



and European Neighbourhood and

Partnership Instrument)



Energy efficient rehabilitation – improvement of buildings and energy supply infrastructure

leva KascionyteSiauliai City Municipality Administration

June 2010, Warsaw, WP4 workshop





WP4 activities, (Siauliai)

Activities	Status (not started yet, just started, working on, almost finished, finished)	Description
1. Analysis 2. Concept preparation	Activity 1 - finished Activity 2 - not started yet	Activity 1 – the analysis of two target areas was prepared by Klaipeda University. Activity 2 – Tender documents were prepared for concepts. The public procurement procedures were carried out.







Analysis

- The analysis of the territories of residential districts revealed the following key areas that require renovation:
- Residential apartment houses;
- Urban infrastructures, public spaces (parking lots, transport and communication);
- Qualitatively new facilities for recreational zones and rest areas for common use, and linking of these zones with residential districts and downtown by pedestrian and bicycle routes.







Task for concepts preparation in target areas

- public sphere, greenery and common use territories;
- ownership forms in planned territory, social composition of residents;
- social infrastructure, including adaptation of environment to the disabled people;
- parking places, other transport means and use of the alternative;
- means and measures of energy saving in buildings and territory, energy supply infrastructure networks;
- The following proposals provided: renovation of multifamily houses according to the types of building assessing their enlargement possibilities;
- use of innovations, renewable energy etc. in target areas;
- layout of the household waste sorting places and containers in separate plots or grouping.
- Constant information and communication with housing communities.





Residential buildings

Number of multi-apartment buildings	TA 1 – 16 (2 renovated) TA – 103
Number of apartments	TA 1 – 440 TA – 5400







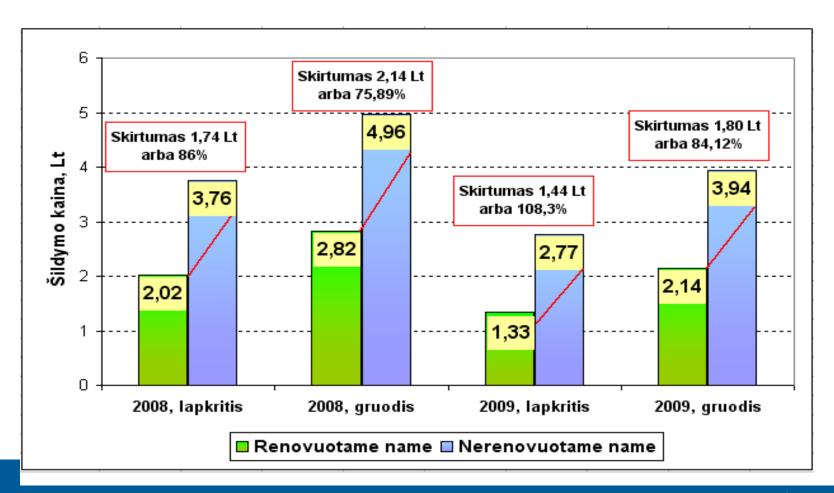
Residential buildings

- Typical building types constructions, materials, number of floors and apartments:
 - TA1:
 - a) brick-built houses;
 - b) 5 floor;
 - c) 30 apartments
 - TA2.
 - Mainly prefabricated houses;
 - 5 floor (there are 3 of 12 floors and 7 of nine floors);
 - From 45 up to 120 apartments.





Comparison of average heating price per sq. meter in renovated and non-renovated houses





