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CONCERTED ACTION
ENERGY EFFICIENCY
DIRECTIVE

Heating and hot water consumption metering and billing in Lithuania

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District heating legal and regulatory framework

- **Law on Heating Sector**
- **Rules of Heat Supply and Consumption**
- Rules of Heat Energy Accounting
- **Rules of Preparation and Application of the Methods of Distribution (Allocation) of the Heat Energy Quantity for Consumers.**
- Procedure of District Heating Price Application and Setting Bills for Heating and Hot Water Consumption.
- Methodology of the Norms of Heat or Other Types of Energy Determination Without Metering.

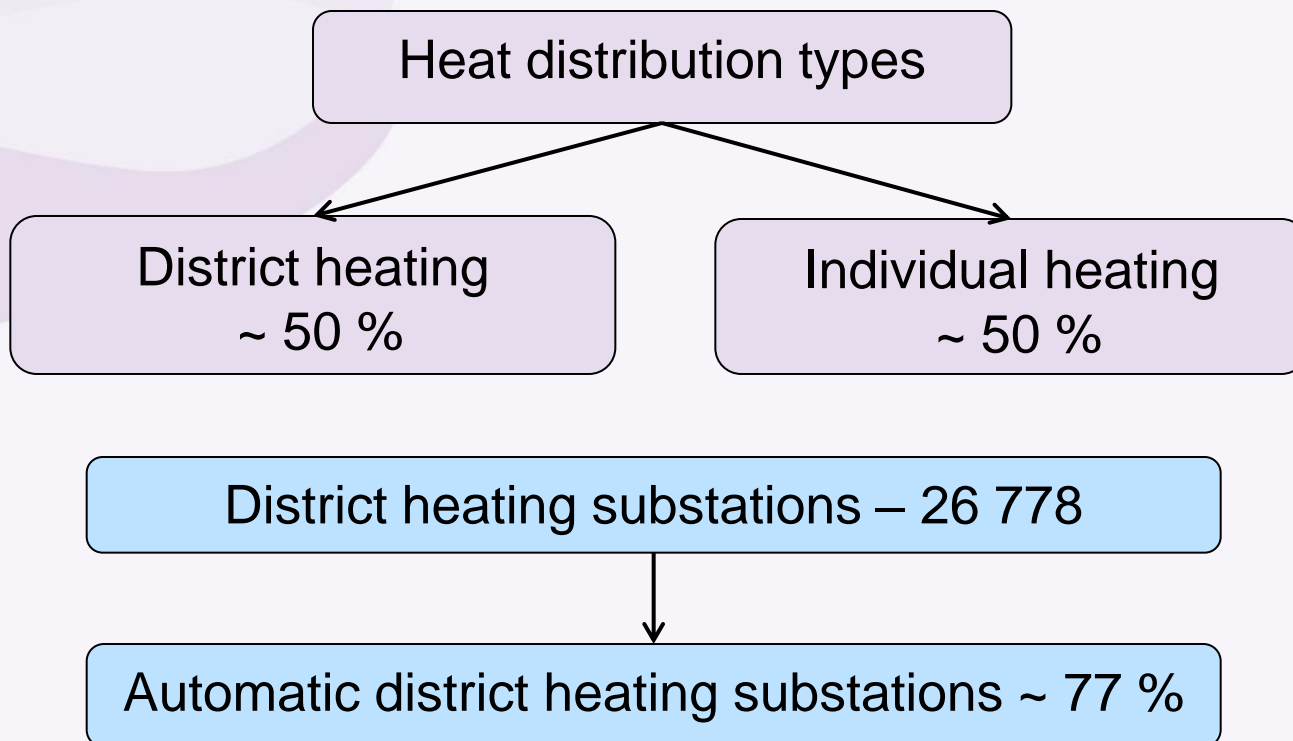


To solve different problems raised in energy sector, consumers can refer to:

- National Commission for Energy Control and Prices
www.regula.lt
- State Energy Inspectorate under the Ministry of Energy the Republic of Lithuania
www.vei.lt
- State Consumer Rights Protection Authority
www.vartotojoteises.lt

