

## EuroShop 2023: energy management in times of crisis

*The EHI Study “Energy Management in Retail in 2022” shows that retailers have succeeded in further reducing their consumption of heating energy and electricity. There have been many investments in modern refrigeration technology. The state of the art in this area and a multitude of forward-looking solutions can be found in the Refrigeration & Energy Management Dimension at EuroShop.*

Retailers have increased their energy efficiency for years to keep their energy costs as low as possible. Powerful investments have been made in modern refrigeration technology thereby constantly reducing energy consumption in relation to the sales area for years now. In the consumption year 2021, food retailers consumed 308 kWh per square metre of retail space, says the Study “Energy Management in Retail in 2022” carried out by the EHI Retail Institute for the D-A-CH region. For heating 84 kWh were consumed per sqm of sales space. In the same year, non-food retail required 91 kWh of electricity and 48 kWh of heating energy per square metre for operating its sales areas.

### More use of waste heat and heat pumps

However, the high-consumption food retail formats with refrigeration units in the fresh produce segments and with bakery shops managed to cut their power consumption by 1.9% versus the previous year. Heat consumption, which is partly based on estimates by the retailers polled in the Study, was down by 4.2% against the previous year’s values. Compared to the 2020 survey, food retailers now use clearly more waste heat (2020: 16% coverage) and heat pumps (2020: 5% coverage). The importance of gas in meeting the demand for heating energy has decreased significantly in comparison (2020: share of coverage 60%).

### Rising procurement costs

Energy costs, however, have currently reached a level that nobody could have foreseen and the prospects are not good. After all, a large part of the gas and power supply contracts expired in the 4th quarter of 2022.



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So retail is now facing a considerable additional burden due to rising energy prices.

### **Short-term solutions for cost reduction**

For the majority of retailers there are several ways to cut costs. One way to shield against fluctuating costs is the use of renewable energies in the long term. A first step in this direction is sourcing green power. At best, retailers can use their own power, generated by their own PV installations on the roof of the premises. In recent years, a lot has happened here in retail. 61% of the retail areas are already operated with 100% green power.

Overall, large sums have been invested in energy efficiency in recent years. According to the EHI survey, on average this investment pays off for 9% of retailers after one to two years. For 45% of retailers refurbishment costs were amortised after three to four years. If energy procurement prices rise these payback periods could come down even further.

### **EuroShop Dimension Refrigeration & Energy Management**

At EuroShop 2023 the Refrigeration & Energy Management Dimension occupies not one but four halls. A total of 290 international exhibitors will occupy approx. 30,000 m<sup>2</sup> net exhibition space in Halls 14 - 17 of the Düsseldorf Exhibition Centre. They will cover the complete range of innovative solutions, products and concepts on the following thematic fields: refrigerated cabinets such as chest freezers, upright freezers and refrigeration systems, solutions for cooling control and heat exchange, air-conditioning, smart building management, heating of outlets as well as monitoring and control systems for everything related to energy in the company. Energy and sustainability are inextricably linked here. In particular, large refrigeration cabinet manufacturers will be presenting an extensive lecture programme on sustainability and energy efficiency in addition to their product ranges. Furthermore, these topics will also be addressed in a number of lectures presented on the Store Design Stage such as “Future Proof Electrical Store Installation” or “Co<sub>2</sub> Tracking in Retail – Importance & Potentials Data as a Driving Force for Sustainable Transformation”.



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EuroShop 2023 will see around 1,800 exhibitors from 55 nations occupy well over 100,000 m<sup>2</sup> net exhibition space. EuroShop 2023 is open for trade visitors from Sunday, 26 February to Thursday, 2 March 2023, from 10.00 am to 6.00 pm daily. Admission tickets are only available online at [www.euroshop.de/2130](http://www.euroshop.de/2130). 1-day tickets cost EUR 70.-, 2-day tickets are EUR 120.- and season tickets cost EUR 165.-.

For more information go to [www.euroshop-tradefair.com](http://www.euroshop-tradefair.com). Find the online magazine of EuroShop at: [mag.euroshop.de/en/](http://mag.euroshop.de/en/)

Find more information on the EHI Study at:

<https://www.ehi.org/themen/klima-energie/>

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