Ram wave energy harvesting system AIVOne V1

This is a presentation of a more realistic implementation of the Ram Wave Energy Harvesting System

Componets of the ram wave energy harvesting system

- Harvesting wall

  - Energy of the waves is harvested and delivered as water under pressure

  - Main component is Ram wave energy harvester.

- Main accumulator

  - Maintains a steady flow of water under pressure

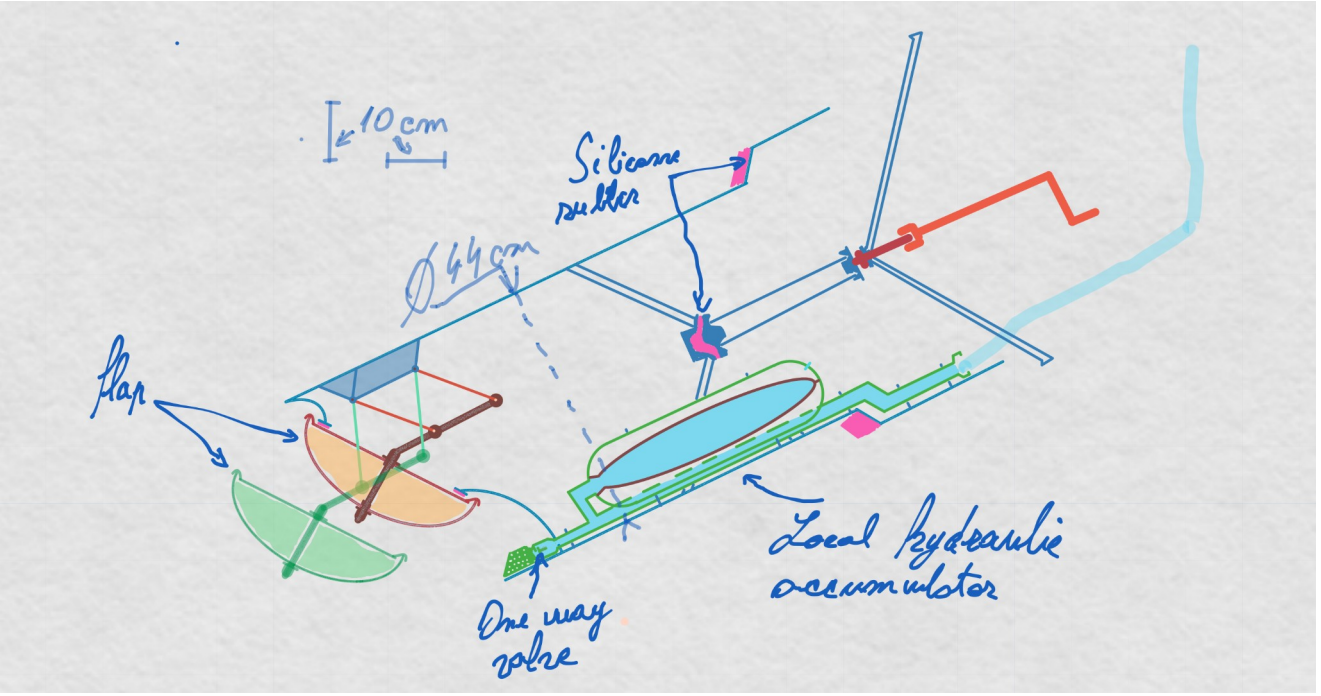
- Energy conversion zone is where energy is converted as:

  - Electricity using a water turbine generator.