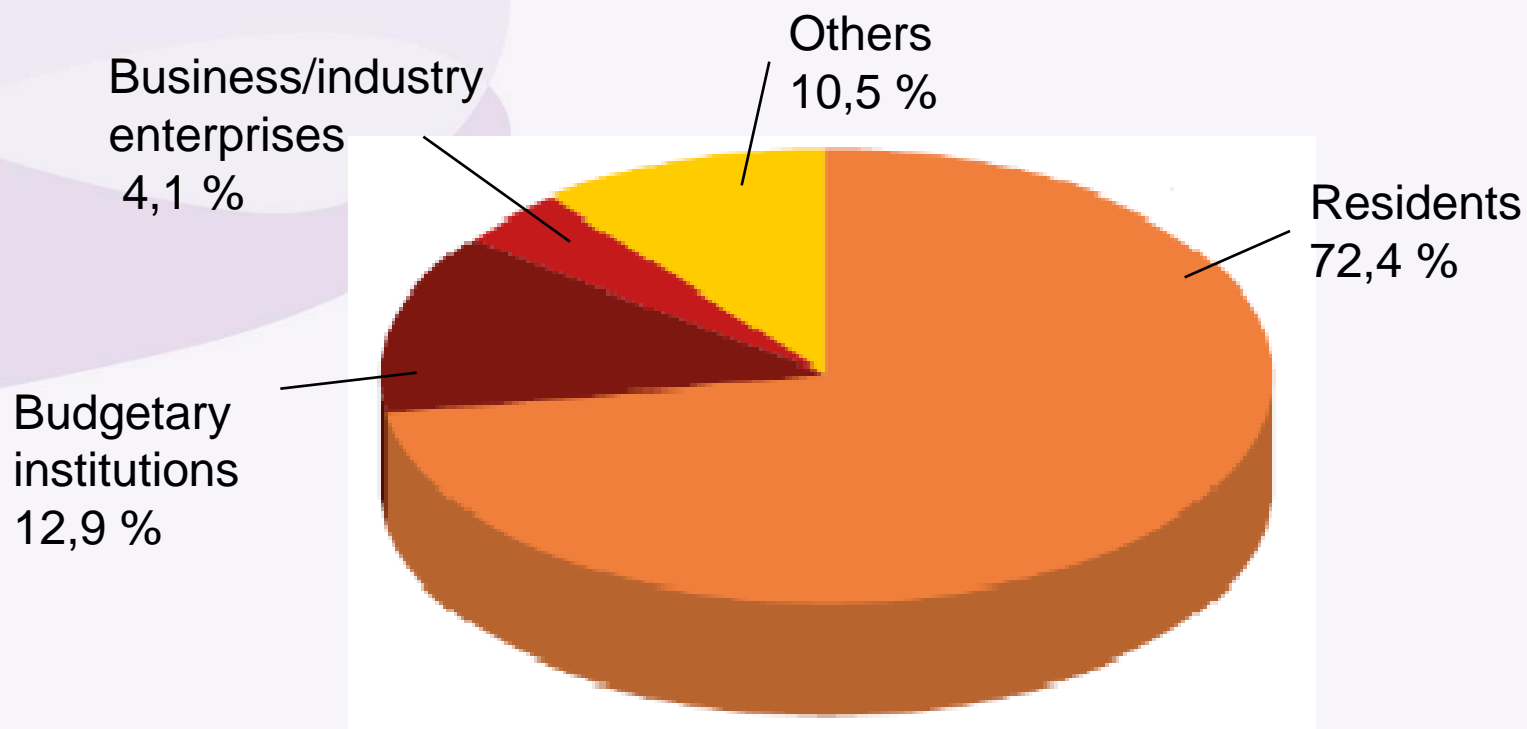


51 heat suppliers was operating in Lithuania in 2012.





