Title

Marineterrein Bathhouse: Re-imagining energy producing public social space

Problem Statement

Historically, waste management has been pushed to the periphery of the city. However, with an influx of people moving to the city, Amsterdam is expanding rapidly. The city is looking towards a circular city approach in order to share knowledge and resources to create less wasteful systems.

Simultaneously, the Marineterrein is transitioning from a restricted naval base to public space. The City of Amsterdam and the Marineterrein Organization are looking for ways to connect the site to the urban fabric, draw on its historic and water-oriented identity, include smart energy infrastructure and be able to adapt to future needs of society.

Objective

To imagine social public program & energy production as contributing to valuable urban social space on the Marineterrein and the greater urban fabric.

Overall Design Question

How can the integration of energy production from organic waste and a public bathhouse become a cohesive design?

How can it facilitate social connections on the Marineterrein and accommodate future visions for the site?

Technical Research Question

How can the flows of organic waste, energy, and water be locally managed and integrated into the design of a public bathhouse?

Sub-Questions:

1. What are the existing flows of waste, energy & water in Amsterdam?
2. How can these three flows be integrated into a bathhouse on the Marineterrein?
3. What are spatial implications of the processes and the large scale urban impact?
Methodologies

The table above exemplifies the method I will use to research the requirements needed to satisfy by intended functions. Research will also include literature review, case studies, on-site analysis, interviews, and collaboration with the AMS Institute.

Relevance

On a larger scale, this project is technically relevant because it explores and combines renewable energy options, waste reduction and alternative water infrastructure with a focus on a ‘circular system’. The integration of public program and energy production re-imagines what public social space can achieve. The role of the bathhouse is used to tackle social isolation in a large city by re-connecting citizens to each other and their environment.

Literature


Circle Economy, Fabric, Gemeente Amsterdam and TNO. "Circular Amsterdam: A vision and action agenda for the city and metropolitan area." 2016.

Dillon, Jennifer Reed, "Modernity, Sanitation and the Public Bath: Berlin 1896-1930, as Archetype," (November 12, 2007).


