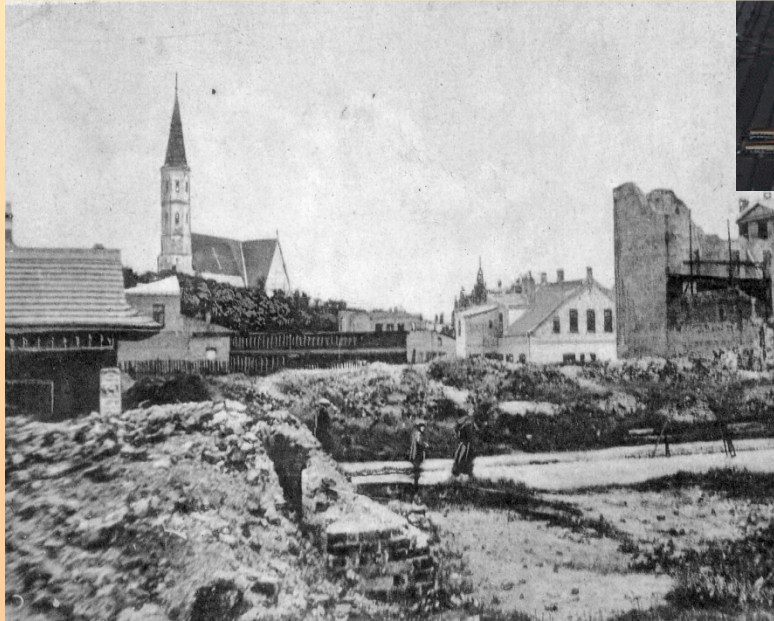




# **EXPERIENCE OF ŠIAULIAI CITY MUNICIPALITY ORGANIZING RENOVATION OF MULTI- FLAT HOUSES**

**Daiva Matonienė,  
Deputy Mayor of Šiauliai City,  
Chair of working group for modernization of multi-flat houses  
September 17, 2009  
Šiauliai**

