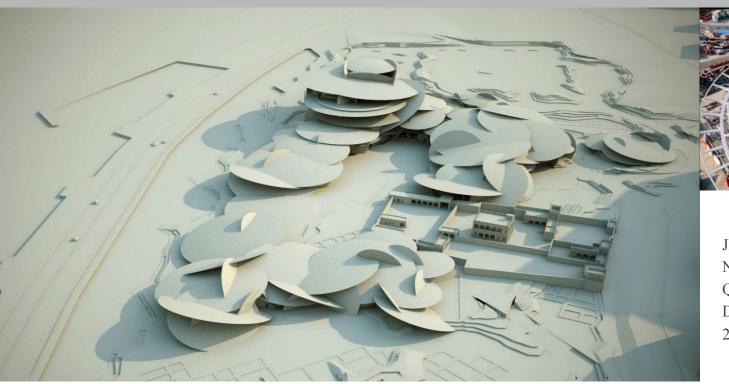


ZAHA HADID BEEAH HEADQUARTERS

ZAHA HADID HEYDAR ALIYEV CENTER

FORMAL AND STRUCTURAL INSPIRATIONS

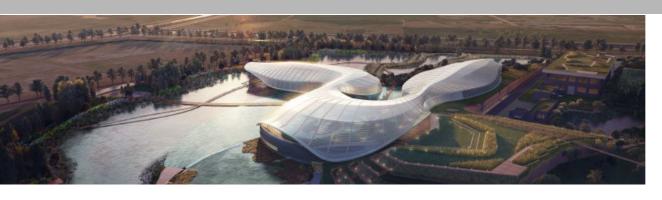
CASE STUDIES



JEAN NOUVEL NATIONAL MUSEUM OF QATAR Doha, Katar 2019

FORMAL AND STRUCTURAL INSPIRATIONS

CASE STUDIES



ENNEAD ARCHITECTS-Ya ngtze River Estuary Chinese Sturgeon Nature Preserve

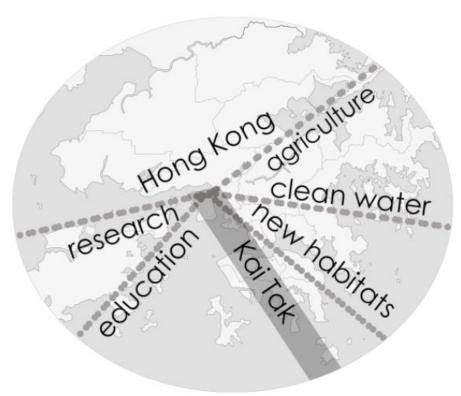


FORMAL AND CONCEPTUAL INSPIRATIONS

SCENARIO ON THE HUB



SCENARIO ON THE HUB



Target Group:

Visitors (explore-learn-inspire)

Students (explore-learn-inspire-utilize center)

Researchers (deep research-utilize center)

