



SEAP PLUS – Ilgtspējīgi enerģētikas rīcības plāni – vienota Eiropa enerģijas apsaimniekošanā  
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# Current Situation, Achievements and Challenges of Livani District Council

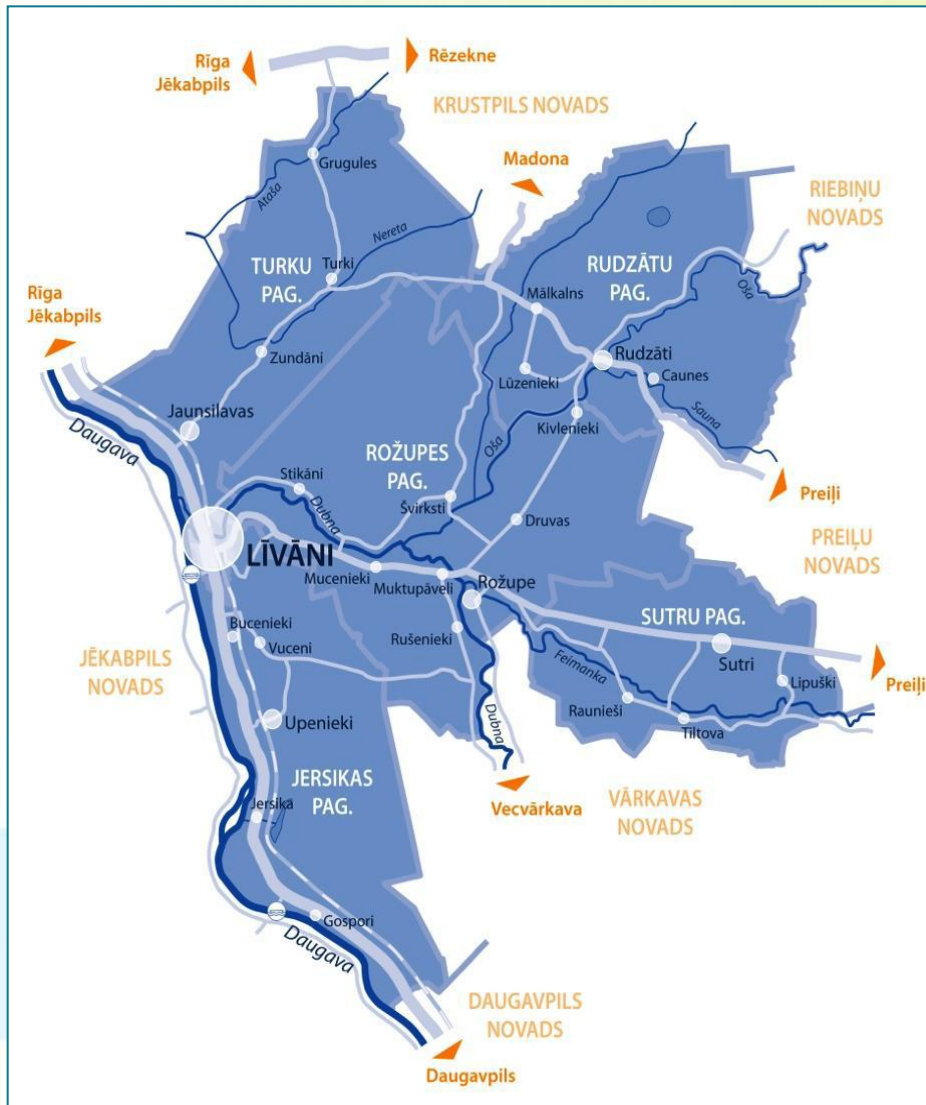


Livani District Council  
Investment and development department  
Head of department  
Iveta Dobele  
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# Content