# ŠIAULIAI YESTERDAY



# ŠIAULIAI TODAY

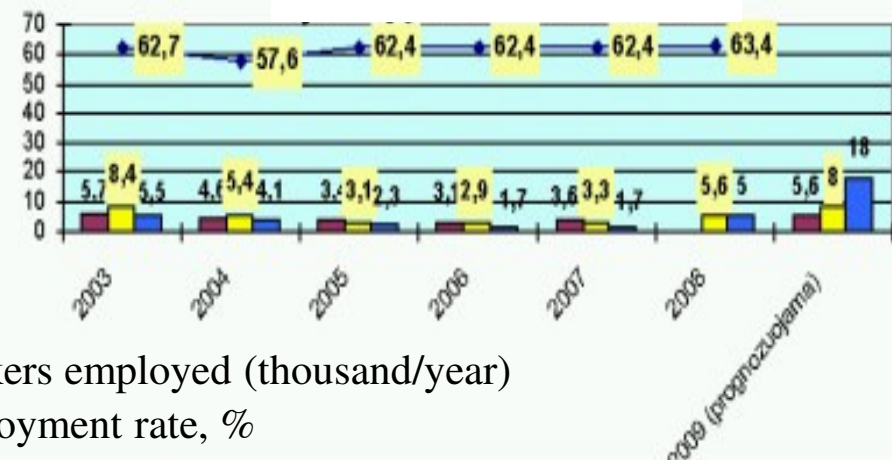


# DYNAMICS OF POPULATION NUMBER IN ŠIAULIAI CITY

## Number of Inhabitants in Šiauliai City, 2005-2008



## Employment and Unemployment



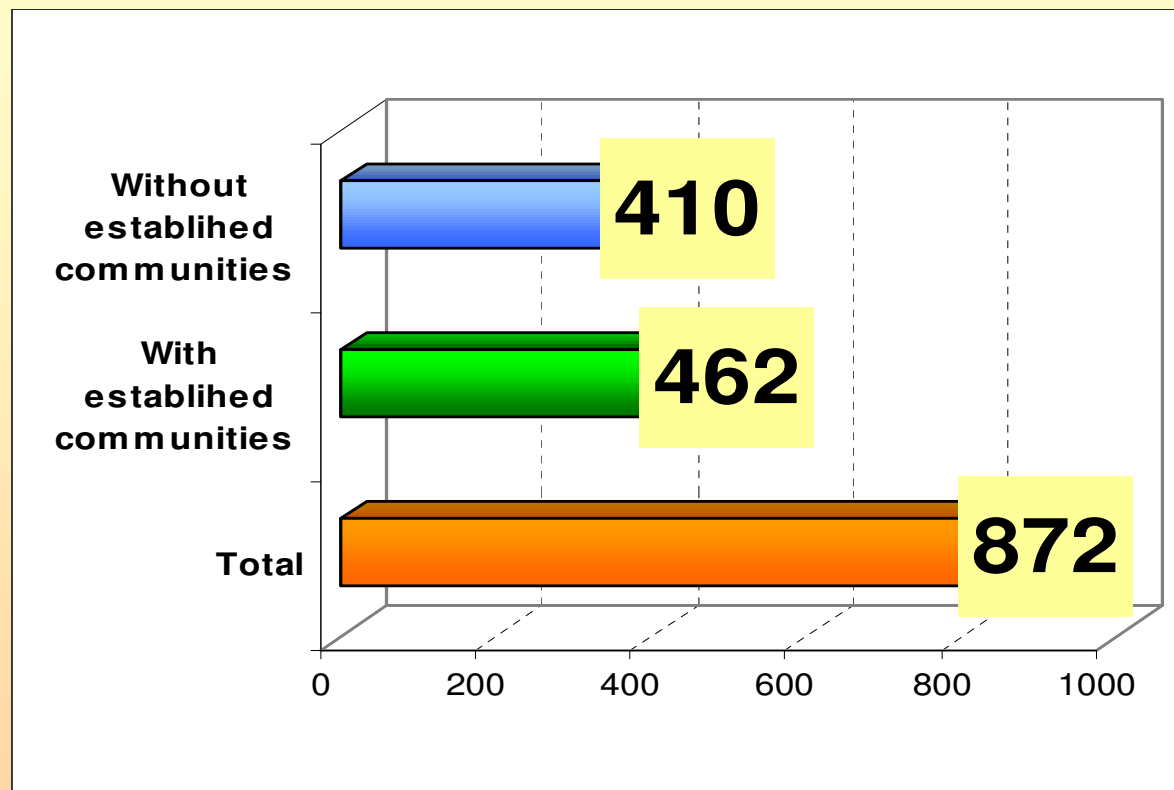
Job seekers employed (thousand/year)

Unemployment rate, %

Unemployed (thousand)

Employed (thousand)

# MULTI-FLAT HOUSES IN ŠIAULIAI



- **872** multi-flat houses having from 1 to 206 flats
- **462 (52%)** multi-flat houses with established communities
- **410 (48%)** administrated by Šiauliai City local authorities



# MODERNIZATION OF MULTI-FLAT HOUSES IN ŠIAULIAI

**44** communities have investment projects

**22** multi-flat house communities concluded house renovation contracts

**14** multi-flat houses are renovated





**P A D Ė K A**

**ŠIAULIŲ MIESTO  
SAVIVALDYBEI**

**UŽ DIDŽIAUSIĄ PAŽANGĄ  
ĮGYVENDINANT  
DAUGIABUČIŲ NAMŲ  
MODERNIZAVIMO  
PROGRAMĄ**

Aplinkos ministras

Vilnius, 2007

  
ARŪNAS KUNDROTAS



# **ŠIAULIAI CITY MUNICIPALITY ROLE IN MULTI-FLAT HOUSE RENOVATION PROCESS**

- **2002 – special Multi-flat House Support Fund established at Šiauliai City Municipality.**
- **Financial support for different repair works – 746 thousand Litas.**
- **381 communities received support.**
- **462 multi-flat houses with established communities.**
- **Šiauliai City Municipality covers energy audit and investment project development expenses.**
- **In 2008, 68,2 thousand Litas allocated for municipal premises within multi-flat houses in renovation process, in 2009 – 50 thousand Litas respectively.**



July 2, 2007 under the Mayors Decree  
No M-62

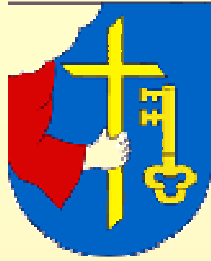
**Working group for multi-flat house  
modernization  
was established at Šiauliai City  
Municipality**





