



Study visit: Best practices of renovation in the city of Tartu

Tartu, Estonia
April 13-14, 2023

Programme

Day 1, April 13, Thursday

12:00 Arriving to Tartu.

12:00-12:45 Lunch in Sparky (address Narva road 3)

12:45-13:45 **Principles of apartment associations management in Estonia. Work for sustainable housing and cooperation with different stakeholders for empowering apartment associations for renovation and achieving energy-efficiency in multi-apartment buildings**

Venue: BizTown event venue (address Narva road 3)

Andres Jaadla, The Estonian Union of Co-operative Housing Associations (EKYL) (speaking in English)

13:45-15:15 **Seminar on the experience of renovation of apartment buildings renovation in the city of Tartu**

Venue: BizTown event venue (address Narva road 3)

Martin Kikas, Tartu Regional Energy Agency, Director (speaking in English)

15:50-16:10 **Visit to renovated apartment building, Tiigi 8 (address Tiigi str 8)**

The house was built in 1961, but it was thoroughly renovated in 2017 as part of the SmartEnCity project. During the renovation, the facade and roof were insulated and reconstructed, the heating system, domestic hot water system, lighting, ventilation system, sewage system were completely replaced, opening fillings were replaced, and solar panels were installed on the roof. As a result of all this, the house received an A energy class label.

Martin Kikas, Tartu Regional Energy Agency, Director (speaking in English)
Anatoli Hokkonen, board member of the apartment association Tiigi 8 (speaking in Russian)

16:20-16:40 Visit to renovated apartment building, Tähe 2 (address Tähe str 2)

Winner of the competition "The best renovation project 2019" in Estonia. In addition to the usual insulation and replacement of technical systems as part of the SmartEnCity project, solar panels were installed on the roof of the apartment building built in 1964, the basement was renovated, the exterior doors of the apartments were changed and the surroundings of the building were tidied up. Smart home devices were installed. Balconies were added during the renovation.

Martin Kikas, Tartu Regional Energy Agency, Director (speaking in Russian)
Tõnis Eelma, board member of the apartment association Tähe 2 (speaking in English)

18:00 or 19:00 Dinner (not arranged by the hosts)

Day 2, April 14, Friday

09:30-10:30 Element-based reconstruction of an apartment building

Apartment buildings built before the 1990s everywhere in Estonia have quite similar problems: high energy consumption, poor ventilation and indoor climate, and uneven indoor temperature. Compared to the usual, i.e. external wall insulation on scaffolding, in the case of a complete renovation with additional heat elements pre-produced in the factory, the time required for renovation work should be significantly reduced. In the future, the use of such technology will provide the opportunity to renovate thousands of apartment buildings into a modern and energy-saving one with an optimal amount of time and, therefore, with considerably less disturbance to the residents of the buildings.

The city of Tartu participates in the international project oPEN Lab (Annelinn+), the aim of which is to renovate three 6-9-storey residential buildings in Annelinn into near-zero energy buildings in cooperation with apartment associations and design a modern living environment around them.

Venue: BizTown event venue (address Narva road 3)

Annika Urbas, Gerli Alasoo, Tartu Regional Energy Agency (speaking in English)
Maido Rõivas, Balti Vara Ehitus OÜ project manager.

**10:50-11:00 Introduction of the element-based reconstructed apartment building
Sõpruse pst 17, Tartu**

Maido Rõivas, Balti Vara Ehitus OÜ project manager

11:10-11:30 Introduction of the element-based reconstructed apartment building Nõva 3, Tartu

Maido Rõivas, Balti Vara Ehitus OÜ project manager

11:30-12:30 Bus trip to Võru

12:30-13:00 **Visit of element based reconstructed apartment building in Võru (project RenoZeb)**
Liiva 26a, Võru

Martin Kikas, Tartu Regional Energy Agency (speaking in English)

13:30-14:30 **Final discussion and wrap-up of the study visit**
Light lunch/coffee table in in Võru (address tbc)

End of the program.