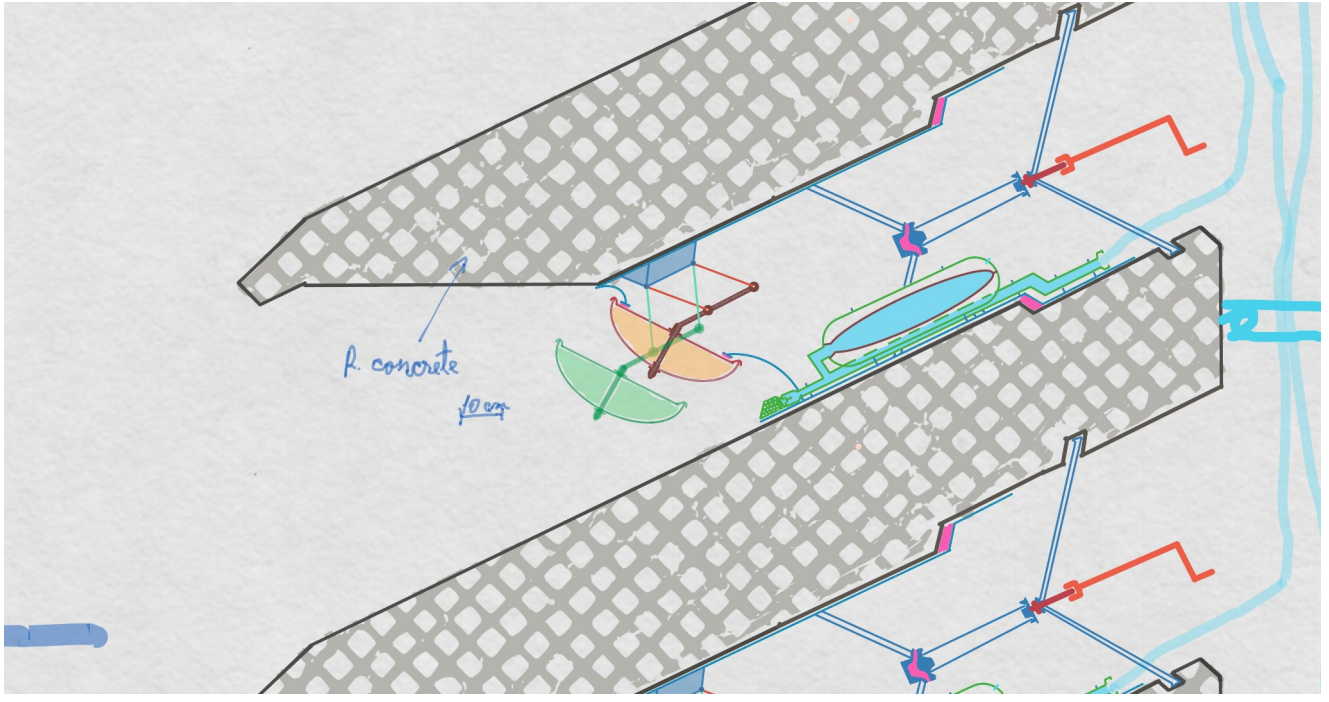
  - Fresh water directly from pressured water

  - Stored for later use in an elevated water reservoir

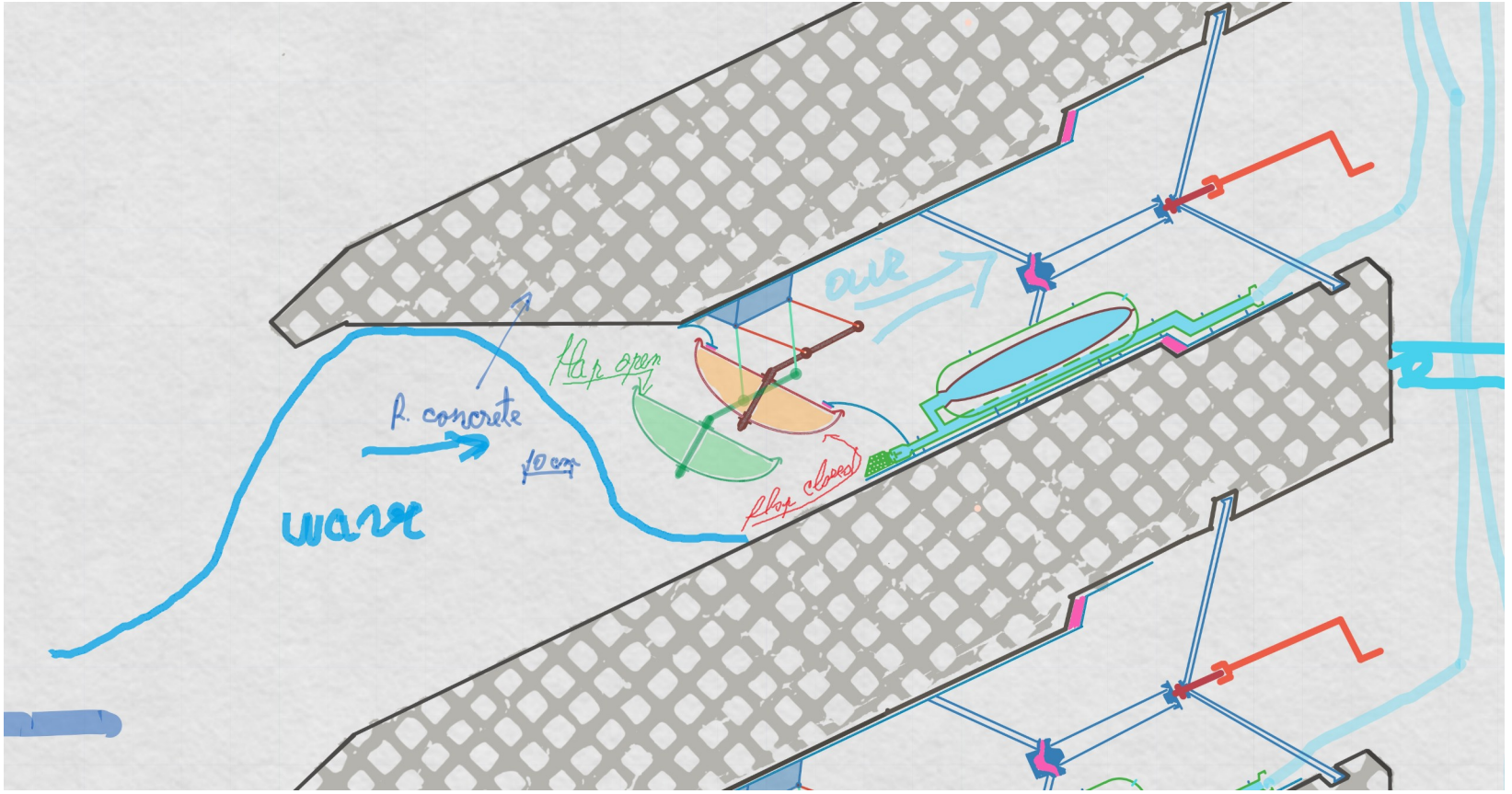
This is Ram wave energy harvester. Is the main part in Ram energy harvesting system, it is cylindrical in shape, it is inserted in a special shape slot in the harvesting wall.



