



# ENERGY EFFICIENCY IN LITHUANIA

LITHUANIAN ENERGY AGENCY  
Energy efficiency competence centre  
Agnietė Melninkaitienė

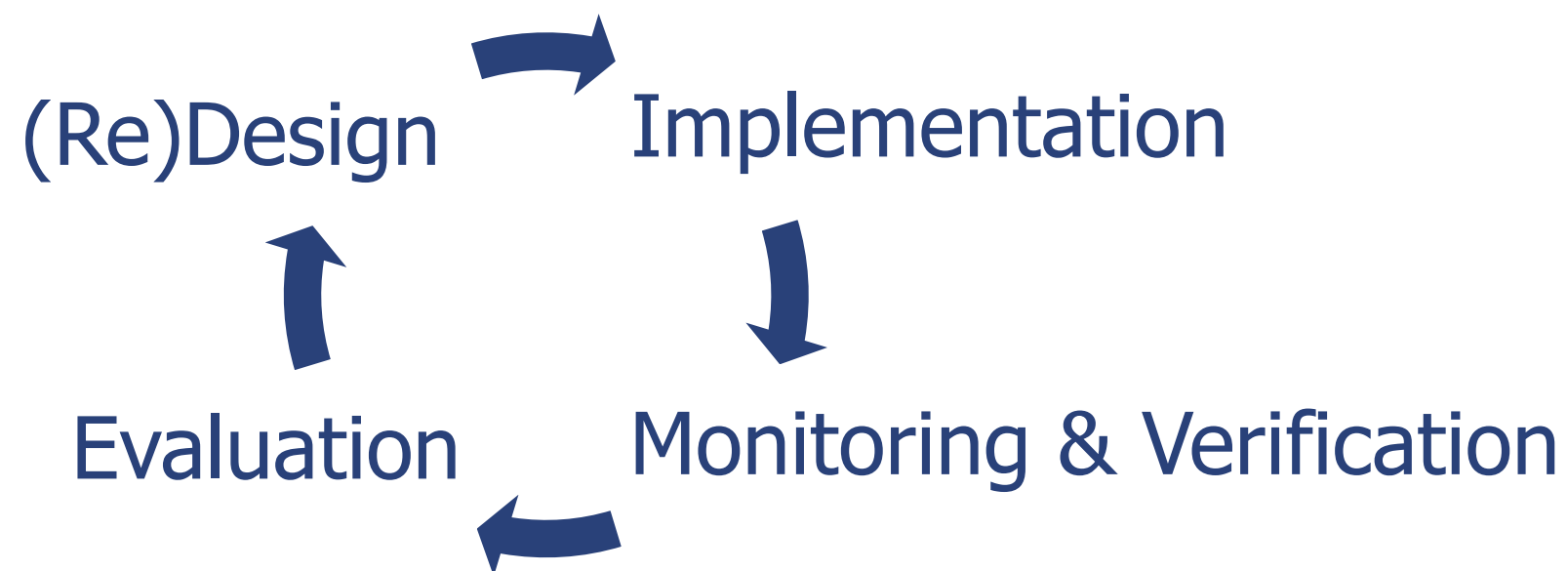


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➤ Support for the **implementation of Article 7 > 8 EED**

➤ Target groups: **public authorities & agencies, stakeholders** (energy companies, ESCos, ...)

