



Energy Scouts

waking the „sleeping giant“ energy efficiency since 2017

Supported by:



Federal Ministry
for Economic Affairs
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European
Climate Initiative
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Energy Scouts initiate practical projects, create awareness and foster energy efficiency know-how in the company



- On-the-job training for young professionals → they become "Energy Scouts"
- Low entry barriers: no specialist knowledge required
- Participants get to know typical energy-saving potentials in companies:
 - ✓ introduction on climate change and relevance for economy
 - ✓ energy efficiency
 - ✓ resource efficiency
 - ✓ mobility
 - ✓ basic calculations of financial and CO₂-savings



The practical project of the Energy Scouts team Evelin Németh and István László included the use of the water storage tanks as a battery for a PV system. (©Fővárosi Vízművek Zrt.)

- Theoretical knowledge plus practical implementation:
 - ✓ use of measuring instruments is being taught
 - ✓ after learning the theory → Energy Scouts teams develop a "real" energy-saving project in company
 - ✓ pitch the project idea in annual national contest in front of jury, stakeholders and press
 - ✓ get inspired by >60 best practice ideas on our website <https://young-energy-europe.eu/>



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The Young Energy Europe network offers Energy Scout trainings in 10 countries

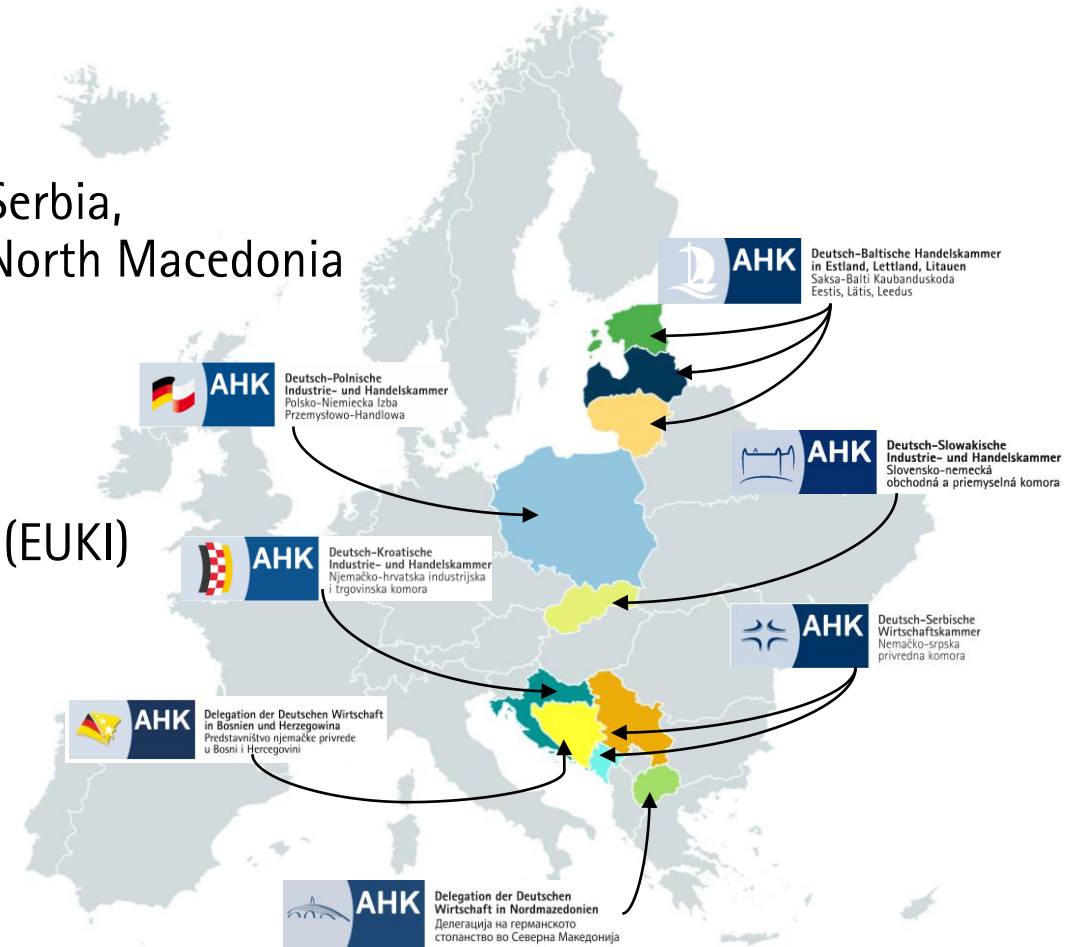


Implementation: Chambers of Commerce and Industry Abroad for Estonia, Latvia, Lithuania, Poland, Slovakia, Croatia, Serbia, Bosnia-Herzegovina, Montenegro & North Macedonia

Coordination: DIHK Service GmbH, Berlin

Funding: German Federal Ministry for Economic Affairs and Climate Action & European Climate Initiative (EUKI)

Project duration: April 2024 – March 2027



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Best Practice – Lidl Slovenská republika (SK)



Partners Energy Scouts About Us News Best Practice Contact

December 2023 – Energy Scouts significantly cut lighting costs at Lidl Slovakia

7 months ago

Lidl Slovenská republika, v.o.s. is one of the largest supermarket chains on the Slovak market. Climate protection and decarbonisation are important drivers for the companies' activities – from the production of the products to the operation of the stores.

