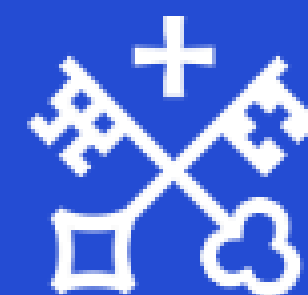


Riga Towards Climate Neutrality

Inga Pelša
City of Riga | Riga Energy Agency
22.05.2025



Commitments

2020 - Climate Neutrality Commission

2021 - Paris Climate Declaration “Cities Leading the Way to Climate Neutrality”

2021 - Renewed Covenant of Mayors commitments to reflect the latest evolutions of the EU policies

2022 - EU Mission “100 Climate-Neutral and Smart Cities by 2030”

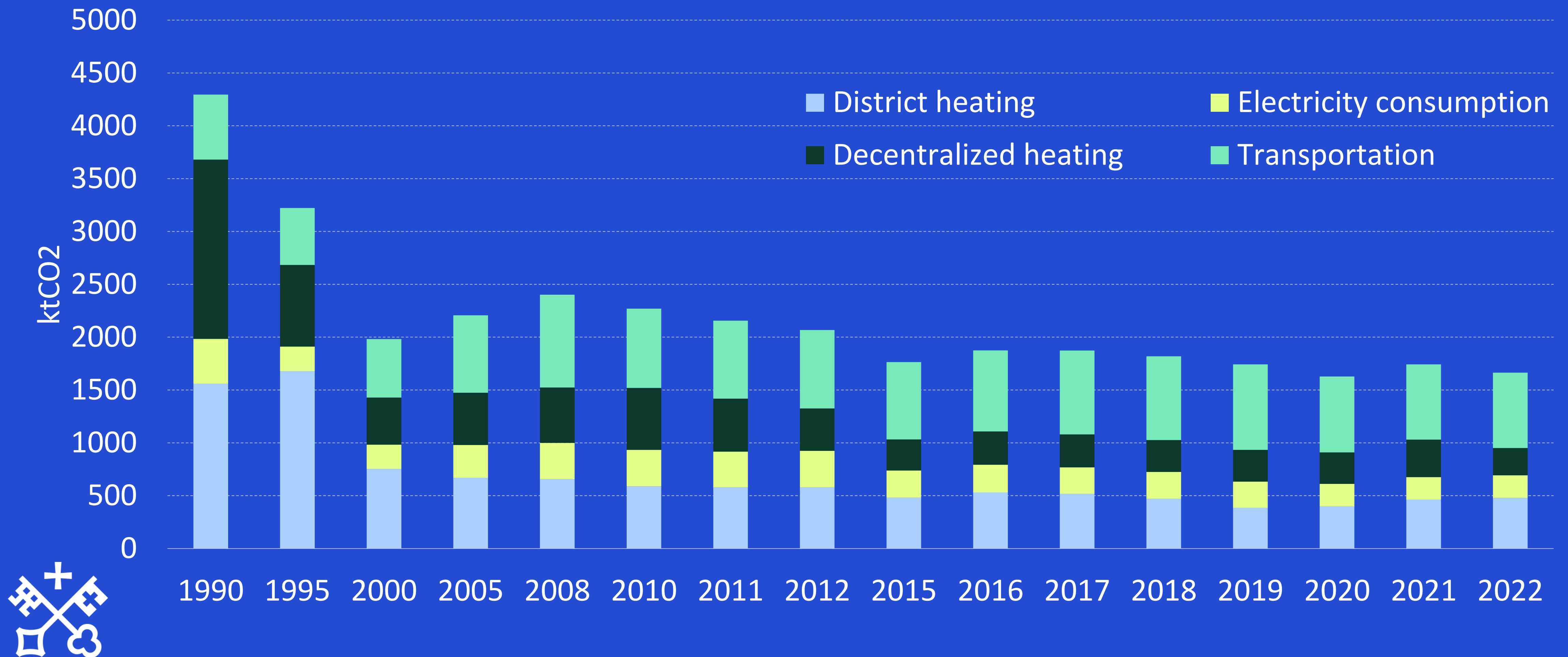


EU Mission Label (07.05.2025)



21.05.2025

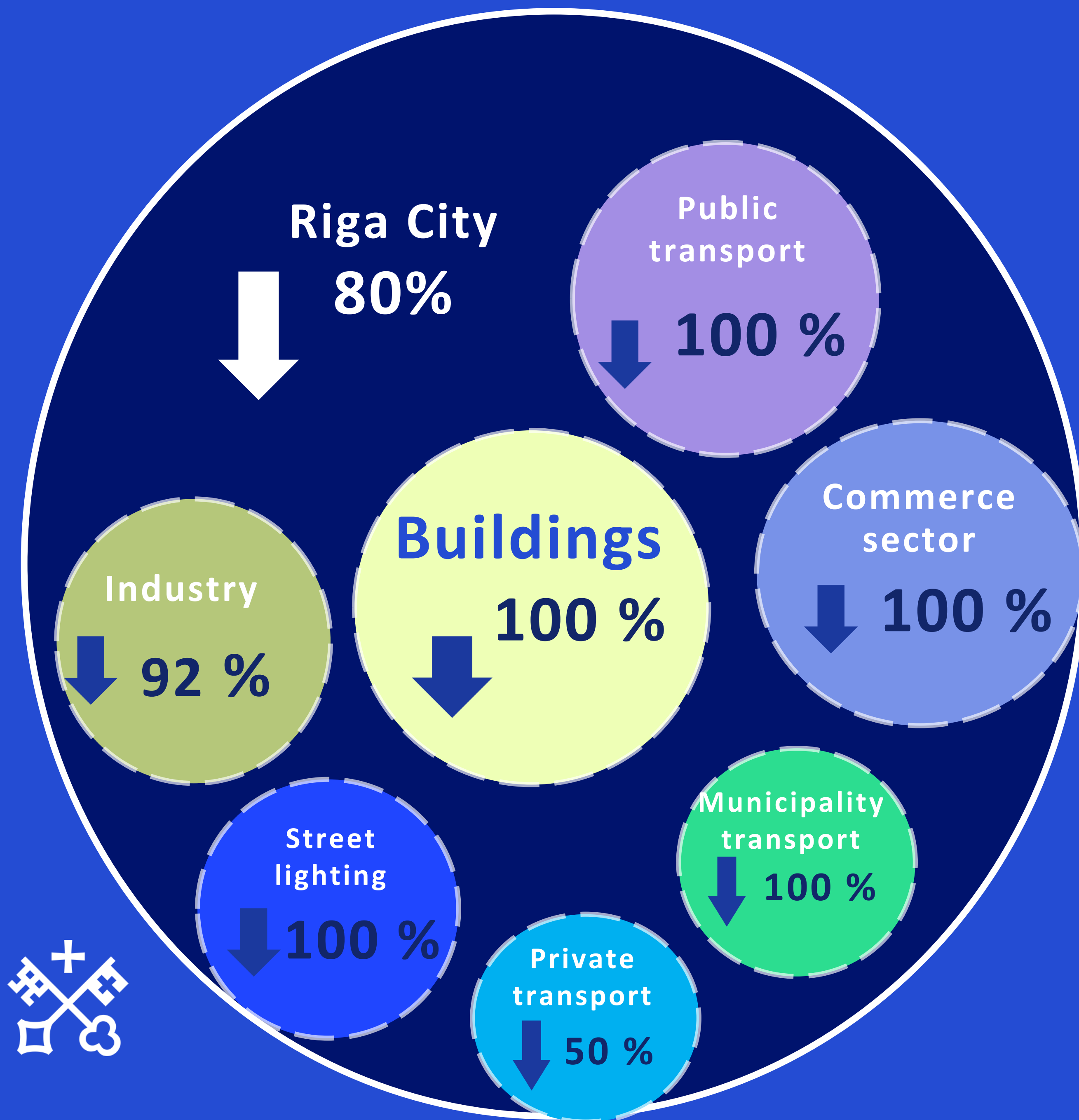
CO2 emissions in Riga City



Target for Climate City Contract

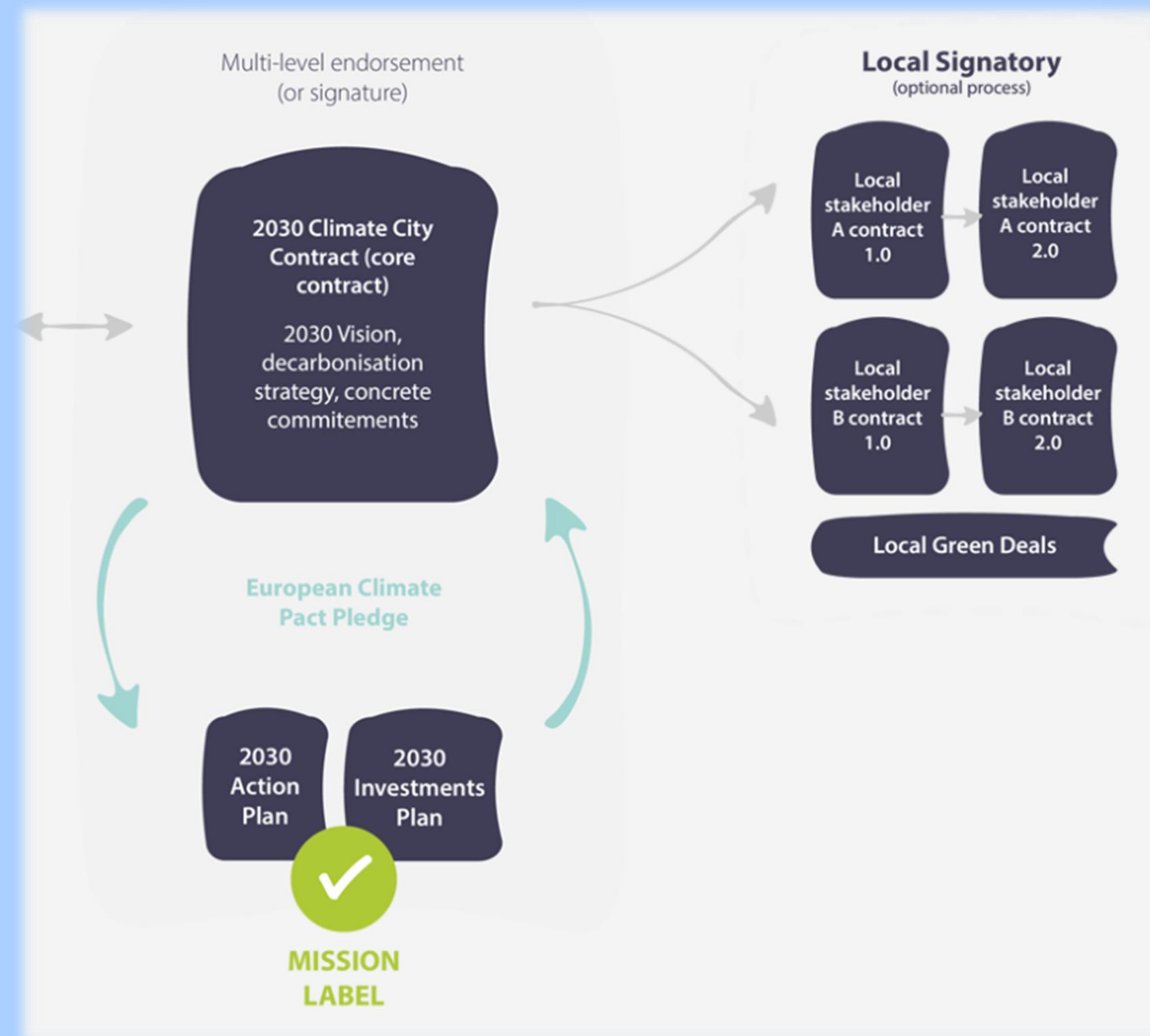
80% CO2 reduction from 1990

- Riga has reached 62% CO2 emission reduction comparing to 1990
- 41% in 2022/2023 of RES in district heating
- 42% of RES in decentralized heating
- Low emission factor in electricity production
- High standards for new buildings
- Regulation to phase out of natural gas in decentralized heating