➤ Scope: **whole policy cycle**



**14 partners from 12 countries**

8 public authorities, agencies or institutes

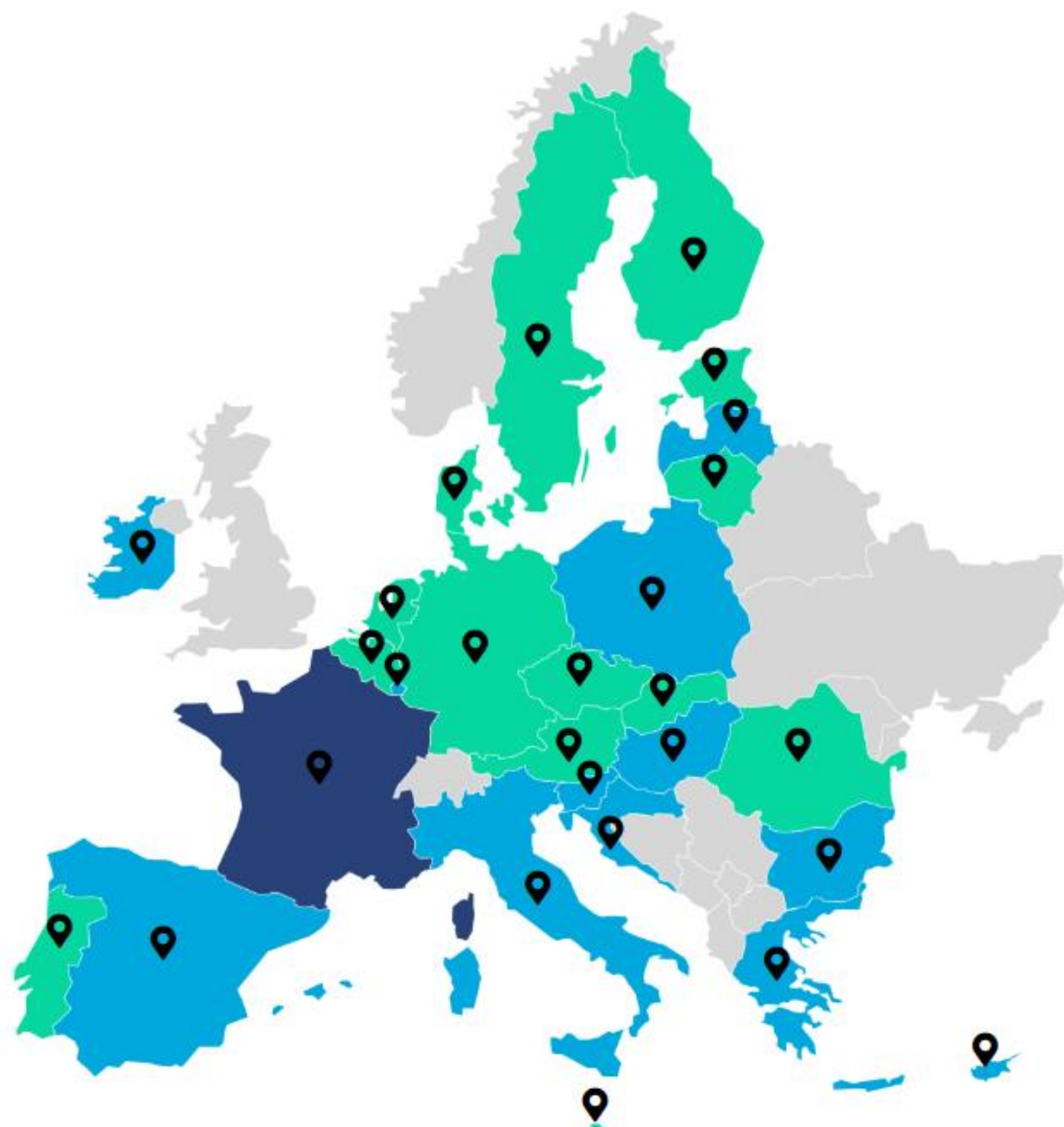


2 national associations of stakeholders



4 research labs or think tanks





● Alternative measures only

Austria

Belgium

Czechia

Denmark

Estonia

Finland

Germany

Lithuania

Malta

Portugal

Romania

Slovak Republic

Sweden

The Netherlands

● EEOS and alternative measures

Bulgaria

Croatia

Cyprus

Greece

Hungary

Ireland

Italy

Latvia

Luxembourg

Poland

Slovenia

Spain

● EEOS only

France

<https://energysavingpolicies.eu/>



Analysis and  
data monitoring



Energy innovation



Strategic oil reserve  
management



Administration of  
energy projects



Offshore wind  
project in the Baltic  
Sea



Energy efficiency



Energy security



Promotion of  
Renewables

## Supervision and quality assurance of energy audits

- Attestation of energy auditors
- Administration and quality assessment of auditors' reporting
- Improving the quality of energy consumption audits
- Creation of auxiliary tools for audits preparation

## EE policy measures monitoring

- National progress report (EE Directive)
- Monitoring and verification of:
  - energy savings agreements
  - measures for end - users education and counseling
  - measures for services of public interest

## Methodical support for project implementers

- Providing methodological assistance for public buildings' renovation, only in the scope of energy efficiency:
  - Preparation of standard documents for public procurement
  - Preparation of proposals for the integration of efficiency and sustainability measures
  - Monitoring and ex-post analysis of implemented projects
  - Dissemination of good practice