SUSTAINABILITY IN TERMS OF

Economically

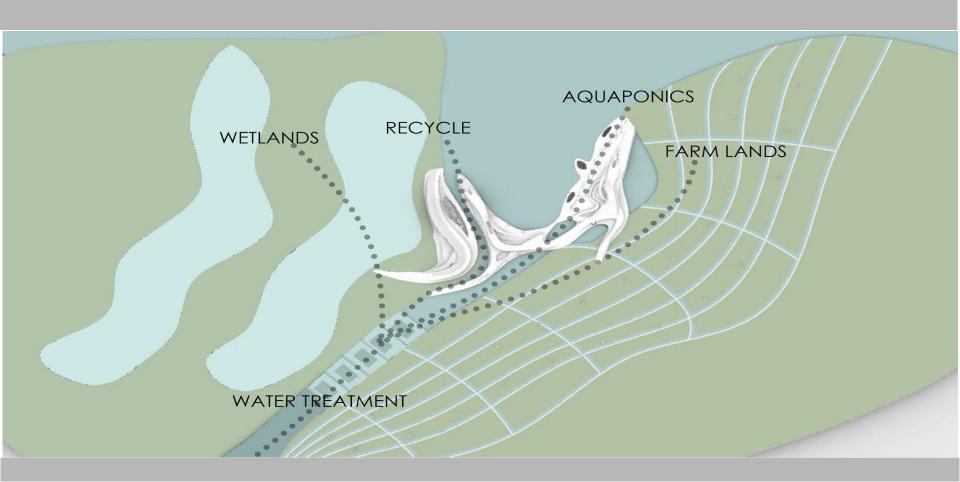
Socio-culturally

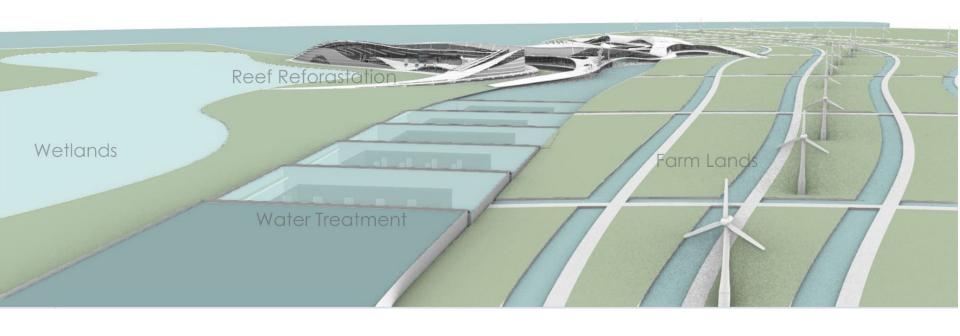
- Seed Library
- Workshops: agricultural,recycling,cultural
- Labs: experimental, computer, planting, genomic, farming systems
- Educational areas:seminar rooms, library, lecture halls
- Recreational halls
- Bazaar
- Farming Lots

