



ENERGY EFFICIENCY IN LITHUANIA

LITHUANIAN ENERGY AGENCY
Energy efficiency competence centre
Agnietė Melninkaitienė



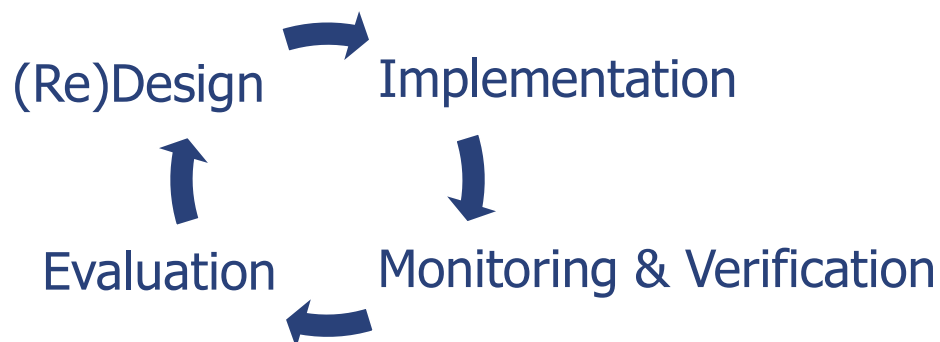
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➤ Support for the **implementation of Article 7 > 8 EED**

➤ 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

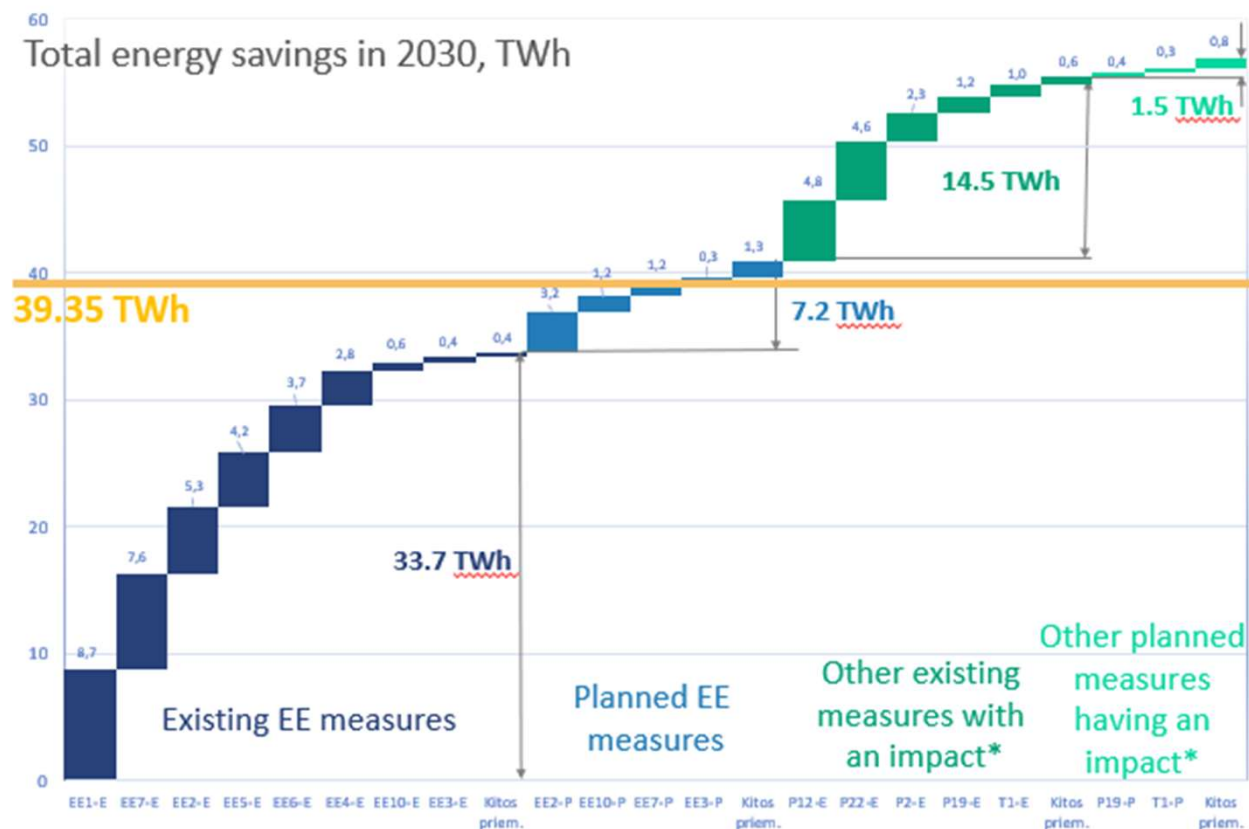
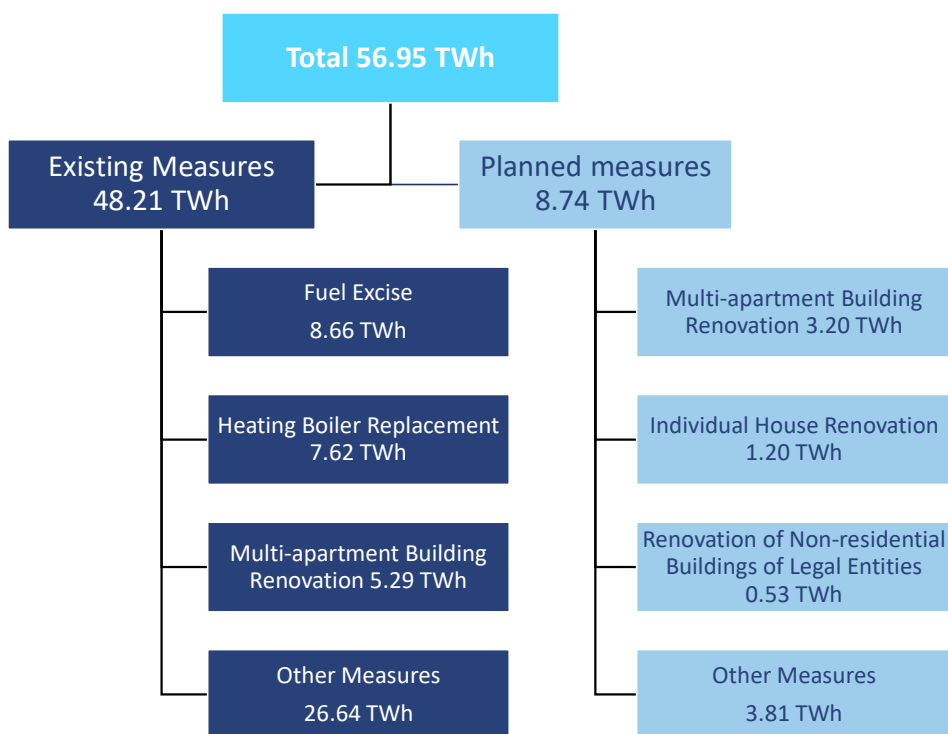
- Compilation of the list of public buildings (central government buildings)
- Data collection, systematization and analysis
- Preparation of analytical works
- Cooperation with international organizations (IEA, EnR)

