streamSAVE+ Dialogue Workshop #03

Streamlining Energy Savings Calculations

Energy savings in ventilation systems

Date: Tuesday 28 April 2026
Registration link

Duration: 15.00 – 16.30 CEST
Online

MEETING AGENDA

Background and objectives

Heat recovery in ventilation units in buildings represents a significant energy savings potential, while it is sometimes overlooked compared to other energy efficiency actions for buildings (e.g. heating systems and building insulation). This potential is however clearly identified by stakeholders who ranked this action type among the priority actions to be investigated in streamSAVE Plus.

For example, according to the Ecodesign Impact Accounting Overview Report 2024, the net positive effect of Ecodesign measures on ventilation systems could amount to 68 TWh/a of primary energy savings in 2030 (i.e. 4% of the primary energy consumption for space heating expected in 2030).

This third dialogue workshop of streamSAVE Plus will complement the dialogue meeting on heat recovery in ventilation systems, done in October 2025, going further in the discussions about data issues, synergies or trade-offs between energy efficiency and indoor environment quality, recent developments in the field and remaining barriers to overcome.

The workshop will share experience from the streamSAVE+ methodology on heat recovery in ventilation units, as well as from the IEA EBC Annex 86 dealing with Energy Efficient IAQ (Indoor Air Quality) Management in residential buildings, and other research in this field.

Agenda

15:00 – 15:05	Quick updates about streamSAVE+ | **Jiří Karásek** (SEVEn)
15:05 – 15:15	The streamSAVE Plus methodology and beyond: key data to calculate energy savings and links with indoor environment quality | **Jan Verheyen** (VITO)
15:15 – 15:20	Q&A
15:20 – 15:35	Energy efficiency in ventilation systems of residential buildings: why it is important, indicators and standards, and recent developments | **Jelle Laverge** (UGent, and Operating Agent of the IEA EBC Annex 86)

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15:35 – 15:40	Q&A
15:40 – 15:55	Insights from the 2020 Ecodesign and energy labelling review study on ventilation units | **Zhecho Bolashikov** (VHK Research)
15: 55 – 16:00	Q&A
16:00 – 16:30	Panel discussion

Discussions will be under Chatham House Rule: the minutes will not mention any name or country. All discussion points included in the minutes will be anonymized.

Dialogue meeting moderated by Jean-Sébastien Broc (IEECP).

Further readings

AIVC workshop on Climate Change, Ventilation and Resilience: https://www.aivc.org/event/21-22-april-2026-workshop-madrid-climate-change-ventilation-and-resilience

Corneillie, L., & Laverge, J. (2025). Optimizing energy efficiency and indoor air quality : a typology-based analysis of the European building stock. Healthy Buildings 2025, Proceedings. Presented at the Healthy Building Conference 2025 : the Flagship Program of the International Society of Indoor Air Quality and Climate, Hyderabad, India.

European Commission's webpage about energy labelling and ecodesign requirements applying to Ventilation Units: https://energy-efficient-products.ec.europa.eu/product-list/ventilation-units_en

EC (2014). Commission Regulation (EU) No 1253/2014 of 7 July 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units. Official Journal of the European Union, OJ L 337/8.

IEA EBC Annex 86 dealing with Energy Efficient IAQ (Indoor Air Quality) Management in residential buildings: https://www.iea-ebc.org/projects/project?AnnexID=86

Jamek A. et al. (2016). Report on General Formulae of Bottom-Up Methods to assess the impact of energy efficiency measures. Deliverable D2.1 of the MultEE project.

Moorkens I. et al. (2025). Extended guidance for standardized savings methodologies & indicative values. Deliverable D2.2 of the streamSAVE+ project.

Mortari, D., Wang, Y., Guyot, G., Plagmann, M., & Mendes, N. (2025). Smart ventilation in residential buildings: a systematic review of control strategies and their effectiveness. *Journal of Building Engineering*, 108, 112584.

Moura P. et al. (2025). Translated Existing Bottom-up Methodologies in EU. Deliverable D2.1 of the streamSAVE+ project.

Van Holsteijn R. et al. (2020). Review study on the Ecodesign and Energy Regulations on ventilation units. Van Holsteijn en Kemna BV (VHK).

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Wierda L., Zanuttini A. (2024). Ecodesign impact accounting – Overview report 2024. Prepared for the European Commission, DG Energy, unit B.3 - SPECIFIC CONTRACT No 2021/OP/0004/ENER/B3/FWC 2020-708/LOT 1/04/FV2022-531. Van Holsteijn en Kemna BV (VHK).

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