



# Barriers to investing in energy efficiency and ways to overcome them

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Knowledge Sharing on Management and Financing  
of Energy Efficiency in Multi-apartment Buildings

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# Joint research project by UNECE and C2E2

## Main topics addressed:

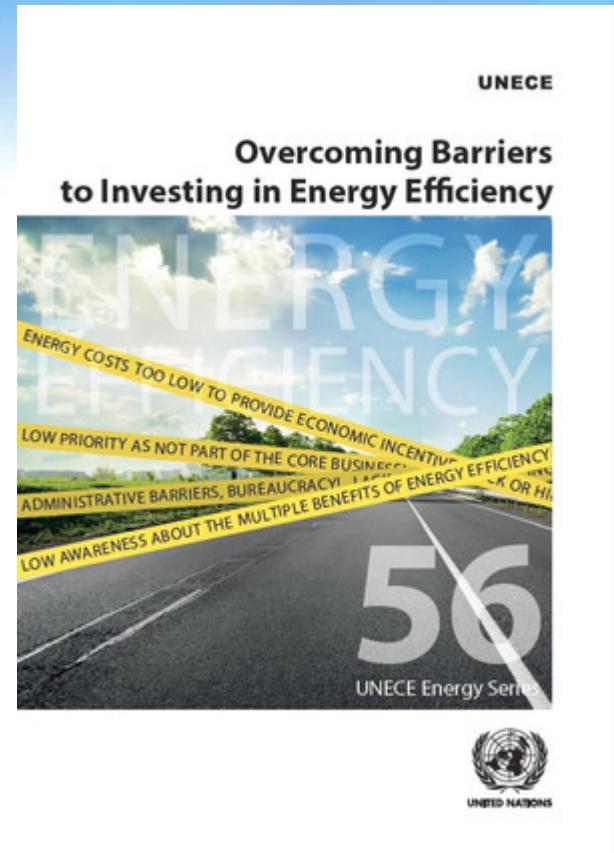
- Identifying barriers that prevent energy efficiency investments from occurring such as political, regulatory, economic and social ones
- Defining successful policies and actions that help overcome barriers to financing energy efficiency in the context of achieving sustainable development and climate goals
- Recommending ways to increase the financial flows for energy efficiency
- Mapping the roles of stakeholders such as governments, financial institutions, businesses and project developers in promoting and implementing energy efficiency investments





# Publication website

<https://www.unece.org/index.php?id=47698>





# Overall scope

## Number of responses

- GLOBAL 339 from 85 countries
- UNECE 230 from 47 countries
- EU W 129 from 23 countries
- EE C CA RF 64 from 12 countries
- SEE 23 from 5 countries





# List of countries with 8 or more responses

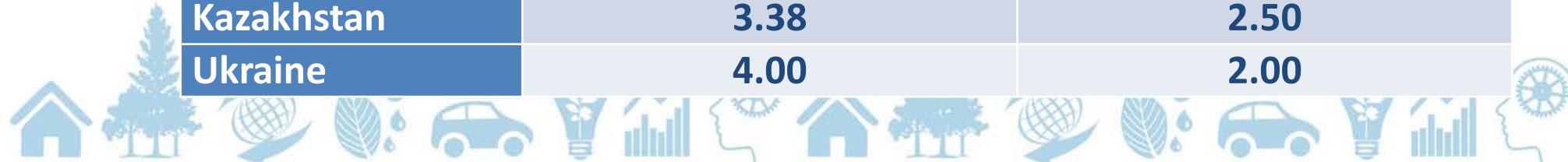
- **North America:** Canada, United States
- **Western Europe:** Croatia, Germany, Switzerland, United Kingdom
- **Eastern Europe:** Belarus, Ukraine
- **The Caucasus:** Armenia, Azerbaijan
- **Central Asia:** Kazakhstan
- **South-East Europe:** Albania, the former Yugoslav Republic of Macedonia
- **Countries outside UNECE region:** Brazil, Colombia, India, Mexico, South Africa





