



AXING

hasznos energiabefektetés


MVM Energy Diet Measurement and monitoring



Energy Diet: Approach

The Energy Diet EEOS savings M&V requires a systematic and integrative approach from the auditor

- 🌀 The **Energy Diet awareness raising campaign** targets every aspect of household energy usage, such as **heating, cooling, hot water usage, usage of household equipment and household duties**
- 🌀 The essence and goal of the campaign is to induce **changes in attitudes and habits of residential consumers**
- 🌀 Large number of individual participants



Unique measurement and monitoring methodology and the **joint effort and cooperation** of the obligated party, auditor and regulator enable a successful EEOS savings validation

Energy Diet: Measurement and Validation

A key component of the M&V methodology is the precise and clear definition of the baseline consumption

▼ Data Collection

Participating households are categorized based on floor area, household size, habits and basic technical information

▼ Data Validation

Data is validated against and enhanced with official statistics data from various sources (*KSH, HET, ErP labels, etc.*)

▼ Aggregation

Baseline energy consumption is calculated for each household using top-down and bottom-up calculation models defined in standards and regulations or developed by the auditor

▼ Monitoring

▼ Savings Calculation

▼ Savings Validation

Energy Diet: Measurement and Validation

The basis of M&V is safeguarding data integrity from data collection to the registration of Certified Energy Savings

▼ Data Collection

▼ Data Validation

▼ Aggregation

▼ Monitoring

Following the awareness raising activities, changes in energy consumption habits are monitored through a **quantitative survey** carried out by MVM

▼ Savings Calculation

The energy savings are determined by comparing the achieved energy efficient state with the baseline **by household for each saving tip**

▼ Savings Validation

Data, calculations and processes are (pre-)validated by the auditor

Certified savings are generated for households that join the program and take part in the monitoring activities

Energy Diet: Cooperation and Support

The auditor (Axing) working together with the obligated party (MVM) and the regulator (MEKH) from the initiation is essential

- ▶ The **auditor** helps ensure that
 - energy saving recommendations and statements are **professionally correct, feasible, measurable and EEOS compatible**
 - **necessary and sufficient data** is collected for the savings calculations
 - **campaign implementation and documentation** meets EEOS criteria
- ▶ The **regulator** provides oversight and guidance
- ▶ The **obligated party** mobilizes significant resources deployig a robust campaign to reach a great number of households

Axing and MVM continues to work together constantly improving the campaigns with the common goal to raise awareness and generate savings in the residential sector

Thank you!



Zádor Bálint | operations director 

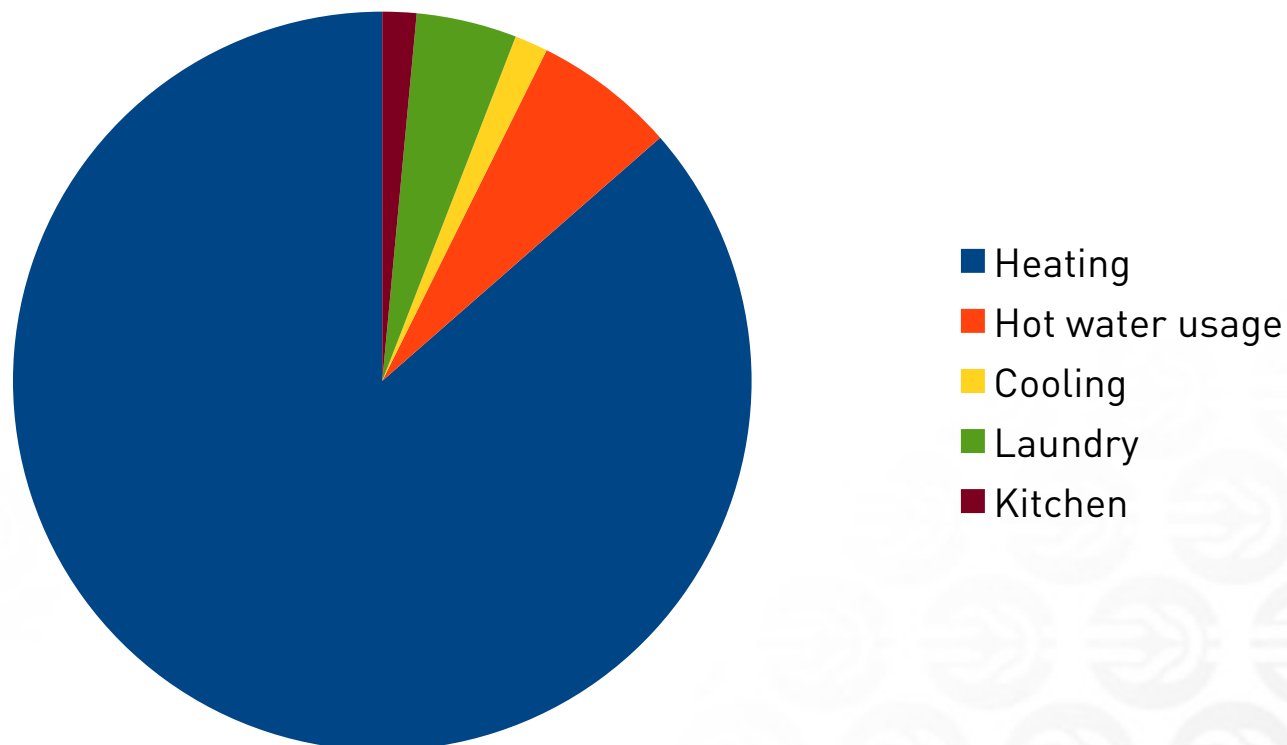
+36 20 416 6601



zador.balint@axing.hu

Appendix I

"If we lower the thermostat by just 1 °C, we can save up to 6% on heating energy."



Appendix II

- KSH: Központi Statisztikai Hivatal – Hungarian Central Statistical Office
- MEKH: Magyar Energetikai és Közmű-szabályozási Hivatal – Hungarian Energy and Public Utility Regulatory Authority
- HET: Hiteles Energetikai Tanúsítvány – Building Energy Performance Certificate