

Korea-EU Horizon Europe Researchers Networking Forum on Energy & Advanced Mobility

Lina Murauskaite

Senior Researcher

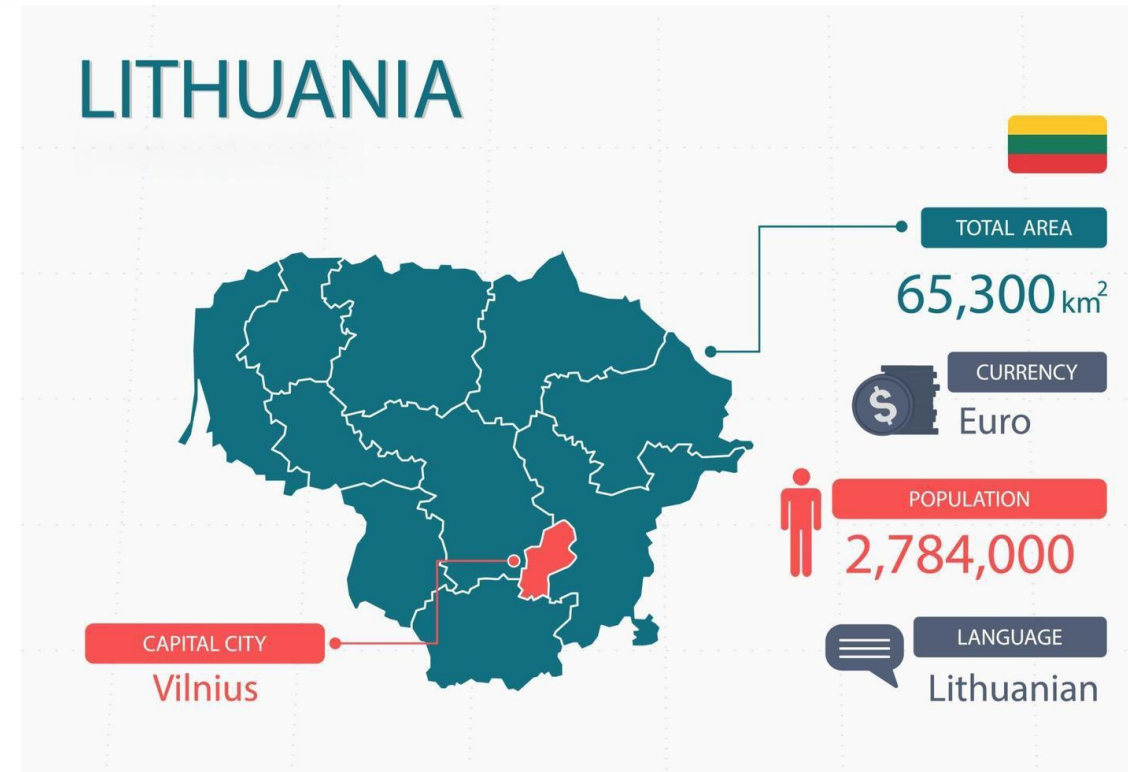
Lithuanian Energy Institute

Energy Grids

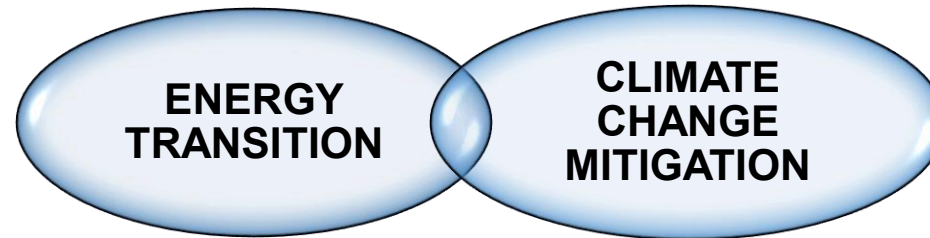


1. Lithuanian Energy Institute

- ~ 70 years of experience
- 250+ employees
- 10 Labs



1. Lithuanian Energy Institute



Research on economic development in the transition to a climate-neutral society



Impact of Climate Change and human activity on water and energy resources



Smart energy systems and climate-neutral cities



Structural materials, thin films, and nanomaterials



Hydrogen technologies



Bioenergy, Waste-to-Energy



Nuclear Fission and Fusion energy



Thermal physics, gas and fluid dynamics, and Metrology



2. Expertise: Energy Systems Research



Medium and long-term energy development scenarios



Climate change mitigation



Socio-economic and distributional impacts



Integration of technical, natural, and social systems



Renewable energy sources, their integration



Transport & industry decarbonization



Environmental impact