## Analysis and research activities

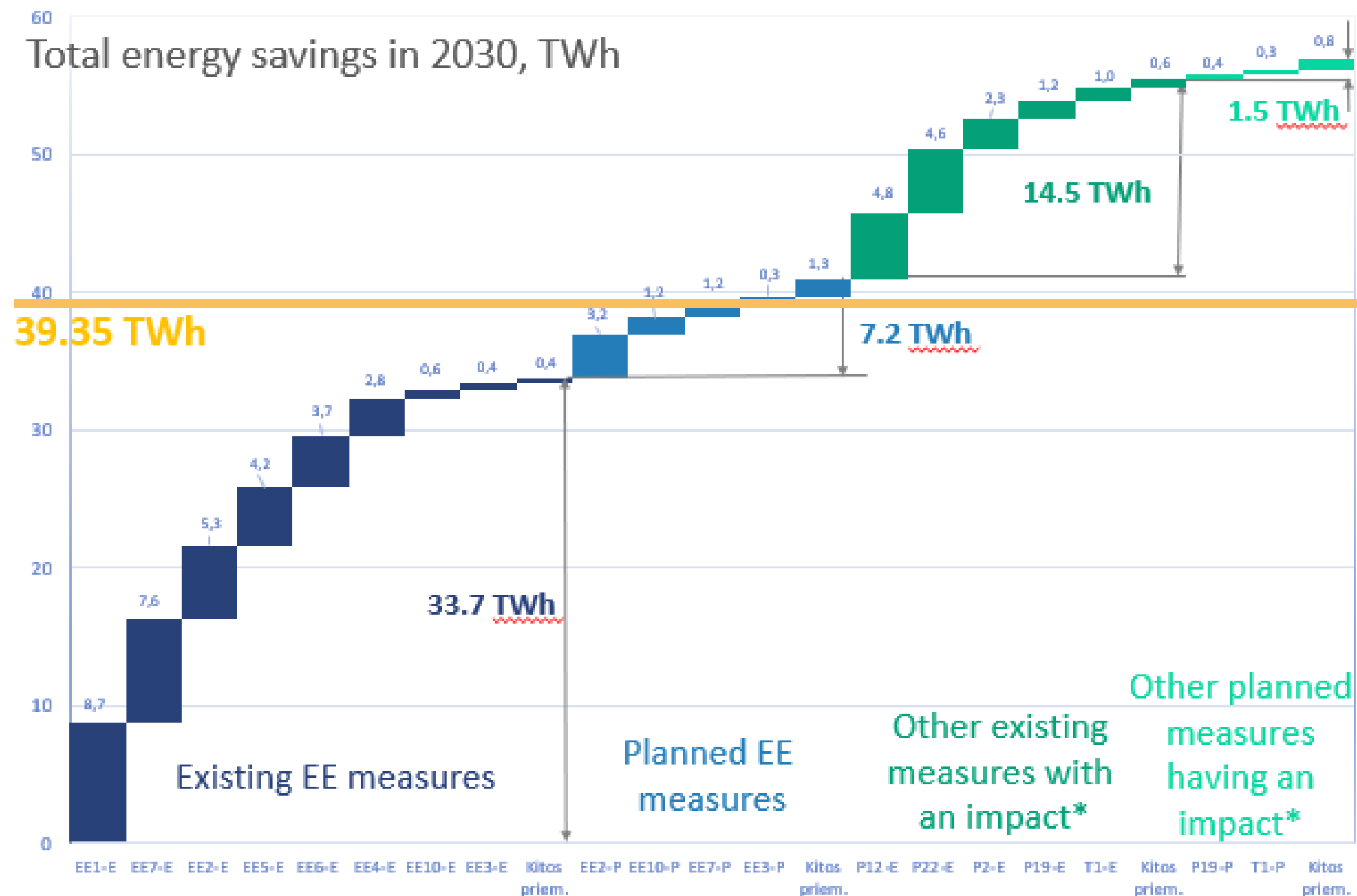
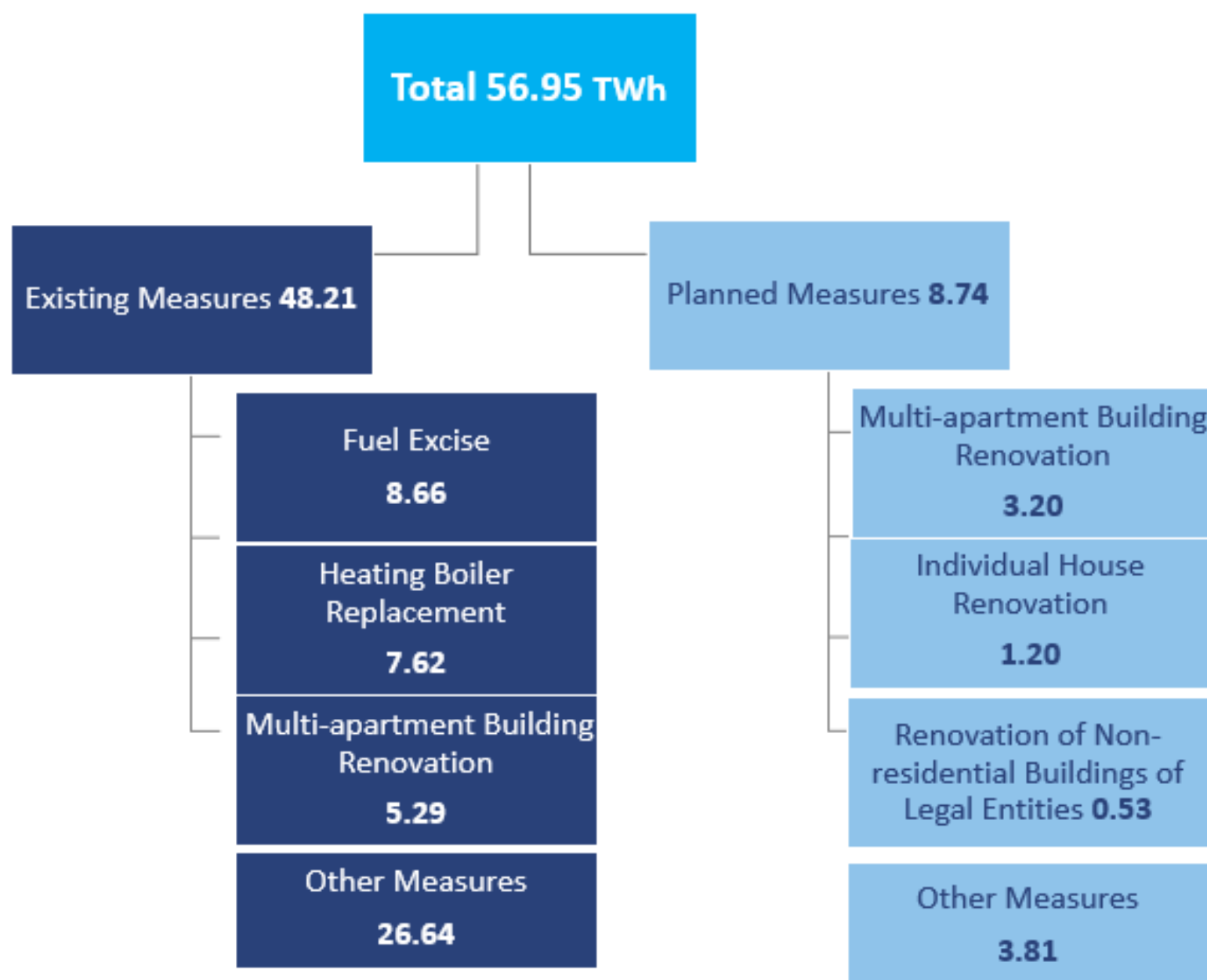
- Compilation of the list of public buildings (central government buildings)
- Data collection, systematization and analysis
- Preparation of analytical works
- Cooperation with international organizations (IEA, EnR)

## Projects

- Participation in international projects financed by LIFE IP, Norwegian financial instruments, EU Technical Assistance Facility
- Project initiation (Preparation and submission of project applications)