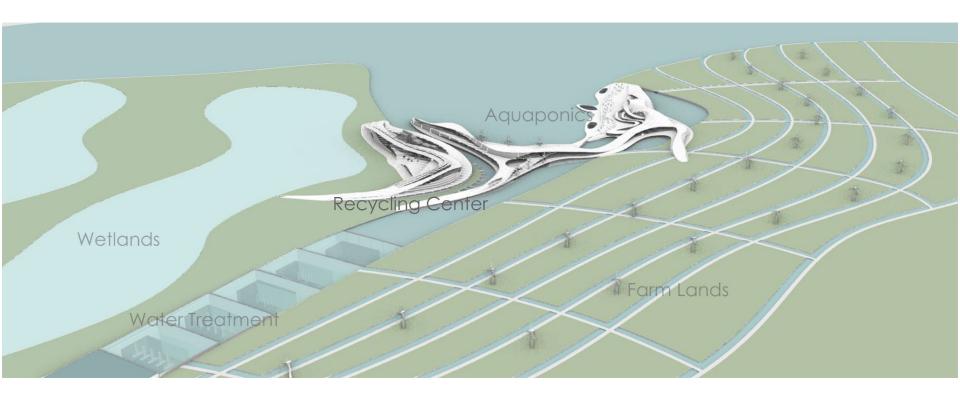
Environmentally

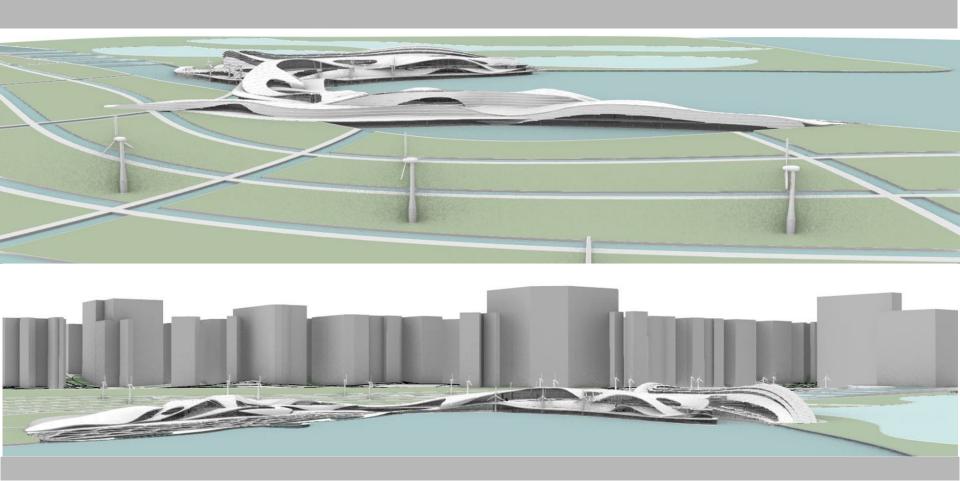
Functionally

- Research Labs: climate change, water treatment,
- Reef reforestation, recycling, energy conservation,
- Under-marine research center
- Aquaponic systems
- Water treatment systems
- Energy conservation systems
- Recycling systems

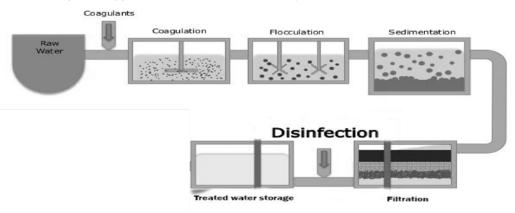


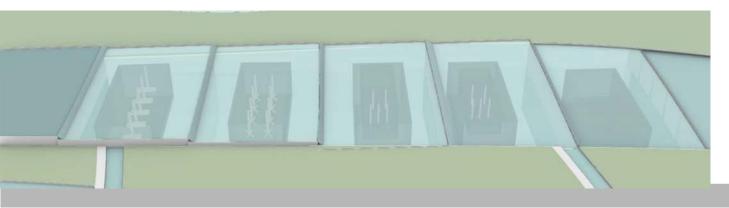




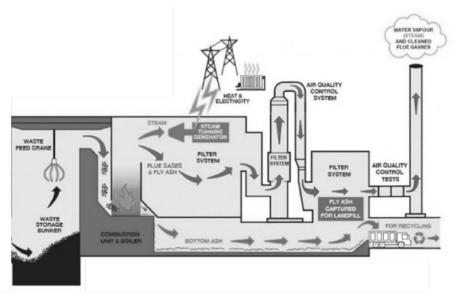


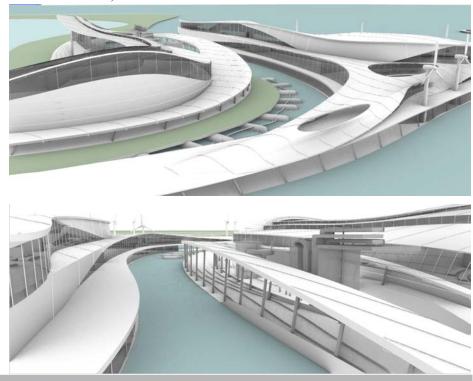
1-RIVER WATER TREATMENT





2-ENERGY FROM WASTE IN THE RIVER(VACUUM SYSTEM TAKES THE PLASTICS FROM THE RIVER TO THE BUILDING AND THEY ARE RECYCLING IN THE RECYCLING PLANT)