# Investment opportunities and actual investments

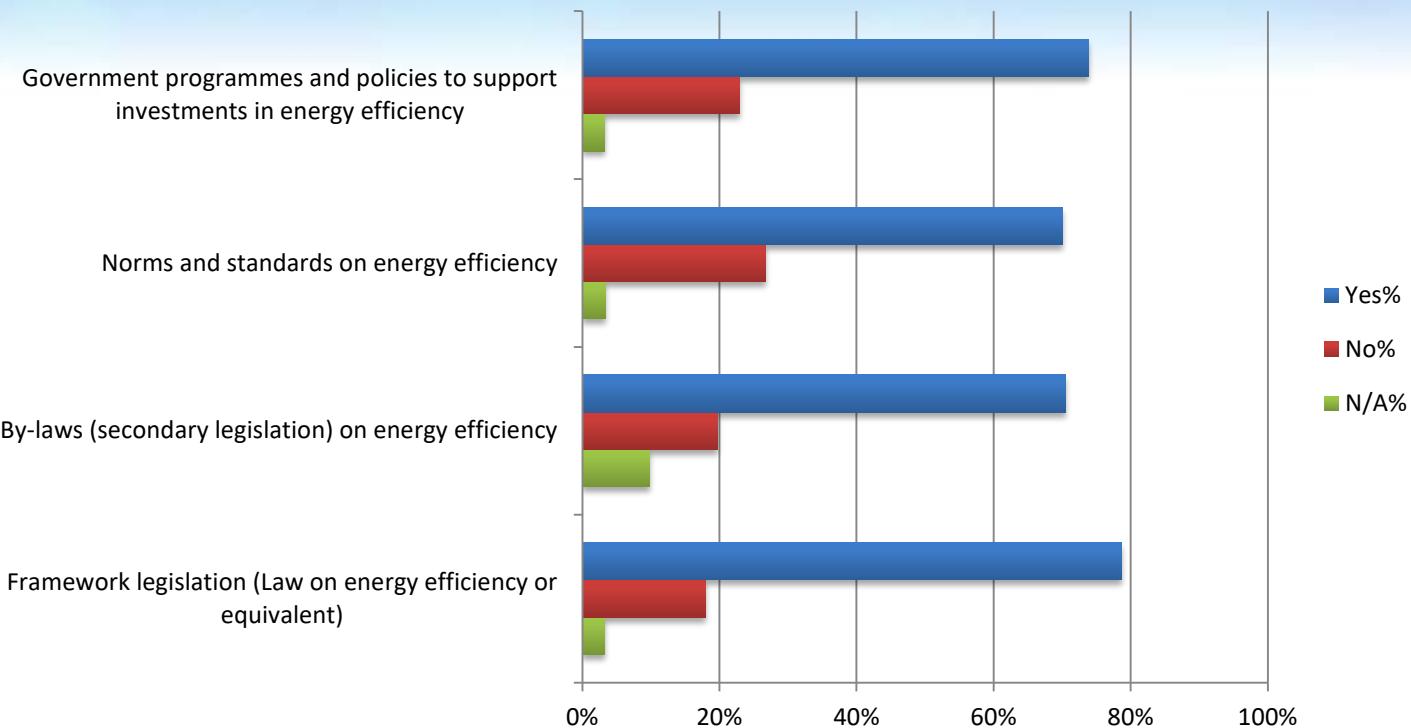
	Are there investment opportunities for energy efficiency in your country? On a scale from 1 (very few) to 5 (very many)	What level of investment in energy efficiency does your country receive? On a scale from 1 (no/very little investments) to 5 (high level of investments)
UNECE region	3.99	2.83
EE C CA RF	3.75	2.50
EU W	4.30	3.15
Armenia	4.00	2.50
Azerbaijan	3.13	2.57
Belarus	3.38	2.63
Kazakhstan	3.38	2.50
Ukraine	4.00	2.00