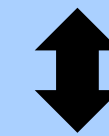


Climate planning in Riga

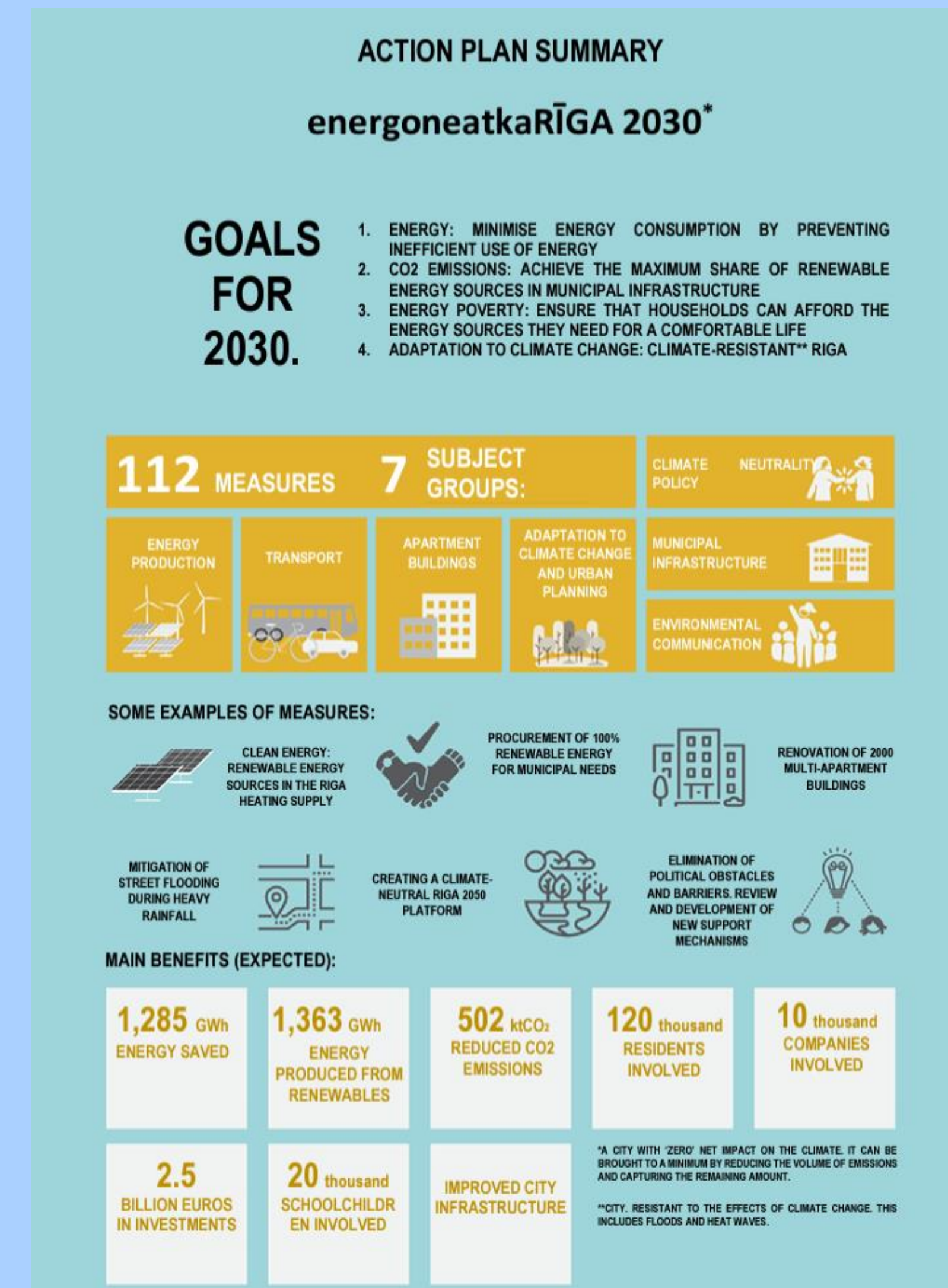
- **SECAP-2030 (in place)**
- **Riga City Climate Programme (adopted, implementation in progress)**
- **Climate City Contract (approved)**



➤ **Update of SECAP-2030**



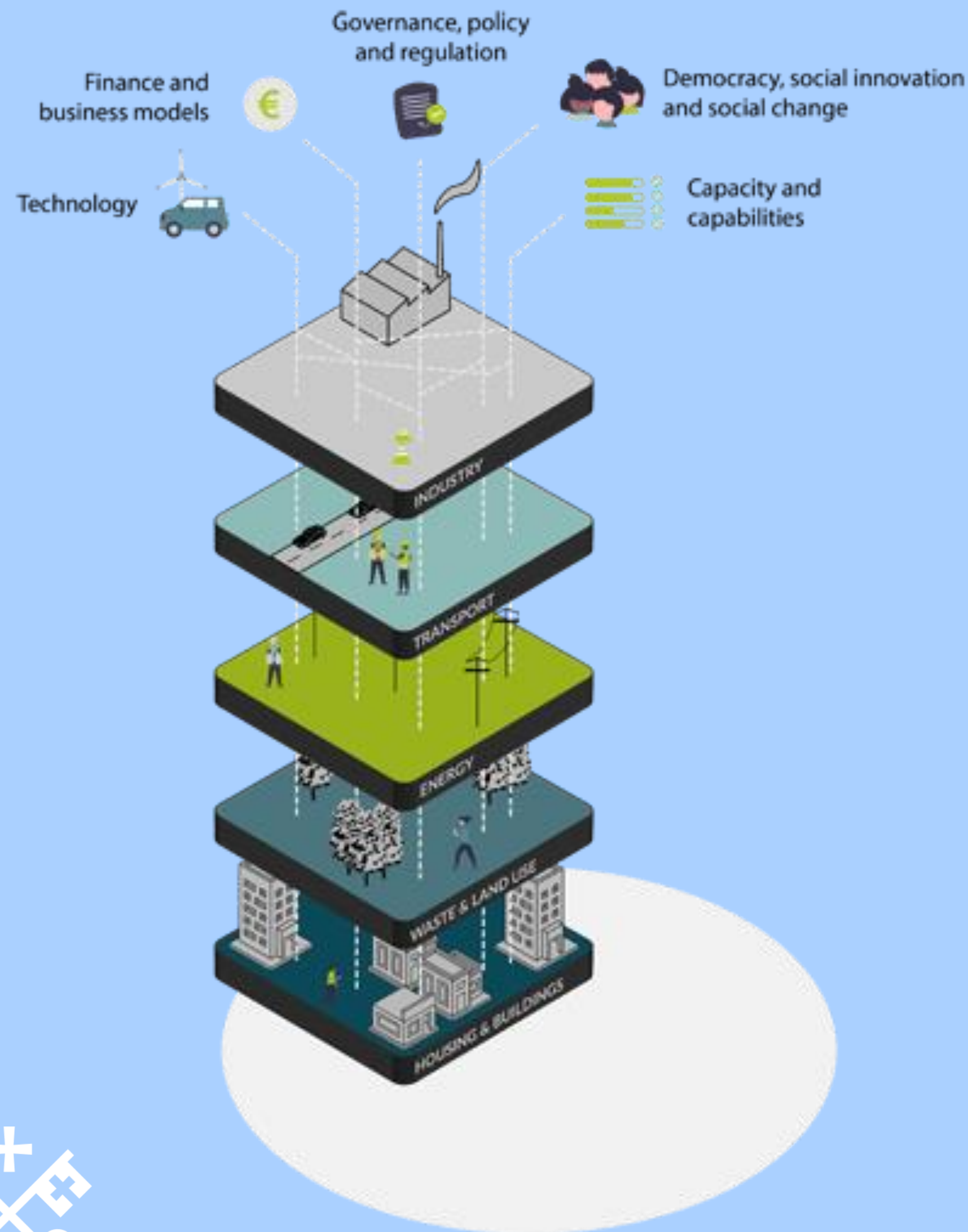
**replacing SECAP-2030
by Climate City Contract**



Riga's Climate City Contract

Participatory planning process: over 200 stakeholders involved in co-creation workshops within the elaboration of the Climate City Contract:

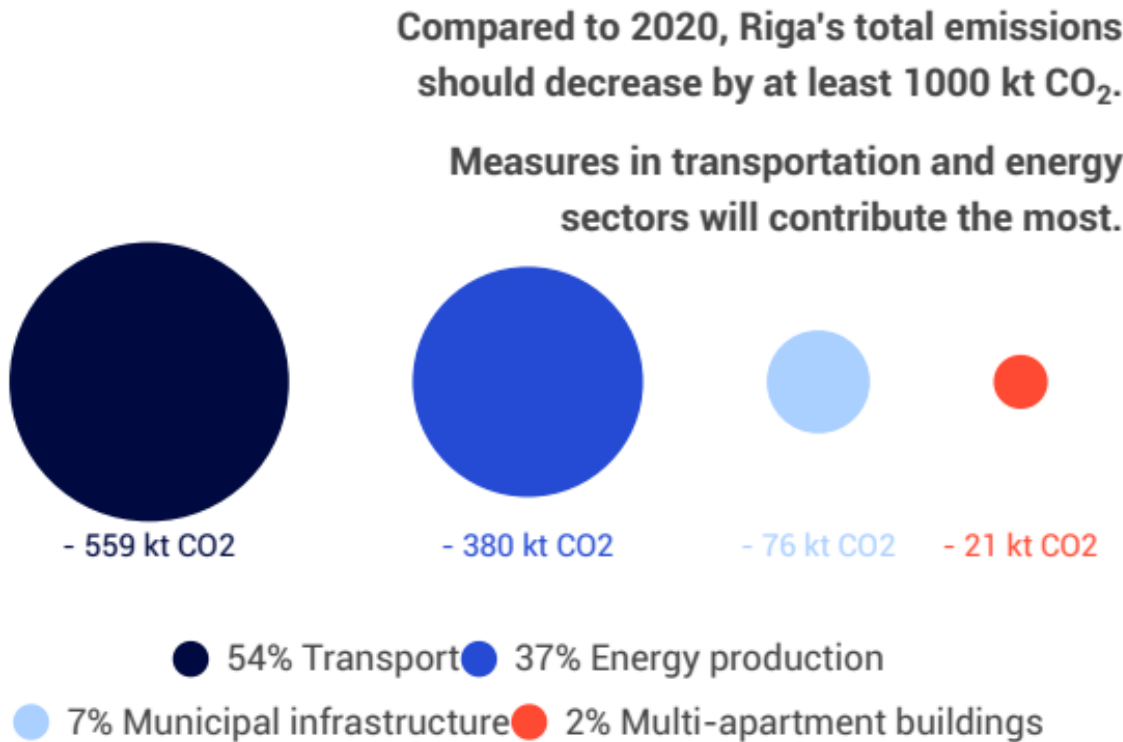
- **Energy production**
- **Multi-apartment residential buildings**
- **Municipal infrastructure**
- **Transport and Mobility**
- **Urban Greening and Forestry**
- **Waste & Circular Economy**