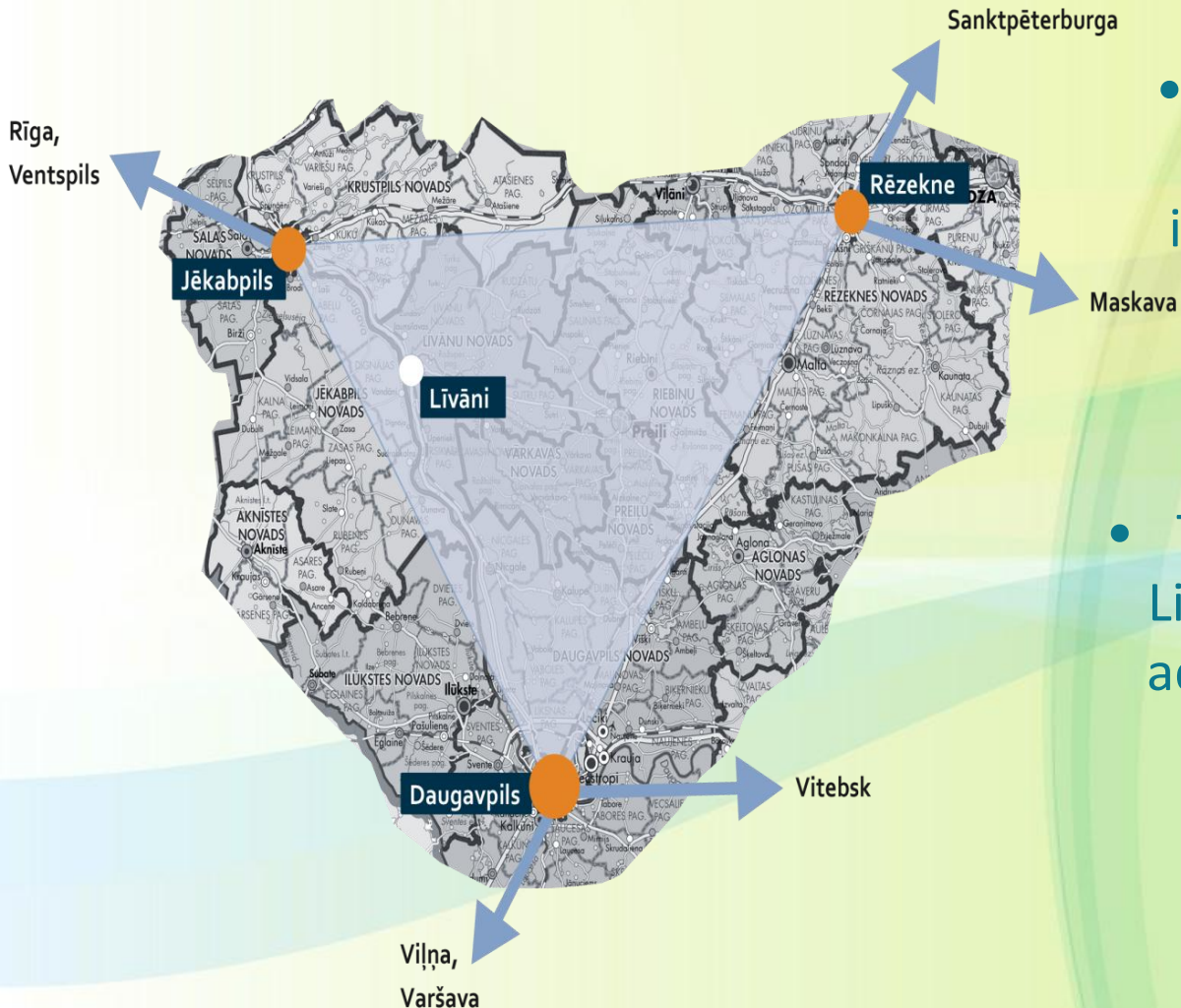
- General information about Livani district
- Experience in planning and implementation of development projects in the environmental sector (since 2005)
- Energy sector - heat supply, heating pipes
- Future plans

# General information about Livani district



- 5 villages: Turku, Rozupes, Rudzatu, Sutru and Jersikas.
- Livani town is regional development centre with a significant cultural, industrial and social infrastructure, services and social institutions.
- The amount of population in the district - 13 680 (01.01.2012.), including Livani ~8663.
- The total area of the district – 625 km<sup>2</sup>

# General information about Livani district



- The economic sphere of influence by Livani district is included in Latgale economic triangle area "Daugavpils – Rēzekne – Jekabpils".

