Graduation plan Yannick Warmerdam

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Graduation Studio
Name/Theme Architectural Engineering, Intecture, Make
Teachers Annebregje Snijders & Marcel Bilow

I had an idea in mind for my graduation project, that had to do with an architectural approach to engineering. This fits the studio well in combination with the freedom that is offered in this studio, freedom to develop my own project.

Graduation Project
A windturbine for the human scale picturesque landscape.

Goal
Almost all Dutch landscapes are designed. Most of the time this is a functional/engineering approach, think of the Deltaworks and the polders. In these cases functionality is the main criteria, experience of the landscape by user and visitor are of inferior significance. Sometimes this leads to conflicting decisions and degradation of the landscape. Some windparks are an example of functional pieces of engineering that degrade the existing landscape layers.

In this graduation project I propose design guidelines for placing turbines in the right patterns in the right kind of landscapes in order for them to be a valuable addition to the landscape. However, there are landscapes in which windturbines as we know them, simply do not fit in. Those are the landscapes for which my design question arises: How to make a landscape artefact for generating wind energy, that fits in a human scale landscape and forms a valuable addition to the experience of the context?

For the landscapes in which the turbines as we know them cannot fit in, I will design a new artefact for generating windenergy. An artefact that besides its functionality forms a valuable addition in the experience of the visitor/ user. The main challenge is to come up with guidelines for the artefact, in the fields of scale, composition and materialisation. These fields are studied in order to create a building that will be experienced as a valuable part of the landscape.

Method
The fields of scale, composition and materialisation are analysed by the experience of existing functional landscapes and making drawings on location. Experienced based landscapes are being studied by analysing reference projects as the English landscape gardens but also Romantic paintings and Dutch seventeenth century landscape painters. All these analyses are being supported by literature study. The following sources are used.

Available at: https://www.collegevanrijksadviseurs.nl/adviezen-publicaties/publicatie/2011/06/10/een-choreografe-voor-1000-molens [accessed 4 november 2016]


Available at: https://webcache.googleusercontent.com/search?q=cache:UnYrZrh24EJ:https://www.rvo.nl/sites/default/files/2013/09/Handreiking%2520waardeing%2520landschappelijke%2520effecten%2520Windenergie_0.pdf+&cd=1&hl=nl
In Search of the Human Scale I Jan Gehl / TEDxKEA. 2015 [YouTube video] Copenhagen: TEDxKEA


Planning

September
- Research Methods
  - Literature reading
- Research paper
  - sketching
  - art
- Research
  - landscape gardens
- Presentation
  -

October
- P1 presentation
- Nuon Excursion
- Invelox interview
- Sheerwind pres.

November
- Research paper
  - hand in

December
- P2 presentation

January
- P2 presentation

February
- P3 presentation
- Visit carpentries

March
- P3 presentation

April
- Material weathering tests
- Literature reading

May
- P4 presentation
- Modelling
  - CAD
- CAD
- CAD

June
- P5 presentation

Presentation
- Sketching, drawing, painting
- Models & paintings