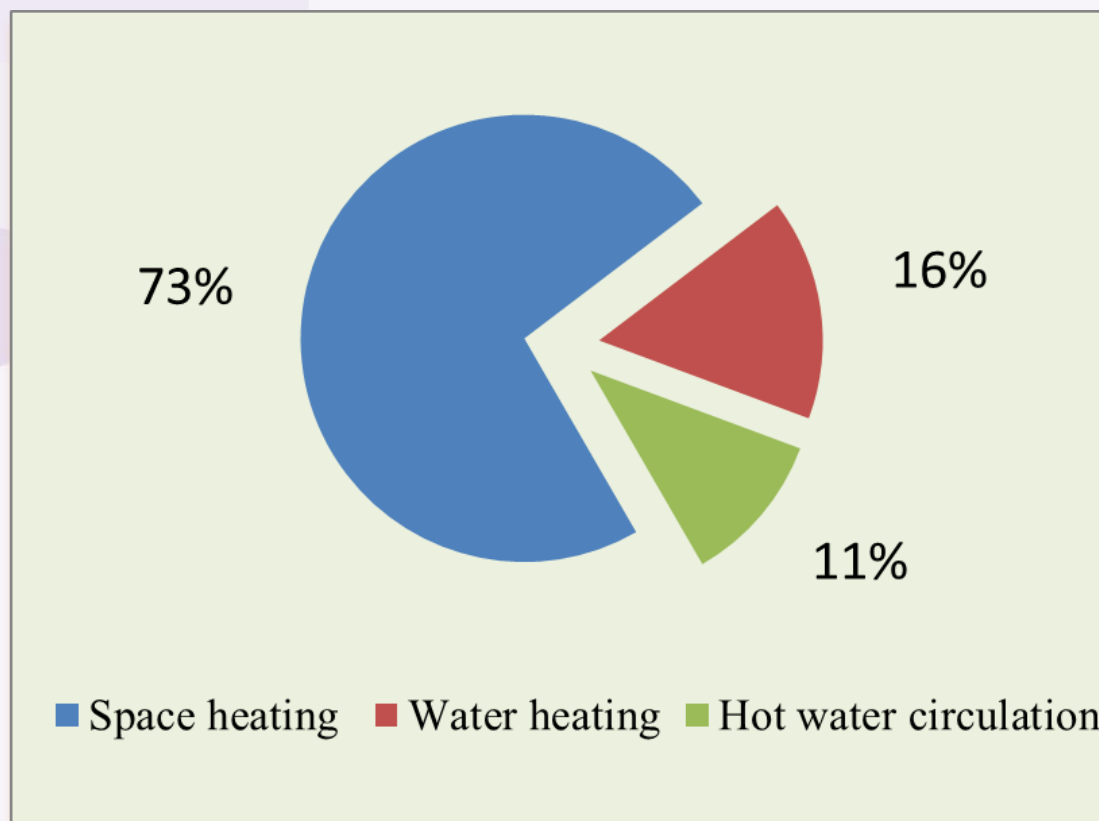
Structure of district heat consumers in 2012