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

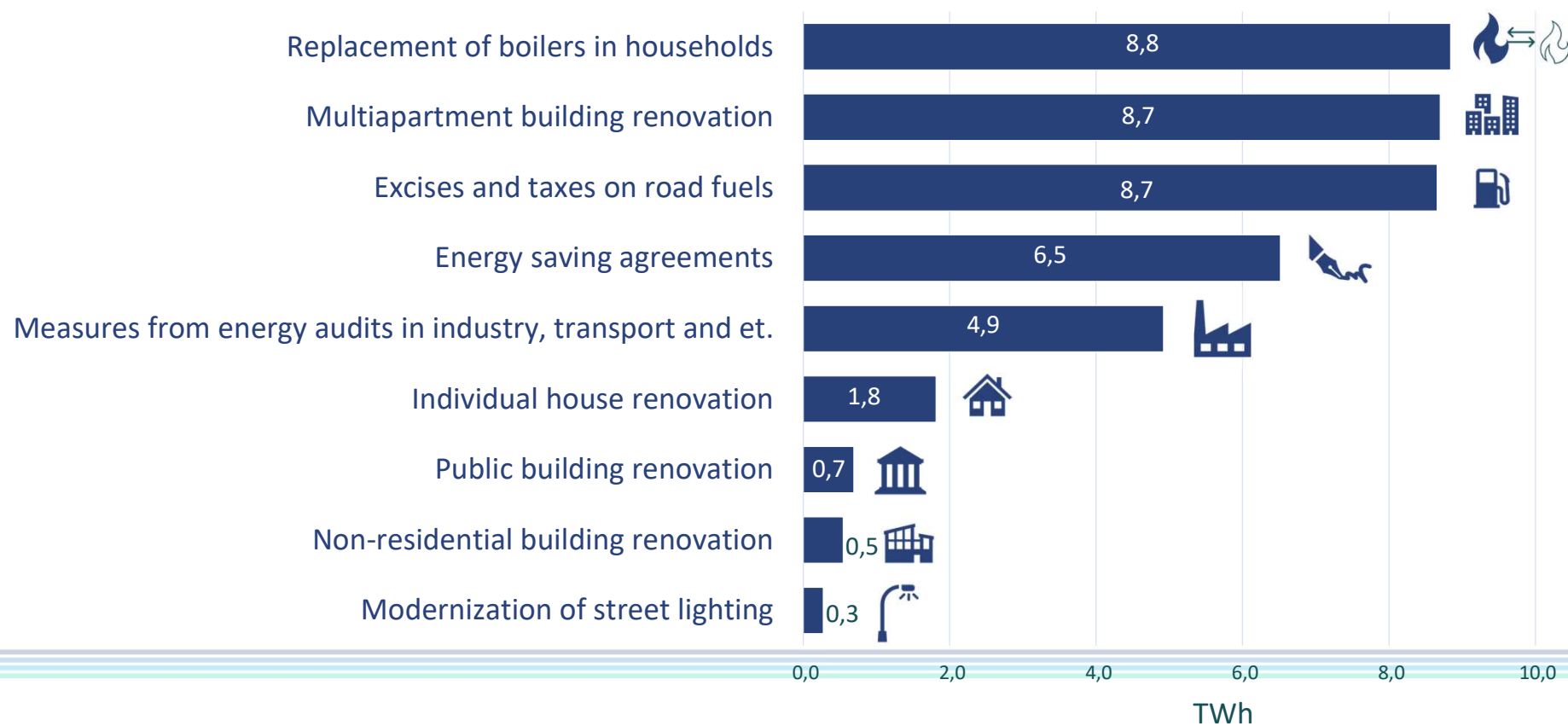
The target for the total energy saved by 2030 – **39.35 TWh**.



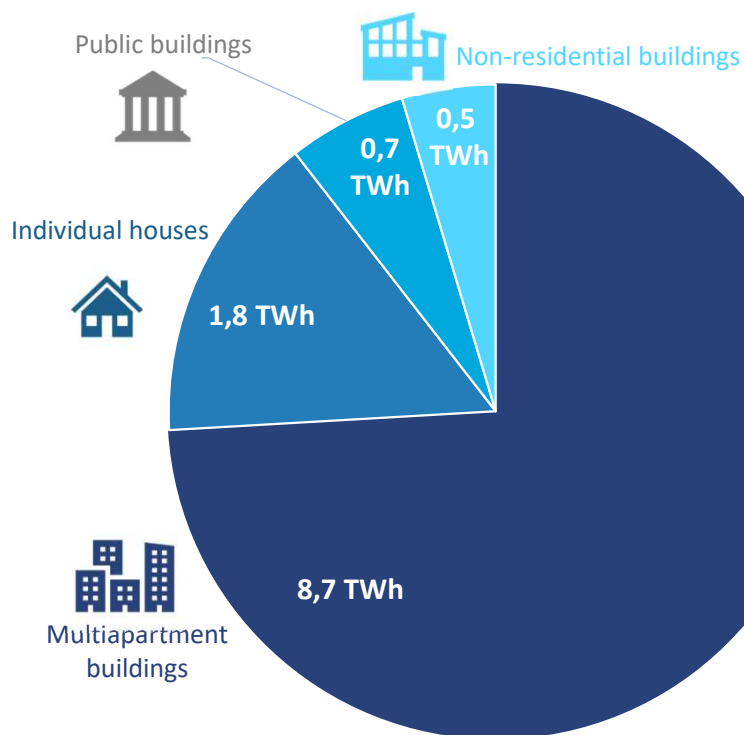
* Measures in the transport and industrial sectors that impact energy efficiency

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 m² of public buildings area.



