

DecarbonDHS

Decarbonization of District Heating Systems

Driving clean, sustainable heating solutions
across the South Baltic Region



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✓ About the Project

DecarbonDHS aims to promote the decarbonization of district heating systems in the South Baltic Region and to facilitate the transition towards sustainable and low-carbon solutions, by increasing energy efficiency, integrating renewable energy sources, utilizing waste heat from industry and incorporating energy storage technologies.

✓ Key Focus Areas

- Renewable energy integration
- Energy efficiency
- Use of industrial waste heat
- Smart energy storage
- Reducing fossil fuel dependency
- Supporting climate goals & energy security



✓ Why it Matters

Heating and cooling account for nearly 50% of the EU's total energy use. Currently, only 12% of this is provided in whole EU through district heating systems, many of which still rely heavily on coal and natural gas. Decarbonization of this sector is essential for achieving climate goals, enhancing energy security, and reducing Europe's reliance on imported fossil fuels.



✓ Major Challenges

- Aging infrastructure
- High energy losses
- Heat demand fluctuations
- High initial investments
- Regulatory hurdles
- Renewable integration
- Heat price & affordability issues



✓ Our Approach

To overcome challenges, DecarbonDHS promotes a multi-faceted approach that blends technological innovation, supportive policy, stakeholder engagement, and public awareness.



✓ Our Target Group

We address a wide network of stakeholders and aim to cooperate with:

- Municipalities and local communities
- Policy makers and ministries
- Regional/national authorities
- Energy providers and industry
- Environmental agencies
- Researchers and planners
- Citizens



Project Consortium

DecarbonDHS is carried out by a consortium of 8 partners from Poland, Germany, Lithuania, Denmark, and Sweden. The Lead Partner is the Institute of Fluid-Flow Machinery, Polish Academy of Sciences (IMP PAN).



Budget

The project budget is €1.8 million and is co-financed from the Interreg South Baltic Programme 2021-2027 through the European Regional Development Fund.



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