Problem Statement Concept

How to reduce the carbon footprint of festivals? Event HUB: A traveling, multifunctional and self-sustaining pavilion for outdoor events in the Netherlands

With almost 800 outdoor music festivals in the Netherlands per year, festivals are increasingly popular. The outdoor atmosphere, lively music and feeling of belonging make you escape daily reality for a while but what many people do not realise is that outdoor music festivals have a huge carbon footprint. Due to their temporary nature, festivals need a lot of transport for goods and people but also for discharging enormous amounts of waste. After transport, energy is the most polluting element of a festival as they are usually powered by Diesel generators. Did you know that the three day festival LowLands has a similar energy demand of that to the city of Assen in three days?! Herefor a focus on transport and energy is maintained during the graduation project.

The Event HUB is a multifunctional and self-sustaining pavilion that can host the backstage functions during the set up and break down period prior to and after an outdoor music festival or event. During this period it generates an over capacity of energy which is stored in batteries to be able to meet the peak load requirements during the festival and therewith can host a sustainable medium stage as part of the total festival programme during the festival or event itself.

The design of the Event HUB is based on the concept of a central meeting area surrounded by a buffer zone. By offsetting the central area of the Event HUB different transitions to the central area and different spaces are created which create the opportunity for hosting different type of events.

Looking at the essence of a festival, a festival, whether it’s a music, film, or cultural event, is about bringing people together. The festival of the future however, is not only about coming together but also about actively participating and contributing to the festival. Herefor I wanted to create a place where people could come together, merge the front stage and the backstage and where people can discover and share things, whether about music, politics, sports or culture which resulted in the need for a multifunctional programme. Together with the need for a relocatable modular structure and the generation of renewable energy with PV cells this resulted in the design of the Event HUB.

Monique Smit | Siebe Broersma | Maarten Meijs | Leonie de Wit

Graduation presentation | June 30th 2015

Event HUB

Ground floor | 1:100

First floor | 1:100

Roof plan | 1:100

Design process | creating an accessible and multifunctional meeting place

Concept

A self-sustaining and relocatable pavilion for temporary outdoor events.
Modular set-up | Placing the Event HUB

1. Modules
2. Rail columns
3. Rails
4. Floor columns
5. Floor structure
6. First floor
7. Stair
8. Hand railing
9. Performance stage
9. Festival stage
10. Roof structure
11. Canvas roof coverage
12. Flexible PV cells

Module variations | 1:20

Section AA | 1:50
Rail profile r50 IPE 200
Circular beams r25
Polyurethane wheel
Roof arm
Rail profile r50
Circular beams r25
Polyurethane wheel
Steel cable Balustrade
IPE 140 Reinforcement strip
100x100 tube profile
Betonplex panel with anti-slip
IPE 200 Translucent hollow core roof panels
U-profile Sandwich panel
100x100 tube profile
Roof profile
Continuing steel strip
Pin
Steel finishing
Plasterboard 20mm Steel lamellae
Monique Smit | Siebe Broersma | Maarten Meijs | Leon de Wit
Graduation presentation | June 30th 2015
Vertical detail rails on column | 1:5
Vertical detail rails on module | 1:5
Top view rail detail | 1:10
Horizontal section | Location details
Horizontal details | 1:5