Non-residential building renovation

Annual target: Renovate about 100 000 m² 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, **CO₂ 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.

DESCRIPTION OF ENERGY SAVINGS AGREEMENTS

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

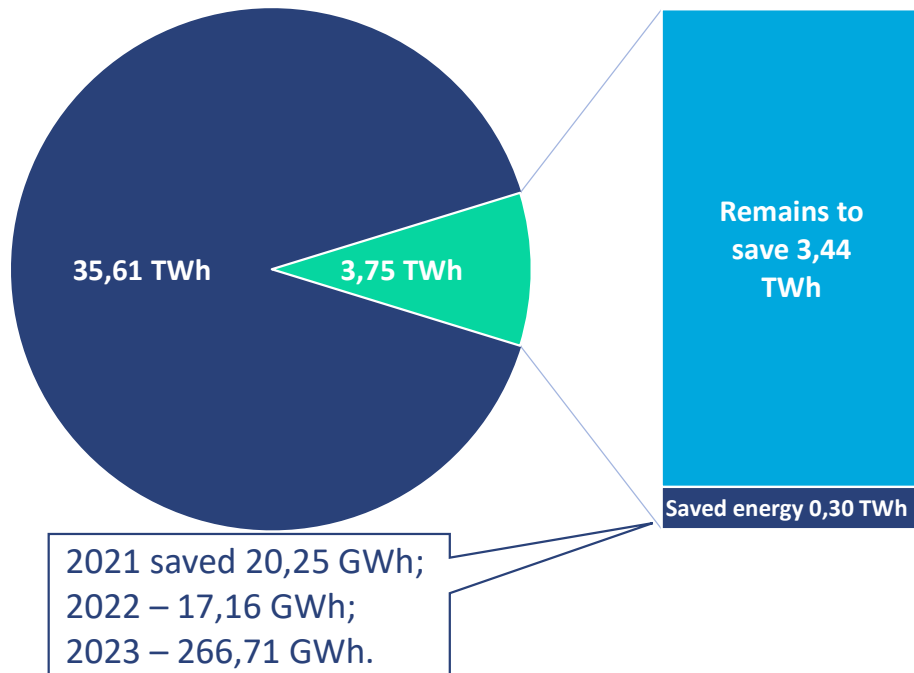
All
Verify $\geq 20\%$ of measures
Implementation costs
Calculation methods
Energy savings achieved

◀ **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

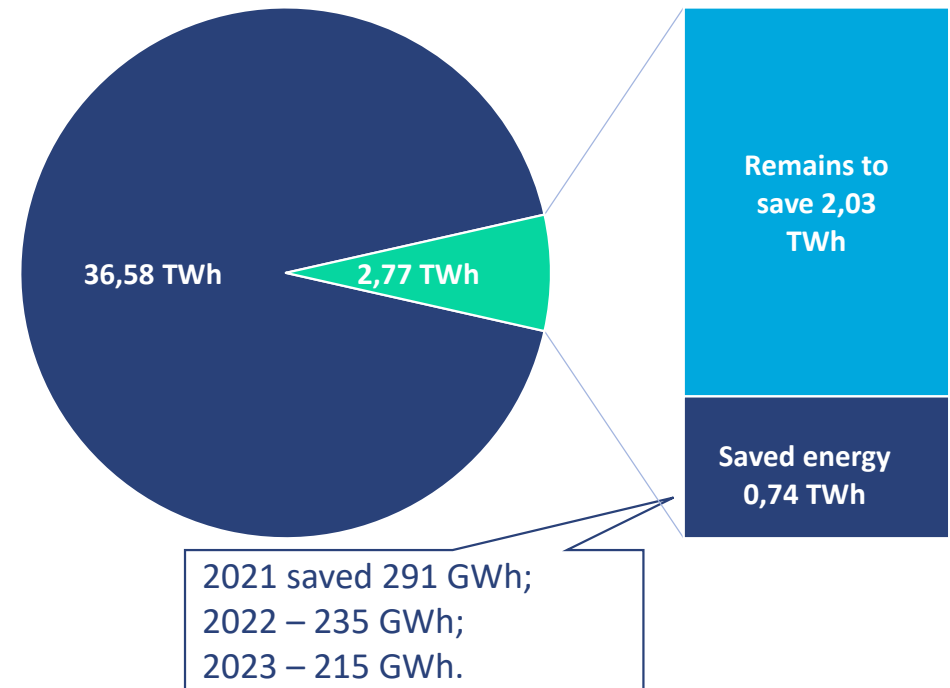
IN IMPLEMENTATION OF EEO IS SAVED 8 % AND OF ECA IS SAVED 27 % FROM ITS TARGETS

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



- 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).