➤ Preparation of proposals for the improvement of the legal framework

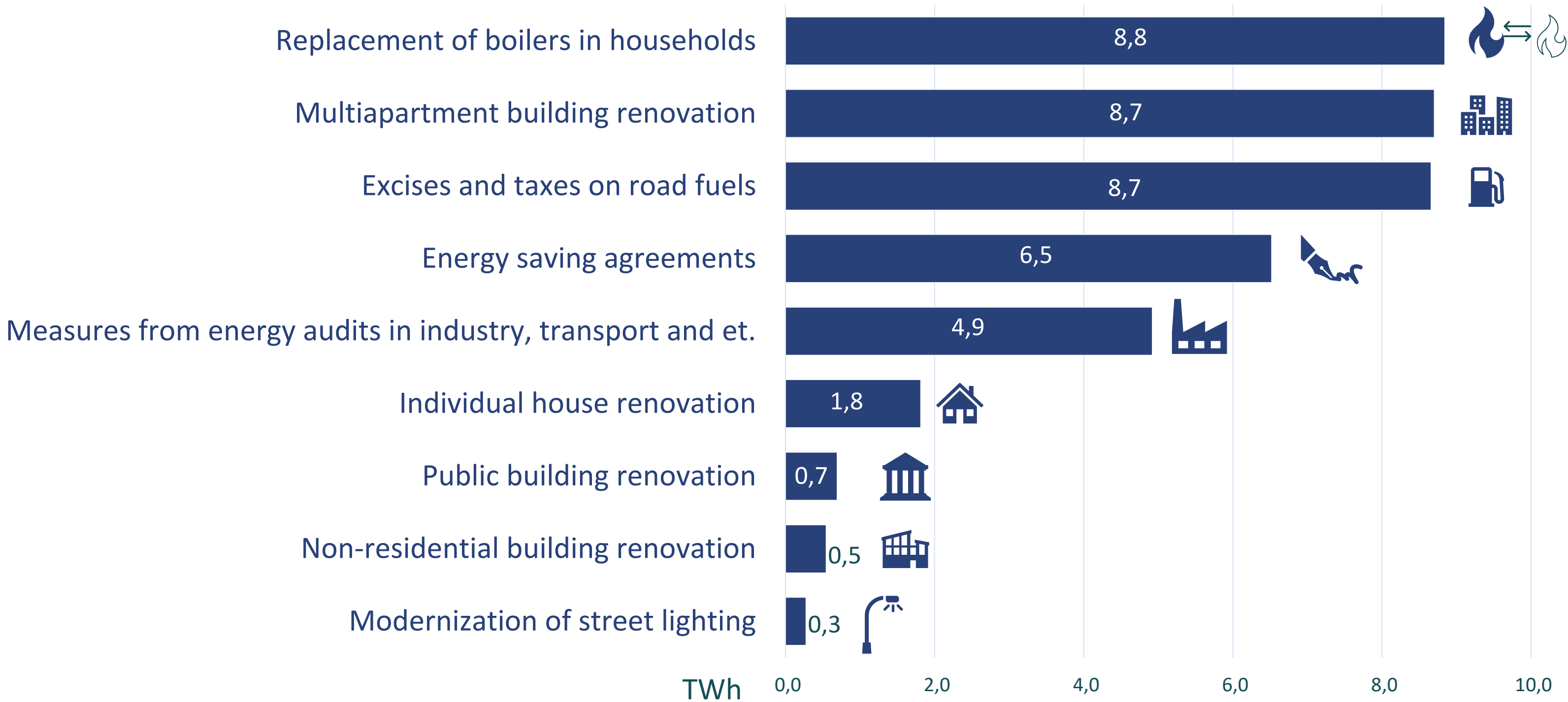
The target for the total energy saved by 2030 – **39.35 TWh**.



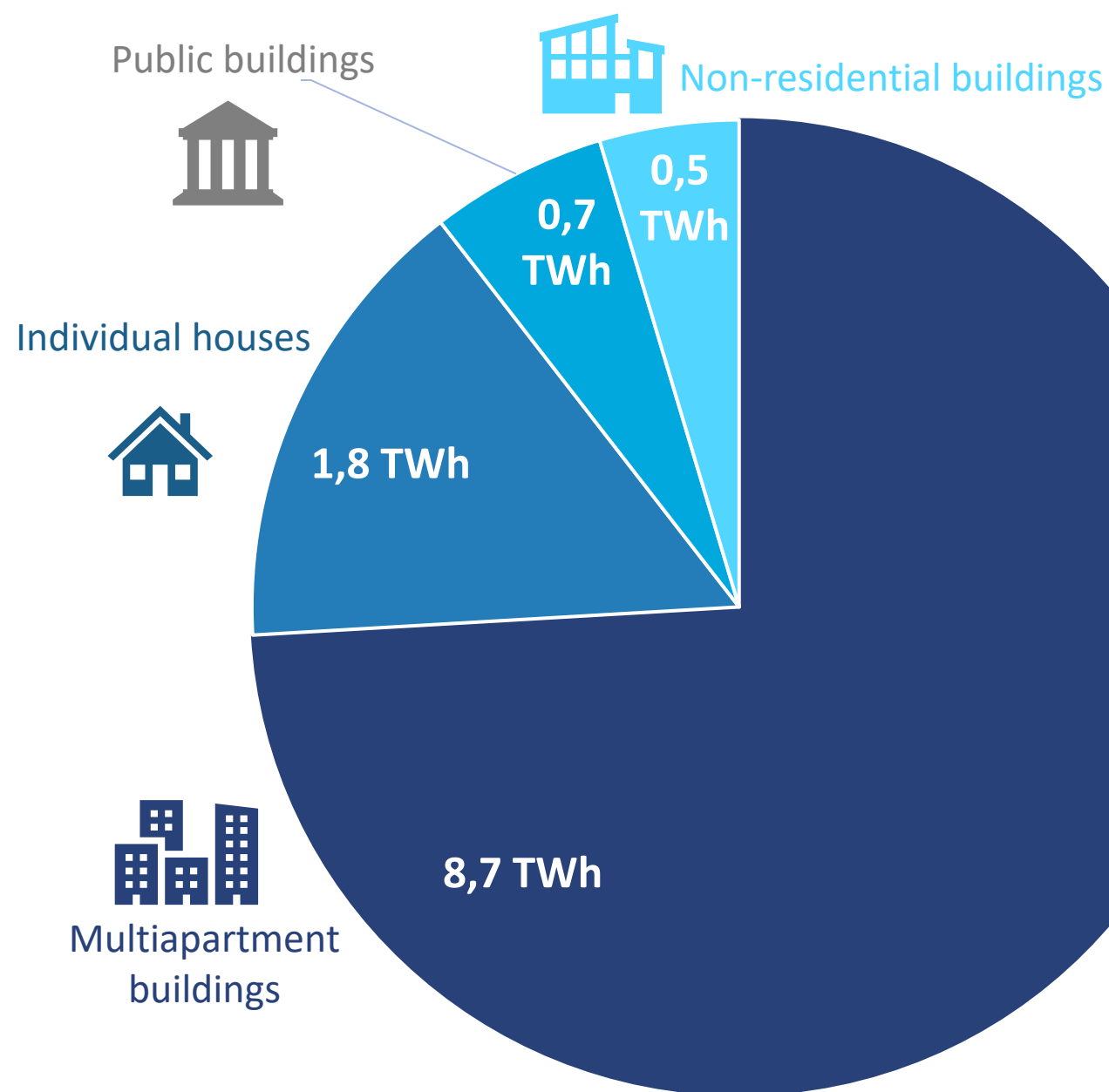
\* Measures in the transport and industrial sectors that impact energy efficiency

