THE ANATOMY OF FLOATING

The ocean offers a new frontier for our housing needs. Below we're taking a glimpse at how floating city technology works, what features shape them, and how they might benefit our urban future

BENEFITS OF A **FLOATING CITY**

The design of a floating city has **smaller carbon** footprint and provide key benefits



Alternative housing

Renewable energy

Climate change solution

HOW FLOATING CITY WORK

A floating city is a self -reliant community built on water



Hexagonal platforms

Hexagons can cover a large area while minimizing the use of materials.

Modular construction

Interlocking platforms are designed to be reconfigured and moved.

Pontoon structures

Platforms are filled with air to provide buoyancy to the platforms.

Renewable resources

Energy will be drawn from the ocean, rain, wind, humidity, sun, and waste.

Low-rise buildings

Architecture lowers the city's center of gravity to resist winds.

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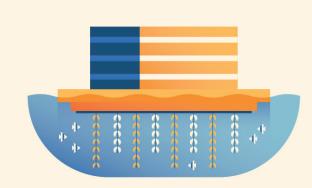
Breakwaters

Structured barriers shelter city from rougher waters and waves.

WHATS INSIDE A **FLOATING CITY**

Each plateform is dedicated to a specific function that helps sustain the city.

FOOD



3D ocean farming

Vertical underwater habitats grow food and clean ocean waters.

Farms

A system of aeroponic and aquaponic systems help grow organic produce.



Biorock reefs

regeneration, hurricane defense, and

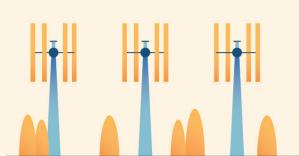
Man-made structures provide habitat an ecosystem for seafood.

ENERGY

Solar panels

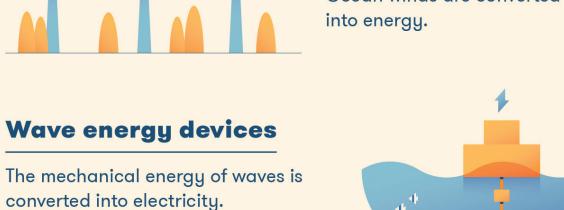
Light is collected on building tops to provide 20% more clean power.



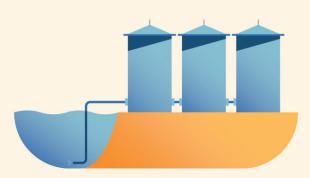


Vertical wind turbines

Ocean winds are converted



WATER



Renewable desalination

The system uses solar and wind power to make saltwater drinkable.

Dehumidifiers

Atmospheric moisture is collected and purified for later use.





Wave converters

Wave energy is transformed into heat energy.

Treatment centers

Wastewater is treated for later use instead of being released as pollution.





Heat exchange

Cold and warm water from the

ocean can be used for HVAC systems.

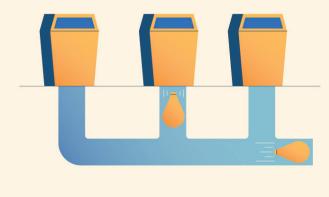


Public collection

Rainfall is gathered through atmospheric water collectors, rooftops, and weather tiles in public areas.



ZERO WASTE



Waste collection

Pneumatic chutes collect reusable items, recyclables, returns, laundry, and food waste.

Washing centers and digestors

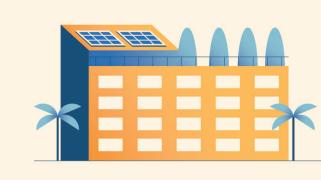
All waste can be converted into repurposed items or compost.



Exchange hubs

Treated items are gathered from waste for community sharing.

DESIGN



Open rooftops

Fan-like design is used to self-cool and provides room for solar panels.

Shared mobility

Shared roadways and service centers accommodate electric vehicles, robots, bikes, and pedestrians.





Mixed-used spaces

living, working, and gathering.

Close-knit hexagons

Design allows for 60% of trips to be made with eco-friendly transportation.

Each platform provides a space for

Local materials

Building materials are sourced locally to create durable and carbon-negative infrastructure.

Net-zero design

A system of solar protectors and cross ventilation simplifies building cooling systems.



Sources available at: