



EUROPEAN
REGIONAL
DEVELOPMENT
FUND



EFFECT4buildings

Green lease results

Jānis Ikaunieks, VPR

08.12.2020

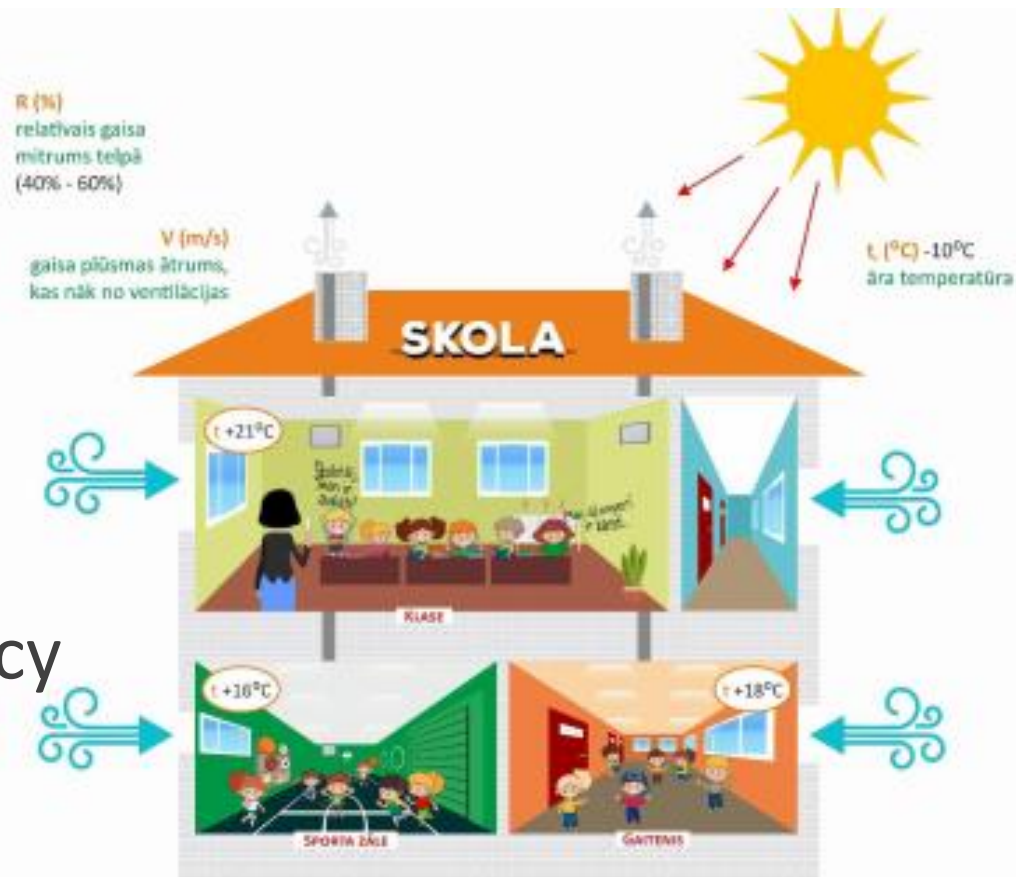


Problematic

➤ Problem:

- Schools do not think about energy consumption
- After renovation the projected consumption is not achieved
- Teachers and technical staff are not motivated to think about energy efficiency

➤ Practice shows that projected savings could be at least 10% against base line.



Green leasing contract

➤ Target audience:

- owner – VPR municipalities
- tenant – VPR schools

➤ 3way agreement between:

- Schools
- Municipalities
- VPR

➤ Contract length 3 years

➤ VPR involvement 1 year



Contract main criteria:

- Buildings have to maintain the same use for 3 years
- There is no planned investment from municipality during contract length
- Municipalities ensure, that energy savings in schools split as follows:
 - **Municipalities keep 33,3%** from savings
 - **Schools keep 66,7%** from savings
- Schools are allowed to spend savings as follows:
 - **50% can be spent as bonuses** for staff (working group)
 - **At least 50%** have to be spent on investment in new energy **efficiency** measures.

Participants

School buildings – **23**

Pupils – **3760**

Total area of school buildings – **53 580 m²**

Total energy consumption

- Group 1:

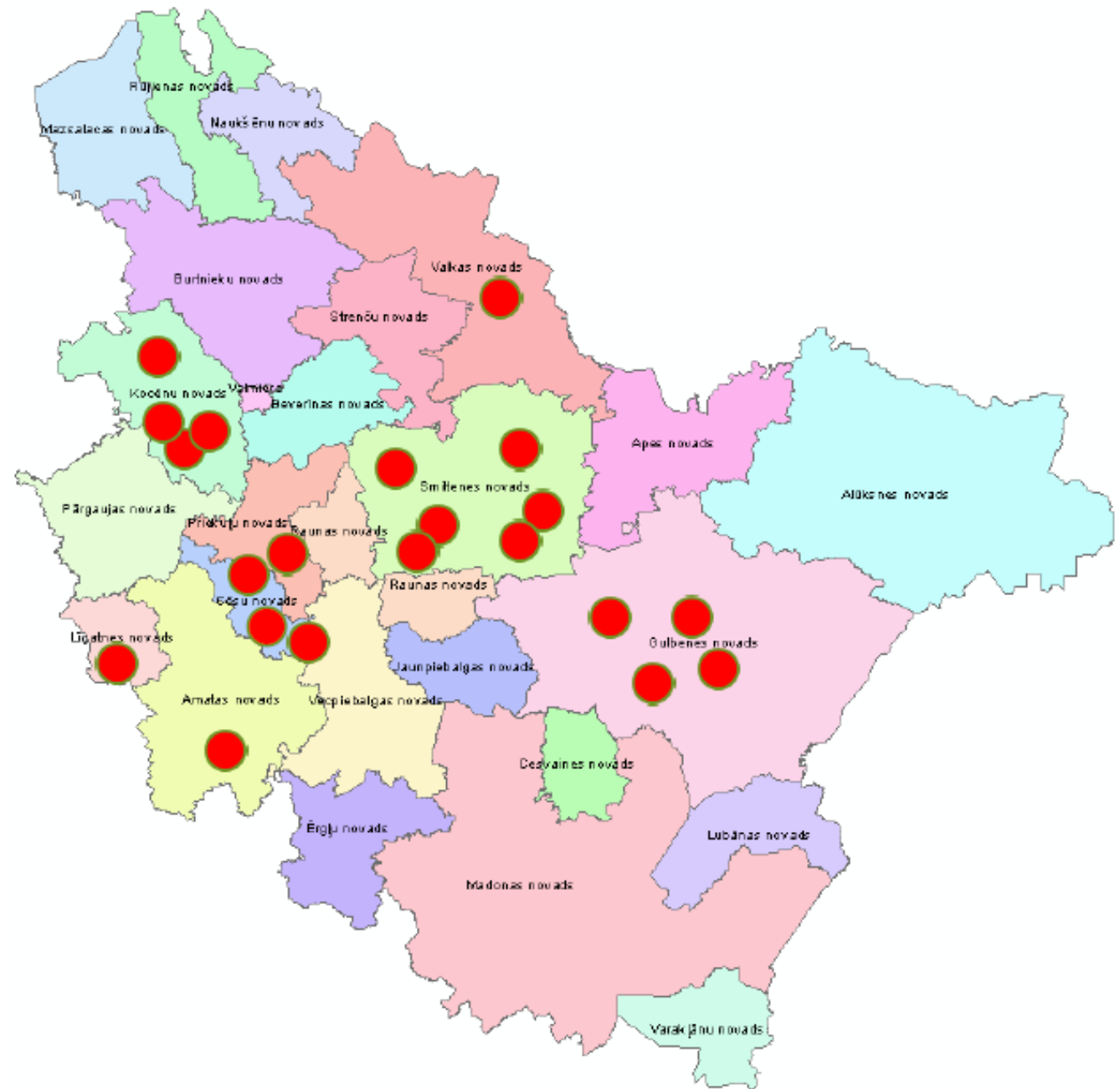
- Heating – **3292 MWh/gadā**
- Electricity – **765 MWh/gadā**

- Group 2:

- Electricity – **288 MWh/gadā**

Total energy costs:

- Group 1: **256 410 EUR**
- Group 2: **34 540 EUR**



Vidzeme planning region

- Organizes the determination of the base line data
- Calculation of monthly energy the savings
- Motivating teachers and pupil
- Development of monthly educational material
- Gathering information about school buildings
- Developing system which could continue to work without VPR

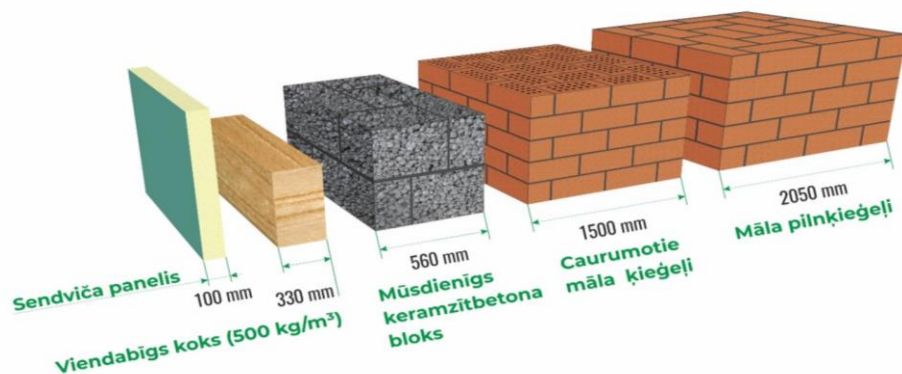
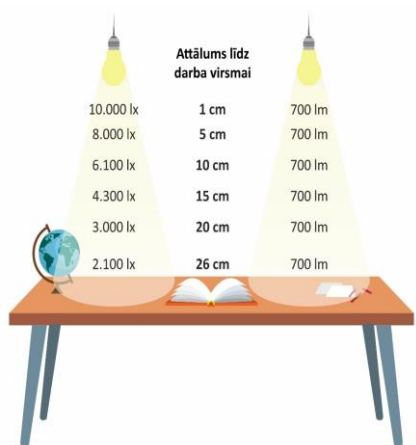
Datums	Mēneša tēma
01.2019.	Energy consumption in buildings
02.2019.	Heating
03.2019.	Electricity
04.2019.	Energy types
05.2019.	Climate change
06.2019.	
07.2019.	Vacation
08.2019.	
09.2019.	Lighting
10.2019.	Ventilation
11.2019.	Water
12.2019.	Energy efficiency in systems

Teaching materials

Teaching materials for schools energy consumption reduction:

1. Teaching material for pupil
2. Support material for teachers

http://jauna.vidzeme.lv/upload/EFFECT4buildings/Efektivs_enerģijas_paterins_izglitibas_iestades.pdf



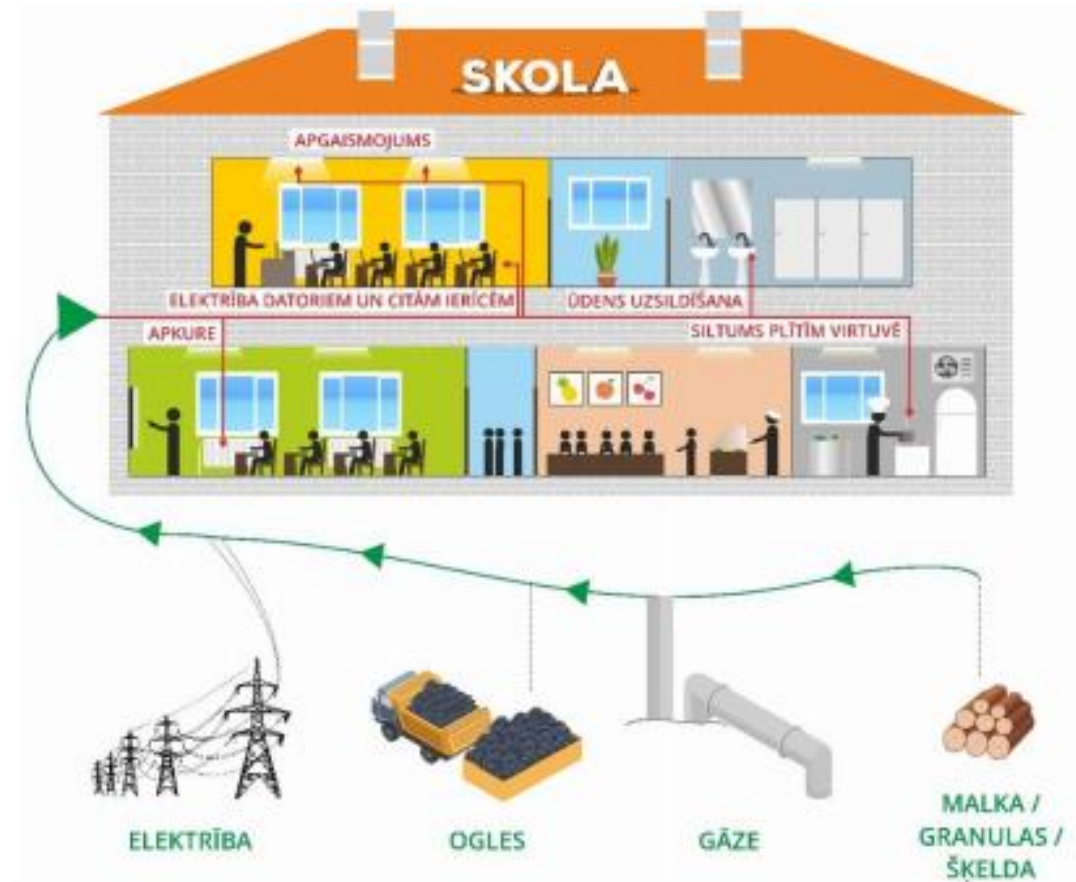
Efektīvs enerģijas patēriņš izglītības iestādēs