Source: <http://www.lsta.lt/lt/pages/apie-silumos-uki/cst-rodikliai>



Residential heat consumption



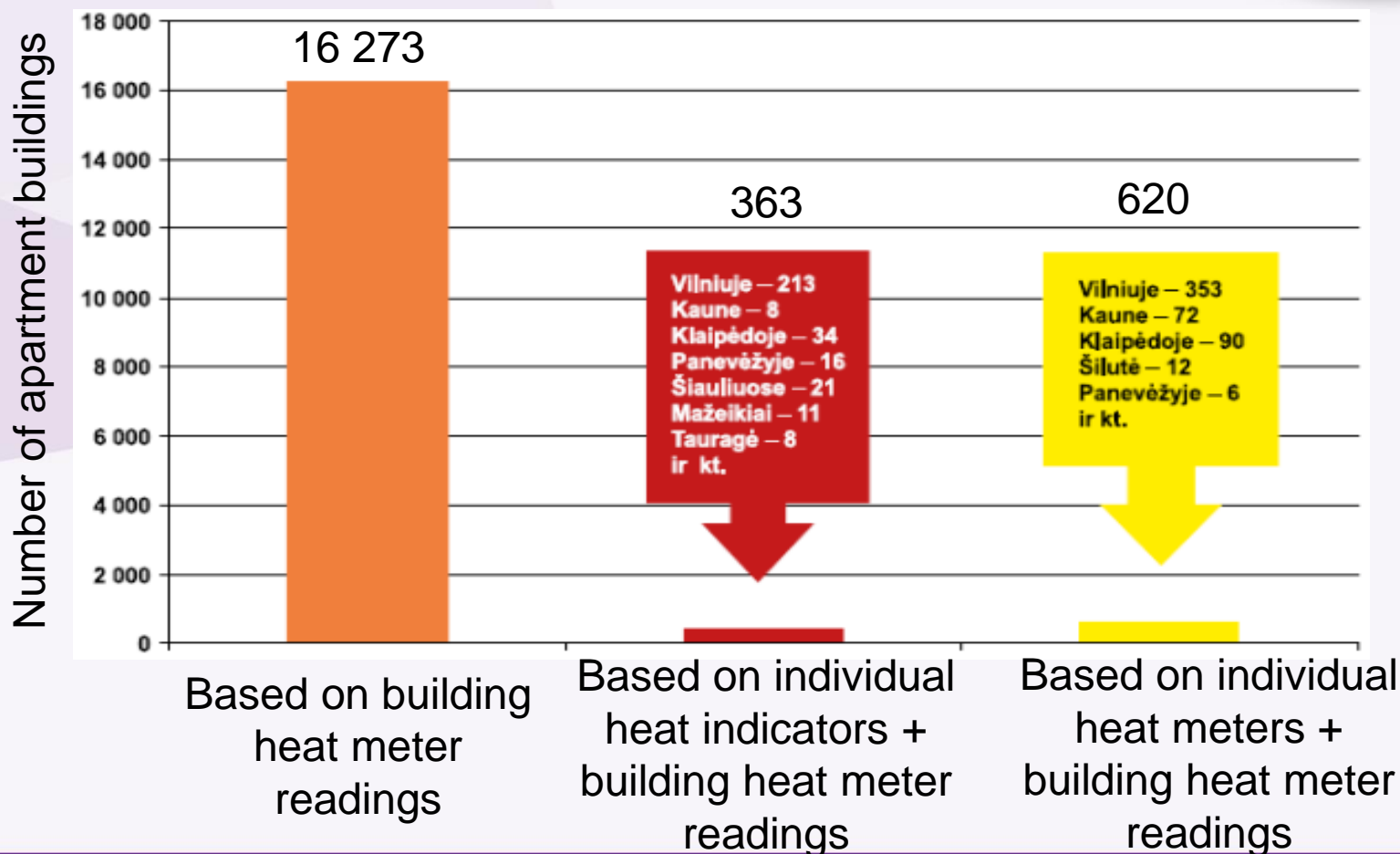


Heat metering in apartment buildings

- Heat distribution is based on building heat meter readings (for apartments and common areas);
- Heat distribution is based on: building heat meter readings (for common areas) + individual heat indicators (for apartments);
- Heat distribution is based on: building heat meter readings (for common areas) + individual heat meters (for apartments).