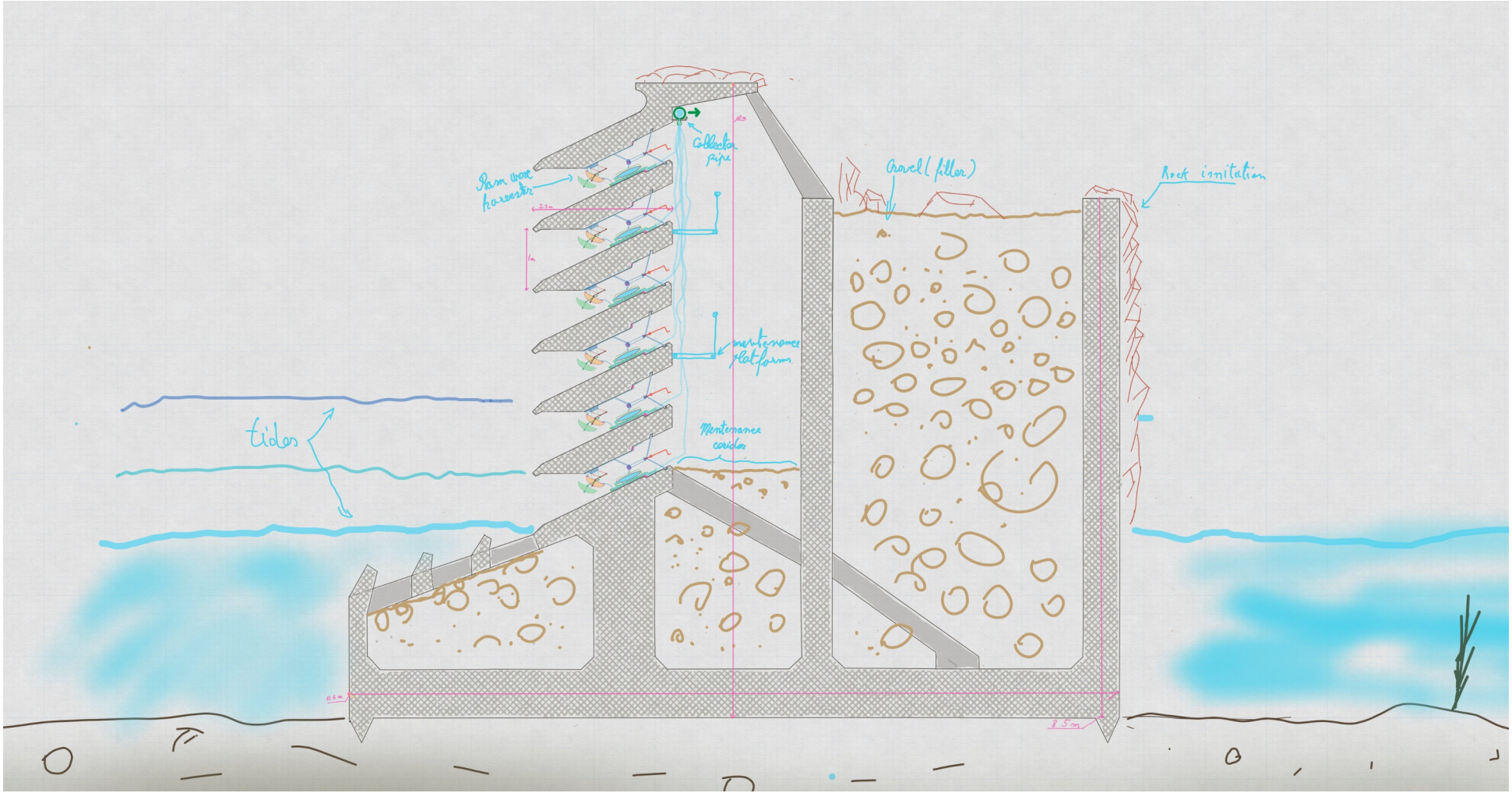
Close up of the harvesting wall

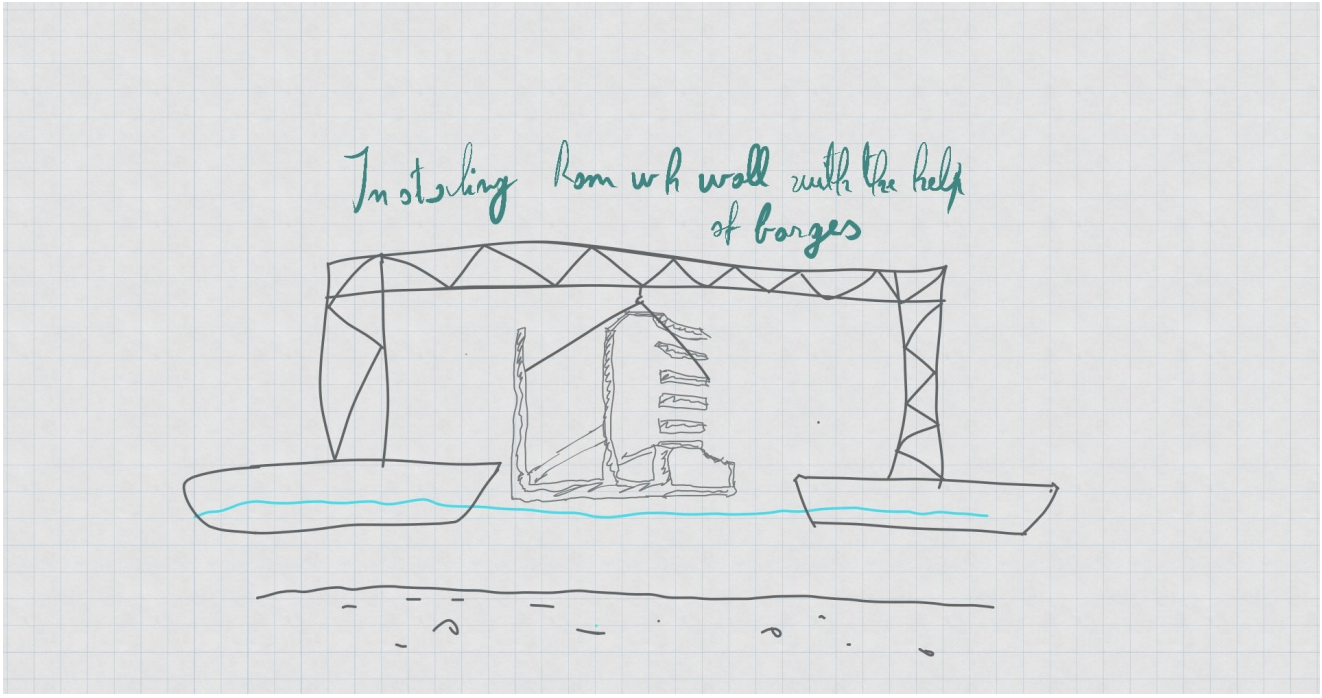


The wave is guided by the slot in the harvesting wall creating an water piston, the air escapes through the harvester because the flap is open. When the wave reaches the harvester it will close the flap. Not having where to go and because of the inertia, slams in the end creating a spike in pressure and pushes water through the one way valve in the local hydraulic accumulator. Now the accumulator being charged will push water under pressure towards the harvesting system.