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



- 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.



1st national Meeting: AGREEMENTS WITH COMPANIES AND ENERGY SUPPLIERS

- **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.



2nd national Meeting: AGREEMENTS WITH COMPANIES AND ENERGY SUPPLIERS

- **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.



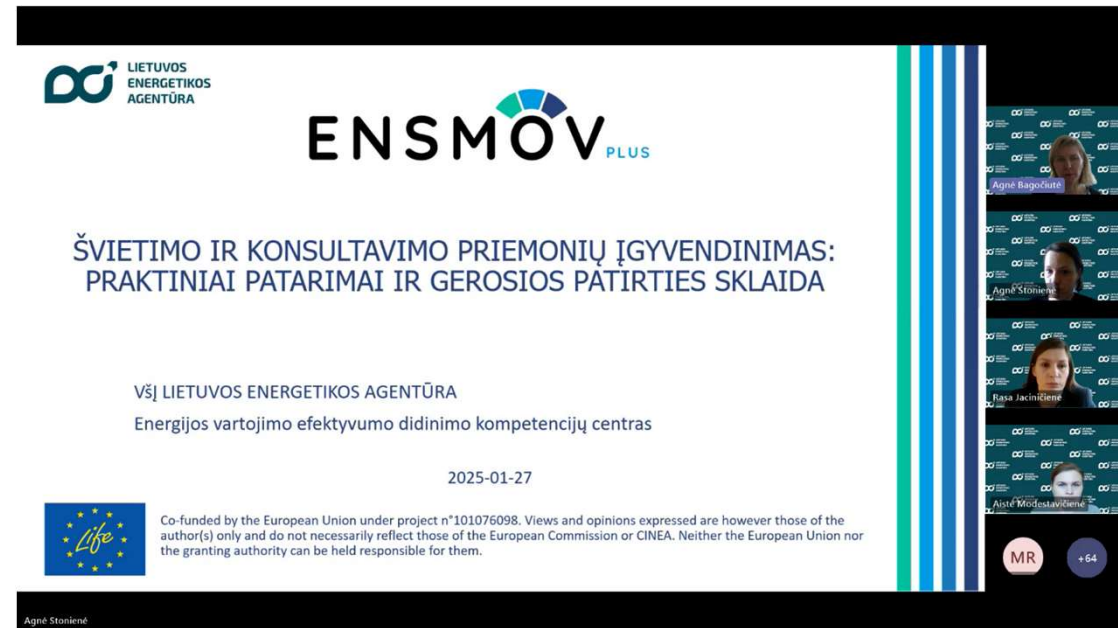
3rd national Meeting: LITHUANIAN HEAT SUPPLIERS JOIN THE ENERGY SAVINGS AGREEMENTS SCHEME

- **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.



4rd national Meeting: IMPLEMENTATION OF EDUCATION AND COUNSELLING MEASURES: PRACTICAL ADVICE AND DISSEMINATION OF GOOD PRACTICES

- **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.



LIETUVOS ENERGETIKOS AGENTŪRA

ENSMOV PLUS

ŠVIETIMO IR KONSULTAVIMO PRIEMONIŲ ĮGYVENDINIMAS:
PRAKTINIAI PATARIMAI IR GEROSIOS PATIRTIES SKLAIDA

VŠĮ LIETUVOS ENERGETIKOS AGENTŪRA
Energijos vartojimo efektyvumo didinimo kompetencijų centras

2025-01-27

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Life

Agnė Stonienė



Objective: Save energy and reduce costs by optimizing consumption.

Key Areas:

 Electricity  Heat  Fuel

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



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



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



Lietuvos Energetikos Agentūra /
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<http://www.ena.lt>



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Established in 1993



**Financed by the
State budget**



**Assists the Ministry
of Energy**



108 employees



**5 international and
5 national projects**



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