- The geographical location of Livani and the resources of the adjacent major cities are taken into account for identifying and planning a coordinated Livani district integrated development.

# Experience in planning and implementation of development projects in the environmental sector (since 2005)

## Increase of energy efficiency in buildings

- „Increase of Energy Efficiency in Līvāni Secondary School Nr.1”, State Investment Programme (fully implemented)

## Encouraging the cycling

- „Baltic Sea Cycling”, INTERREG III B (fully implemented)
- „Exciting Cycling Net in the Baltic Country of Lakes”, INTERREG III A (fully implemented)
- Participation in the European Mobility Week, since 2007



## Increase of energy efficiency in buildings

- „Increase of Energy Efficiency in Municipal Buildings of Livani District Council – Round 1” (fully implemented)
- „Reconstruction and Increase of Energy Efficiency in Municipal Buildings of Livani District Council – Round 2” (on agenda)
- „Improvement of the Infrastructure in Livani District Pre-school and Interest Education Institutions” (on agenda)



**(Partial) replacement of lighting systems and installation of cycle lanes in frames of the following projects:**

- „Improvement of the Infrastructure of the Streets and Apartment Building Blocks in Livani Town – Round 1 and Round 2 (fully implemented), but Round 3 (under implementation)
- “Reconstruction of Riga Street Pedestrian Sidewalks and Roadway Borders Between Rupniecibas Street and Zemgales Street” (fully implemented)
- “Arranging of Riga Transit Street Section in Livani Town” (under implementation)
- „Improvement of Transport Infrastructure Network for Reaching Industrial Areas and Promoting Business in Livani” (on agenda)



## Increase of energy efficiency in buildings

- „Increase of Energy Efficiency in Rožupe, Jersikas Jaunsilavas Primary School Buildings” (under implementation)
  - renovation works according to high energy efficiency requirements
  - renovation of the utilities ensuring the operation of building heating, ventilation and cooling systems
  - installation of energy efficient lighting
  - replacement of boilers
  - energy certification of the buildings
  - development of the Guide / Manual for the utilization of the energy-efficient building
  - training of the school staff
  - development of the energy efficiency action plan





## Construction of bike lane

- „Construction of a Bike Lane to Jaunsilavas Village School” (fully implemented)

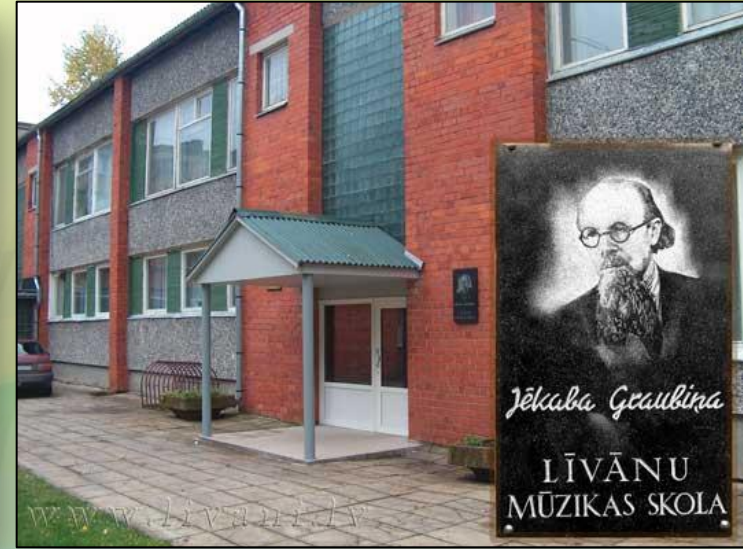


## Measures for the improvement of heat resistance in apartment block houses

- At the moment, only one building has been insulated in Livani (in Rigas Street 204)



# Project „Increase of Energy Efficiency in Municipal Buildings of Livani District Council – Round 1” BEFORE



# Project „Increase of Energy Efficiency in Municipal Buildings of Livani District Council – Round 1” AFTER



# Project „Increase of Energy Efficiency in Rozupe, Jersikas Jaunsilavas Primary School Buildings” BEFORE



# Project „Increase of Energy Efficiency in Rozupe, Jersikas Jaunsilavas Primary School Buildings” AFTER



# Energy sector - heat supply, heating pipes

- The heat supply in Livani town is being provided by Ltd. „Livanu siltums” from a boiler put into operation in 1971.
- The boiler reconstruction was done in 1978 and 1994.
- 55 apartment buildings and public facilities in Livani - about 60% of the urban population - has the district heating.
- The biggest companies have their own boilers for meeting their heating needs.
- The residential sector makes 79% of the consumers connected to the district heating system, 15% are budget institutions and 6% other consumers.
- In villages public facilities has their own boilers for meeting their heating needs.