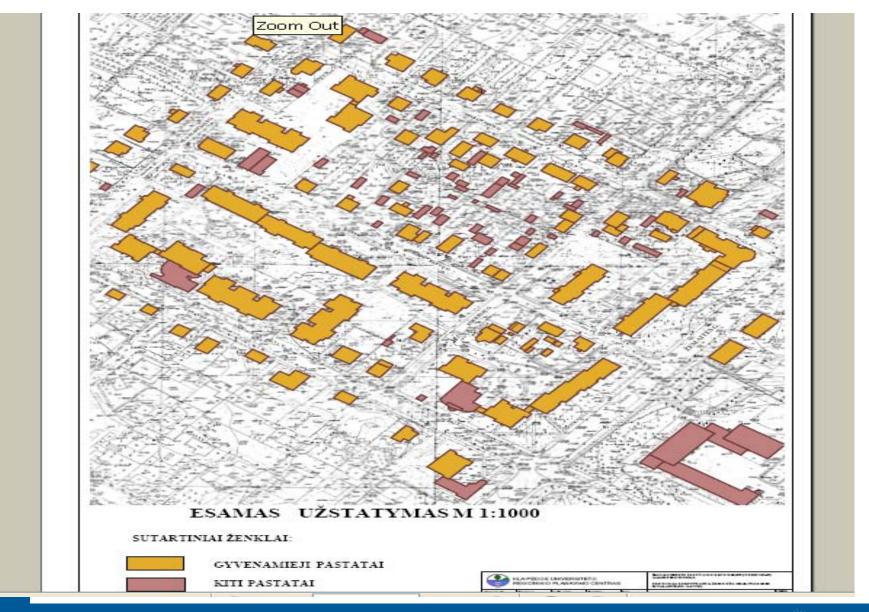




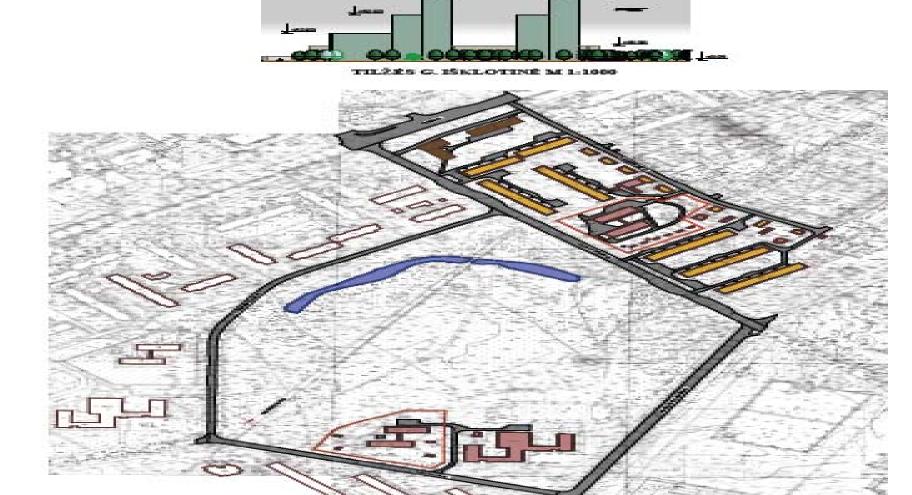
Public buildings













WP 4 Energy Supply UR B Energ				
Pre-school establishment	Address and telephone	E-mail and website	Identification number (code)	
Gintarėlis Kindergarten	Saulės takas 5, Šiauliai LT-78301 8 41 552562 8 41 552 562	gintarelis@splius.lt http://www.gintarelis.mir.lt/	1905 28240	
Kūlverstukas Kindergarten	Krymo g.3, Šiauliai LT-78254 8 41 553021 8 41 553 021	kulverstukas@splius.lt http://siauliai.mok.lt/kulverstu kas	1905 28393	
Speech Therapy Kindergarten of Šiauliai	Lieporių g.4, Šiauliai LT-78244 8 41 552744 8 41 552 744	logopedinisdarzelis@splius.lt www.logopedinis.mir.lt	1905 28774	
Voveraitė Kindergarten	Saulės takas 7, Šiauliai LT-78302 8 41 552591 8 41 552 591	voveraite@splius.lt http://voveraite.mir.lt	1905 28055	
Klevelis Kindergarten of Šiauliai	Miglovaros g. 26, Šiauliai	klevelis@splius.lt http://www.klevelis.mir.lt/	190528393	
Trys nykštukai Kindergarten of Šiauliai	Tilžės g. 41, Šiauliai	klevelis@splius.lt http://www.klevelis.mir.lt/	190530088	
<i>Žirniukas</i> Kindergarten of Šiauliai	M. Valančiaus g. 31A, Šiauliai	zirniukas@splius.lt http://www.zirniukas.mir.lt	190527715	







Establishment	Address and telephone	E-mail and website	Identification number (code)	Number of students on 1 September 2008 (incl. the preparatory grade)	School reorganisation			
GYMNASIUMS	GYMNASIUMS							
Saulėtekio gymnasium of Šiauliai	Lieporių g.2, Šiauliai LT-78244 8 41 552748 8 41 552 748	sauletekis@splius.lt http://www.sauletekis.lt	2905 32510	738	N/A			
Lieporių gymnasium of Šiauliai	V. Grinkevičiaus g.22, Šiauliai LT- 78254 8 41 450214 8 41 450 214	lieporiai@splius.lt http://www.lieporiai.lt	1905 32324	801	N/A			
SECONDARY SCHOOLS								
Gegužių secondary school of Šiauliai	Dariaus ir Girėno 22, Šiauliai LT-78302 8 41 552560 8 41 552 560	rastine@geguziai.lt, http://www.geguziai.lt	1905 32281	771	Expected to be reorganised into a basic school			
PRIMARY SCH	PRIMARY SCHOOL							
Lieporių primary school of Šiauliai	Krymo g.1, Šiauliai LT-78254 8 41 553017 8 41 553 017	lieporiu pradine moky kla@splius.lt	1905 28436	291	N/A			







Energy supply

- The heat producers and suppliers:
 - "Siauliai Energy";
- The energy supply infrastructure:
 - Thermal energy required for district buildings for heating, ventilation and preparation of hot water is supplied from the municipal centralised supply system, which consists of large heat sources (boiler-rooms) and a wide network of main and district underground heat pipelines operating according to 120 70 Co temperature schedule.
 - Natural gas supply and networks. Natural gas is used in residential buildings only for the purpose of cooking.
 - Modernization of energy supply system and energy losses.







Energy supply

- Energy sources:
 - Gas;
- Cogeneration:
 - ,,Siauliai Energy" got financial support for building a cogeneration;
- Renewable Energy Sources
 - None.







Stakeholders

- The stakeholders involved in Urb.Energy project:
 - Housing communities
- The special demand:
- Complains about narrow streets which are blocked up by cars;
- Bad condition of yards and sidewalks;
- Necessary to solve the problems concerning property, without special documents (detailed plans) the process of houses rehabilitation can not be started.
- Trees are required along Tilze street in order to reduce the level of noise and pollution which is caused by cars;
- Suggestions to use free land plots for establishment of playing grounds;
- Suggestions to establish small recreation islands with benches, small tables and trees;
- Suggestions to forbid the chaotic restoration of balconies and house facades;
- Complains about car owners who park their cars on the grass;
- Requests to prepare typical technical projects for rehabilitation.







THANK YOU FOR YOUR ATTENTION!