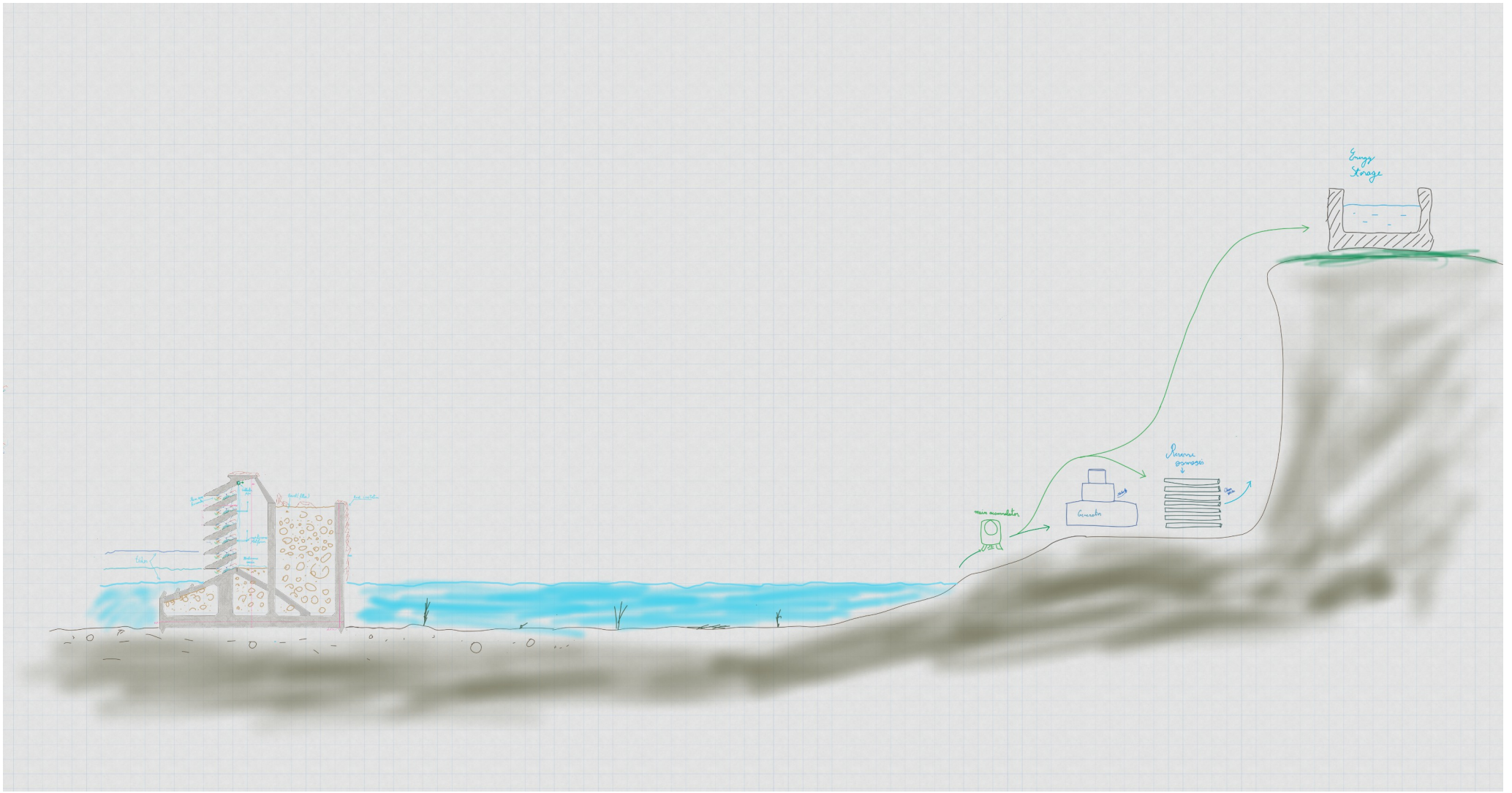


Harvesting wall




Installing Ram wh wall with the help
of barges

Harvesting wall installed as a breakwater


Energy
Storage
Reserva
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Generator