Year	Energy Saving Target, TWh	Energy Saving Achieved, TWh
2021 – 2030	39.35	7.58

Policy Measures and Savings Projections



**Projected Energy Savings in 2021 – 2030  
by Building Renovation:  
11,7 TWh**



## Multi-apartment building renovation

Annual target: Renovate >1 000 buildings.



## Individual house renovation

Annual target: Renovate >3 000 individual houses.



## Public building renovation

Annual target: Renovate about 80 000 m<sup>2</sup> of public buildings area.



## Non-residential building renovation

Annual target: Renovate about 100 000 m<sup>2</sup> of buildings area.

## Good practice:

1. During renovation, the building **envelope** is insulated, **engineering systems** are automated or replaced, other **efficiency** and **renewable energy measures** (**solar panels**, **heat pumps**) are installed. As a result, **expenses for energy** decrease, **CO<sub>2</sub> emissions** are reduced, and **comfort** is increased.
2. Renovation rates in Lithuania have increased due to the financial support of the structural funds of the European Union.
3. Lower-income households were encouraged to agree with Multiapartment building renovation by connecting the renovations to heating bill support.

## Energy Efficiency Obligations

**MANDATORY** – State owned energy Transmission and Distribution operators (Litgrid, ESO, Ambergrid)

**VOLUNTARY** – Other energy suppliers, state and municipal enterprises

INPUT of member: technical and financial contribution in energy efficiency measures

## Education and Consulting Agreements

**MANDATORY** – All energy suppliers (electricity, heat, gas)

INPUT of member: educational and consulting activities to implement energy efficiency measures