## **ACTIVITY OF THE WORKING GROUP**

- **Every other month meetings with chairmen of multi-flat house communities.**
- **Information dissemination on laws and other current information.**
- **Participation of specialists and lecturers.**
- **Analysis of economic heating consumption**
- **Study visits in other cities and countries**
- **2007, visit to Panevėžys**
- **2008, visit to Pärnu City (Estonia)**
- **Campaign WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN (Šiauliai County and Association of multi-flat house communities)**



# **STUDY VISIT TO PÄRNU CITY (ESTONIA)**

- ✓ **Chairmen of multi-flat house communities visit to Pärnu City on November 28, 2008**
- ✓ **participated 46 representatives.**
- ✓ **Meetings and discussions in Pärnu City with:**
  - ❖ **Asta Tammet – head of Pärnu City multi-flat house association**
  - ❖ **Kristina Kupper - Pärnu City gardener**
  - ❖ **Jano Poopuu - Pärnu City designer**



# **CAMPAIGN WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN**

- **Campaign organized by Šiauliai County and Šiauliai City Association of multi-flat house communities.**
- **Campaign objectives:**
  - ❖ **to promote communities and citizens to maintain buildings, their territories and greenery.**
  - ❖ **to contribute to the positive city image.**
  - ❖ **to shape the citizens responsibility and need to preserve healthy environment.**
  - ❖ **to improve public environmental culture.**



# **CAMPAIGN WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN**

## **Participant evaluation criteria:**

- **maintenance of territory (side walks, entrances, playgrounds, parking places, greenery)**
- **lawns and flowers on the territory (assortment, quality, composition and maintenance)**
- **decorative greenery (assortment, quality, composition and maintenance)**
- **balcony and loggia decoration with flowers**
- **climber plants on facade**
- **participated 56 communities, awarded with 18 grass cutters and different plants from Botanic Garden**





