Aquatic Centre Rotterdam

The aquatic centre lies at the north side of the quarantine island. The volume is orientated as a cuboid in front of the beach, which gives a visual connection between the visitors on the beach and the visitors with the building. The aquatic centre is a facility with a bathhouse, swimming pools and the ability to surf on a mechanically induced wave, that connects with humanity's fascination with water.

The design is clean and geometric with a sense of anticipation that is created because of the contrast between the outside and inner world.

With water being the most important ingredient of the design the main question is how to deal with the enormous energy consumption the typology of this function brings with it.

The three functions that are renowned for their energy demands meant that an in-depth research into green energy was done into using the building as a rechargeable battery to obtain as much energy as possible to obtain, sustain and give it back to the building and in this manner reduce the energy demand.

Dayanara Aimée Franken
Graduated 01-02-2012

PUBLIC SPACE

The existing piece of nature is very secluded.

GREEN

Expand the natural scenery over the full area.

SWIMMING

Extend the beach and create a boulavard to enhance the swimming area.

VISUAL CONNECTION

Improve access and pedestrian routes for the area.

Dayanara Franken
info@dayanara.nl
Lab Architectural Engineering - graduation 01/02/2012

BUILDINGS AS AN ENERGY SOURCE

Routing through temperature

BUILDING IN LOCATION

- Swimming water
- Boulevard
- Access
- Light rail