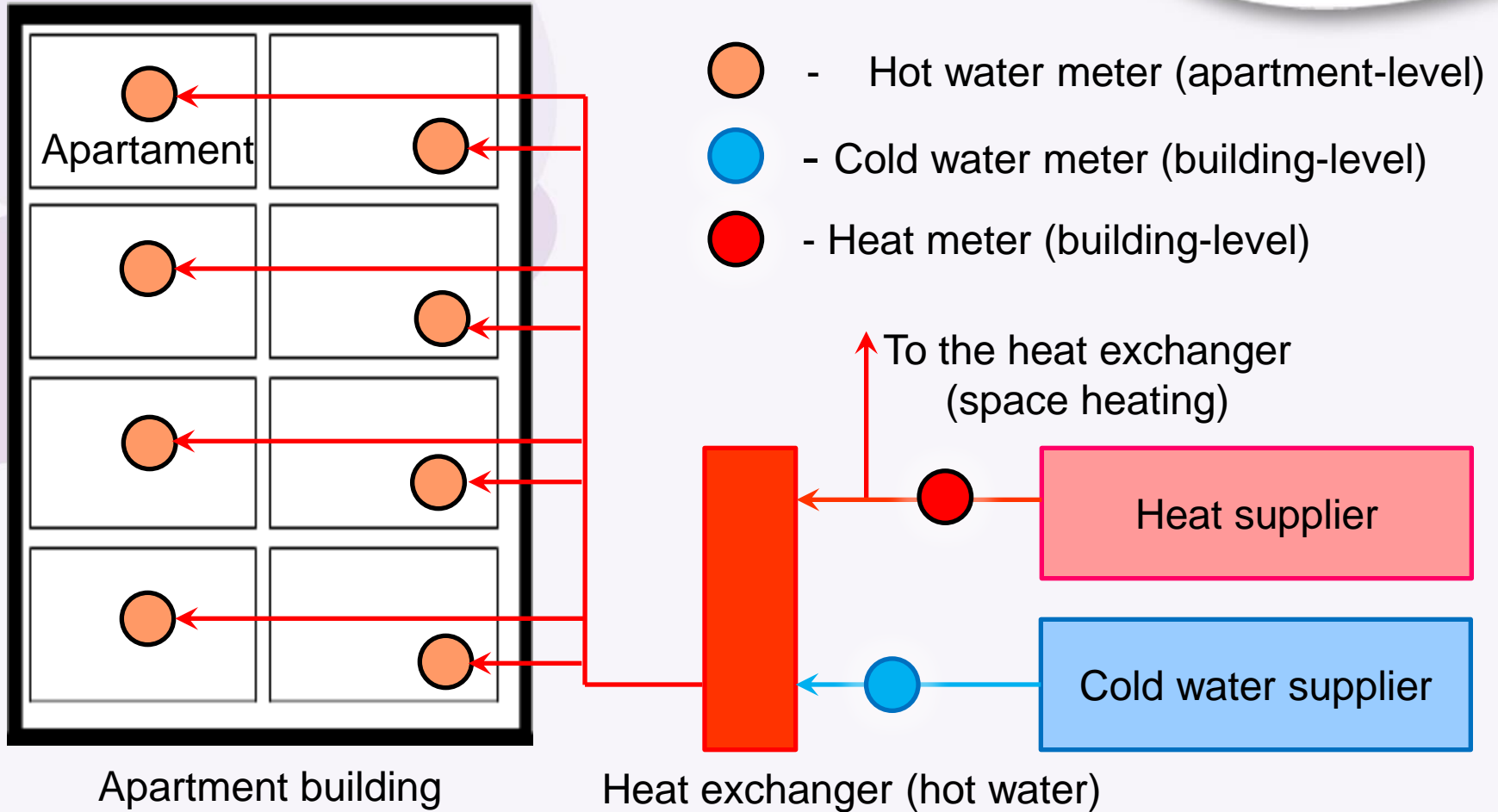


Heat metering in apartment buildings

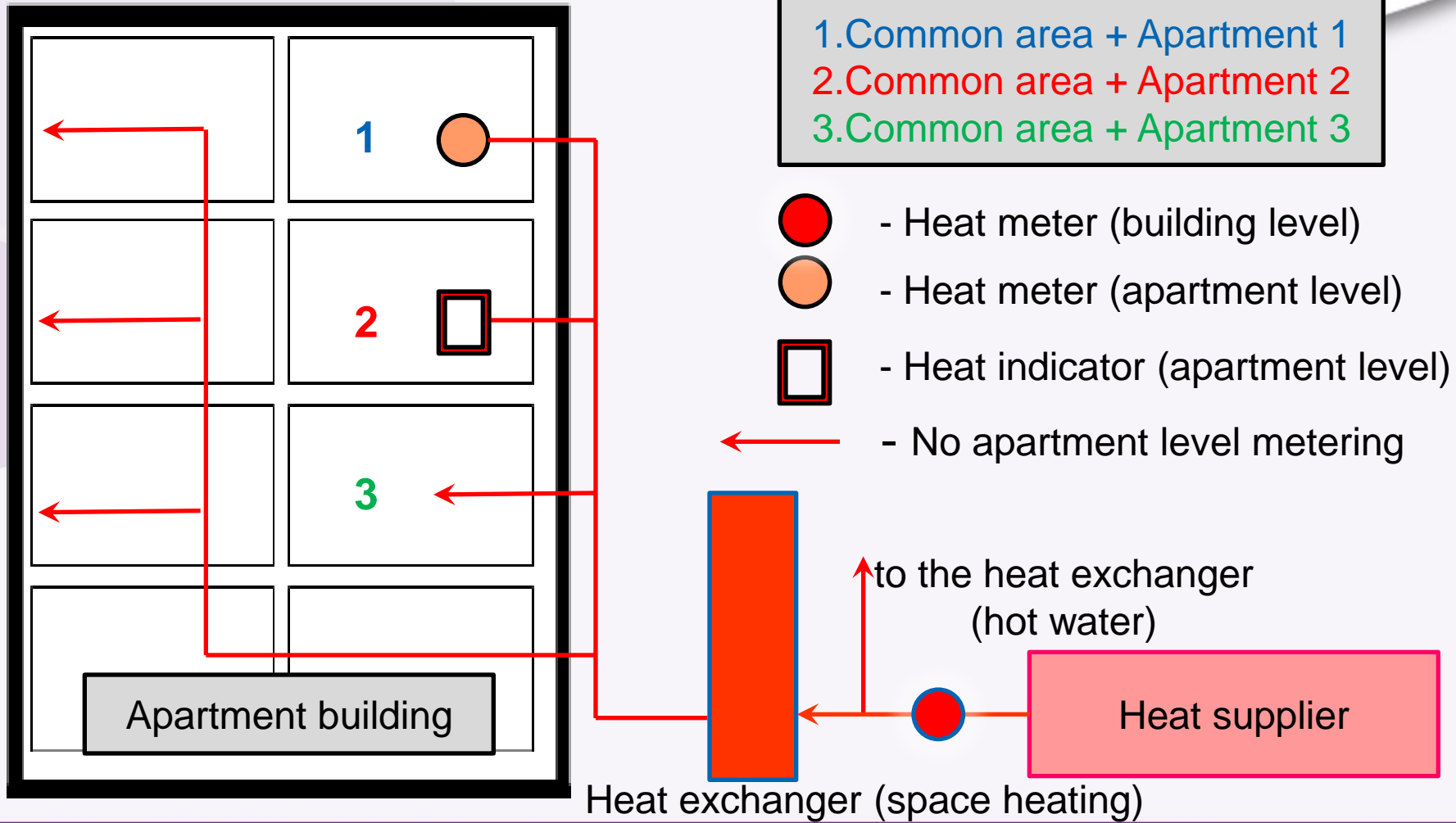


Source: <http://www.lsta.lt/lt/pages/apie-silumos-uki/cst-rodikliai>

Hot water distribution scheme and metering

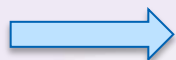


Heat distribution (heating) and metering

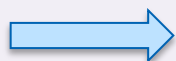




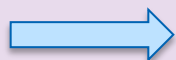
1. Monthly payment for hot water consumption, Lt/apart.



Amount of hot water used, m³/apart.



Water tariff, Lt/m³



Water heating cost, Lt/m³:

- Water heating normative value ~ 51 kWh/m³;
- Heat tariff, ct/kWh

2. Hot water circulation cost, Lt/apart. (~160 kWh/apart.)

3. Monthly payment for space heating, Lt/apart.



- Amount of heat used, kWh/m², kWh/apart.



- Heat tariff, ct/kWh



- Heat energy suppliers present about 17 000 monthly bills for apartment buildings and about 700 000 monthly bills for apartments. Monthly bills include information about heat consumption for space heating, water heating and hot water circulation.
- Monthly bills are compiled according to The Heat Energy for Heating and Hot Water Consumption Forms approved by Minister of Energy of the Republic of Lithuania.



Apartment information provided in monthly bills:

- Contact details of a heat consumer/heat supplier;
- Apartment area (m²) and number of tenants;
- Hot water meter readings (from, to, difference), m³;
- Hot water, Lt/m³, Lt/month;
- Hot water circulation, MWh (based on normative values or meter readings), Lt/MWh, Lt/month;
- Space heating, MWh, Lt/MWh, Lt/month – based on area;
- Space heating MWh, Lt/MWh, Lt/month – based on indicator reading + area;
- Space heating MWh, Lt/MWh, Lt/month – based on individual meter reading + area;
- Used fuel information, Lt;



Example of the bill

Details of the heat supplier

Vilniaus energija

Mokėtojas: [Empty box]