CAMPAIGN  
WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN









CAMPAIGN  
WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN





CAMPAIGN  
WE ARE FOR CLEAN AND FLOURISHING CITY OF SUN

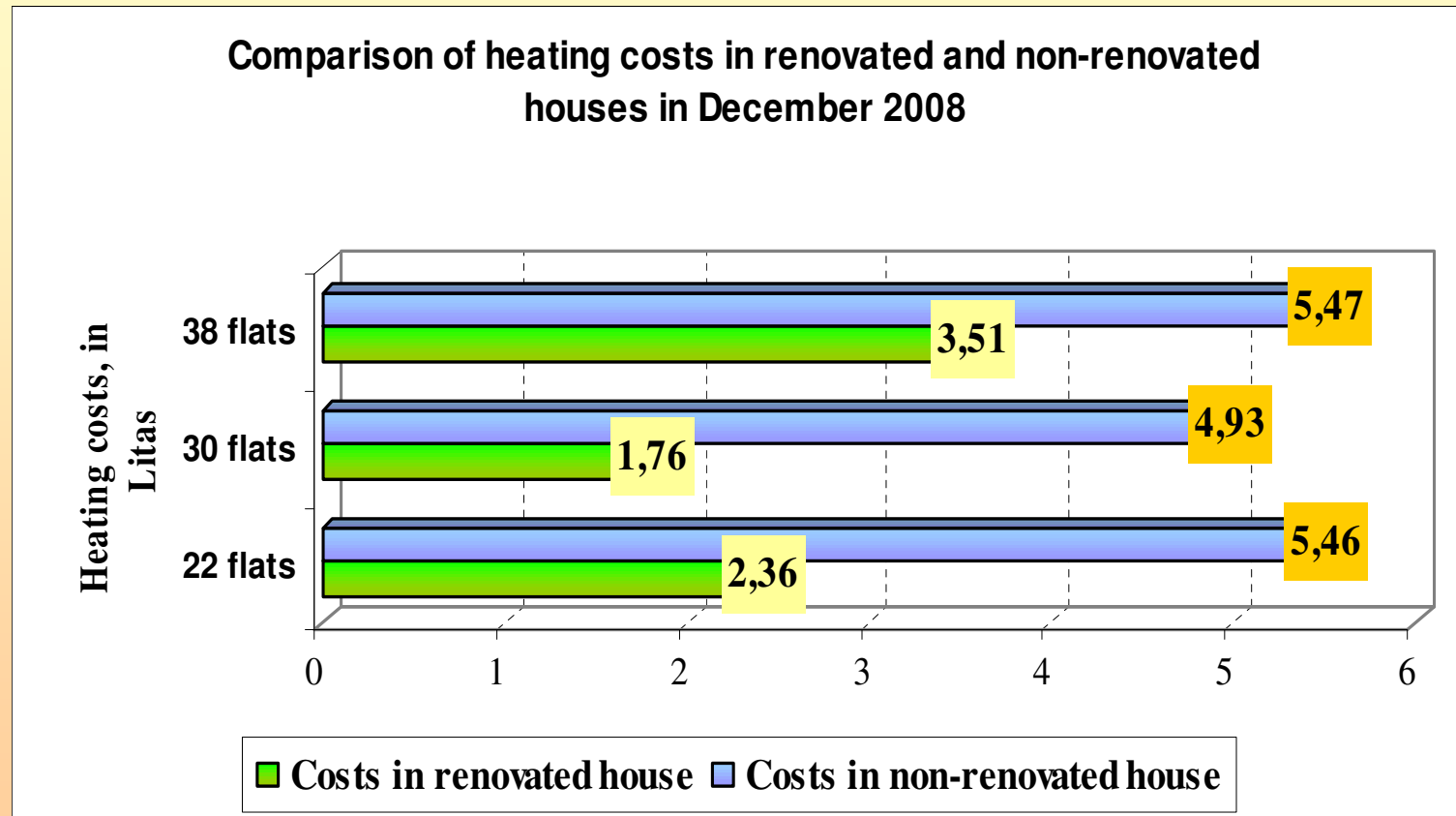


# **ANALYSIS OF HEATING COSTS OF RENOVATED AND NON-RENOVATED HOUSES**

- **Analysis covers renovated multi-flat houses renovated by 2009**
- **Heating cost analysis performed according to the facts provided by the company Šiaulių Energija in December 2008 and January 2009**
- **Analysed heating costs per square meter (incl. VAT) in two month**

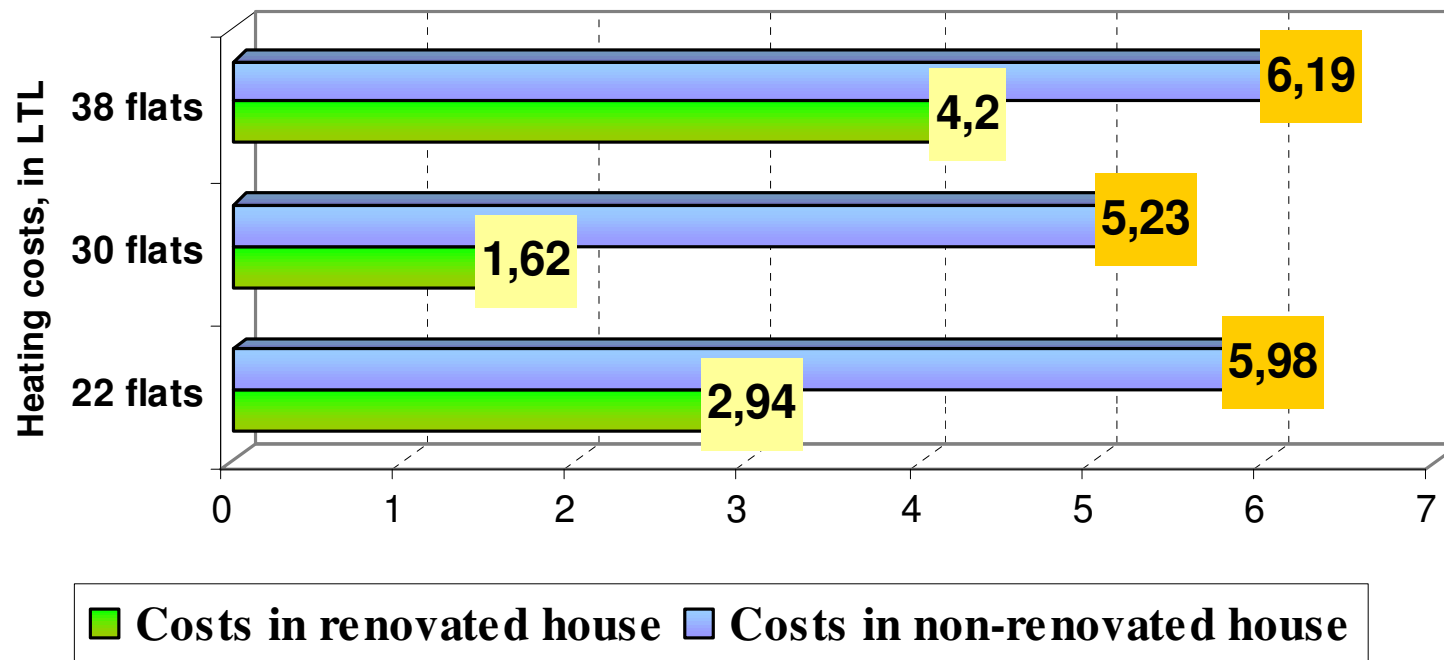
➤December 2008, the owners of fully renovated houses (exterior renovation and modernization of heating system) paid average 2,54 Litass per sq. meter (incl. VAT) while in non-renovated houses (with similar area, number of flats and location) owners paid 5,26 Litass per sq. meter.