9 mācību materiāli un atbalsta materiāli skolotājiem



Schools

- Delivers baseline information about objects
- Read, register and analyze energy consumption
- Involve pupil in energy saving activities
- Engage in VPR organized events
- Reduce energy consumption, without reducing comfort level
- Plan energy efficiency measures





SILTO DŽEMPERU DIENA

1. Skolas telpās -
nedaudz samazināta temperatūra
=
apkures jaudas samazināšana

2. Pārrunas par Zemes stundu
=
izpratne, kāpēc visi cilvēki pasaulē
ir aicināti to ievērot

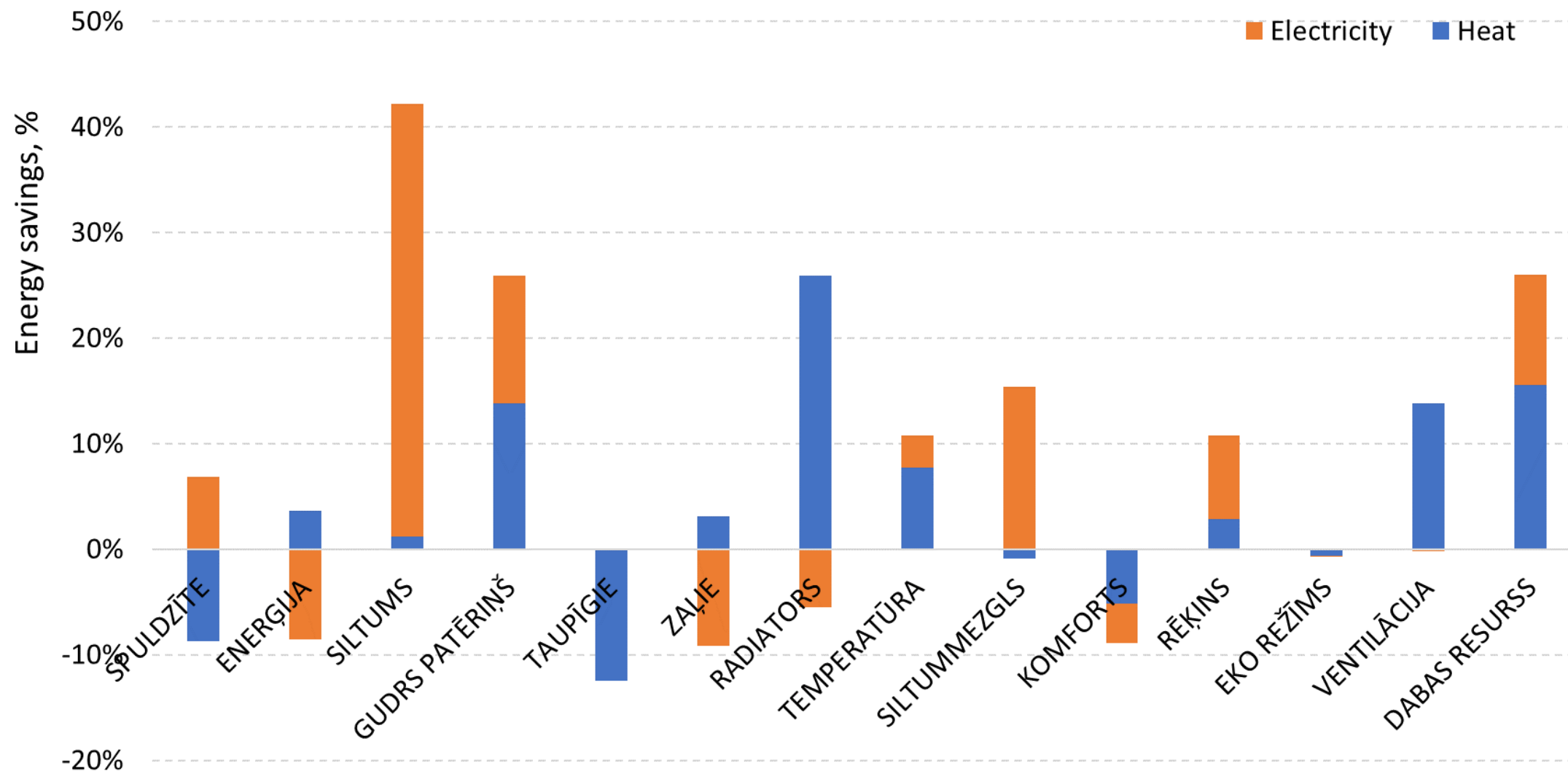


NECEPIES!

NOREGULĒ RADIATORUS!

