

80th International Scientific Conference of the  
University of Latvia



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**TOWARDS CLIMATE NEUTRALITY: DIMINISHING OF THE  
CO<sub>2</sub> EMISSIONS IN CONSTRUCTION MATERIALS'  
PRODUCTION IN LATVIA**

# Why construction materials?

Multiple EU prescriptive documents (e.g., No. 2018/842) present specific targets of CO<sub>2</sub> emissions reduction to be achieved by member-countries (including Latvia) before 2030. The way to achieve such reduction of the CO<sub>2</sub> is also by using “greener” building materials in a construction (e.g., increase the use of wooden material)

## ANNEX I

## MEMBER STATE GREENHOUSE GAS EMISSION REDUCTIONS PURSUANT TO ARTICLE 4(1)

Belgium	– 35 %
Bulgaria	– 0 %
Czech Republic	– 14 %
Denmark	– 39 %
Germany	– 38 %
Estonia	– 13 %
Ireland	– 30 %
Greece	– 16 %
Spain	– 26 %
France	– 37 %
Croatia	– 7 %
Italy	– 33 %
Cyprus	– 24 %
Latvia	– 6 %
Lithuania	– 9 %



1/80



# Actuality

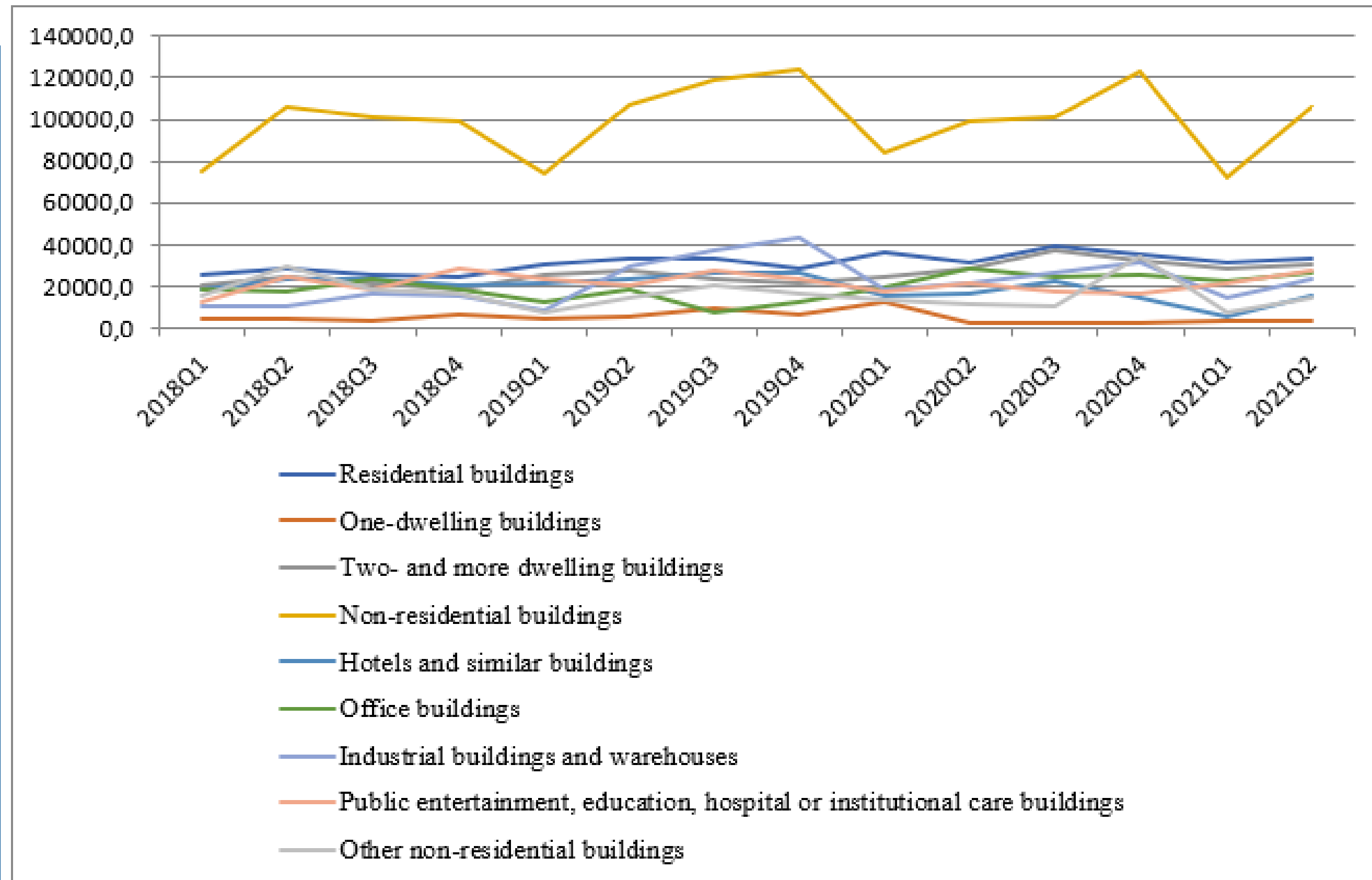


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In Latvia construction always has been an important part of national economy

Recent tendencies in new construction in Latvia

*Source: author's construction based on Official Statistics Portal of Republic of Latvia B(UP030c)*





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# Actuality

## **According to the Official Statistics Portal of the Republic of Latvia on 2021 Q2:**

- **wooden production in Latvia occupies 19,8 % from total Latvian export (the manufacturing sub-sector that probably will be influenced);**
- **an important memorandum was signed (April 2021) between Latvian Ministry of Economics and diverse local actors of the wooden manufacturing and construction industry in order to promote use of sustainable construction materials and construction products in Latvia;**
- **the topicality of the research is related also to the fact that there are no empirical studies and scientifically substantiated evidence of the existing performance of the already implemented investment program in Latvia in the field of construction materials production.**



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# Research's global goal

**To elaborate a recommended specific mechanism (impact) to be offered to construction material production companies in Latvia, which would help to assess the factors influencing the production sub-sector (in terms of CO<sub>2</sub> emissions reduction). Consequently, that should allow the companies to become more competitive doing export**



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# Tasks

- 1) Analyze the development of construction materials production in Latvia taking into account the requirements related to use of “greener” construction materials in construction. Analyze Latvia’s export of construction materials**
