

News archive 2016

20th of Dec 2016

The second symposium of the COMBI-project is held on January 26th 2017 at TAMK. The symposium is held in Finnish, more information can be found at the [COMBI-project's website](#).

7th of Nov 2016

Professor Juha Vinha has compiled statements on [a law proposal about changing legislation on land use and building](#), as well as on [proposals about changing the energy efficiency legislation of buildings](#).

22nd of Jun 2016

An excursion related to the project COMBI took people, who were involved in the project, to see energy efficient construction and research of public service buildings in Norway and the Netherlands. The reduction of emissions from construction also played a part in many of the places visited. The excursion, which was a little under a week long, was attended by 11 researchers from TUT, 3 researchers from Tampere University of Applied Sciences, and 5 representatives from companies or municipalities. Aalto University was also represented on Monday in Trondheim. The excursion occurred during 6.-10.6.2016.



Figure 1 The COMBI excursion group with a representative from Asplan Viak AS in Powerhouse Kjørbo

The journey began on Sunday evening when we travelled to Trondheim. On Monday the actual program started. During the day we got to know the [Zero Emission Buildings research project](#) and the [SINTEF research institute](#), which is on the NTNU grounds. The most rewarding aspects of the visit were the visits to the research facilities and the test buildings built for the experiments. On Monday afternoon we also got to know [the Moholt 50|50 project](#), where 5 solid wood apartment buildings for students, as well as a day care center are built in the same area. The focus in the construction of the area is on energy efficiency and reducing carbon dioxide emissions.



Figure 2 A lunch break in Trondheim

On Tuesday morning the trip continued to Norway's capital, Oslo. There is a project going on in Norway called FutureBuilt, where during 10 years 50 pilot buildings are built, in which emissions are reduced and energy efficiency is improved. Most of the tour destinations in Oslo were a part of this project.



Figure 3 Investigating the structures of the Brynseng School in Oslo

On our first stop in Oslo we listened to LINK Arkitektur and Erichsen & Horgen (energy and building services consultant) talk about the plans for a day care center as a plus energy building. They also talked about a very educational project, where the aim is to build a high school and a sports hall with zero emissions. The second destination on Tuesday was [Powerhouse Kjørbo](#), where two office buildings built in 1980 have been renovated so that their energy demand has reduced 90 % and they produce more energy than they need. The destinations we visited had many interesting structures and solutions. For example, in the Powerhouse the stairwells had been used as ventilation ducts.

On Wednesday our journey began in the office of Undervisningsbygg Oslo KF, where we heard a presentation on the Brynseng School, which is currently being built and will be the most energy efficient school in Norway. We also walked to the building site to take a closer look at the 3D model and the building site, where the structures used were clearly visible. In this nearly zero-energy building the solar panels will be installed on the wall elements of the façade, unlike in all the other places we visited, where the panels were on the roof. Another interesting feature of the school is that the sports hall has been lifted on top of it.

We also got to visit the [Bjørnsletta School](#), which was completed in 2014 by Undervisningsbygg Oslo KF. Some energy consumption monitoring has already been done in the school during its usage. Our last destination on Tuesday was a day care center built from wood in Fagerborg. During the evening we travelled to the capital of Holland, Amsterdam.

A project called NESK has been going on in Holland. As a result, eight zero-energy schools and seven office buildings have been built. Our morning began with a presentation from a representative of the Dutch Ministry on the project and the energy regulations in Holland. After that we visited some destinations in the areas of Haarlem and Amsterdam. During Thursday we visited three schools and one office building from the NESK project. On Thursday evening most of the excursion participants gathered to dine in a restaurant called Pilek, which was made of old shipping containers.



Figure 4 Energy neutral Plein Oost School in Haarlem

On Friday morning we listened to one final presentation at the office of Paul de Ruiter Architects on energy efficient schools and other buildings. We were back in Finland on Friday afternoon. The program of the excursion was strict, but we also got to see and learn a lot about energy efficient building.

16th of May 2016

Juha Vinha and Juhani Heljo from Tampere University of Technology have compiled a statement on the proposals by the Ministry of the Environment to change the energy efficiency legislation of buildings. The statement can be read [here](#).

4th of Feb 2016

There were circa 120 attendees in the first symposium of COMBI-project on January 28th 2016. The one-day seminar included presentations from all three research institutes involved in the project. In addition to the research results, Jyrki Kauppinen from the Ministry of the Environment talked about future energy regulations. More information on the project and its results are available on [COMBI-project's website](#).



23rd of Jan 2016

The project COMBI includes public symposiums, where the execution and results of the project are discussed. The first symposium is held on January 28th 2016 at 8.30 am at Tampere University of Technology. You can see the schedule [here](#).

We welcome You to come hear about the progression of the project, its results and meet the people who are working with the project. The symposium is held in Finnish. For the sake of food service, we wish You to sign up for the event [here](#) by Monday January 25th 2016.