- At the moment, four boilers with the total capacity of 17 MW are being used for heat generation, including:
  - A natural gas-powered boiler with a capacity of 10 MW installed in 1994
  - A woodchips-powered water heating boiler with a capacity of 2 MW installed in 2001
  - A woodchips-powered water heating boiler with a capacity of 2 MW installed in 2003
  - A woodchips-powered water heating boiler with a capacity of 3 MW installed in 2006

- The total length of heating net is 9232 m:
  - 25% are surface heating mains on free standing pillars
  - 70% are ductless heating mains from industrially insulated Logstor ROR pipes
  - 5% are underground heating mains in impenetrable channels



- During the period from 2000 to 2011, the district heating system in Livani was reconstructed in several rounds. The reconstruction of heat sources and the heat supply system has been done, the main activities included:
  - 92% of the district heating net has been reconstruction in the town, the old pipes have been replaced by new industrially insulated pipes; the reconstruction resulted in: reduced diameters of the pipes (in the sections where it was needed) and the total length of the net.
  - change of heat insulation of the major surface heating main in the length of 1400 m
  - all budget institutions and apartment block buildings equipped with separate heating units

- three woodchip-powered water heating boilers with the total capacity of 7 MW installed in the boiler house, natural gas consumption reduced by 70%
- modern circulation pumps equipped with frequency converters installed, the smoke pump equipped with a frequency converter too (significant reduction of the power consumption achieved as a result)
- a new transformer substation built
- the steam boiler DE 25-14 GM (powered by natural gas) that was set up in 1994 has been rebuilt to a water-heating boiler (as a result – the consumption natural gas reduced)

- On September 5, 2012, a project application prepared and submitted to receive the co-funding from the European Union Cohesion Fund under 3.5.2.1.1.sub-activity "Measures for the increase of efficiency of the district heating systems" Round 4.

# Future plans

## Livani District Council's Integrated Development Program for 2012-2018



# Livani District's vision 2020

**Livani district - business,  
modern technologies  
and attractive  
environment for family  
well-being**

# Development priorities

1. Life skills and working skills, initiative and enterprise (investment in human capital)
2. Business, jobs and family well-being (investment in attractive economic, social and nature environment)

# Project planning

- Līvāni District Council's Integrated Development Program for 2012-2018 and the Action Plan
- Sectoral development strategies and programs (tourism, social services, environmental protection and sustainability)
- The available EU funding for projects
- The amount of municipality's annual budget

# Convent of Mayor

- The aim is to continue work on energy efficiency and increased use of renewable energy in public and private sectors.
- But the ideas can be realized if instruments to implement these measures are found.
- As a result, progress towards the set targets of EU Climate and Energy Policy can be met, and more efficient use of the municipal budget can be ensured.



# SEAP Plus Project and the Sustainable Energy Action Plan

- Best practice and knowledge transfer from experienced regions to the experience receiving regions.
- Involvement in SEAP plus project activities and events, technical assistance for the development and implementation of sustainable energy action plan will be provided.
- Enhancement of public environmental awareness.

- Creating partnerships with energy management stakeholders to ensure more efficient energy data collection and use.
- Identification of the best options and actions to pursue the set goals - to reduce CO2 emissions, to improve energy efficiency, to attract renewable energy.
- The incentives to facilitate the main tasks considered, including the existing and needed financial instruments.



***Thank You!***

**Livani District Council**  
[www.livani.lv](http://www.livani.lv),  
[dome@livani.lv](mailto:dome@livani.lv)  
[iveta.dobele@livani.lv](mailto:iveta.dobele@livani.lv)