- 2) Analyze the time-series of salaries in the construction field (with possible specification in construction material production)**
- 3) And other work subtasks**





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# Results

- **Gathering statistics**
- **Collecting information from different organizations/institutions (e.g. Investment and Development Agency of Latvia; Construction Manufacturers Clusters; Riga Technical University)**
- **Preparation work for the questionnaires**



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# Next steps & perspectives

- To finalize the analysis of the situation
- To summarize the theoretical analysis
- To formulate questionnaires
- To begin work at empirical part

**EU MISSIONS**  
CLIMATE-NEUTRAL AND SMART CITIES

29 September 2021

**Concrete solutions for our greatest challenges**

CHALLENGES	OPPORTUNITIES
<ul style="list-style-type: none"><li>• Cities produce <b>&gt;70% of global CO<sub>2</sub> emissions</b>.</li><li>• They account for <b>&gt; 65% of global energy consumption</b>;</li><li>• They take up only <b>4% of the EU's land area</b>;</li><li>• Cities are home to <b>75% of EU citizens</b>.</li></ul>	<ul style="list-style-type: none"><li>• Contribute to the European Green Deal ambition to <b>reduce gas emissions by at least 55%</b>;</li><li>• Offer <b>cleaner air, safer transport and less congestion</b> to citizens;</li><li>• Lead in <b>climate and digital innovation</b>, making Europe attractive for investments from innovative companies and skilled workers.</li></ul>

**GOAL**  
Deliver **100+ climate-neutral and smart cities by 2030** and inspire all other cities to follow suit by 2050

**ACTIONS**

- The Horizon Europe programme will provide **€359.3 million** in seed funding during the period 2021-23 to help deliver on the mission;
- Launch of a **Mission Platform** to provide technical, regulatory, and financial assistance to cities working on the mission;
- Cities will prepare, sign and implement **Climate City Contracts**, co-created with citizens and local stakeholders;
- Launch a **portfolio of research and innovation projects** and set up a **Global Knowledge Exchange Centre**;
- A **network of national, local and regional authorities** will support the cities' transition to climate neutrality.

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- 6 years work experience in production company (wooden structures, heavy machinery production industry)
- 2,5 years work experience in over ~200 mio value construction projects
- worldwide work experience: in Western Europe, Asia, Russia, projects in cooperation with international partners
- from the 1-st of October, 2021 - PhD doctoral student at Economics, Business and Management faculty, University of Latvia



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Thank you for your  
attention!



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