Tiekėjas: **UAB „Vilniaus energija“**
 Jožionių g. 13, LT-02300 Vilnius-53
 Įmonės kodas 111760831
 PVM mokesčio kodas LT117608314
 Įmonės registre kodas UJ 02-57
 Informacija tel.: 1899, (8 5) 266 71 99

Sąskaita Nr. G212/5
 Sąskaita išrašyta 2012 m. gruodžio mėn.
 Už 2012 m. gruodžio mėn.
 Objekto adresas Šviesos g. 4 (BT.1-80) – 78, Vilnius

ĮMŪNŲ KODAS 7846280

Details of the heat consumption

APMOKETI NE VĒLIAU KAIP 2013 m. sausio 31 d.

Paslaugos pavadinimas	Mato vnt.	Kiekis	Vieneto kaina be PVM Lt	Suma be PVM Lt	PVM suma Lt (dydis %)	Suma su PVM Lt	Perskaičia vntų suma su PVM Lt	ES viso Lt
Šiluma k. v. temperatūrai palaikyti	MWh	0,160000	274,40	43,90	3,95 (9%)	47,85	0,00	47,85
Šildymas (pagal daliklių rodmenis)	MWh	0,813600	274,40	223,25	20,09 (9%)	243,34	0,00	243,34
Šildymas (pagal plotą)	MWh	0,262942	274,40	72,15	6,49 (9%)	78,64	0,00	78,64
ES viso už šilumos energiją:				339,30		369,83		369,83
Už dujas				183,87				
Už mazutą				27,33				
Už biokurą				13,97				
Kompensacija už kurą*				25,84				
ES viso už kurą				251,01				
UAB „Vilniaus energija“ dalis kainoje **				88,29				
Karštas vanduo	m ³	3,386000	19,51	66,06	5,95 (9%)	72,01	0,00	72,01
Šilumos kaštų paskirstymo sistemos priežiūra	m ²	50,120000	0,12	6,01	1,26 (21%)	7,27	0,00	7,27
				411,37	37,74	449,11	0,00	449,11

Už neperskaičius šilumos kainų. Remiantis Vilniaus miesto savivaldybės tarybos ir VKEKK 2009 m. spalio 1 d. iki 2014 m. gegužės 31 d. priimtais sprendimais (remontai, technologinis vanduo, personalas, mokesčiai)

Atsiskaitomojo laikotarpio ataskaita

Mėnesio pradžios likutis Lt	322,60
Sumokėta Lt	-322,60
Apskaičiuota per mėnesį Lt	449,11
Mėnesio pabaigos likutis Lt	449,11
Mokėti iš viso Lt	449,11

Water meter readings

Skaitiklio Nr.	Nuo	Iki	Skirtumas
7846280-KV-1	296,884	299,671	2,787
7846280-KV-2	94,243	94,842	0,599

Gyventojų skaičius: 2
 Objekto plotas: 50,12



Actual heat energy consumption of buildings

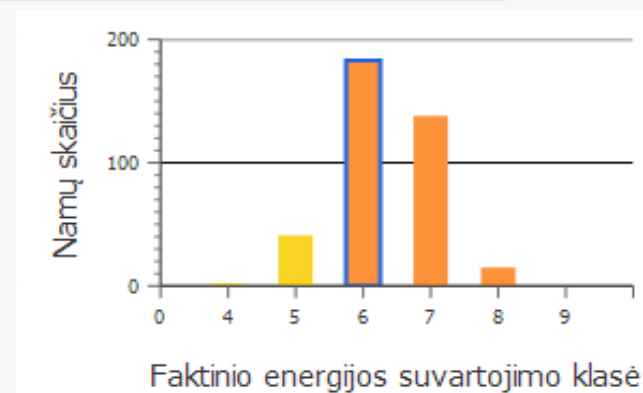


Faktinio energijos vartojimo klasė Dūkštų g. 12

Priartinti

2011-2012 šildymo sezonas: 7
2012-2013 šildymo sezonas: 6 (bloga)

[Daujabučių namų atnaujinimo tvarka](#)



Actual heat energy consumption class

Source: <http://www.vilnius.lt/vmap/t1.php?layershow=siluma>

Thank you for your attention



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