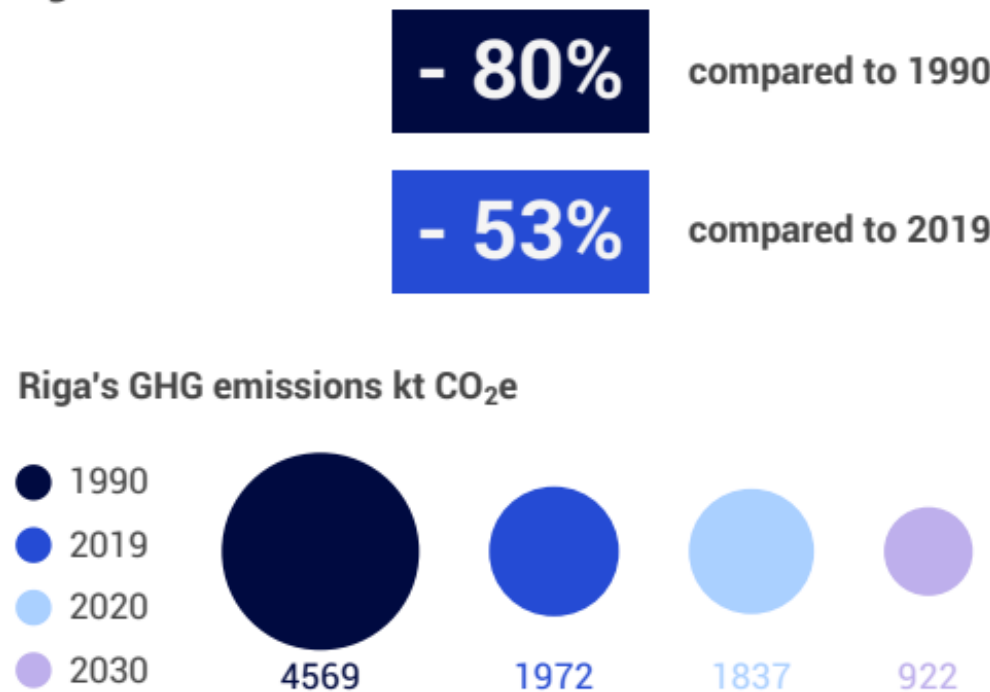
Riga's Climate City Contract



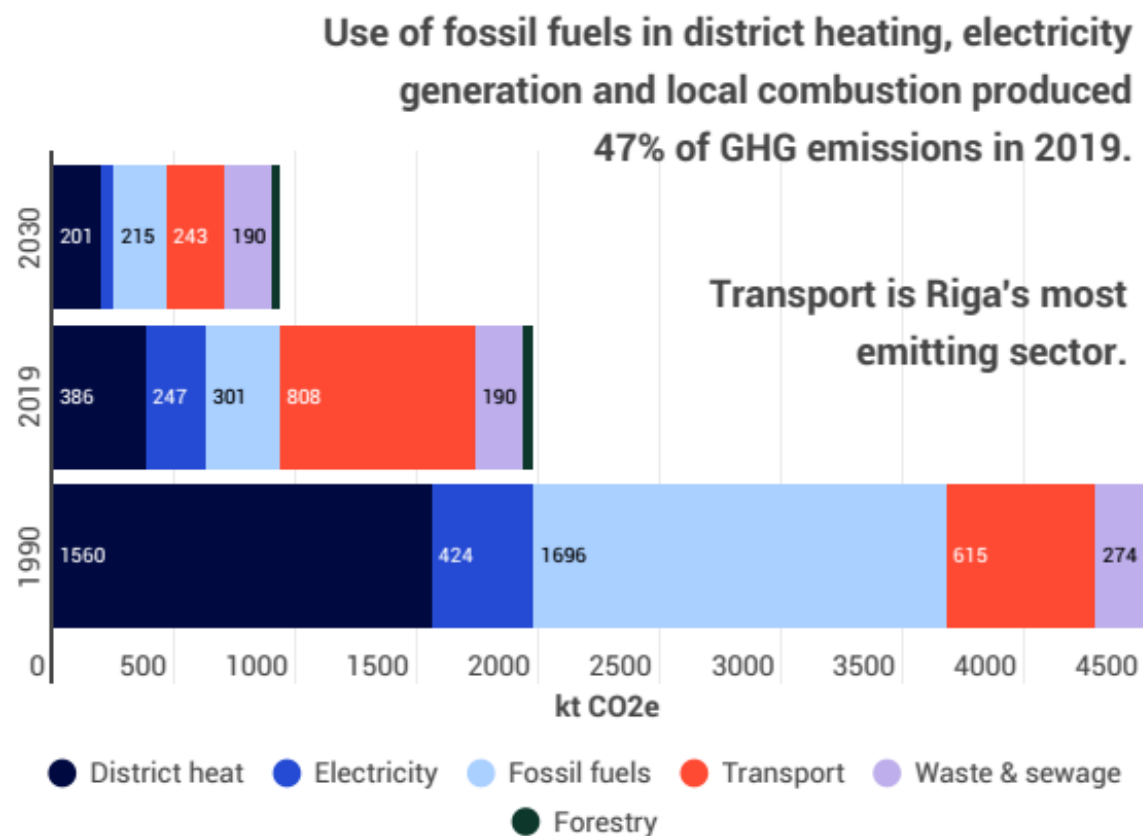
Ambition of GHG emission reduction by 2030



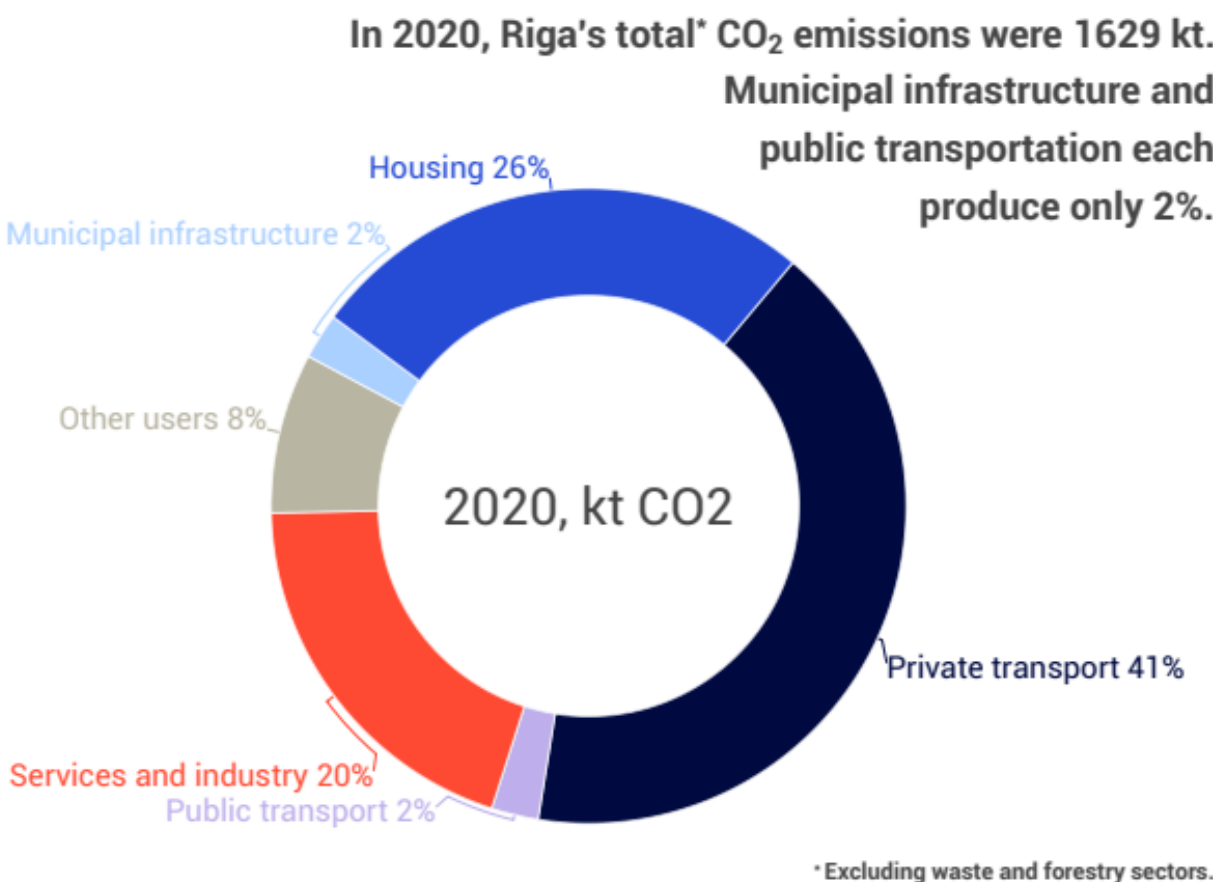
Riga's goal for GHG emission reduction by 2030



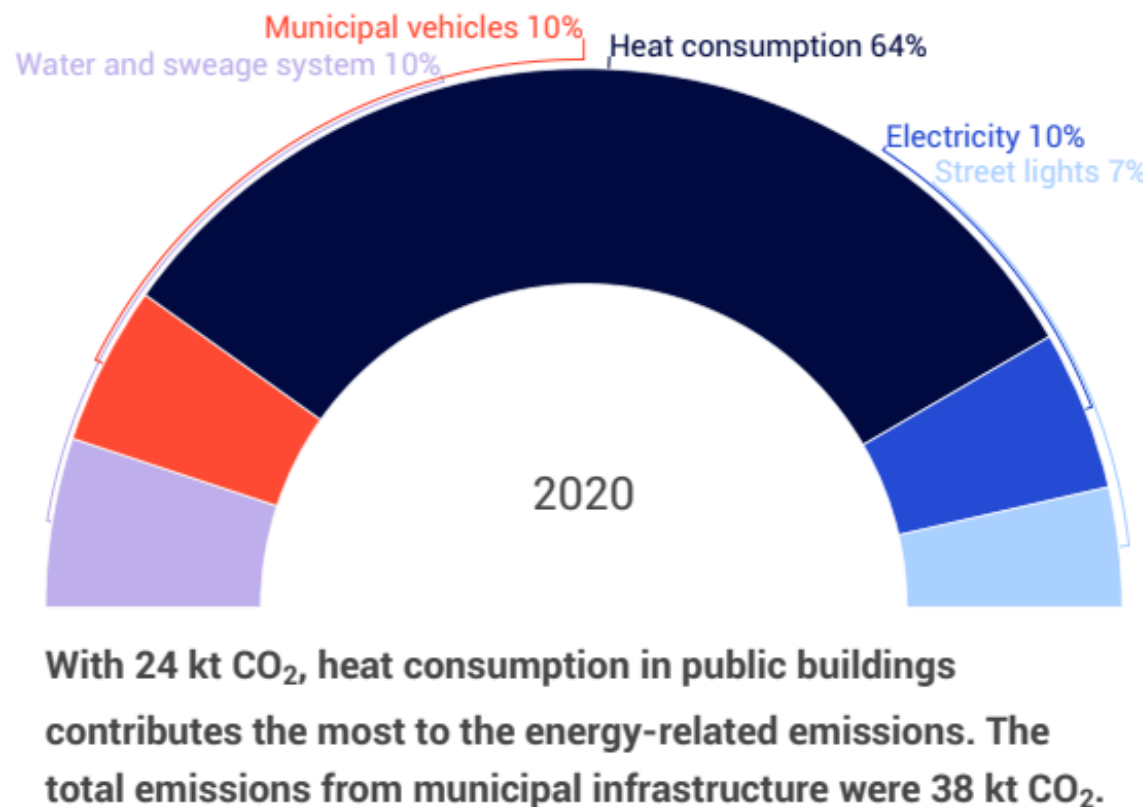
Main sources of Riga's GHG emissions



GHG emissions by sector



CO₂ emissions in municipal infrastructure

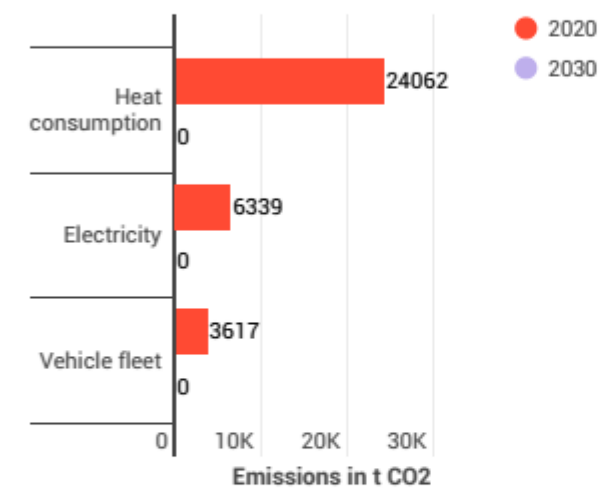




RIGA

NET
ZERO
CITIES

Municipal infrastrucutre



7%
of total reduction

Riga's goal is to achieve complete decarbonisation of energy use in municipal infrastructure by 2030.