Lighting of the stores adds to the attractiveness of products in their stores but can be energy intensive at the same time. In general, the lighting in Lidl stores accounts for approximately 13% of total electricity consumption. This is where Energy Scouts Jana Vozárová and Martin Brezina from Lidl started investigating.

The lighting in the stores is automatically controlled during the operation of the store. During the day, the default setting switches on all lighting and during the night only one third of the lighting is switched on.

In this project, the Energy Scouts optimized two conditions in the lighting measurement and regulation system. First, they reduced the time interval to switch on the complete lighting before opening the shop from 15 to five minutes. At the same time, the default time delay before switching off most of the lighting after the store closes has also been reduced from 30 to 10 minutes.

Usually, employees prepare the sales area for the next day right after closing. There used to be a "convenient" button on each store's lighting control panel to prolong the full lighting period for another 60 minutes. Analysis of secondary lighting metering showed, this option was used rather out of habit than out of need. So as their second measure, they removed this shortcut for 60 minutes full lighting, which reduces electricity consumption significantly.

Due to the dramatic increase in energy prices, the Energy Scouts became brave and started a test period, where the lighting intensity on the sales floor got reduced by one third. In addition, sales of refrigerated beverages are low in winter, so it makes perfect sense to switch off the cooling for the chilled drinks display cabinet to achieve further savings.

The implementation of the above measures in all 164 Slovakian Lidl shops saved a total of 5,811.56 MWh over a period of eleven months (equals 6,240 MWh per year.)



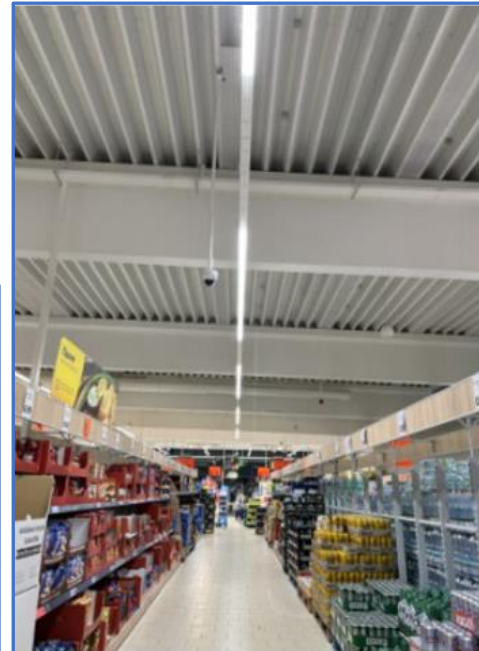
Lighting



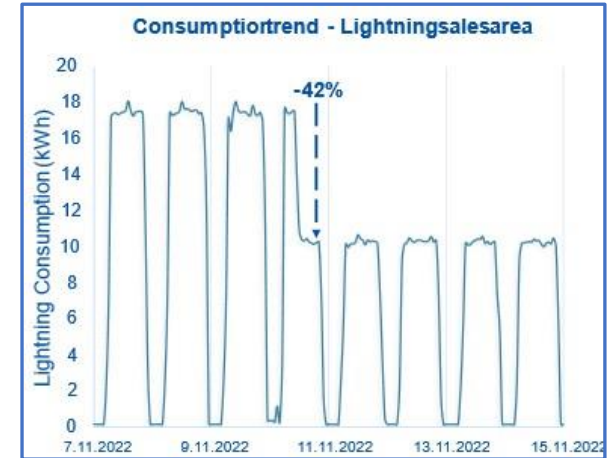
Cooling

- Industry sector: retail trade
- Energy source: electrical energy
- Energy savings potential electricity: 6,240 MWh/year
- CO₂ savings potential: 1,167 t CO₂
- Potential cost reduction: 1.18 M€
- Investment costs: 100,000€
- Payback period: 1 month

- Company:
Lidl Slovenská republika, v.o.s.
Ružinovská 1E
Bratislava 821 02
Slovakia
Lidl.sk | Správna voľba



Reducing the light intensity by 33% in 164 LIDL shops was a game changer. © Lidl Slovenska



The consumption was monitored, sharp decline after project implementation. © Lidl Slovenska