# Does your country have the following legislation, programmes and policies to support investments in energy efficiency?

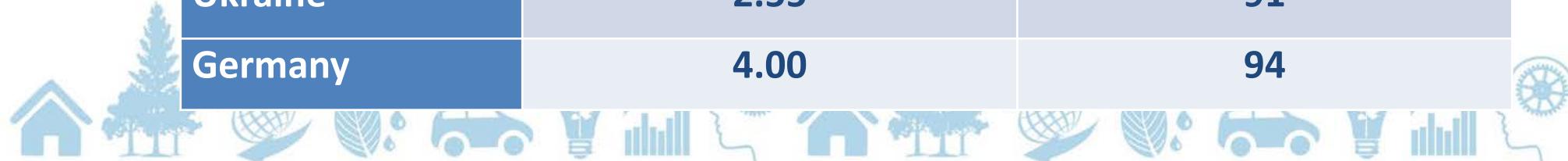
## EE C CA RF





# Effectiveness of the regulatory framework

Countries	Support for investments in energy efficiency by the regulatory framework in your country from 1 (very little support) to 5 (very strong support)	Existence of regulatory framework to support investments in energy efficiency (average of positive responses on four types of legislation), percent
Armenia	2.63	78.5
Azerbaijan	2.38	36
Belarus	3.13	97
Kazakhstan	3.00	84.5
Ukraine	2.55	91
Germany	4.00	94





# Conclusions on the status of EE financing and barriers to investing in EE

- 1. Globally and in the UNECE region, there is a high or reasonably high potential for energy efficiency investments.**
- 2. Most countries in the UNECE region have framework legislation for energy efficiency and many have other supporting legislation, programmes and policies.**
- 3. In general, there is a good correlation between the existence of the regulatory framework and how well it supports and enables investments in energy efficiency.**





# Effectiveness of national institutions

Countries	Existence of national institutions responsible for energy efficiency investment policies (average of positive responses), percent	Effectiveness of national institutions responsible for energy efficiency investment policies (on a scale from 1 (not effective) to 5 (very effective))
Armenia	100	3.63
Azerbaijan	75	2.63
Belarus	75	3.14
Kazakhstan	88	3.13
Ukraine	100	2.91
Germany	92	3.73





# Conclusions on the status of EE financing and barriers to investing in EE (cont.)

**4. Institutions at the national level responsible for developing and implementing policies that support investments in energy efficiency projects exist in the countries of the UNECE region.**

**5. Among the various levels of government, national authorities are generally considered to be providing the highest level of support for developing and implementing energy efficiency projects compared to regional (provincial) and local (municipal).**





# Conclusions on the status of EE financing and barriers to investing in EE (cont.)

**6. International assistance is viewed as moderately effective in increasing the level of energy efficiency investments in most of the countries of South-East Europe, Eastern Europe, the Caucasus, and Central Asia.**