10 fields of action

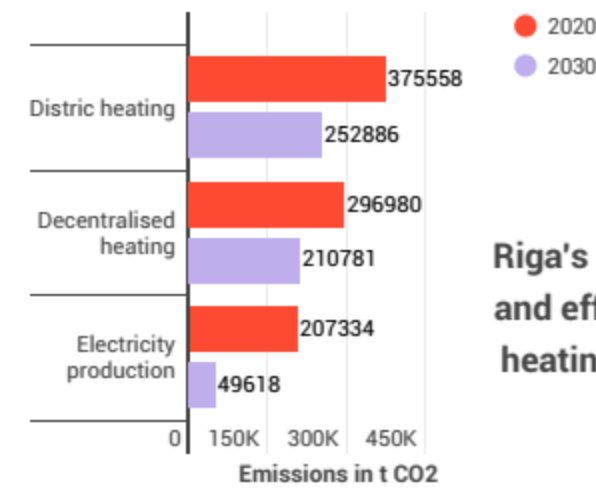
- | | |
|--------------------------------------|--|
| P1 Energy management system | P6 100% RES electricity for lights & clocks |
| P2 100% RE for heating | P7 Data management of vehicle use |
| P3 100% RE for electricity | P8 Public transport for employees |
| P4 Building renovation | P9 Electric vehicles |
| P5 Modernised street lighting | P10 RE in waste water management |



RIGA

NET
ZERO
CITIES

Energy production



37%
of total reduction

Riga's priority is phase-out of fossil fuels and efficiency measures in Riga's district heating (DH) and decentralised systems.

7 fields of action

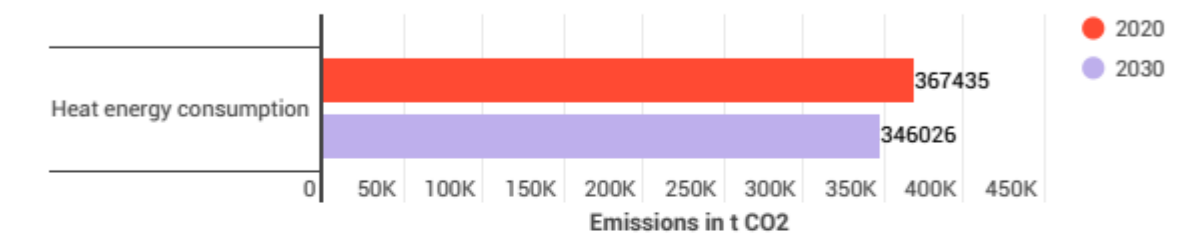
- | | |
|--|--|
| E1 Zero-emission & RES technologies in DH | E6 Electrification, RES or DH for decentralised heating |
| E2 Connect new clients to DH | E7 Use of RES for electricity generation |
| E3 Efficiency measures in DH systems | |
| E4 Low-temperature DH networks | |
| E5 Innovation projects | |



RIGA

NET
ZERO
CITIES

Multi-apartment buildings



The estimated emission reduction is based on energy savings from the renovation of 300 multi-apartment buildings. This figure will increase as Riga moves closer to its new target of 2,000 renovated buildings.

5 fields of action

2%
of total reduction

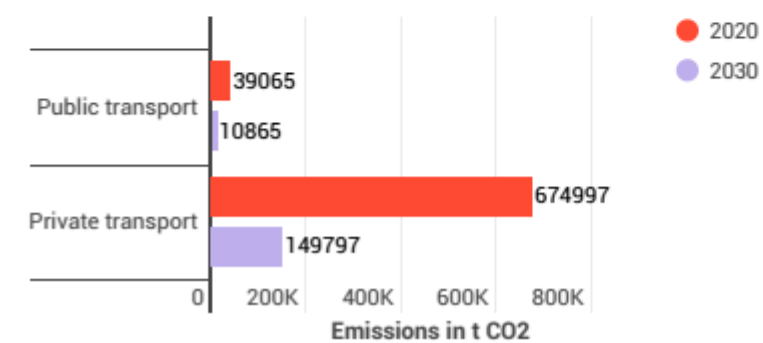
- | |
|---|
| Dz1 Energy efficiency data |
| Dz2 Revision of laws and regulations |
| Dz3 Involvement of local residents |
| Dz4 Riga's Energy Efficiency Fund |
| Dz5 New standardised solutions |



RIGA

NET
ZERO
CITIES

Transport and mobility



56%
of total reduction

Riga's goal is to reorganise the car-centric mobility system and speed up electrification.

9 fields of action

- | | |
|--|-----------------------------------|
| T1 Urban planning, mobility hubs | T6 Reduce private car use |
| T2 Remote work & online services | T7 Promote electrification |
| T3 Cycling & walking infrastructure | T8 Clean technologies |
| T4 Public transport | T9 Mobility data |
| T5 Restrictions on private cars | |



RIGA

NET
ZERO
CITIES

Waste and circular economy

9% of Riga's GHG emissions come from the waste sector

The targets for reduction of GHG emissions from the waste sector will be set in the Circular Economy Action Plan 2026-2030

8 fields of action

- | | |
|---|---|
| A1 Data records system | A5 Waste recycling |
| A2 Waste prevention | A6 Circular economy action plan 2030 |
| A3 Scale up waste sorting | A7 Integrated wastewater management |
| A4 Waste collection infrastructure | A8 Information & awareness |



RIGA

NET
ZERO
CITIES

Greening and adaptation

300 kt CO₂ CO₂ sequestration in forests managed by Riga's forestry company

Action lines for climate change adaptation and carbon sequestration will be further detailed in Riga's Urban Greening Plan 2027-2031

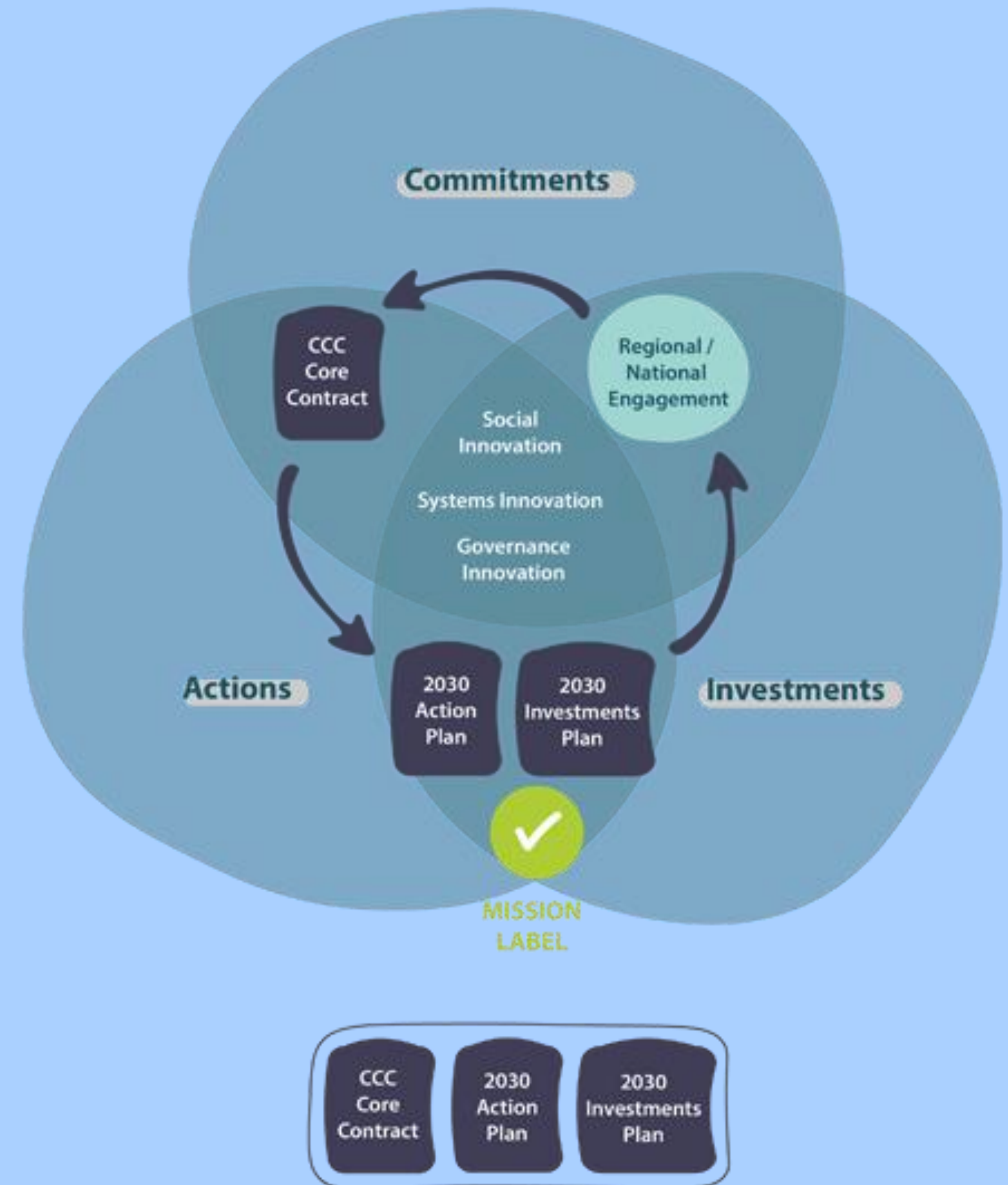
8 fields of action

- | | |
|--|---------------------------------------|
| ZM1 Forest management & planning | ZM5 Forest certification |
| ZM2 Research on CO ₂ sequestration | ZM6 Forestry risk assessment |
| ZM3 Knowledge exchange | ZM7 Recultivation of peat bogs |
| ZM4 Emissions calculation system | ZM8 Riga's Urban Greening Plan |