**(108 %.)**



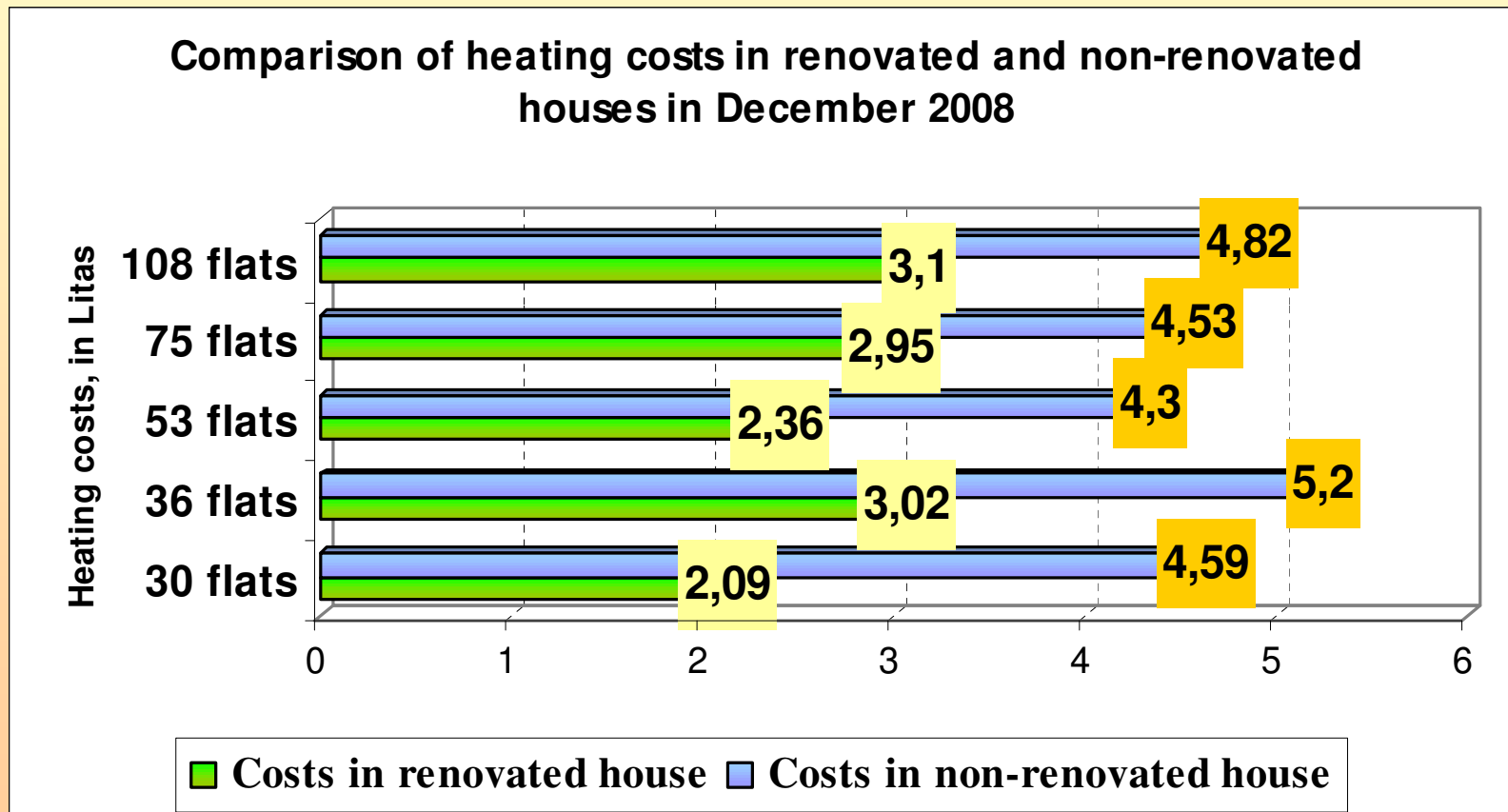


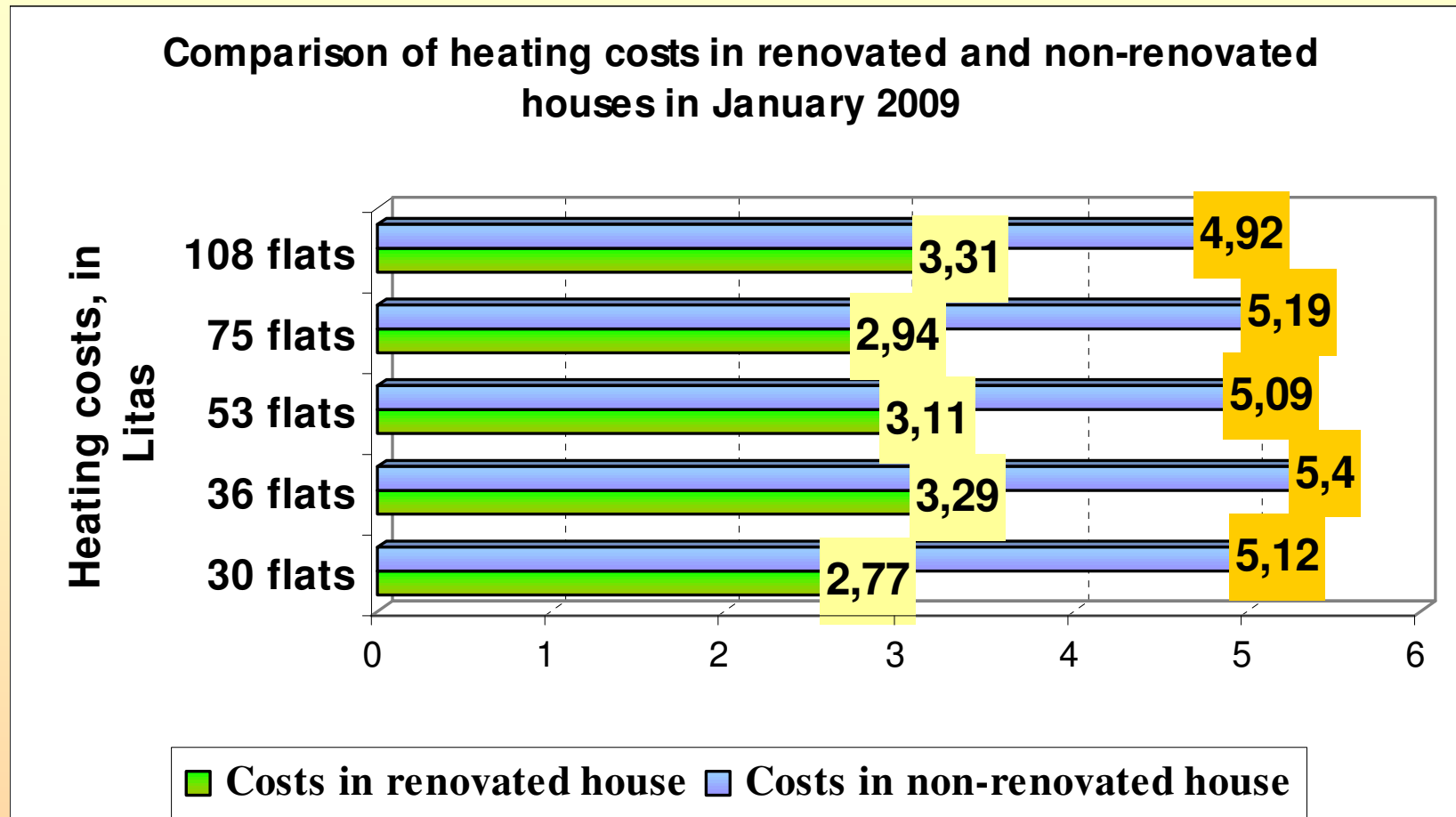
## Comparison of heating costs in renovated and non-renovated houses in January 2009