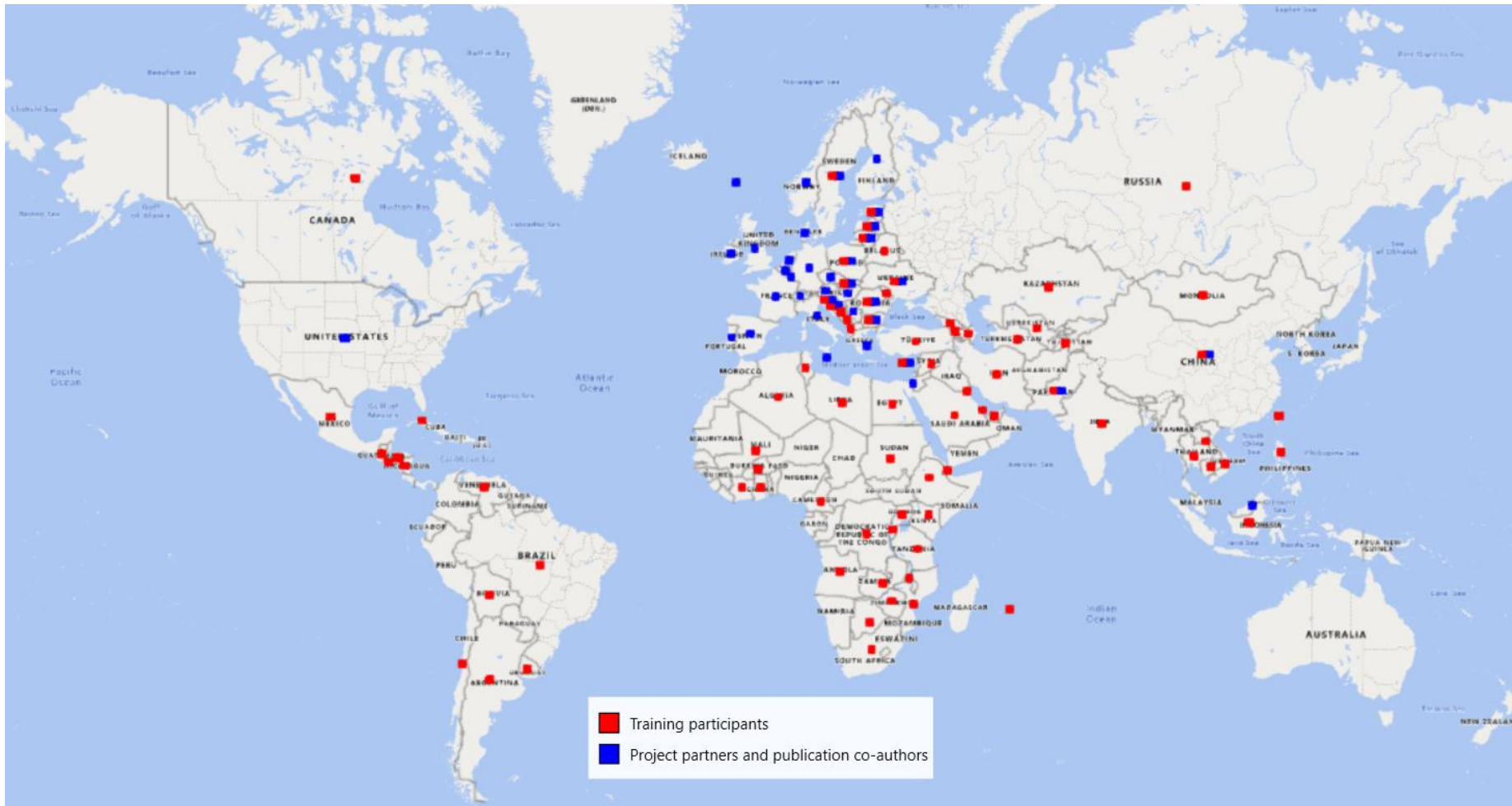
Optimal allocation of capacities



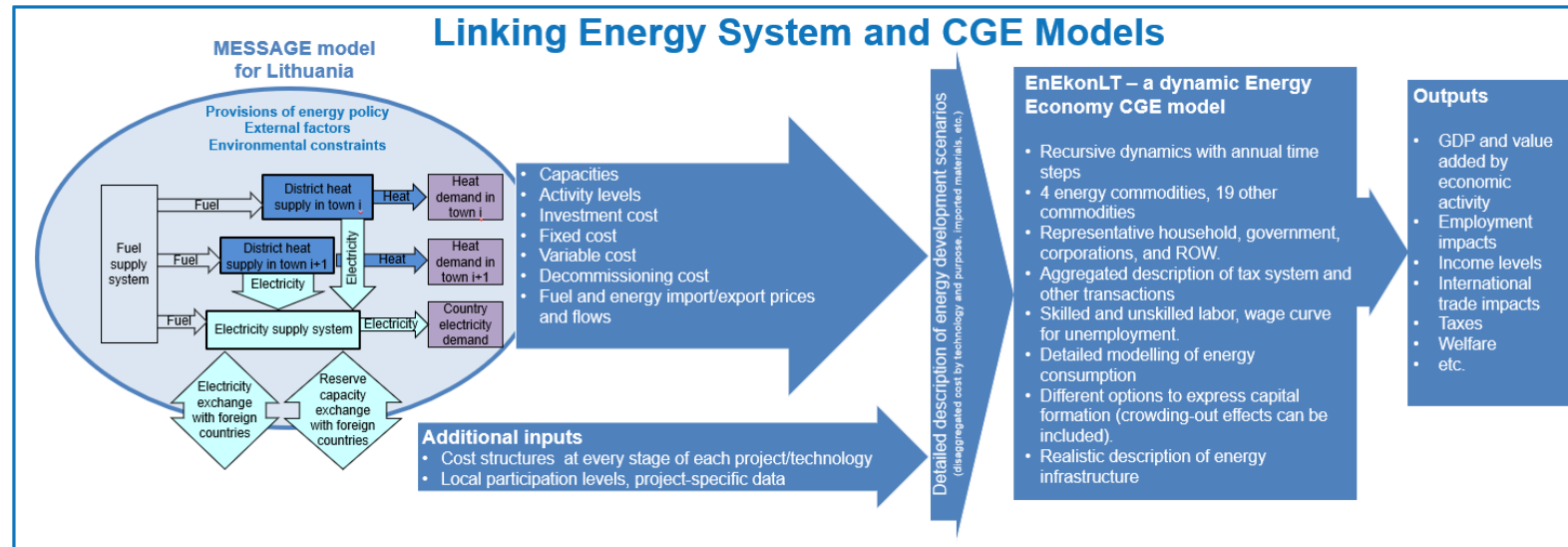
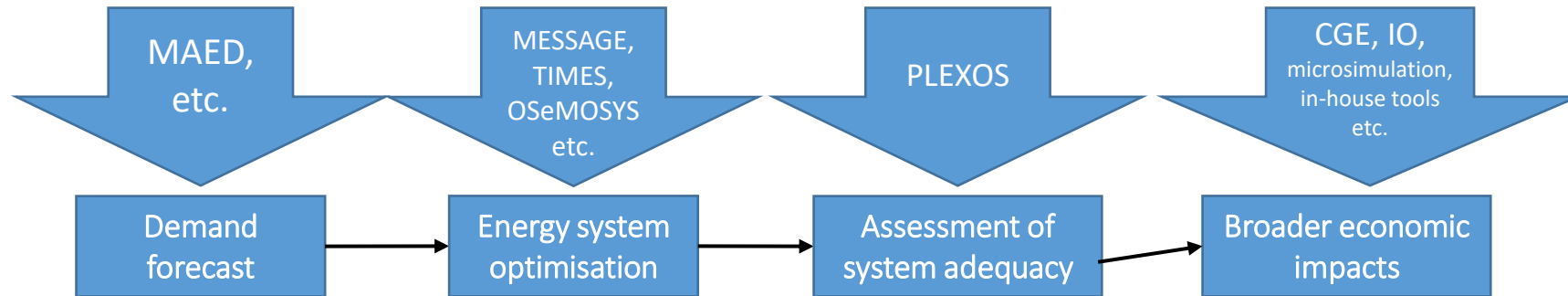
Consumer behaviour



2. Expertise: Energy Systems Research



2. Expertise: Energy Systems Research





3. Your Project Idea

HORIZON-CL5-2026-09-D4-02: Low disturbance prefabrication approaches for deep renovation of multi-storey buildings (Built4People Partnership)

HORIZON-CL5-2026-09-D4-04: Validating policies and business models for affordable and sustainable housing (Built4People Partnership)

- Demonstrate cost-effective approaches (comprising design, planning and construction processes and techniques) for deep renovation to at least NZEB performance levels of multi-storey buildings (> 5-storeys).
- Research the effectiveness and implications of existing policies at different levels of governance (from local to European), regulations, support instruments and business models on the renovation and provision of rental properties in the affordable housing sector.



3. Your Project Idea

HORIZON-CL5-2026-11-D3-05: Demonstration of solid biofuel supply and conversion to large scale CHP from fully sustainable regional value

- Provide replicable solutions, where bioeconomy stakeholders can benefit from the knowledge generated for the development of their strategies aligned with energy and environmental policy objectives and which can contribute to the objective of decreasing the EU's and Ukraine's dependence on fossil fuels and increasing energy security.
- The demonstration of regional value chains for the use of locally to regionally sourced sustainable and cheap solid biofuel from upgraded biogenic residues and wastes in large-scale CHP plant creates opportunities for SMEs, regional value generation and European knowledge advancement and international competitiveness in the sector.





4. Profile You are Seeking and Why

- Partners with expertise in buildings, energy systems, sustainable materials, digital tools, renovation, NZEB.
- Modelling and simulation of buildings, LCA assessment, behavior modelling, socio-economic research (policies and business models).
- Solid biofuel chemistry, bioenergy system modelling, policy research.



5. Contact Details

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