Riga's Climate City Contract

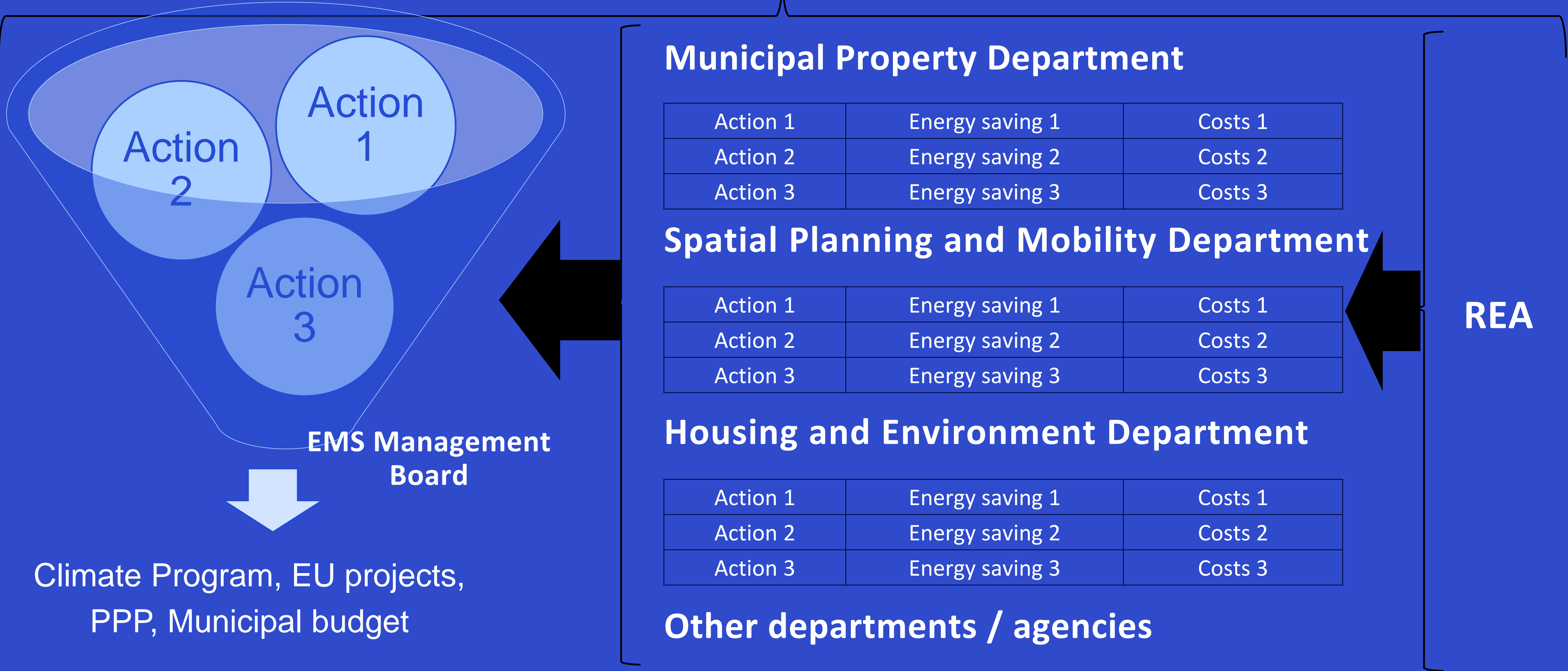
Challenges:

- Data quality and availability (both historical and real-time data)
- Involvement of the private sector (in particular, industries)
- Financing climate action (approach and tools):
 - ✓ understanding of the impact of planned measures (timeframe of impact, costs)
 - ✓ cost-benefit analysis
 - ✓ life cycle analysis
 - ✓ climate budget



Climate Action Management

CEO



Energy Management System

Involvement of employees (20 000+)



Monthly consumption report

Visits of institutions

Training regarding energy efficiency, measures, possibilities to implement, ...

Responsibility of director of each institution

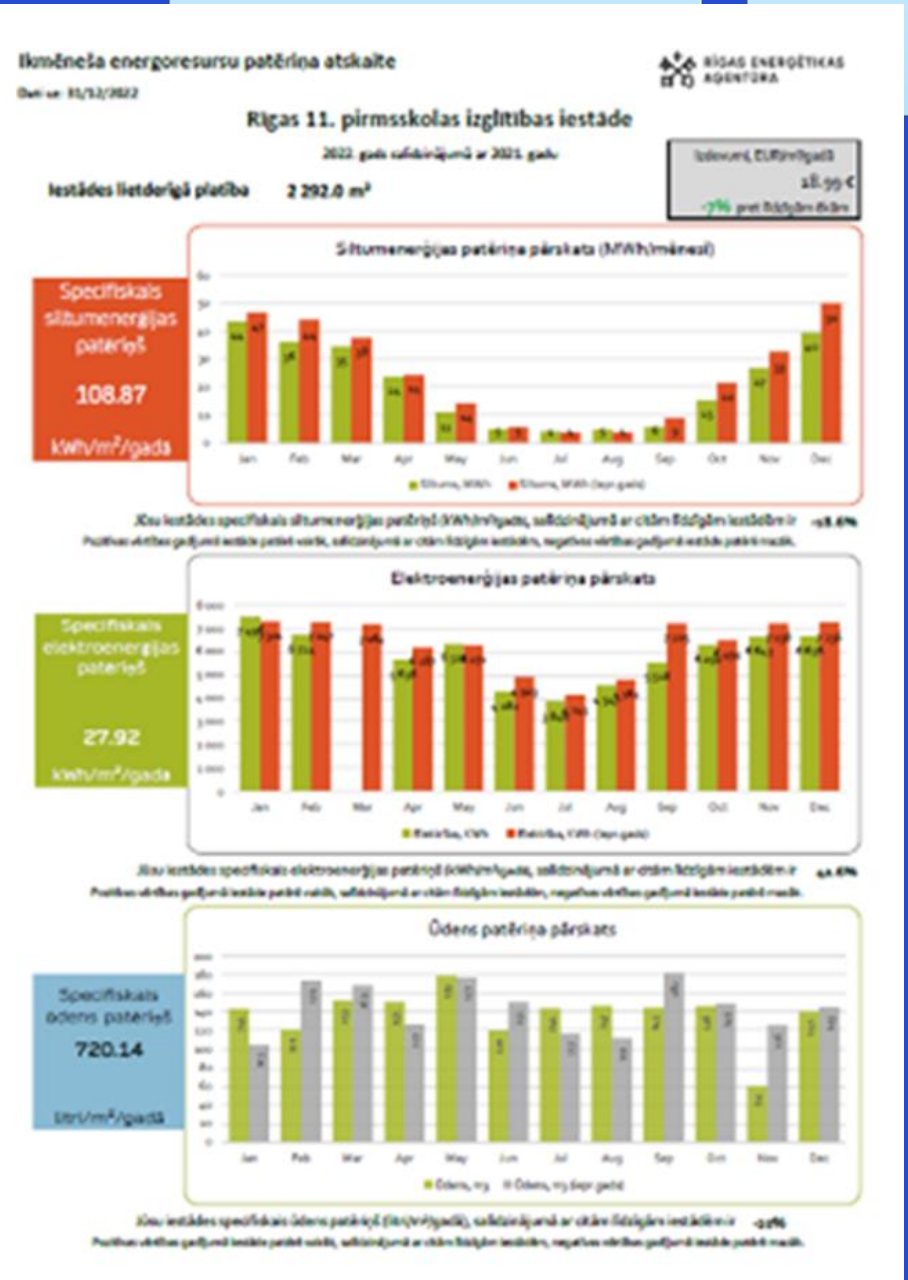
Day/night heating setpoints

Min/max cooling setpoints

Change of inefficient light bulbs

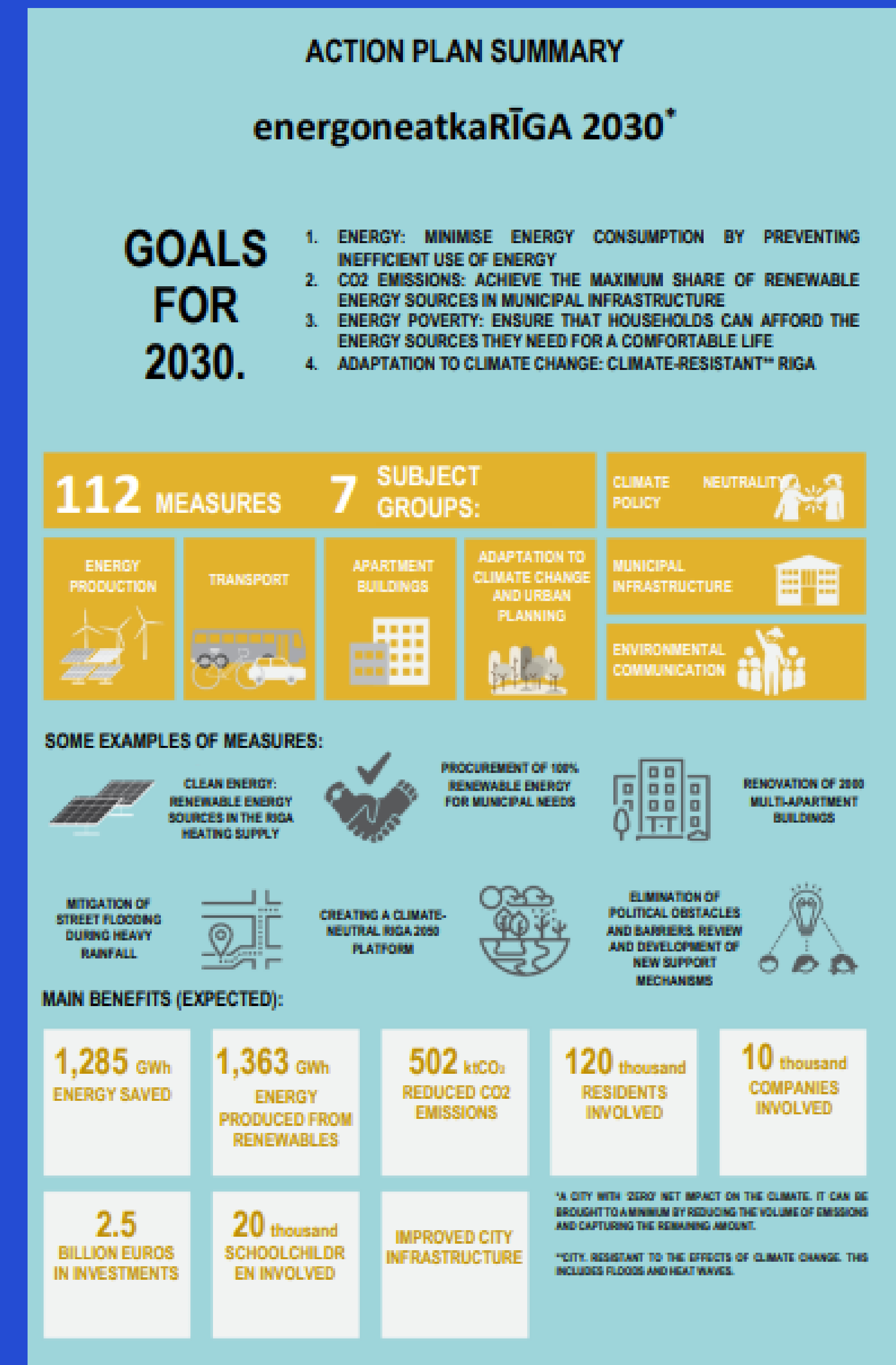
Return of savings

Comparison of institutions



Riga City Climate Program

- To implement the measures of the SECAP 2022-2030;
- The funds of the climate program are used for direct reduction of CO₂ emissions and related measures, necessary to ensure the reduction of emissions;
- To reduce energy costs of municipal institutions;
- To promote the adaptation of Riga's outdoor space to climate change;
- To promote the approbation of innovations and implement pilot projects to mitigate climate change;
 - The project's cost effectiveness indicator for emission reduction measures is not less than 1 kgCO₂/EUR, for emission compensation (absorption) measures - 0,5 kgCO₂/EUR in the life cycle



Riga City Climate Program

Priorities 2023-2025:

- Solar panels
- Replacement of inefficient lighting
- Switch from fossil to DH or RES
- Climate adaptation measures-
greening of the city

Approved projects:

- Upgrading lighting in 55 educational buildings
- 9 168 sources, savings 425 MWh /year,
avoided 694 tCO₂ life cycle.
- Installation of 708 kWp PV in 7 buildings
producing 614,261 MWh/per year, avoided
1673,85 tCO₂ life cycle.
- Planting additional trees in city



Riga Energy Efficiency Information Center

renove.lv

OSS for Riga residents:

- consultations
- participation in residents' meetings
- thermography
- sample documentation
- funding advise

The screenshot displays the website for the Riga Energy Efficiency Information Center (REVERTER). The header includes the website name 'renove.lv', navigation links for 'Ēku atjaunošana', 'Noderīgi', 'Kļūt par energovēstnieku', 'Par mums', 'Aktualitātes', and 'Kontaktinformācija', and a button for 'Pieteikties bezmaksas konsultācijai'. The main banner features the title 'Rīgas energoefektivitātes informācijas centrs' and mentions funding from the European Union's 'Life' program. Below the banner, there is a section for 'Energoefektivitātes konsultācija' (Energy Efficiency Consultation) with a calendar to select a date and time. The calendar shows February 12, 2025, with available slots from 10:00 to 16:00. The consultation is 45 minutes long and includes web conferencing details. A 'Troubleshoot' button is also present.

