SHOCK THERAPY

Copenhagen has ambitious plans for adapting and preparing for the effects of climate change. Shock therapy proposes not only a network of energy generation through wind power, but also an additional layer of protection against storm surges, habitat restoration of the marine environment, and sequestration of carbon dioxide by growing concrete in the sea with a small electrical charge.

Boat Launch and Viewing Platform

The site at Refshaløen serves as a launching point for visits to the wind reefs. The gentle slope of the boat ramp amplifies the effects of sea level rise. Wind rippling the Danish flag generates 12 watts per hour- enough to power an electrolysis demonstration along the sea wall.

CO2

Larger Storm Events

Scientists predict larger and more frequent storms- resulting in more frequent floods and damage.

Sewer Overflow

High rainfall levels and more frequent major storms will lead to more sewage in the harbor, causing eutrophication.

Dirty Energy

Denmark still relies on coal, gas, and oil for the majority of its energy needs.

THREATS

Clean Energy

Each turbine will power 5000 of Copenhagen's residents.

Expand Recreation

Attracted by flourishing marine life, Danes will finally be able to scuba dive right in

Bolster Marine Ecosystems

Marine electrolysis improves the resilience of corals and shellfish.

Purify Harbor Water

Mussels and oysters act as

SHIPPING LANE

PROPOSED

WIND REEF

PLANNED DIKE

Mitigate Storm Surges

Reefs dissipate the force of waves while turbines slow winds.

EXISTING

TURBINES

MIDDELGRUNDEN