- January 2009, the owners of fully renovated houses (exterior renovation and modernization of heating system) paid average 2,92 Litas per sq. meter (incl. VAT) while in non-renovated houses (with similar area, number of flats and location) owners paid 5,80 Litas per sq. meter. (98,6 %)

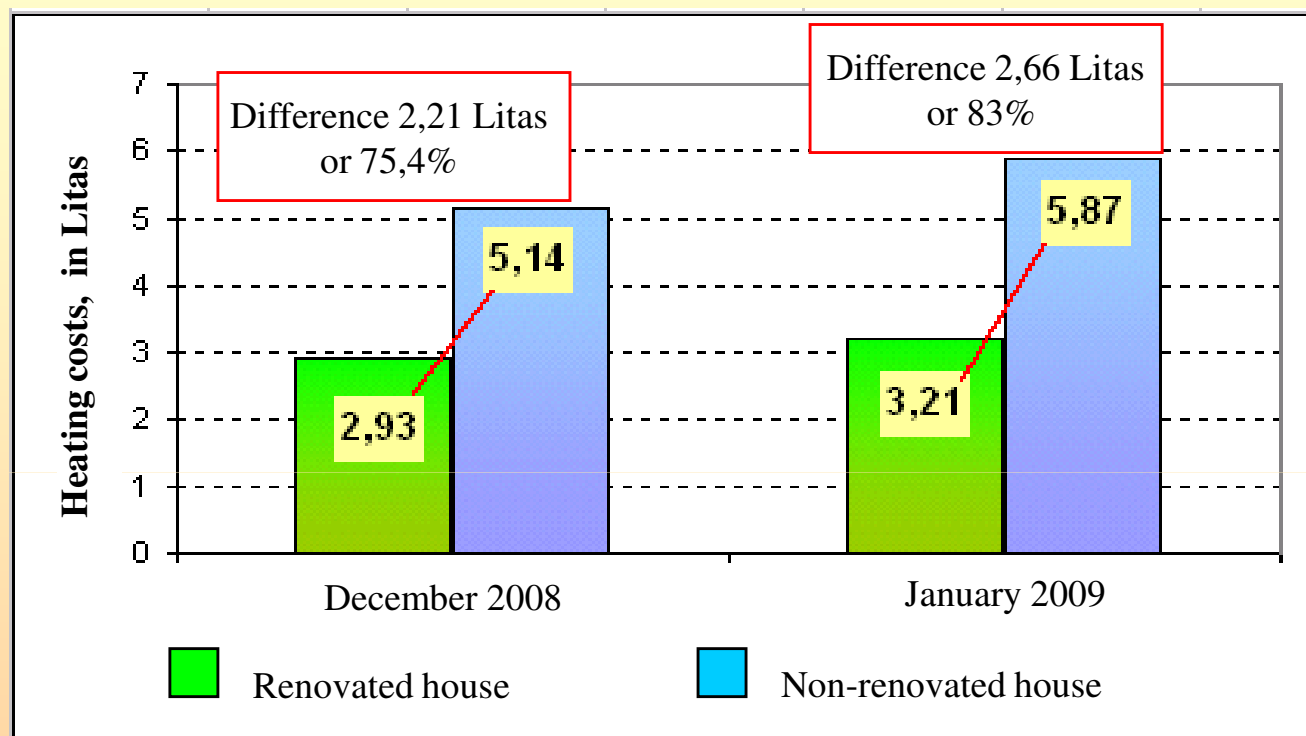
➤ December 2008, the owners of fully renovated houses (exterior renovation and other works) paid average 2,70 Litas per sq. meter (incl. VAT) while in non-renovated houses (with similar area, number of flats and location) owners paid 4,69 Litas per sq. meter. (74 %)