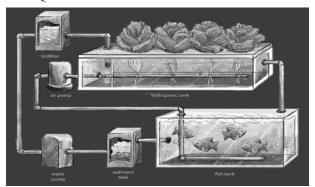




3-REEF REFORESTATION



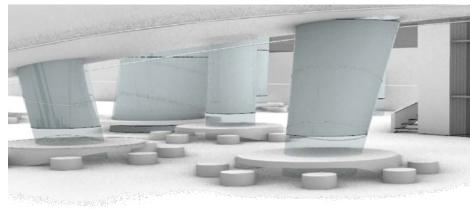
4-AQUAPONICS

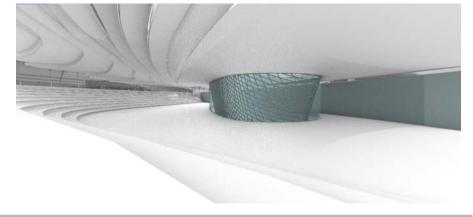


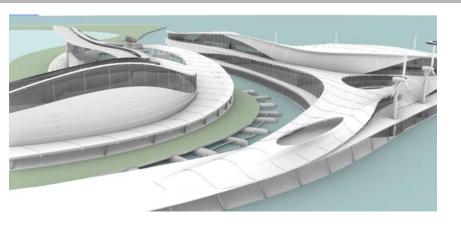
5-WIND TURBINES 6-TIDAL TURBINES



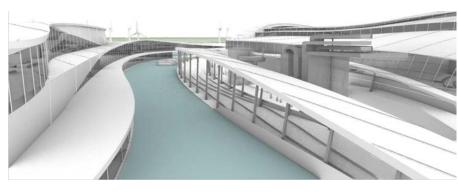






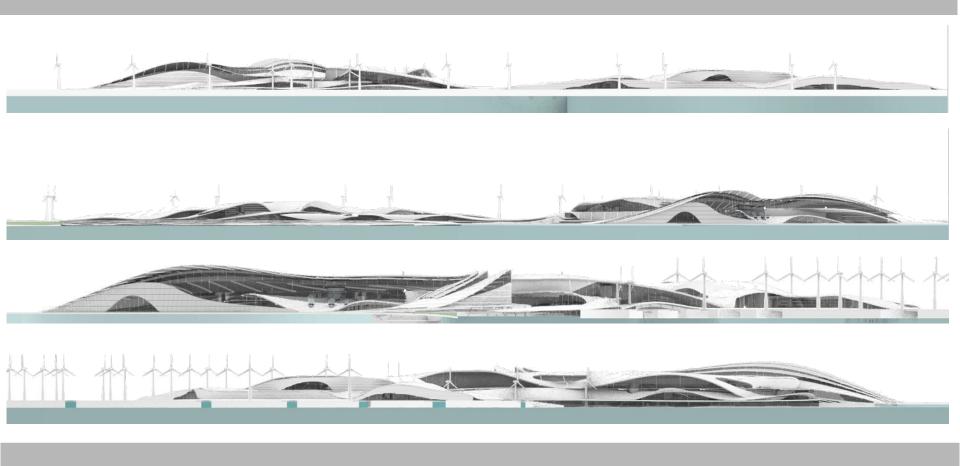