 **Agreements signed 33**

**HARD** measures to improve energy efficiency

 **Agreements signed 59**

**SOFT** measures to improve energy efficiency

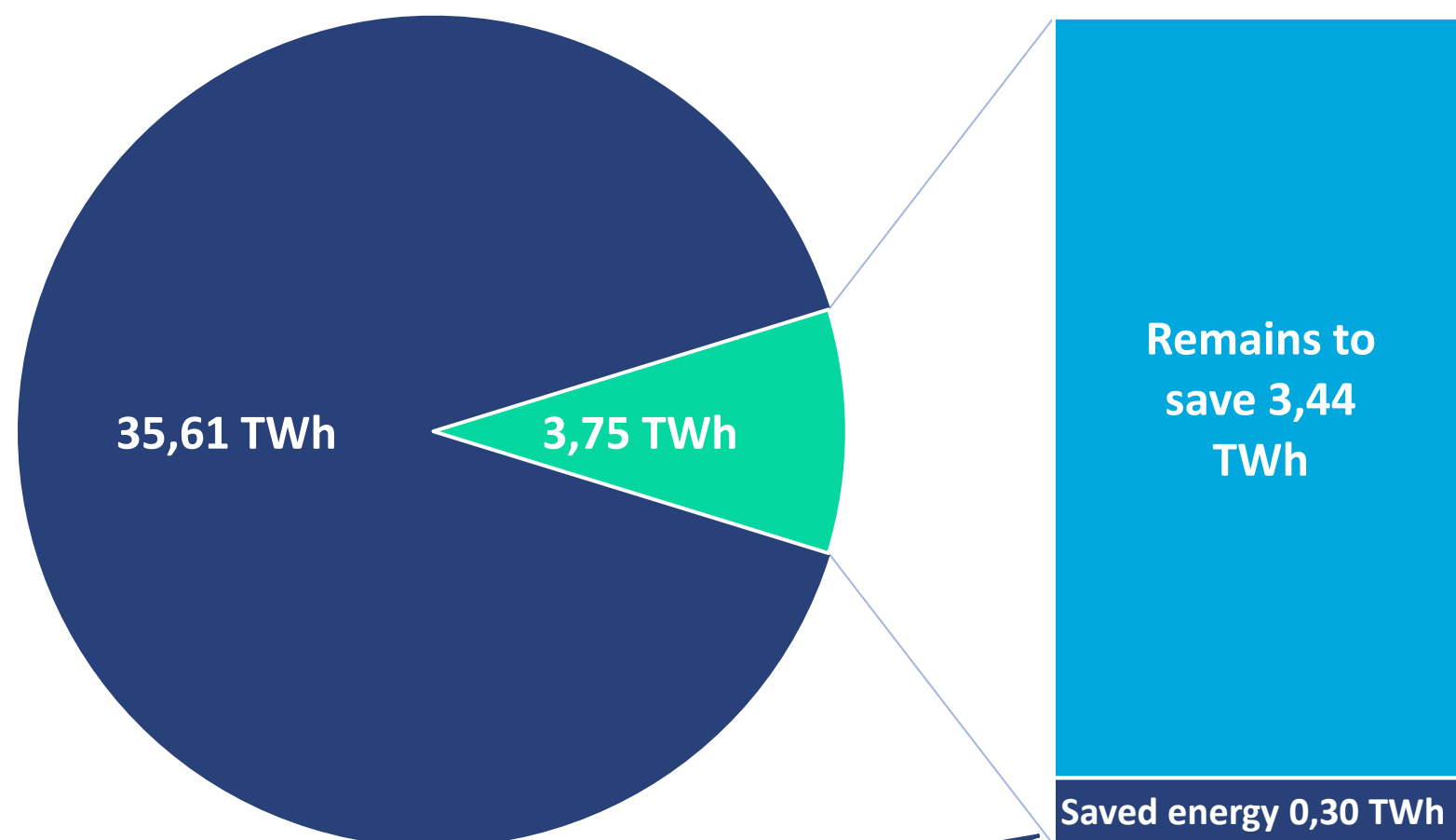
All  
Verify  $\geq 20\%$  of measures  
Implementation costs  
Calculation methods  
Energy savings achieved

◀ **Evaluation of calculations** ▶  
◀ **Verification of documents** ▶  
◀ **Analysis and reporting to Ministry of Energy of the Republic of Lithuania** ▶

All  
Verify  $\geq 20\%$  of measures  
Types of measures  
Number of affected consumers (by groups)  
Resulting energy savings

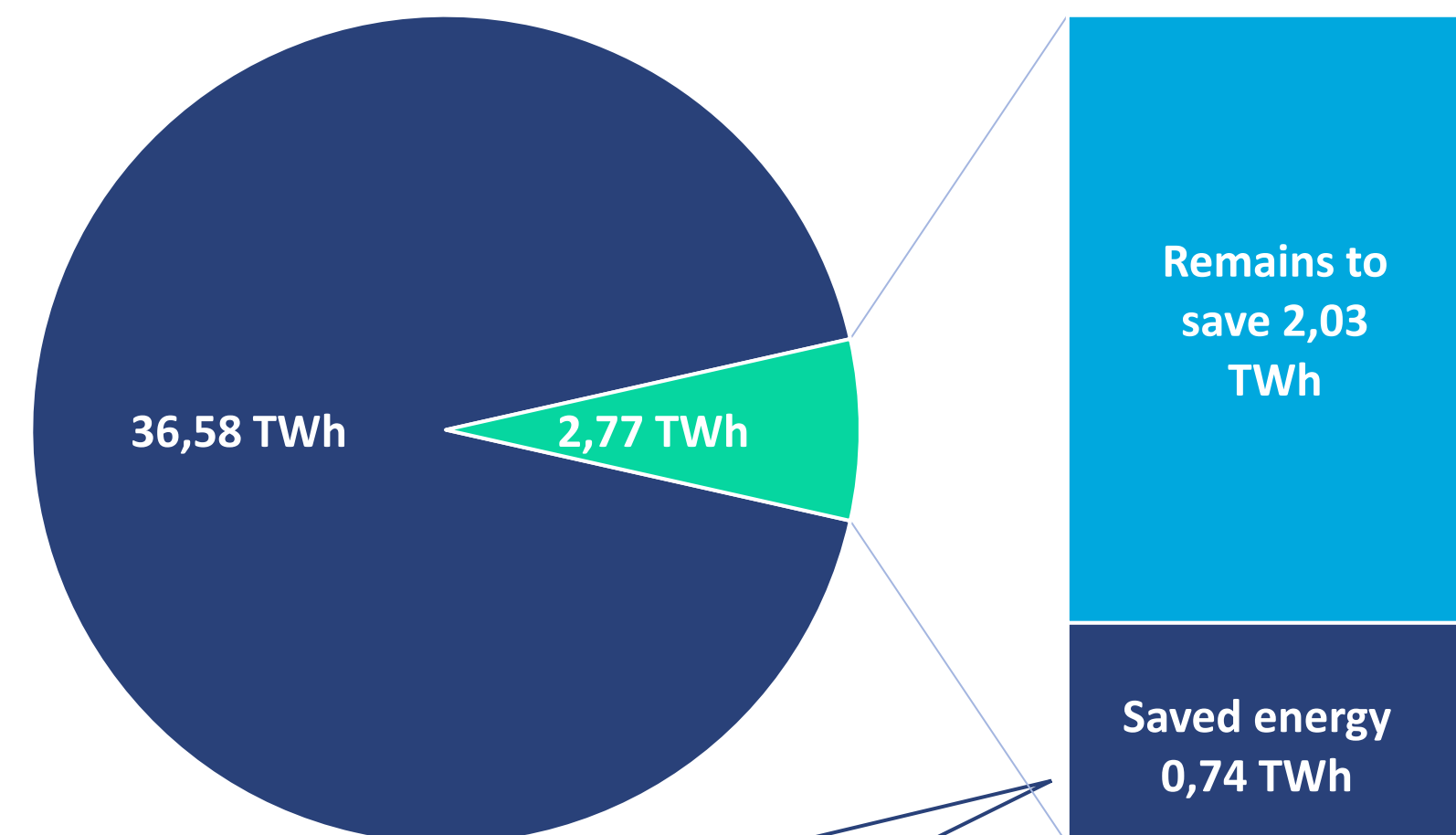
# IN IMPLEMENTATION OF EEO IS SAVED 8 % AND OF ECA IS SAVED 27 % FROM ITS TARGETS