➤ January 2009, the owners of fully renovated houses (exterior renovation and other works) paid average 3,08 Litass per sq. meter (incl. VAT) while in non-renovated houses (with similar area, number of flats and location) owners paid 5,14 Litass per sq. meter. ( 67%).

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



- In December 2008, difference between average heating costs in renovated (13 among 872) and non-renovated (859 among 872) houses – 2,21 Litas (incl. VAT) per sq. meter/month.
- In January 2009 – 2,66 Litas (incl. VAT) per sq. meter/month.
- Therefore, the owners of non-renovated houses for heating pay average 75-83% more in comparison with renovated.

**Analysis of heating costs in renovated and non-renovated multi-flat houses by quantity  
of consumed energy (December 2008 data)  
Average heat cost -27,02 cents/kWh incl. VAT**


	Houses	Consumption of energy	Average heating price per sq.meter (incl.VAT)	Average costs for heating, apartment of 50 sq.meters	Quantity of houses, unit
<b>Multi-flat houses consuming <u>the least of</u> energy</b>	<i>Renovated</i>	under 8 kWh/m <sup>2</sup>	8 x 27,02 ct/kWh = <b>2,16 LTL/m<sup>2</sup></b>	2,16 x 50 = <b>108 LTL</b>	<b>2</b>
	<i>Non-renovated</i>				<b>1</b> in process
<b>Multi-flat houses consuming <u>little of</u> energy</b>	<i>Renovated</i>	under 12 kWh/m <sup>2</sup>	12 x 27,02 ct/kWh = <b>3,24 LTL/m<sup>2</sup></b>	3,24 x 50 = <b>162 LTL</b>	<b>7</b>
	<i>Non-renovated</i>				<b>17</b>
<b>Multi-flat houses consuming <u>little or average of</u> energy</b>	<i>Renovated</i>	under 15 kWh/m <sup>2</sup>	15 x 27,02 ct/kWh = <b>4,05 LTL/m<sup>2</sup></b>	4,05 x 50 = <b>203 LTL</b>	<b>3</b>
	<i>Non-renovated</i>				<b>150</b>
<b>Multi-flat houses consuming <u>average of</u> energy</b>	<i>Renovated</i>	under 20 kWh/m <sup>2</sup>	20 x 27,02 ct/kWh = <b>5,40 LTL/m<sup>2</sup></b>	5,40 x 50 = <b>270 LTL</b>	<b>1</b>
	<i>Non-renovated</i>				<b>457</b>
<b>Multi-flat houses consuming <u>much of</u> energy</b>	<i>Renovated</i>	from 20 kWh/m <sup>2</sup> under 25 kWh/m <sup>2</sup>	25 x 27,02 ct/kWh = <b>6,76 LTL/m<sup>2</sup></b>	6,76 x 50 = <b>338 LTL</b>	<b>0</b>
	<i>Non-renovated</i>				<b>137</b>
<b>Multi-flat houses consuming <u>very much of</u> energy</b>	<i>Renovated</i>	from 25 kWh/m <sup>2</sup> under - 42 kWh/m <sup>2</sup>	average 34 x 27,02 ct/kWh = <b>9,19 LTL/m<sup>2</sup></b>	9,19 x 50 = <b>460 LTL</b>	<b>0</b>
	<i>Non-renovated</i>				<b>97</b>





Picket in Vilnius for house renovation, May 2008





NESTABDY-  
KITE RENO-  
VACIJOS !

The image shows two individuals standing on a paved sidewalk in front of a building with large windows. The man on the left is wearing a light-colored jacket over a striped shirt and dark pants. The woman on the right is wearing a dark jacket and dark pants. They are both holding large white signs with handwritten text. The background includes a tree and a blue car parked on the street.

Ar vyriausybė  
pajėgi spręsti  
žmonių proble-  
mas???

**Thank you for your attention**