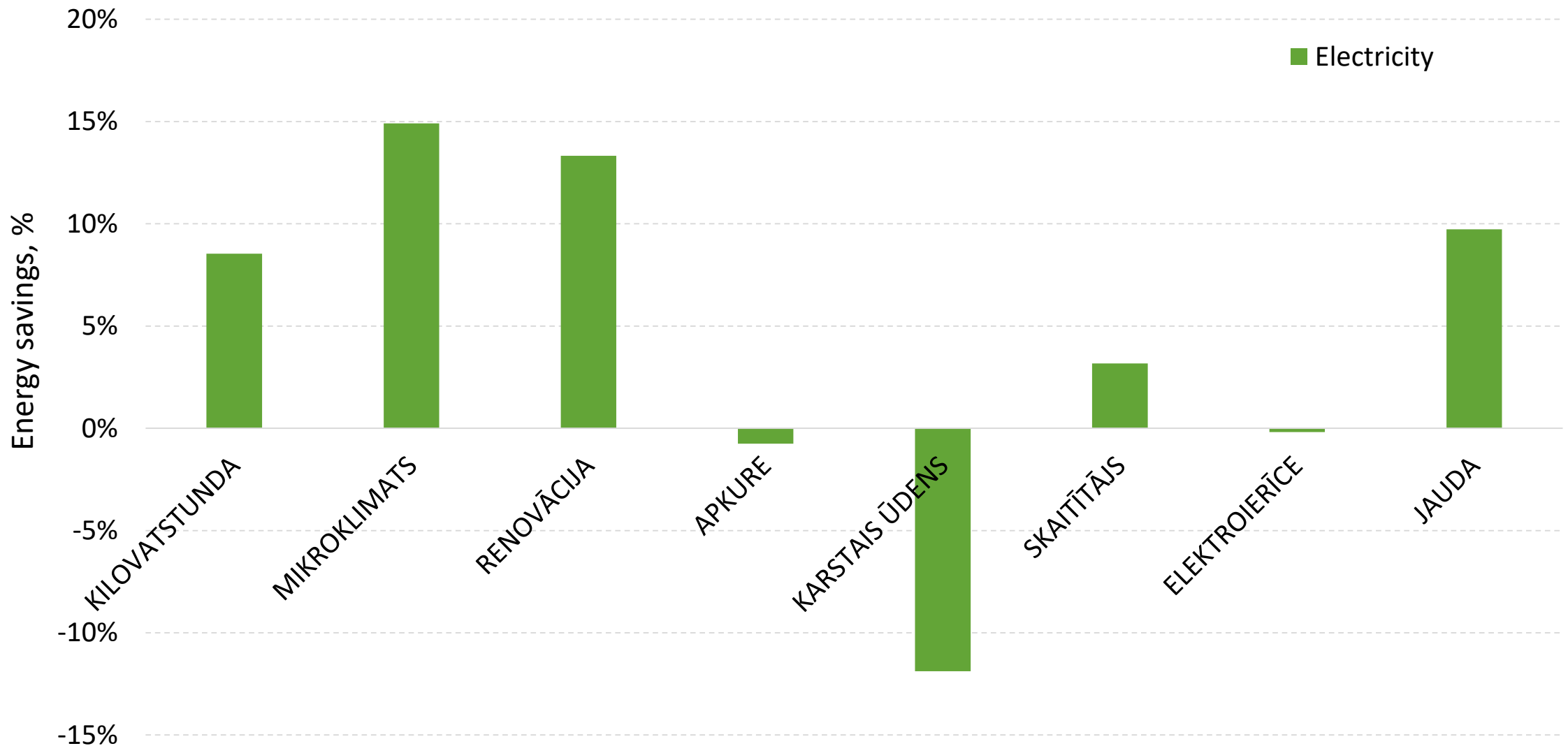


Schools saving heat and electricity



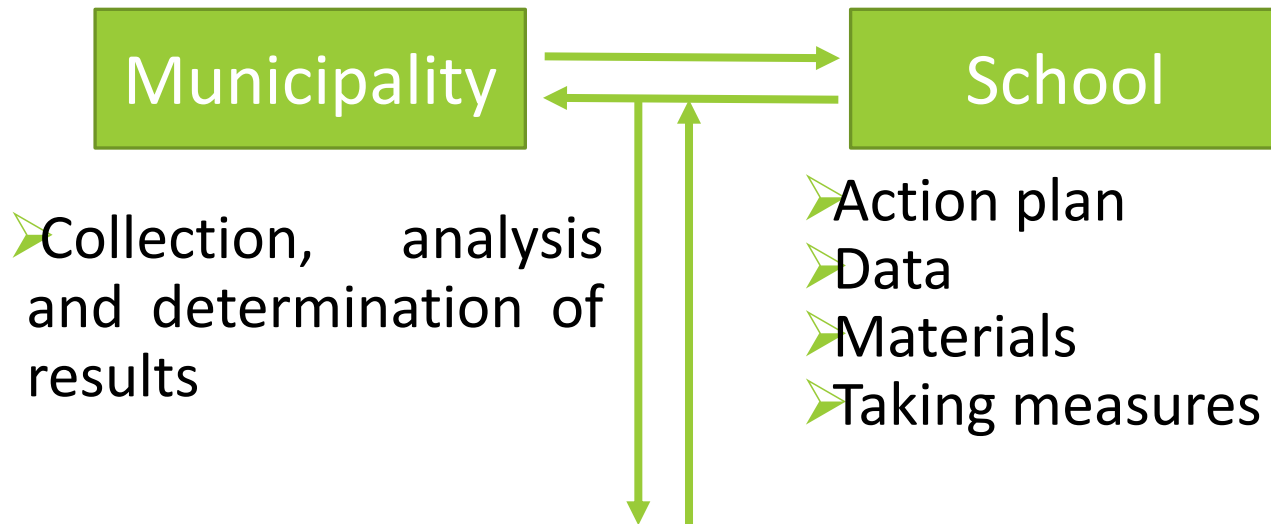
KOPĀ: ➤ 181,29 MWh ➤ 4,3% ➤ 11146 EUR

Schools saving only electricity



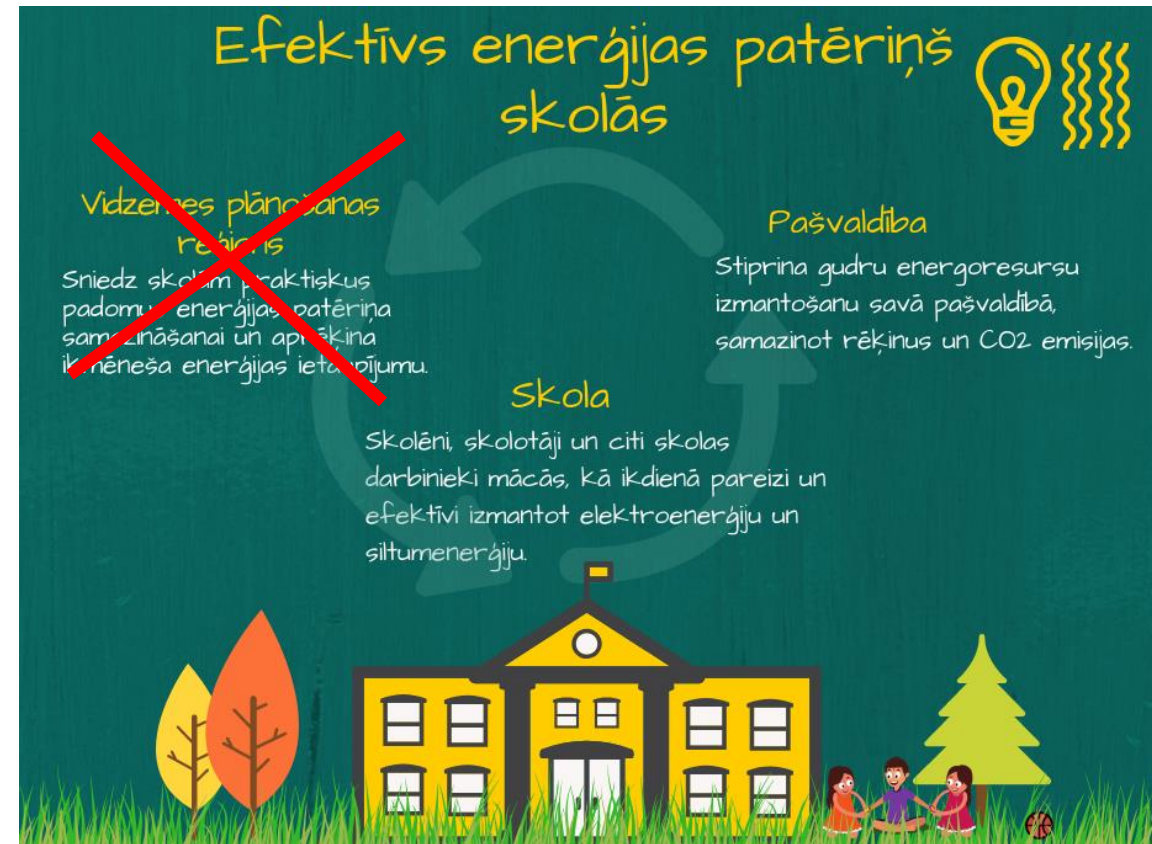
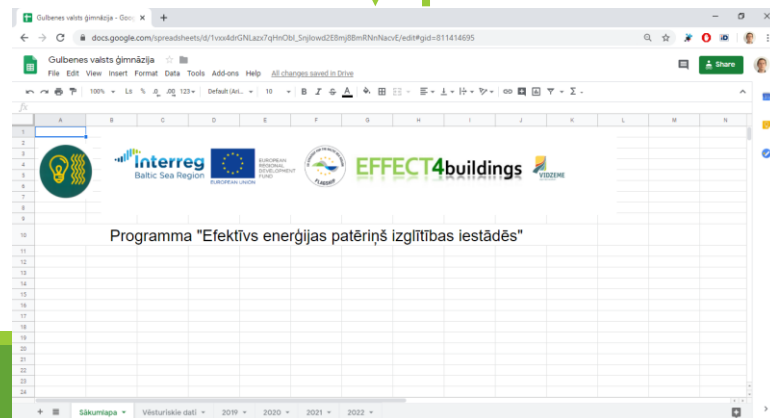
KOPĀ: ➤ 14,415 MWh ➤ 5,0% ➤ 1730 EUR

Continuation