REVERTER
Rīgas energoefektivitātes informācijas centrs

RĪGA

RĪGAS ENERĢĒTIKAS AĢENTŪRA

Pieteikties bezmaksas konsultācijai

ms Ēku atjaunošana Noderīgi Kļūt par energovēstnieku Par mums Aktualitātes Kontaktinformācija

Rīgas energoefektivitātes informācijas centrs

Līdzfinansēts Eiropas Savienības "Life programmas" projekta REVERTER ietvaros

RĪGAS ENERĢĒTIKAS AĢENTŪRA

Select a Date & Time

February 2025 Wednesday, February 12

MON	TUE	WED	THU	FRI	SAT	SUN
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

Time zone: Eastern European Time (07:55)

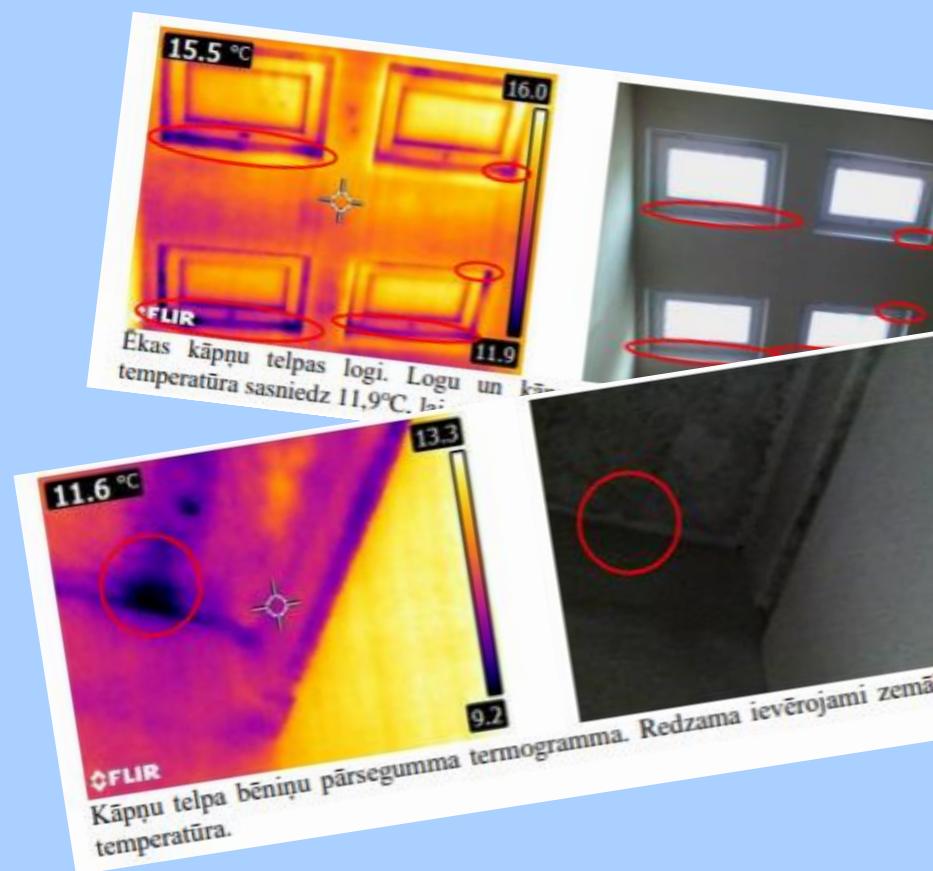
45 min

Web conferencing details provided upon confirmation.

Par ēku energoefektivitāti un atjaunošanu kā tādu, līdzfinansējuma iegūšanu, lēmumu pieņemšanu un citiem saistītiem jautājumiem.

Privātuma atruna:
Piesakoties šim pakalpojumam, es piekrītu,

Troubleshoot



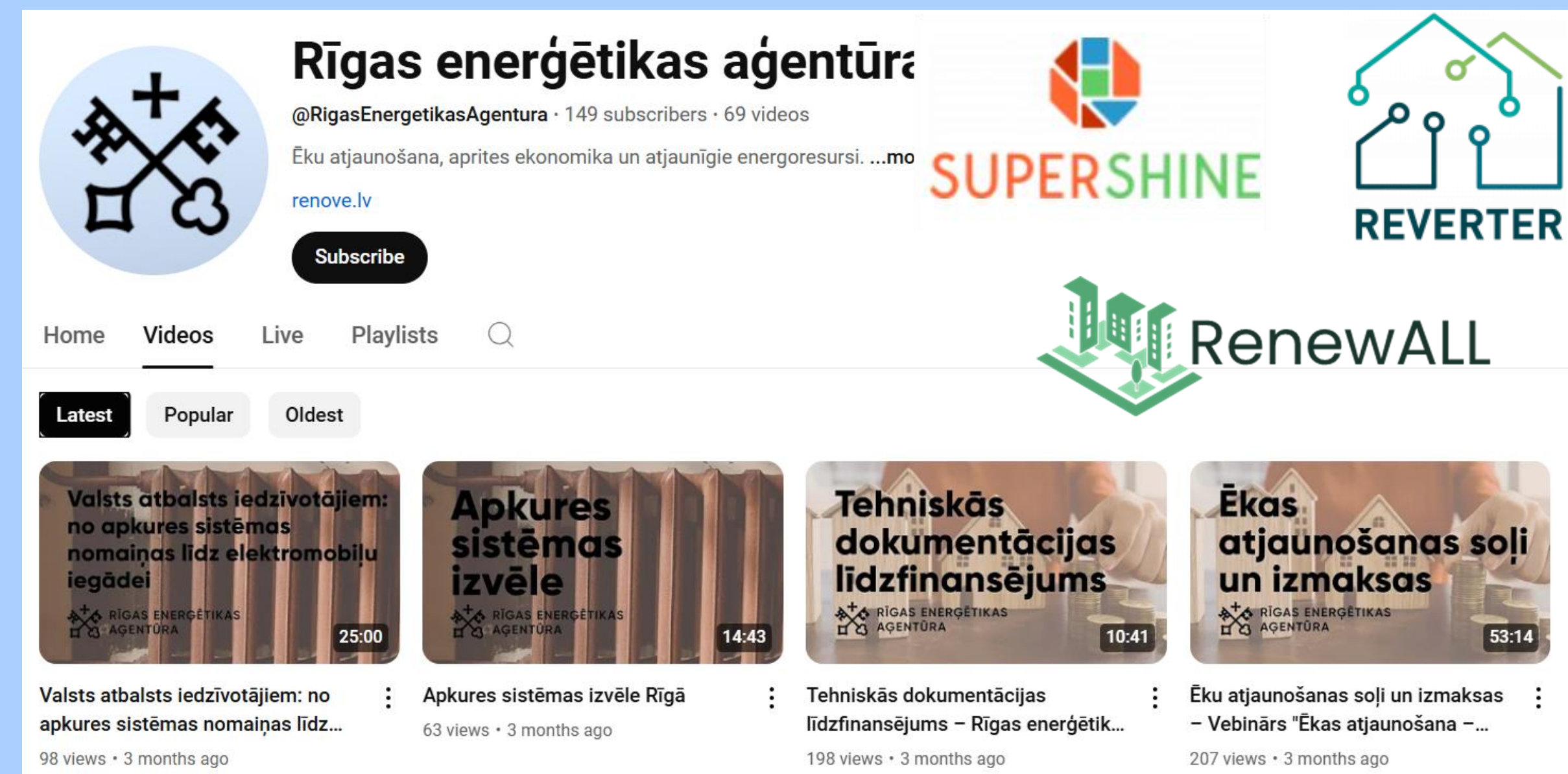
Riga Energy Efficiency Information Center

renove.lv

- Training, seminars, webinars REVERTER
- Climate Festivals
www.youtube.com/@RigasEnergetikasAgentura
- Public events in neighborhoods SUPERSHINE, RenewALL
- Participation at the EXPO «Māja»
- Participation at the campaign «Dzīvo siltāk»
- Large events & festivals
– LAMPA, MAD City, Ilgbūtība

- TV & Radio
- www.facebook.com/RigaAttistas
- rea.riga.lv

↔ Feedback



Riga Citizens Assembly

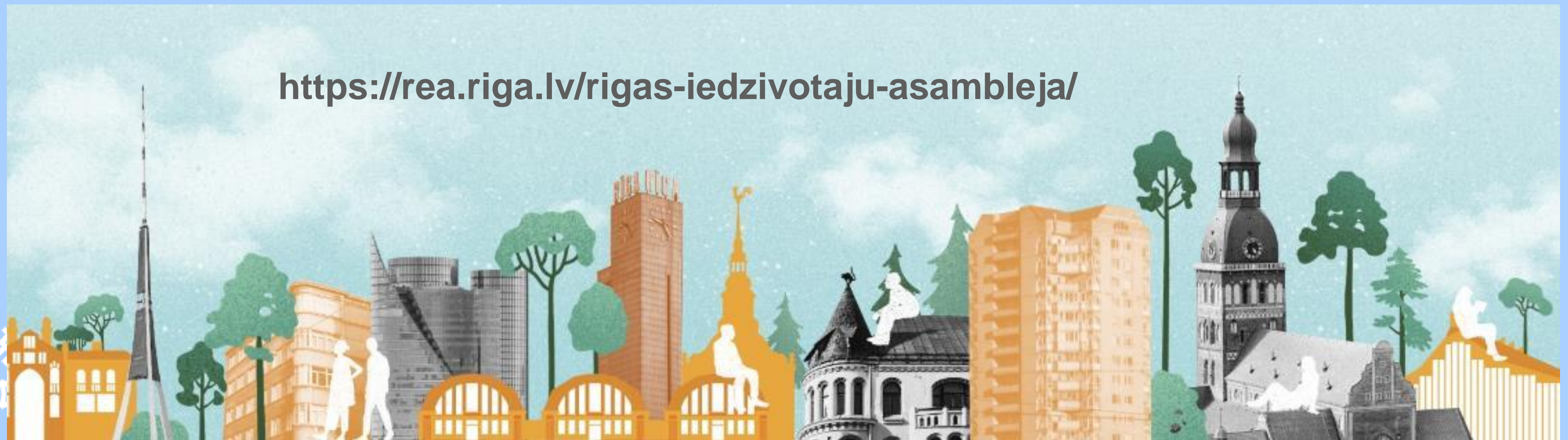
21.09. – 23.11.2024.