Energy Scouts Martin Brezina and Jana Vozárová started planning reasonable but got brave during implementation of the practical project. Their decision to switch off one third of the lights in 164 stores resulted in savings of 6,240 MWh per year and 1,167 tons of CO₂ per year! ©AHK Slowakei/Barkova



Energy Scouts take action for more corporate sustainability by reducing energy consumption and CO₂ emissions



Overall project results: 2017 – 2024



1.137 Energy Scouts trained – face-to-face and online



504 practical projects designed by Energy Scouts



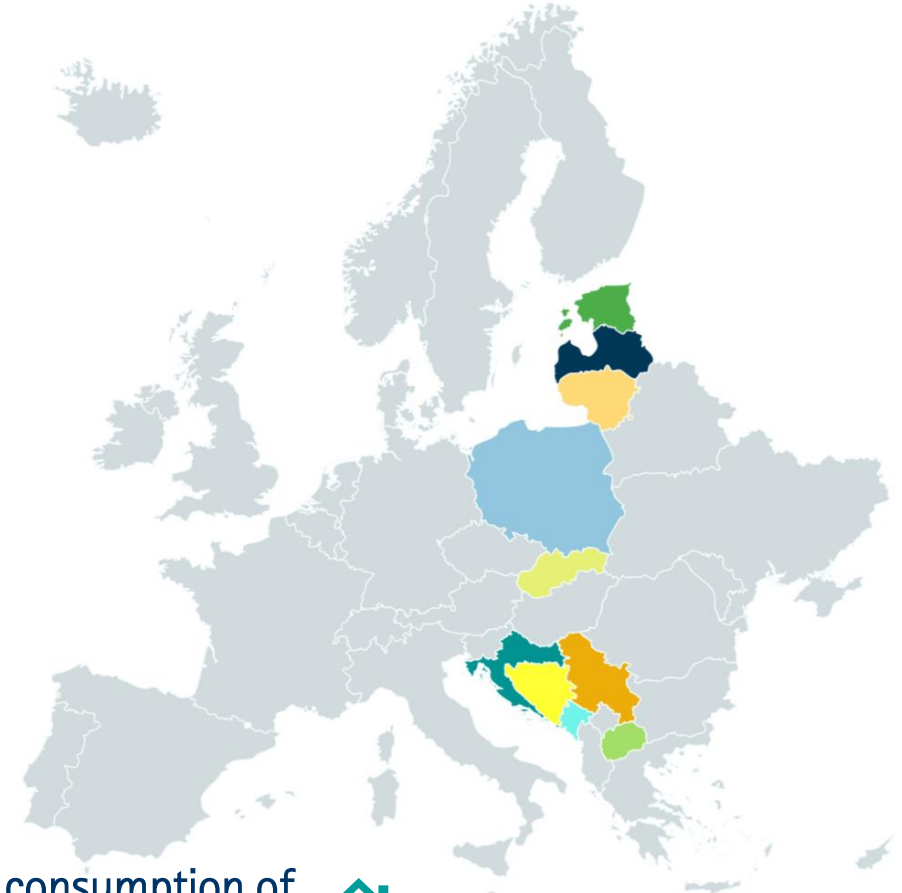
436 companies inspired



~ 151,000 tons of potential CO₂ reduction per year revealed



~ 165,000 MWh electricity = average annual electricity consumption of 58,500 German households



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The international network of Energy Scouts fosters cross-border exchange on energy efficiency



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How to stay updated on YEE Website



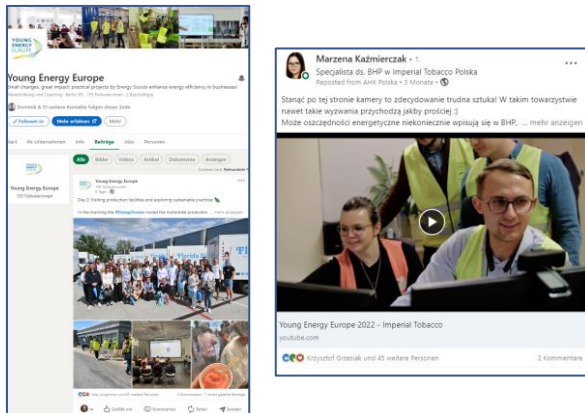
+60 best practices,
articles on news
from the
trainings and
project events

<https://young-energy-europe.eu>



Four winner teams at the honoring ceremony of the best Energy Scout teams in December 2022 in Warsaw, Poland. (©AHK Polen/ Biatek)

LinkedIn



<https://www.linkedin.com/company/young-energy-europe/>



In their practical project, the Energy Scout teams from Brose Serbia made use of excess heat and reduced the consumption of natural gas. (©Fővárosi Vízművek Zrt.)

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