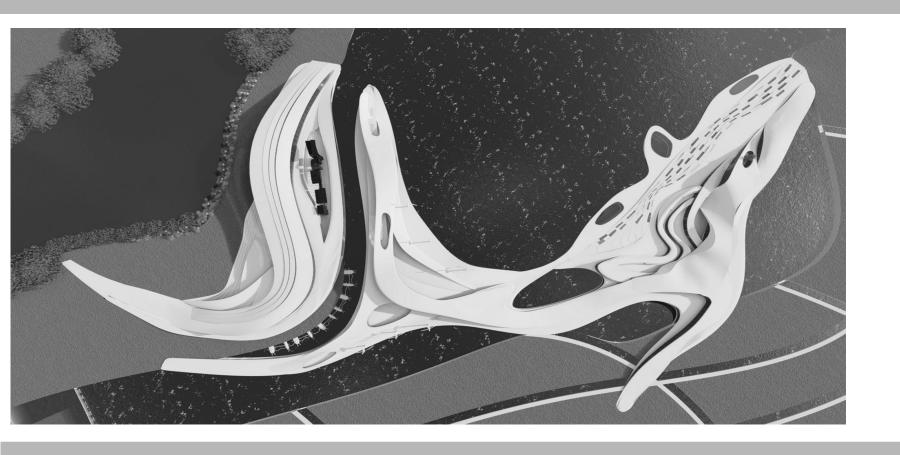




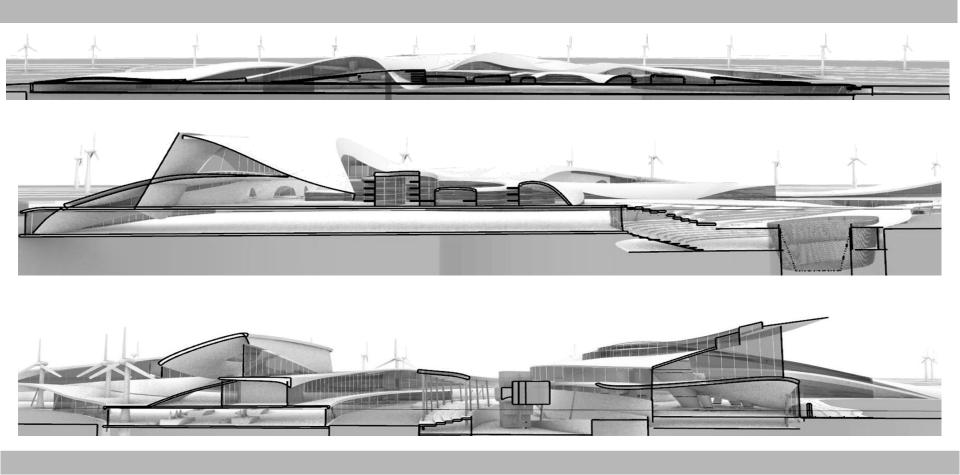
ELEVATIONS



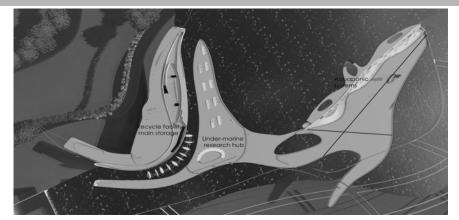
SITE PLAN

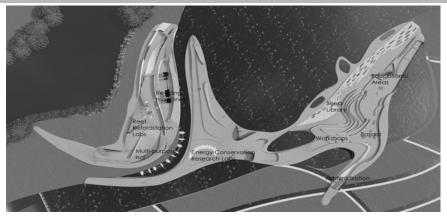


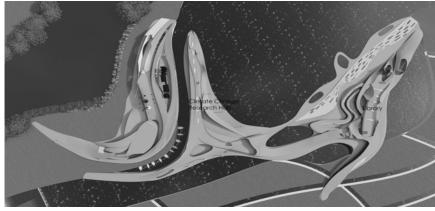
SECTIONS



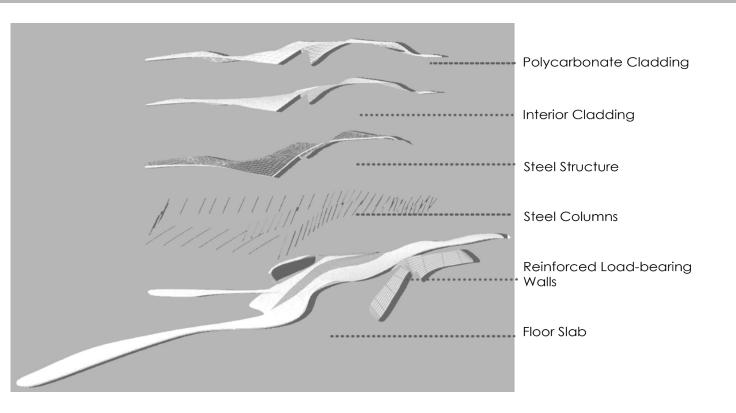
PLANS