2021–2030 EEO input in EE target is 3,75 TWh



2021 saved 20,25 GWh;  
2022 – 17,16 GWh;  
2023 – 266,71 GWh.

2021–2030 ECA input in EE target is 2,77 TWh



2021 saved 291 GWh;  
2022 – 235 GWh;  
2023 – 215 GWh.

- The increase of energy savings in 2023 was caused by a higher number of enterprises implementing savings agreements (increased 7 times, from 4 to 29 companies).
- Several enterprises exceeded their targets by 2 times (or more).

- Energy savings in 2022 and 2023 are similar, as the number of energy suppliers is almost unchanged.

## Energy Saving Training for Company Employees

- Helps staff understand how to use energy efficiently at work.
- Covers practical, visual, and engaging content.

### Key topics include:

- Understanding energy use and reducing waste;
- Energy pricing, fluctuations, and bill breakdown;
- Ways to improve efficiency and reduce costs.

Visit: <https://www.ena.lt/renginiai/> for latest event information

## Media Engagement & Public Communication

- **Goal:** Raise public awareness and ensure broad information access.
- **Topics:** energy sector trends, current news and issues, energy efficiency, and more.



- Interest group: Ministry of Energy of the Republic of Lithuania - Energy Efficiency Policy Group.
- The purpose of the meeting: LEA has introduced the demand for support of companies having signed new energy-saving agreements.
- The meeting was private and focused on energy-saving agreements (ESS), common challenges, and calculation issues.



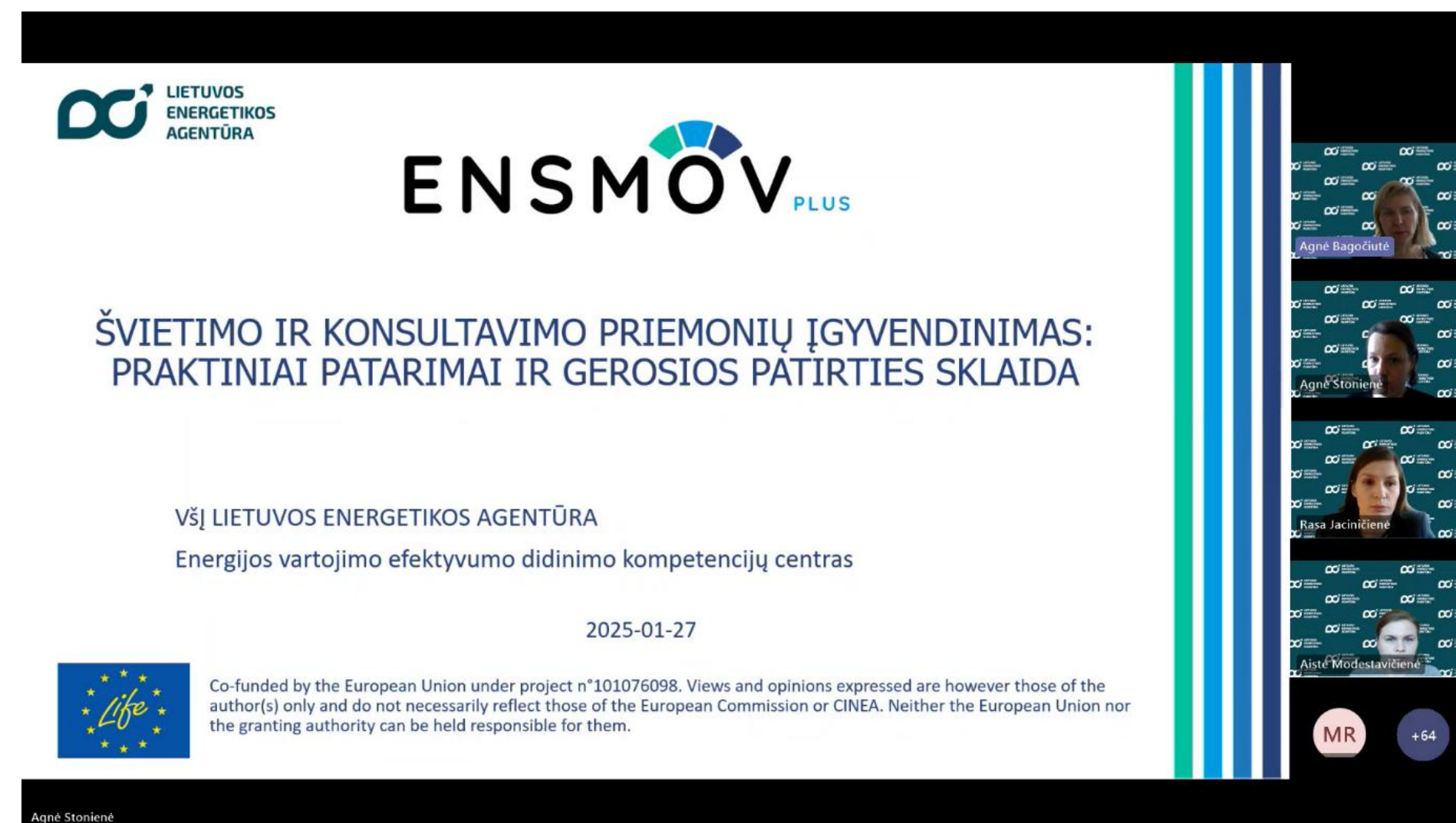
- **Interest group:** Ministry of Energy of the Republic of Lithuania - Energy Efficiency Policy Group and Companies having signed new energy-saving agreements.
- **The purpose of the meeting:** LEA has introduced the procedure of reporting energy savings in detail.
- LEA analyzed company reports and proposed solutions to improve energy savings calculations, simplify reporting, and justify implemented measures.