**7. Financial environment is not viewed as very favourable for investments in energy efficiency.**

**8. Generally, the price of energy provides some but often insufficient incentive for improving energy efficiency.**





# Conclusions on the status of EE financing and barriers to investing in EE (cont.)

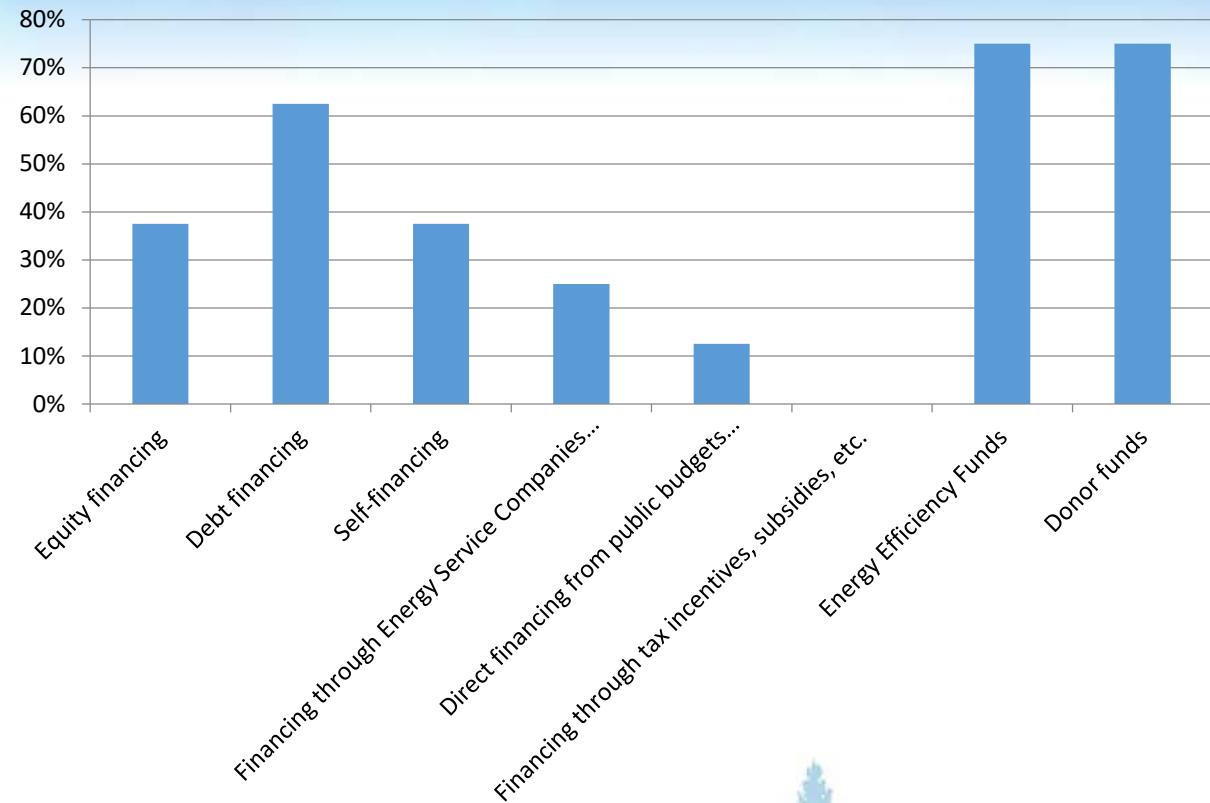
- 9. Both globally and in the UNECE region self-financing remains the most widely used type of financing of energy efficiency projects followed by direct financing from public budgets and debt financing.**
- 10. Low awareness about the multiple benefits of energy efficiency projects is viewed as the main barrier to increasing investment and financing flows to energy efficiency projects.**