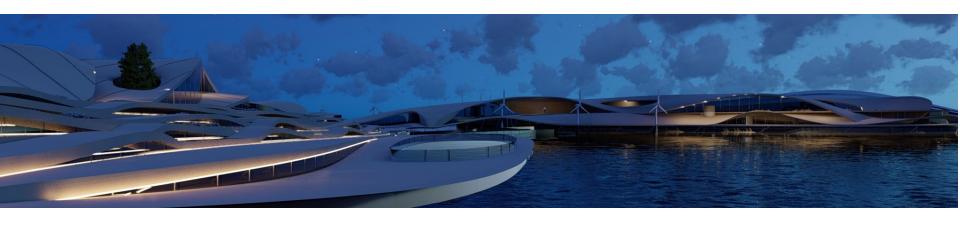
STRUCTURE



RENDERS



RENDERS-NIGHT VIEW



RENDERS



RENDERS



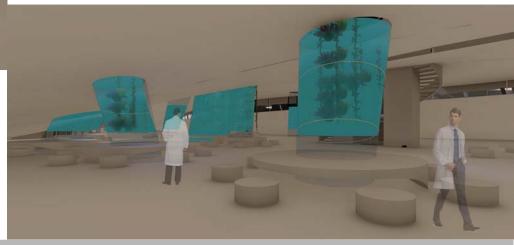


RENDERS-WETLAND RESEARCH CENTER



INTERIOR RENDERS-LIBRARY AND REEF REFORESTATION





INTERIOR RENDERS-LAB AND INTERIOR AMPHI



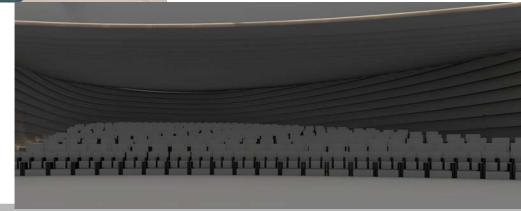