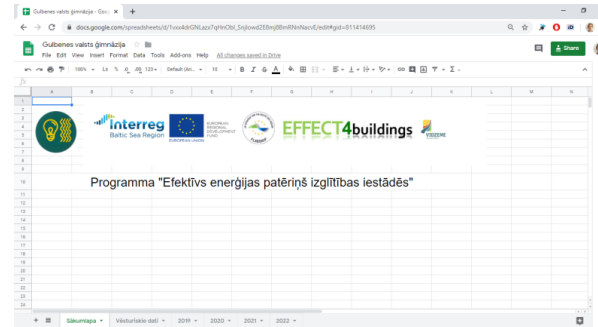
➤ Collection, analysis and determination of results

- Action plan
- Data
- Materials
- Taking measures



Possibilities

- Monitoring
- Data availability
- Monthly savings



Municipality

- Supervision
- Collection of data
- Saving verification

Green lease contract

- Responsibilities
- Measures
- Action plan
- Sharing of savings

Any institution

- Action plan
- Data
- Materials
- Taking measures





EUROPEAN
REGIONAL
DEVELOPMENT
FUND



EFFECT4buildings

Kontakti

Jānis Ikaunieks

Energy efficiency expert

Vidzeme planning region

Mob.: 26349224

E-pasts: janis.ikaunieks@vidzeme.lv

www.vidzeme.lv