In cooperation with society «Zaļā brīvība»

35 residents, together with experts in the field, studied, worked in groups and developed ideas and proposals for the Riga Greening Plan



<https://rea.riga.lv/rigas-iedzivotaju-asambleja/>



Riga School Climate Days

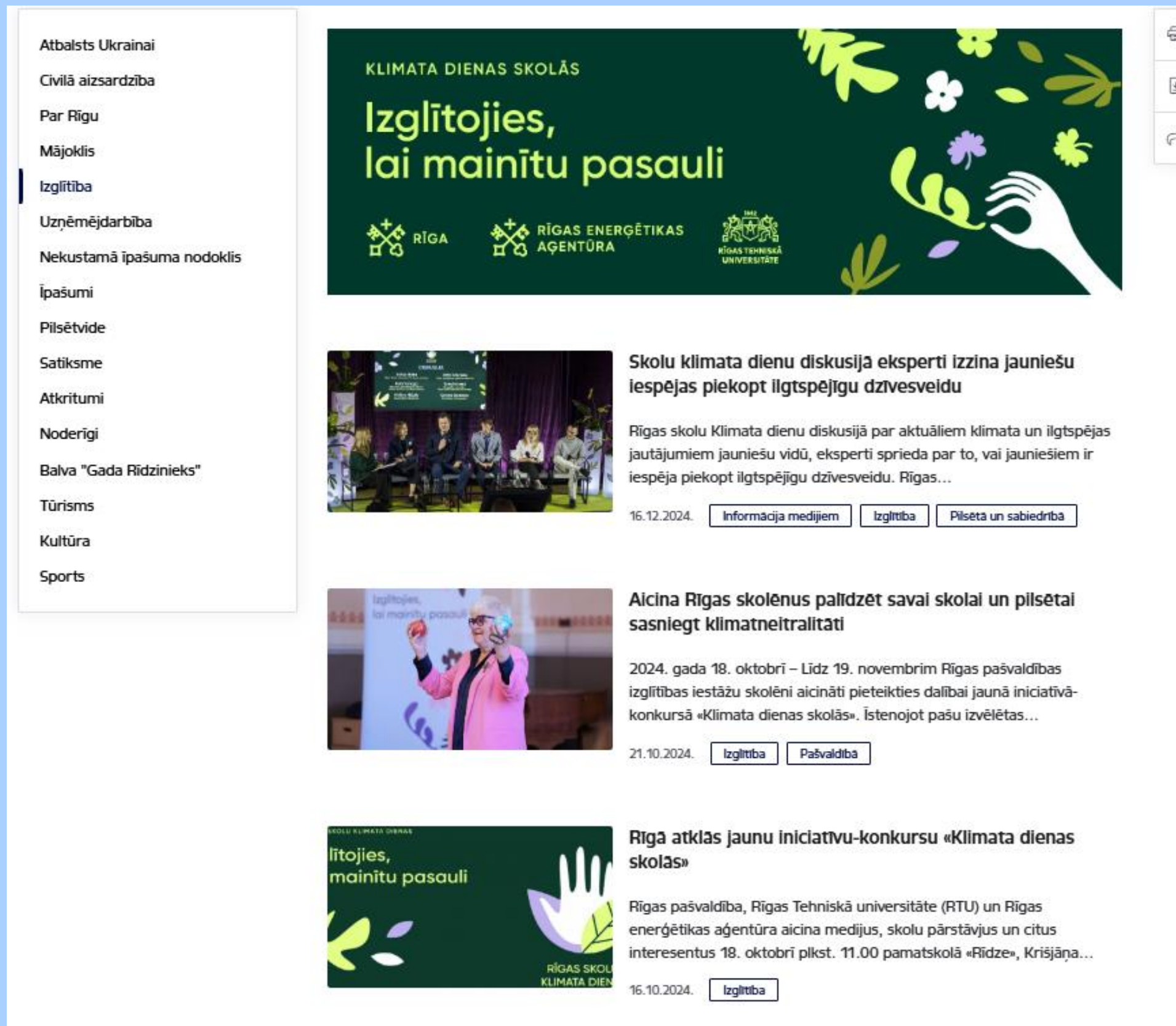


RĪGAS SKOLU
KLIMATA DIENAS

- **1st part: internal school activities**
11/2024 – 03/2025 (group work and hackathons, analysis of energy consumption, Invitation to Energy Detective)
- **2nd part: Climate Festival 04/04/2025**
(competition results and awards)

www.riga.lv/lv/klimatadienas

- All about the competition and events
- CommitClimate project carbon footprint calculator
- Learning materials and useful information
- Link to call the Energy Detective
- Links to similar initiatives and videos



