

Assignment student EnTranCe Energy Transition Community

Project title: Transition of school building
<p>Suitable for students of: <i>Multiple choices are possible</i></p> <ul style="list-style-type: none"> <input type="radio"/> MBO <input checked="" type="checkbox"/> BuitenWerkPlaats Built Environment (2nd yr, 1 block) <input checked="" type="checkbox"/> Vastgoedlab V&M (3rd yr) <input checked="" type="checkbox"/> Bachelor graduation assignment (4th yr) <input type="radio"/> Bachelor internship (limited possibility in daily guidance) <input checked="" type="checkbox"/> Research assignment in curriculum year 4 <input checked="" type="checkbox"/> Honours research assignment <input checked="" type="checkbox"/> Master thesis <p>Study Program: Built Environment (SABE), Facility Management, Vastgoed&Makelaardij, Technische Bedrijfskunde, e.a.</p>
Period: februari 2018 – juni 2018
Language: NL/ENG
<p>Client: ETC sustainable buildings transition group top-down (architects, engineers, psychologists et cetera)</p>
<p>Internal client: Ron de Vrieze; lector Mieke Oostra</p>

Background (facts, situation sketch and parent/organization goals)

Fast global changes affect not only the climate but also the construction industry. New questions arise, for example, how to deal with these changes and all different and even contradictory interests, fast changing needs and unknown future changes. In order to come to a real (energy) transition, construction industry has to reconsider its regular and mainly technical oriented processes of (school) buildings design. Construction industry wants to increase their focus on end-users interests, on a circular approach of construction materials and energy resources, and wants to be more adaptive for future changes. To succeed into a real innovation it needs a multi-disciplinary approaches. An earlier research points out that top-down interests within construction industry can be separated by base building and infill industry. To establish a balanced programme of requirements it needs more research from open building related design (e.g. prefabricated elements, components, modular buildings). Some preliminary researches are elaborated recently, for example: modular buildings (hexagonal form; square and rectangular forms) and their energy relationship.

Problem (description of the undesirable situation)

The problem is that top-down approaches are often unaware of energy that is used for producing

the construction materials (LCA) and circular future reuse opportunities. The three forms as described should be researched more comprehensively for their circular whole-life.

Objective (description of the desired situation)

Desired is to calculate the energy that is used for the three specific modules (hexagonal form; square and rectangular forms).

Result deliverable/product (what is ready if the project is finished) with list of part results

Study report of the three modules.

Competence level

2,3

Connected to Change Agency ETC

Multiple choices are possible

- Sustainable Building
- Sustainable Mobility
- Local Communities

Interested or further information

You will be working in the context change agency sustainable buildings on EnTranCe. You will be working in a multidisciplinary team. For detailed information on this assignment contact R.de. Vrieze (EnTranCe); r.de.vrieze@pl.hanze.nl; M 06 22399269

How to respond to the vacancy

Send a motivation letter and CV to EnTranCe, Energy Transition Community, etc@org.hanze.nl Attn. Mrs. Jacqueline Josse, Office Manager EnTranCe. **Note:** If the job does not fit directly with your specific interest, please visit our website or contact Mrs. Jacqueline Josse, Office Manager EnTranCe 050-5954708.

Website: <http://en-tran-ce.org/for-students/assignments/>