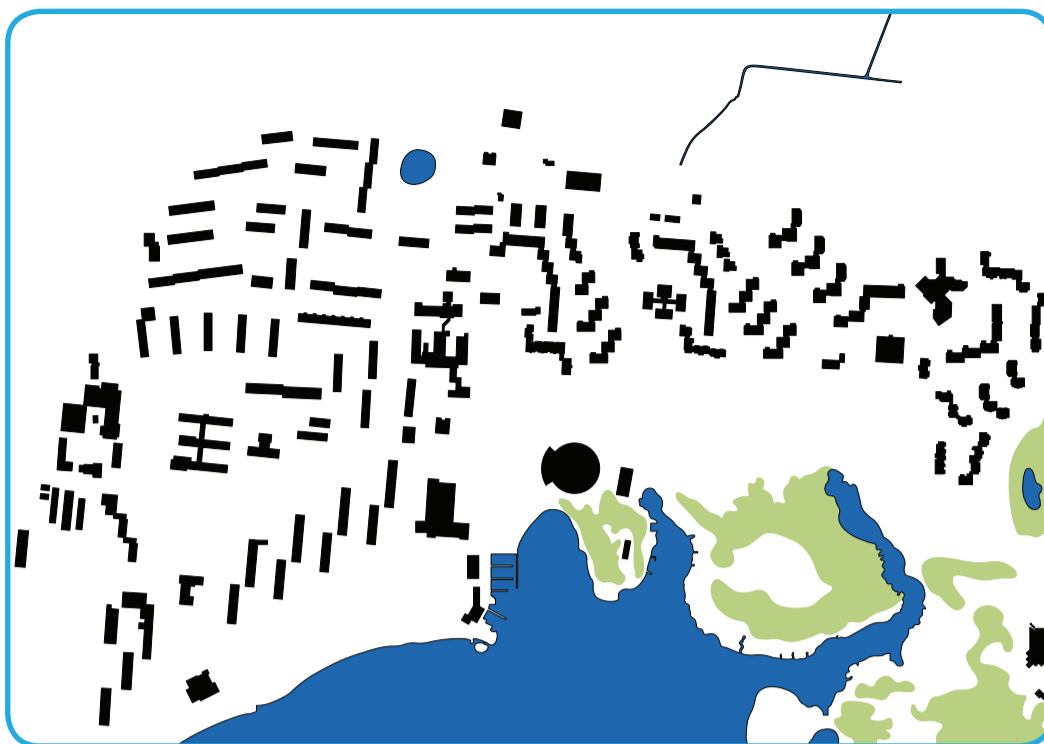


# ELEKTRENAI LITHUANIA

## Information about the municipality

**Location:** Vilnius County, southeast Lithuania  
**Altitude:** 100 m  
**Inhabitants:** 27,900  
**Expected development of the municipality:**  
 Demand for new settlements of detached houses. Further renovation of public facilities and multi-storey residential buildings.



## Miniproject title

# ENERGY OPTIMIZED PLANNING – SPECIAL PLAN FOR DISTRICT HEATING

## SHORT DESCRIPTION

### 1. Project background & goal

Energy supply is one of the hottest topics of the urban development of Elektrenai. More over, the big national thermo power plant was the reason to found the relatively young city. Elektrenai municipality consist of two main cities Elektrenai and Vievis, 6 rural towns (Kazokiskis, Semeliškės, Kietaviškės, Gilučiai, Pastrėvys, Beižionys) and many remote rural settlements. Also in Elektrenai city is a national thermo power plant with 1800 MW installed capacity. Energy consumption at household and private enterprises are very varied (wood, biomass, gas, oil, coal and Elektrenai city through central heating system from National Thermo power plant). Energy consumption is very different depending on house insulation. **The Goal** of the mini-project development team was that the Special plan for district heating will be approved by the Municipality Council within the INTENSE project duration.

The General plan for Elektrenai as municipal planning instrument will set conditions for new settlement activities. In between the triangle of General plan, Elektrenai municipality household heating special plan and detailed urban plans for new settlements the best options for energy supply and energy optimized grouping and orientating of new buildings can be elaborated. New-planned urban districts of Elektrenai municipality should have options not only for centralized energy supply but for individual heating with gas or biomass.

### 2. Main project aspect/topic

- > Ensuring safe and secure heating supply at the lowest cost and meeting the environmental requirements.
- > Assessing energy efficiency options and providing recommendations for measures for its implementation with the aim to get economical and environmental benefit.

### 3. Main Energy Efficiency aspects

- > Energy efficiency of central systems

### 4. Miniproject activities

- > Elaboration of the draft special plan
- > Presenting the plan to the public for comments
- > Submitting the final proposal of the plan to the municipal council for adoption

### 5. Main challenges

Organising and implementing public consultations during preparation of the Special plan

### 6. Key actors and their role

Elektrėnai municipal authority – Mayor's Office, Department of Strategic Planning and Investment & Economical Department and BEF Lithuania responsible for special plan preparation; Elektrėnai Council; local public

**Responsibility for implementation:** Elektrėnai municipality

### 7. Main steering instrument(s) used by municipality

- > Detailed urban plans - central heating documents as legal binding documents at the municipal level.

### 8. Concrete miniproject results

Special plan developed and adopted by the municipal council. It assesses energy efficiency options and provides recommendations for measures for its implementation with the aim to get economical and environmental benefit.

### 9. Added values/lessons for transfer and dissemination:

- > It is important not only at very early stage to have consultations with key stakeholders, but also gathering information on best available techniques.
- > Important is to pay sufficient attention for different alternative options, even if they are not relevant in current situation, but in case of unexpected difficulties (financing, fuel supply interruptions) these alternatives could be adopted in very short time. Feasibility studies should be done not only for the main project option, but for at least one more alternative as well.

## AFTER INTENSE

### 10. Financing plan

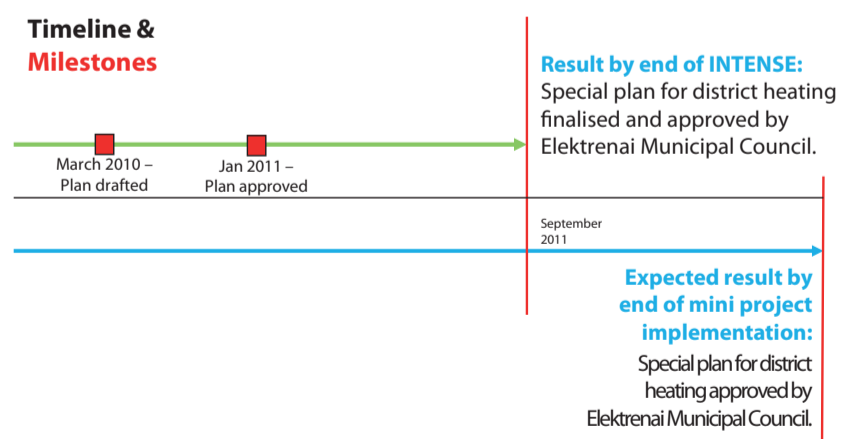
- > European Union funds and Administration of Elektrenai municipality budget resources

### 11. Expected result by end of the total project

- > The plan is a strategic document of the municipality which aims to ensure safe and secure heating supply at the lowest cost, while meeting the environmental requirements.

### 12. CO<sub>2</sub> reduction potential of the project:

0,61-10,53% (average 5%)



### Contact:

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