- **Interest group:** Heat Suppliers preparing to join the agreement scheme.
- **The purpose of the meeting:** LEA has introduced the procedure of implementing energy savings agreements and selecting energy-saving measures.
- Practical examples were shared to help companies plan their energy efficiency strategies. LEA has developed templates and guidelines for annual reporting and online tools for calculating energy savings.



- **Interest group:** Lithuanian energy suppliers having signed agreements with the Ministry of Energy.
- **The purpose of the meeting:** LEA has introduced implementation of education and counselling measures: practical advice and dissemination of good practices
- The meeting was held online format
- LEA experts presented the implementation process, provided guidance on best practices, and shared insights into achieving effective results.



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following content:

- Logos:** LIETUVOS ENERGETIKOS AGENTŪRA and ENSMOV PLUS.
- Title:** ŠVIETIMO IR KONSULTAVIMO PRIEMONIŲ ĮGYVENDINIMAS: PRAKTINIAI PATARIMAI IR GEROSIOS PATIRTIES SKLAIDA
- Organizer:** VŠĮ LIETUVOS ENERGETIKOS AGENTŪRA, Energijos vartojimo efektyvumo didinimo kompetencijų centras
- Date:** 2025-01-27
- Funding:** Co-funded by the European Union under project n°101076098. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Commission or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

On the right side of the Zoom interface, there is a vertical list of participants' video thumbnails. The names of the participants visible are:

- Agnė Bagočiūtė
- Agnė Stonienė
- Rasa Jaciničienė
- Aistė Modestavičienė

At the bottom of the Zoom interface, there is a name bar for Agnė Stonienė and a button labeled 'MR'.



**Objective:** Save energy and reduce costs by optimizing consumption.

## Key Areas:



## Guidelines for different sectors:

 **Households**

 **Public sector**

 **Service sector**

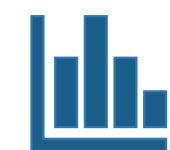
 **Industrial sector**



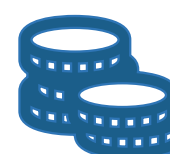
**Recommendations** categorized by energy type, implementation time, saving potential, investment, and effort:



**Implementation timeframe** (quick, low-effort actions for immediate savings or longer-term improvements for greater impact 6–12 months);



**Energy-saving potential** (estimated percentage of energy savings from lowest to highest);



**Investment requirements** (from no investment needed to actions requiring significant investment);



**Effort level** (from low-effort actions to those requiring substantial effort).

## ESTABLISHMENT OF PRIVATE CHARGING POINTS FOR ELECTRIC VEHICLES:



BUDGET – 21.25 million EUR

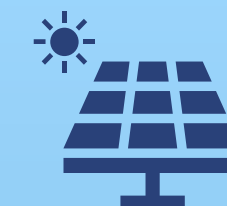
TARGET – 18 910 charging points in households, near multiapartment residential buildings, on poles of lighting networks and in workplaces;

IMPLEMENTATION PERIOD: 2022–2026;

APPLICANTS – private and legal persons;

SUPPORTED ACTIVITY: installation of charging points: private persons – up to 22 kW, legal persons – up to 44 kW.

## CONSTRUCTION OF SOLAR POWER PLANTS:



BUDGET – 76.21 million EUR

TARGET – 170.38 MW of additional electricity generation capacity;

IMPLEMENTATION PERIOD: 2023–2026;

APPLICANTS: companies, farmers, renewable energy communities and citizens' energy communities;

SUPPORTED ACTIVITY: installation of solar power plants up to 500 kW.

**TOTAL: 248.65 million EUR**

## REPLACING INEFFICIENT BIOFUEL OR FOSSIL FUEL BOILERS BY MORE EFFICIENT HEAT GENERATION TECHNOLOGIES USING RES:

BUDGET – 120.2 million EUR

TARGET – 20 504 dwellings with more efficient heat generation technologies, 166.3 MW heat generation from RES;

IMPLEMENTATION PERIOD: 2023–2030;

APPLICANTS: households;

SUPPORTED ACTIVITY: installation of heat pumps or 5th class biofuel boilers.



## INSTALLATION OF ELECTRICITY STORAGE CAPACITY POWERED BY RES:

BUDGET – 30.99 million EUR

TARGET – 109.3 MWh storage capacity;

IMPLEMENTATION PERIOD: 2023–2026;

APPLICANTS: companies, farmers, renewable energy communities and citizens' energy communities;

SUPPORTED ACTIVITY: installation of storage facilities up to 500 kWh.



# Thank you!

Contact:



ENSMOV Plus



@ensmov / #ensmovplus



<https://ieecp.org/projects/ensmov-plus/>



Our Platform: <https://energysavingpolicies.eu/>



Lietuvos Energetikos Agentūra /  
Lithuanian Energy Agency

<https://www.linkedin.com/company/litena/>



<http://www.ena.lt>



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