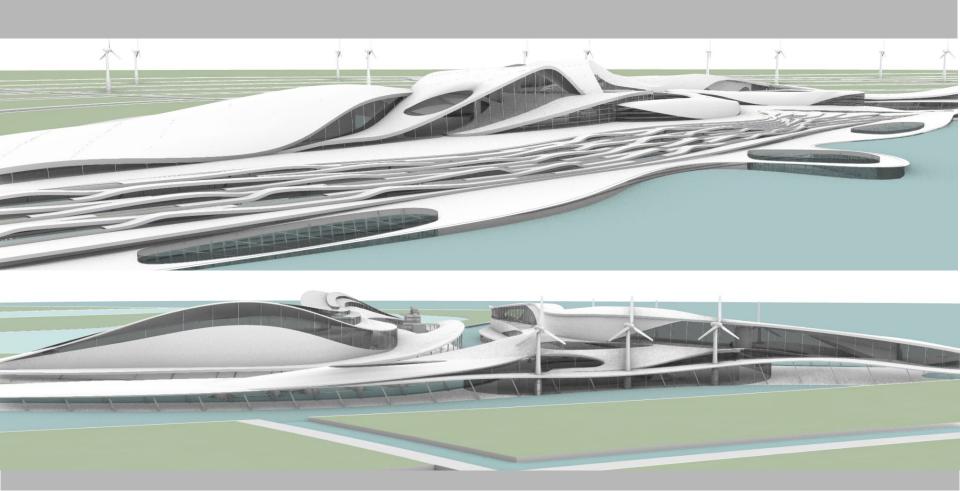
INTERIOR RENDERS-RECYCLING PLANT

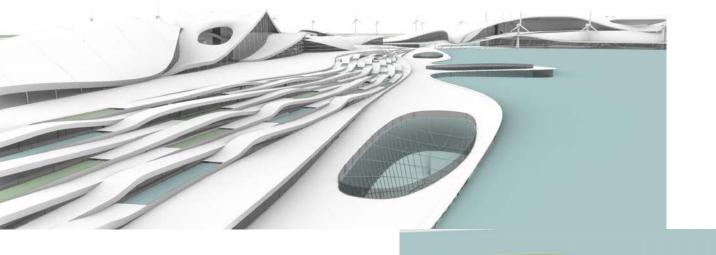


RENDERS

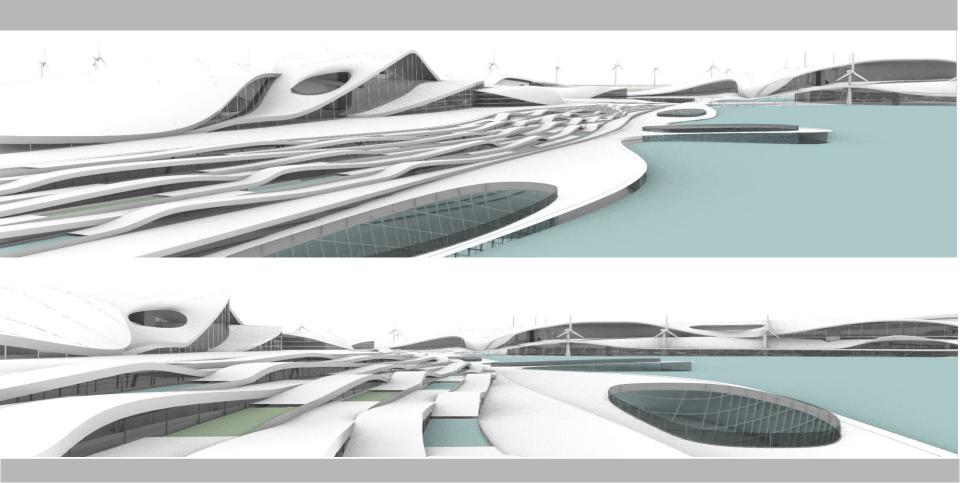


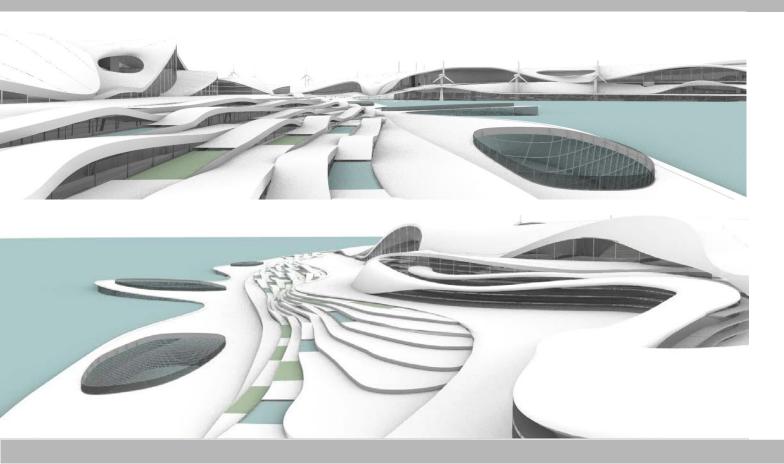


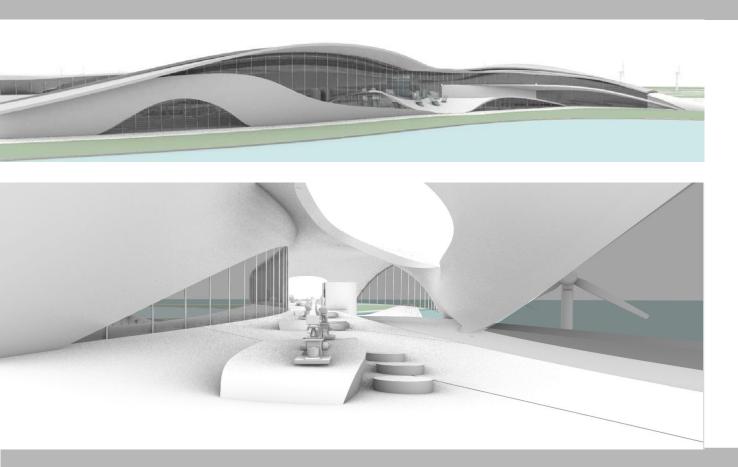












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