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TIPCHECK - If not now, when?

Three out of four clients invest after a TIPCHECK energy audit.

TIPCHECK clients who hesitated to invest three years ago - when energy price was well under 3 Euro cents - are now coming back to the TIPCHECK Experts who carried out the TIPCHECK audit at their facilities, shocked by the prospect of having to pay at least three times as much for energy in the future.

Let's look at a brief calculation example from an automotive supplier, burning 25 million kWh of gas every year. In the past, they were paying 3 cents at most, but from next year onwards they will have to spend at least 10 cents per kilowatt hour for energy. So, instead of 750.000 EUR per year, they will have to budget for around 2.5 million EUR for gas purchases. CO2 costs of around 80 EUR per metric tonne will be added on top of that.

Roughly estimated - using the new TIPCHECK estimation function (see Chart 1) - they could save at least 400.000 kWh per year and around 50.000 EUR by upgrading their technical insulation systems to energy class C according to VDI 4610:

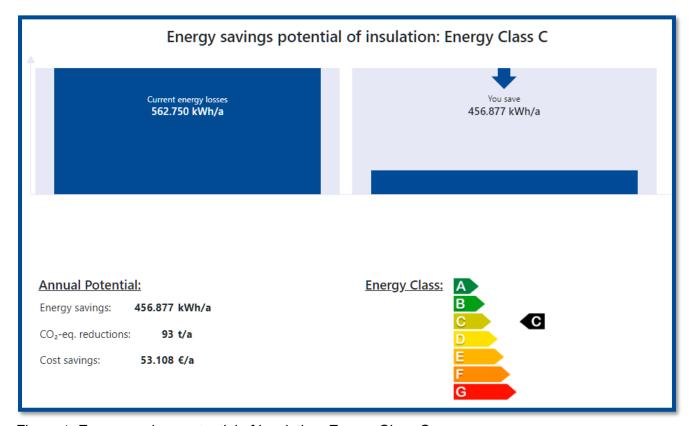


Figure 1: Energy savings potential of insulation: Energy Class C



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Around 260.000 kWh and 30.000 EUR could be immediately saved by insulating uninsulated equipment and repairing damaged insulation. Before the rise in energy prices the payback periods were still around 2 years – now they are only a few months in most cases. It is no surprise that the client response follows the same trend: in the more than 2.500 TIPCHECKs to date, three out of four clients subsequently invested in the proposed insulation solution, and this figure is likely to move further in the direction of "four out of four" clients.

EiiF members have also recognised that now is the TIPCHECK momentum. The number of participants in our training courses keeps increasing: for example, in the TIPCHECK training last December, there were 17 trainees from Germany and Austria - a new record number of participants. This year we have already organised 2 training courses, one in German and one in English, and at least one more will be organised later in the year. Worldwide, EiiF has trained more than 100 active TIPCHECK Experts and our active members are well prepared for the new, increasing demand. For the insulation companies who either do not yet have any TIPCHECK Experts in their own ranks or want to get additional employees certified, we are offering an English training in November 2023 and a German training in December 2023. Early registration is strongly recommended.

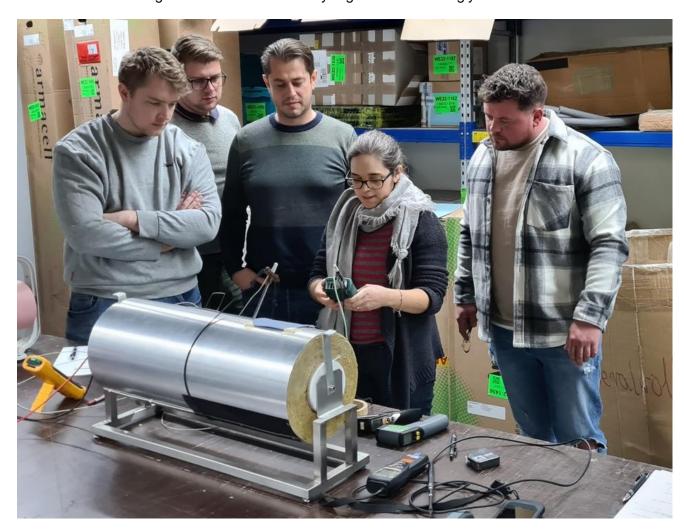


Fig. 2: Practical exercise in the FIW Munich lab: Measuring correctly

Details of the TIPCHECK training:



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Duration: Monday from 10 a.m. until Friday 12 p.m.

Participation fee: 2.500 EUR

Training location: FIW Munich, Lochhamer Schlag 4, Gräfelfing (near Munich)

Minimum qualification: At least 1 year of professional experience in industrial insulation and a general understanding of thermal calculations and the designing of technical insulation systems

Training course description:

The participants learn the basics of heat and cold calculations in a practical and sequential way; the execution of a TIPCHECK; an introduction to thermography and the different insulation materials and their fields of application, and they will be trained to use TIPCHECK tools developed by EiiF. In addition, there will be an exchange of experiences with the other participants as well as EiiF trainers, and the experts from FIW Munich.

The training programme, which has been developed and continuously refined over more than 10 years, ensures that after one week of training, each participant has already gained practical experience and, in principle, has already performed his or her first TIPCHECK and can take it home with them.



Fig. 3: Insulation materials - recognising different insulation materials

Example of a TIPCHECK training day:



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Tuesday			
Time	Durati	Subject	Teacher
Tillle	on	Subject	reacher
08.00 - 09.00	0h60	How to TIPCHECK (2): Processes and components	Luis López Brunner
09.00 - 09.30	0h30	How to TIPCHECK (3): TIPCHECK Tool: Estimation Function	Luis López Brunner
09.30 - 10.30	1h00	Theory (4): Special cases	Luis López Brunner
10.30 – 10.45	0h15	Coffee break	
10.45 – 12.00	1h15	Marketing: Advocacy & Standardisation	Andreas Gürtler
12.00 – 12.45	0h45	Lunch break	
12.45 – 13.30	0h45	Marketing: Acquisition and "How to meet"	Andreas Gürtler
13.30 – 14.00	0h30	How to TIPCHECK (4): Part I - Preparation and Acquisition	Andreas Gürtler
14.00 – 14.45	0h45	How to TIPCHECK (5): Rules of Thumb	Luis López Brunner
14.45 – 15.00	0h15	Coffee break	
15.00 – 15.45	0h45	Theory (5): New Standard energy efficiency classes (based on ∀DI 4610)	Luis López Brunner
15.45 – 16.15	0h30	How to TIPCHECK (6): TBI-App (TIPCHECK inspection function)	Andreas Gürtler
15.00 – 15.45	0h45	How to TIPCHECK (7): Part II - Collecting data and Inspection (TBI exercise)	Luis López Brunner

Figure 4: Example of a TIPCHECK training day

EiiF's next English TIPCHECK training at FIW Munich:

6 - 10 November 2023

EiiF's next German TIPCHECK training at FIW Munich:

4 – 8 December 2023

Interested parties can contact EiiF directly at tipcheck@eiif.org or by phone: +41 22 99 500 70.

- Fig. 1: Energy savings potential of insulation: Energy Class C
- Fig. 2: Practical exercise in the FIW Munich lab: Measuring correctly
- Fig. 3: Insulation materials recognising different insulation materials
- Fig. 4: Example of a TIPCHECK training day