

Results of the 7th quarter of the post-doc research project No. 1.1.1.2/VIAA/4/20/604
"START: Decision Support Tool for Decarbonisation Assessment of DistRicT Heating" project
(01.07.2022 - 30.09.2022):



1. Research activities: a methodology was created for assessing possible effects of climate change on building heat demand combined with renovation of existing building stock for decarbonization scenarios of cities by developing a sustainable 4th generation district heating (4GDH) system in the long-term perspective (till 2050). The DH system decarbonization scenarios results were elaborated.
2. Participation in the "8th International conference on smart energy systems" in Aalborg (Denmark) on September 13-14, 2022, with the presentation "Impacts of global warming and building renovation on the heating energy demand and district heating capacity: Case of the city of Riga".
3. Communication measures: project results were presented at a meeting to the director of the Riga Energy Agency (09.07.2022) and the representative of the Riga City Council (09.06.2022).
4. Knowledge dissemination and networking activities. On 15 September 2022, the results of the post-doctoral project were presented in Vilnius at a meeting with representatives of Lithuanian, Latvian, Estonian and Swedish DH companies and DH associations.
5. A mobility visit was carried out at the University of Parma (UNIPR), Department of Engineering and Architecture from September 18 to 30, 2022. Topical issues in the field of smart energy systems, the transition towards 4th generation district heating system, Power-to-X technology implementation as part of the smart energy system, and the district heating sector impacts on city decarbonization policy were thoroughly discussed.

The START project is funded under the European Regional Development Fund Specific Objective 1.1.1 "Improve research and innovation capacity and the ability of Latvian research institutions to attract external funding, by investing in human capital and infrastructure" 1.1.1.2. measure "Post-doctoral Research Aid". Project application selection round No.4. Project No. 1.1.1.2/VIAA/4/20/604.