# What types of financing are most widely used in your country?

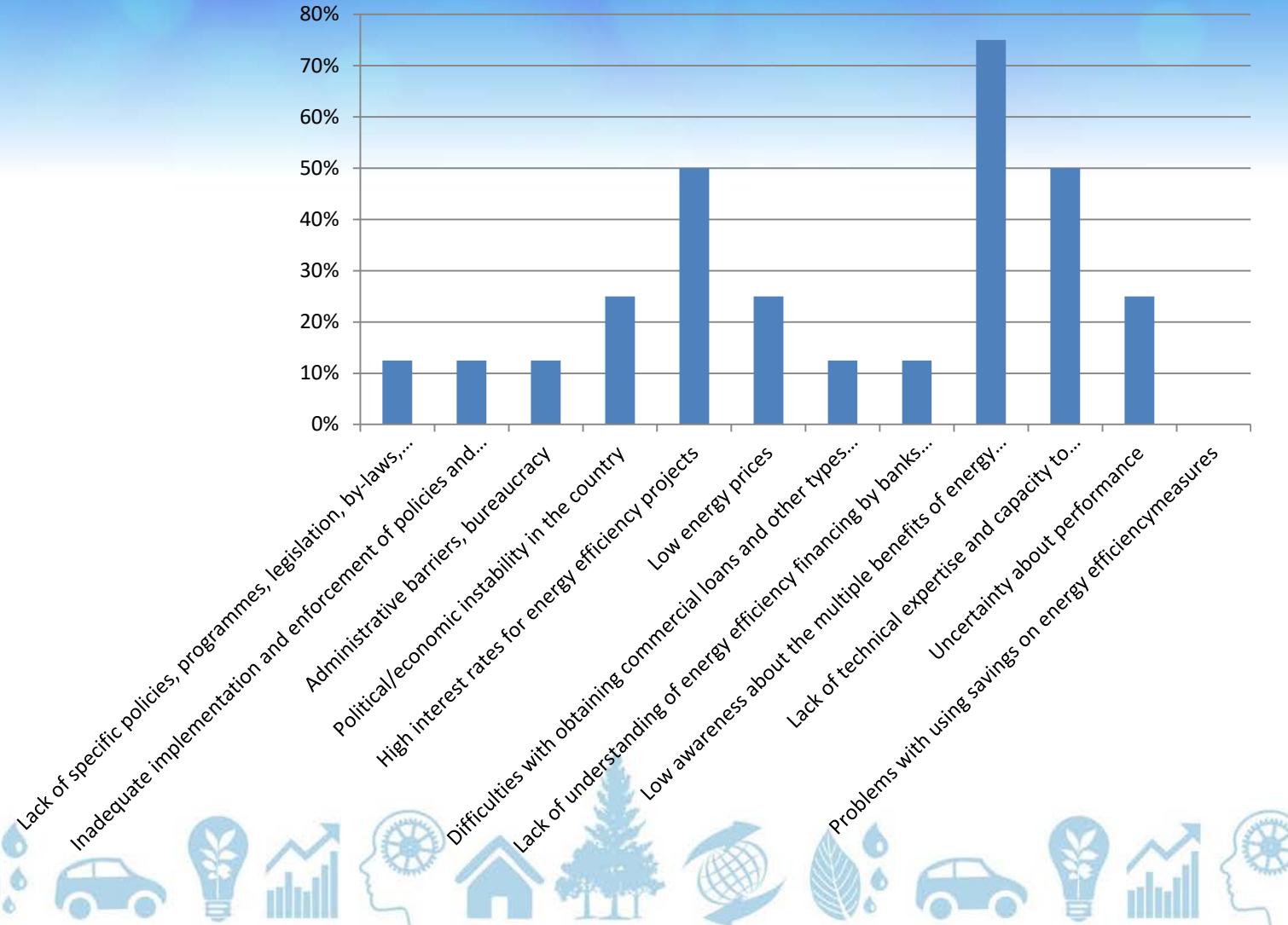
## ARMENIA





## ARMENIA

# What are the main barriers to increasing investment and financing flows to energy efficiency projects in your country?





# Conclusions on the status of EE financing and barriers to investing in EE (cont.)

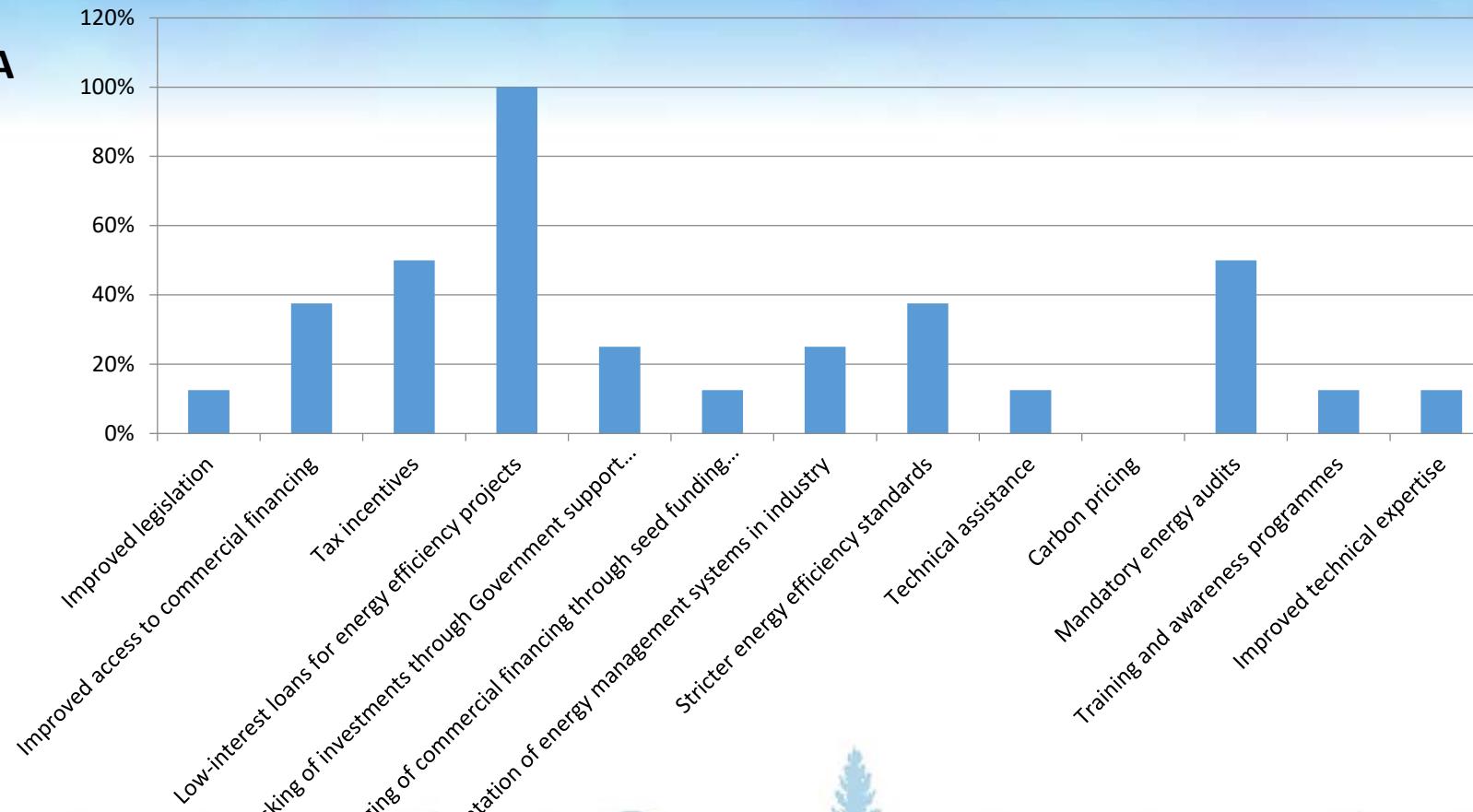
**11. Tax incentives and low-interest loans for energy efficiency projects are viewed as the most important factors that can lead to increasing energy efficiency project investment viability in particular countries. They are followed by stricter energy efficiency standards; training and awareness programmes; improved legislation; and de-risking of investments through Government support programmes.**





# What are the main factors that can lead to increasing EE project investment viability in your country?

ARMENIA





# Publication website

<https://www.unece.org/index.php?id=47698>

The cover of the publication features a road leading towards a bright horizon under a blue sky with white clouds. A yellow caution tape runs diagonally across the road, listing several barriers to energy efficiency investment: "ENERGY COSTS TOO LOW TO PROVIDE ECONOMIC INCENTIVE", "LOW PRIORITY AS NOT PART OF THE CORE BUSINESS", "ADMINISTRATIVE BARRIERS, BUREAUCRACY", and "LOW AWARENESS ABOUT THE MULTIPLE BENEFITS OF ENERGY EFFICIENCY". In the bottom right corner, the number "56" is displayed above the text "UNECE Energy Series". The UNECE logo is in the top right corner, and the United Nations logo is in the bottom right corner.

UNECE

Overcoming Barriers  
to Investing in Energy Efficiency

ENERGY  
EFFICIENCY

ENERGY COSTS TOO LOW TO PROVIDE ECONOMIC INCENTIVE

LOW PRIORITY AS NOT PART OF THE CORE BUSINESS

ADMINISTRATIVE BARRIERS, BUREAUCRACY

LOW AWARENESS ABOUT THE MULTIPLE BENEFITS OF ENERGY EFFICIENCY

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# Thank you for your attention!

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