Interreg
Baltic Sea Region



Co-funded by
the European Union

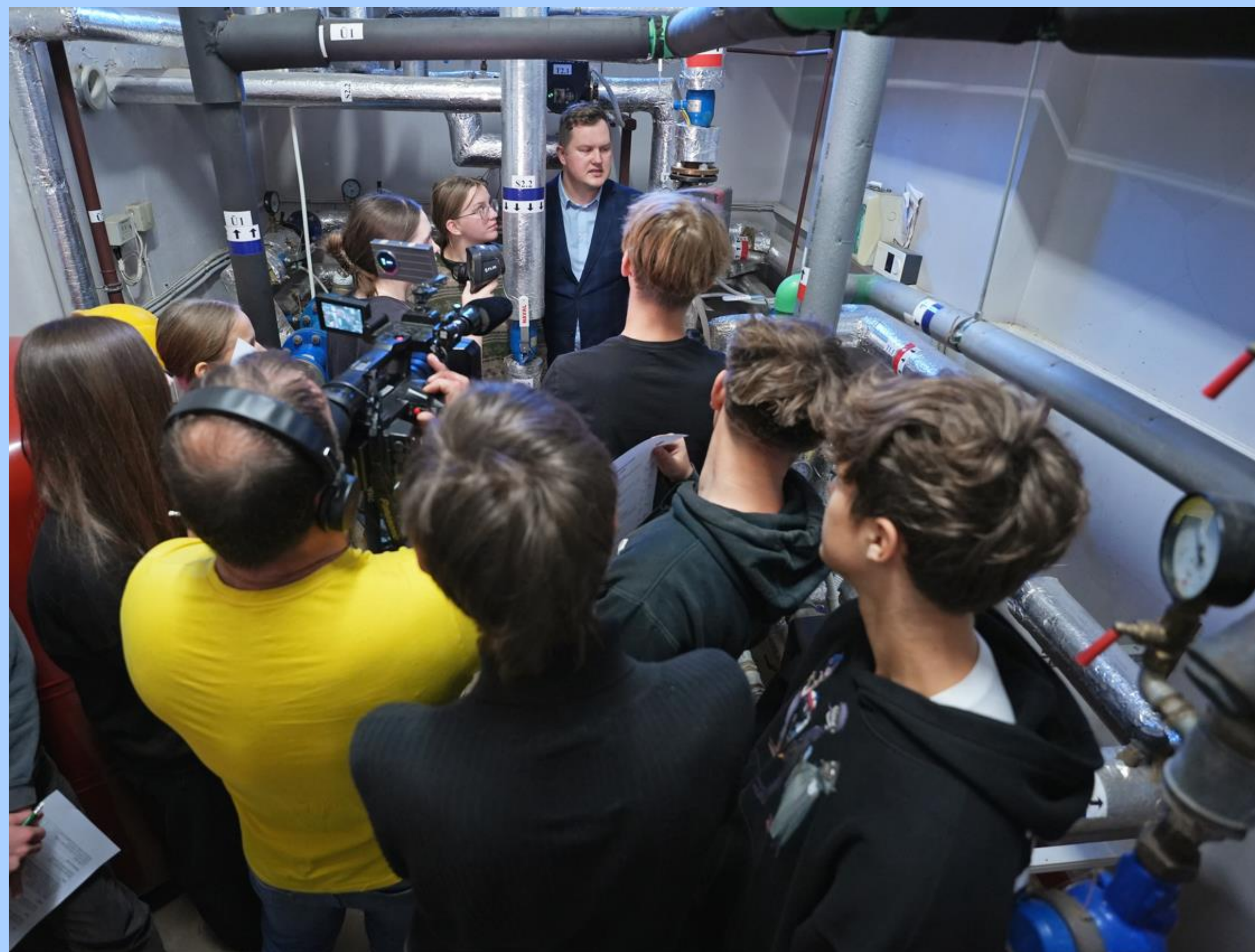
ENERGY TRANSITION
CommitClimate

Energy Detective in practice

- > 20 applications
- 13 school visits
- > 400 students, different age groups



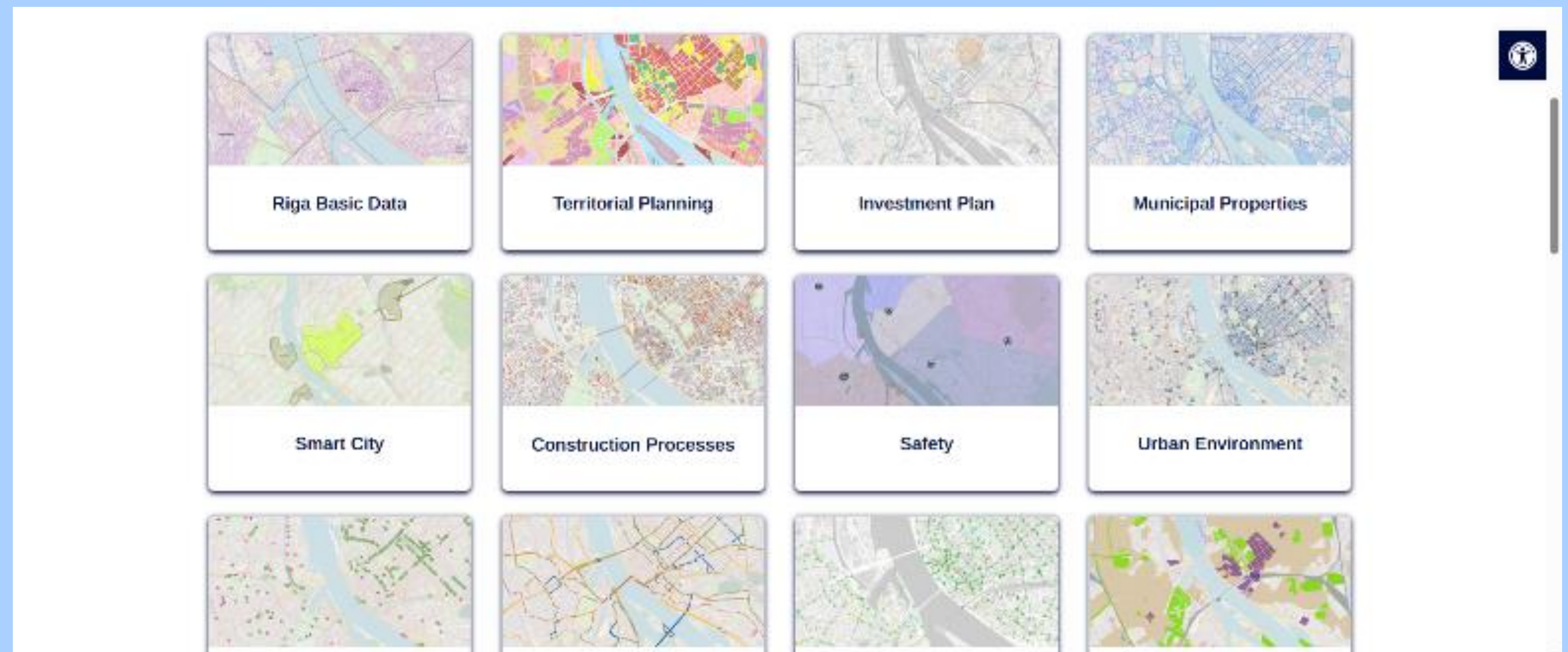
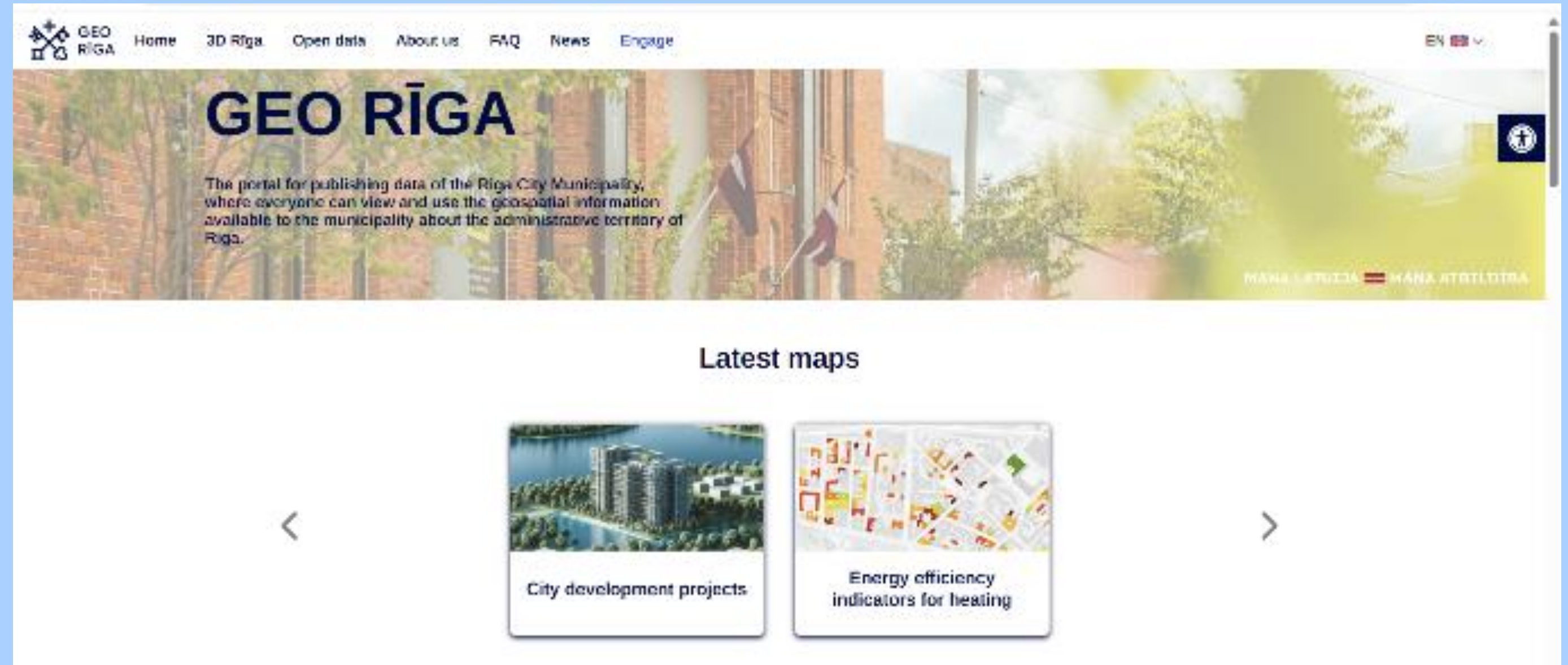
RĪGAS SKOLU
KLIMATA DIENAS




GEO RĪGA

The portal for publishing data of the Riga City Municipality, where everyone can view and use the geospatial information available to the municipality about the administrative territory of Riga.



<https://georiga.eu/en/>




SECAP Implementation Monitoring Tool


RĪGA

ILGTSPĒJĪGAS ENERĢĒTIKAS UN KLIMATA RĪCĪBAS PLĀNS 2022–2030.gadam




LV

Sākums
Sektori
Rīcības
Indikatori




Rīgas valstspilsētas ILGTSPĒJĪGAS ENERĢĒTIKAS UN KLIMATA RĪCĪBAS PLĀNS 2022–2030.gadam


Šeit atradīsiet informāciju par RĪGAS ILGTSPĒJĪGAS ENERĢĒTIKAS UN KLIMATA RĪCĪBAS PLĀNA 2022–2030.gadam progresu.




Enerģijas ražošana




Daudzdzīvokļu ēkas




Pašvaldības infrastruktūra



Vides komunikācija



Transports



Pielāgošanās klimata pārmaiņām

Sektors

Daudzdzīvokļu ēkas

Kopā daudzdzīvokļu ēku sektorā ir identificēti 6 pasākumi, kas 2030. gadā sniegs šādus ieguvumus:

- ietaupītais enerģijas apjoms – 410 784 MWh/gadā;
- samazinātais CO2 emisiju apjoms – 59563 tCO2/gadā;
- indikatīvais investīciju apjoms – 1009 milj. EUR/gadā.

RĪCĪBAS PLĀNĀ iekļautie pasākumi tieši un netieši ir saistīti ar Rīgas attīstības programmas 5.3. uzdevumu "Veicināt kompleksu dzīvojamā fonda atjaunošanu un sekmēt dzīves telpas uzlabošanu". Jāņem vērā, ka šo pasākumu ieviešana radīs ietekmi uz siltumenerģijas un elektroenerģijas ražošanas sektoru, kas aprakstīts šī dokumenta 8. nodaļā.

Detalizēts apraksts par trīs prioritārajiem pasākumiem, kas sniegs būtisku ieguldījumu mērķu sasniegšanā, atrodams 4.3. pielikumā. Šie pasākumi ir:

1. [Rīgas daudzdzīvokļu ēku atjaunošanas programmas izstrāde un atjaunināšana](#),
2. [Energoefektivitātes centra izveide un darbība](#),
3. [Rīgas Energoefektivitātes fonda izveide](#).

Rīcības	
27.	Informācijas un datu pieejamības uzlabošana par daudzdzīvokļu ēku energoefektivitāti
28.	Rīgas daudzdzīvokļu ēku atjaunošanas programmas izstrāde un atjaunināšana
29.	Izstrādāšana (Savlaicīgi) Energoefektivitātes centra izveide un darbība
30.	Iedzīvotāju iesaiste daudzdzīvokļu ēku atjaunošanā
31.	Rīgas energoefektivitātes fonda izveide
32.	Jaunu standartizētu risinājumu meklēšana ēku atjaunošanai, samazinot ēku atjaunošanas izmaksas

Rādītāji

"Rīgas Satiksme" nobraukums maršrutu tīklā, tūkst.km

[Rīcību rādītājs](#)

Transports

"Rīgas Satiksme" nobraukums maršrutu tīklā, tūkst.km

Gads	Kopā (tūkst.km)	Tendence (tūkst.km)
2016	41,500	45,000
2017	42,500	44,000
2018	43,000	43,000
2019	50,000	42,500
2020	44,000	41,500
2021	39,000	40,500
2022	35,500	40,000

[Rādīt datu tabulu >](#)

Rīcības, kas ietekmē šo rādītāju

Rīcība	Progress	Ietekme
36 Ar sabiedrisko transportu veikto pasažierkilometru skaita palielināšana		



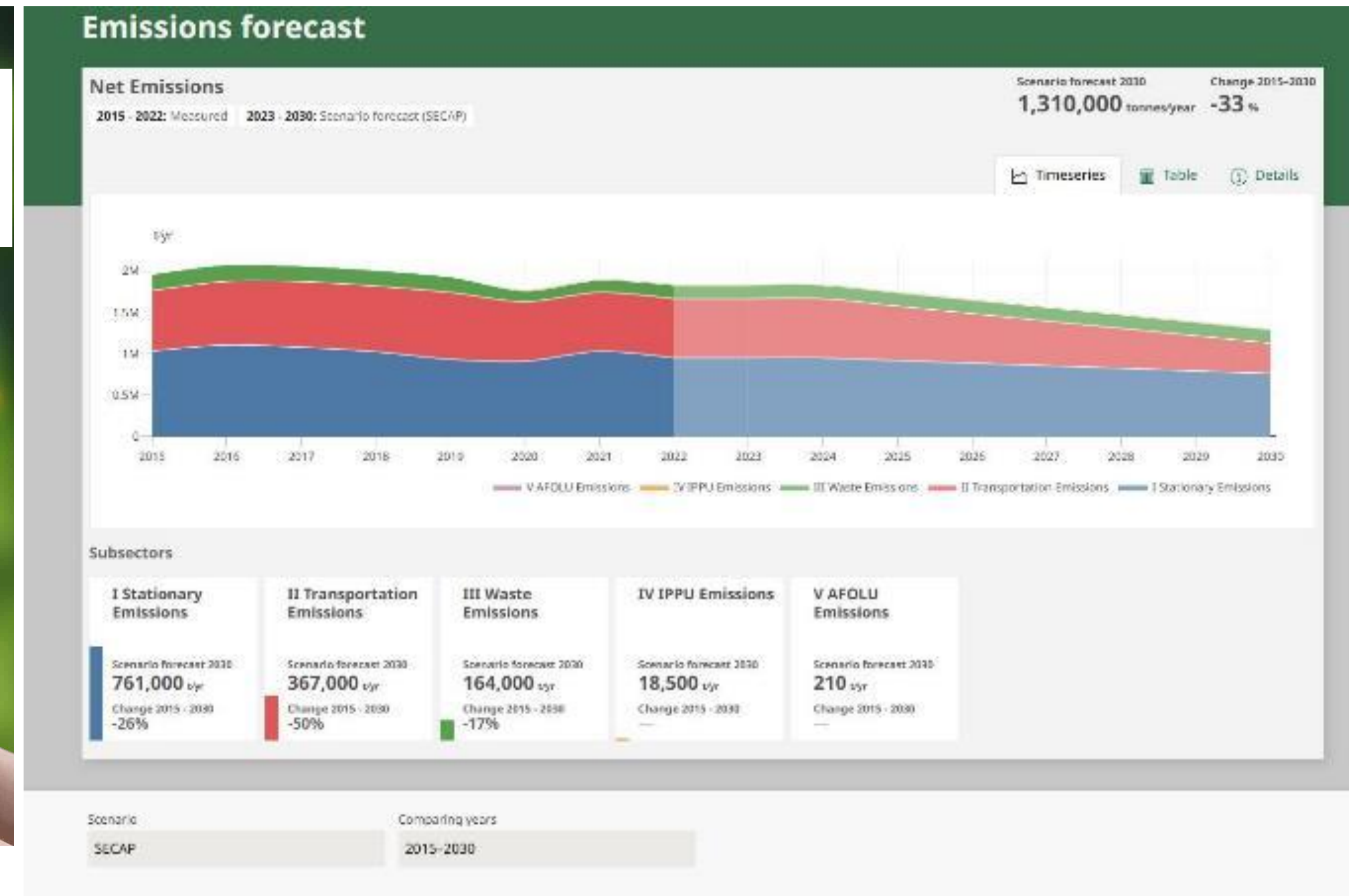
Online Climate Data Management and Monitoring Platform (by Kausal Oy)

Climate Action Decision Support Tool

Visual projection of CO2 savings & climate budgeting

Specific measures & savings

Tracking of the city goals





Thank you!

Inga.Pelša@riga.lv