



April 2015

Industrial Insulation

improving energy security and ready to deliver the missing 1% to reach the EU energy efficiency target

EiiF Latest Events

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- Technical Working Group on Cold Insulation
- Research project: a combination of geometrical and thermographic information for cost efficient insulation
- NIA's 60th Annual Convention in Texas

EiiF TIPCHECK Programme

- 2nd TIPCHECK Refresher Training
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EiiF launches 3 New Brochures

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Agenda 2015

Check out our upcoming meetings, trainings & events

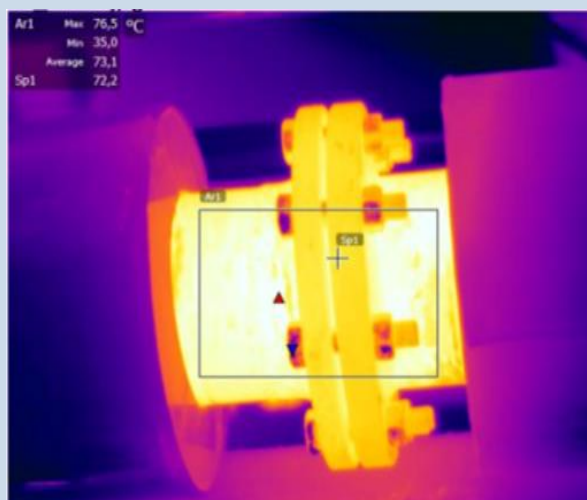
Industrial Insulation

improving energy security and ready to deliver the missing 1% to reach the EU energy efficiency target

The European Union (EU) is committed to secure the supply of energy and ensure that energy prices remain stable, urging its Members States to be more energy efficient. In this respect, in March 2007 the EU leaders set up the 2020 climate and energy targets, known as the [“20-20-20” targets](#), which established 3 key objectives for 2020: a 20% improvement in the EU's energy efficiency; a reduction in EU greenhouse gas emissions of at least 20% below 1990 levels; and a 20% of EU energy consumption to come from renewable resources. These goals were criticized by many experts for being neither sufficient to limit climate change, nor adequate to counter the expected rise of energy prices.

On 23 October 2014, EU leaders agreed new targets for the [EU framework on climate and energy for 2030](#): the indicative energy efficiency target rises up to at least 27%; greenhouse gas emissions have to be cut by at least 40% below the 1990 level by 2030; and the binding target for renewable energy goes up to at least 27%.

But before, strong efforts in the industrial sector will be needed to make sure the EU reaches firstly its 20-20-20 goals. **European industrial facilities are wasting energy, losing money and emitting tonnes of avoidable CO₂ emissions every minute of operation** due to the fact that thermal insulation in industry is poorly maintained and that some parts remain uninsulated, creating thermal bridges that result in excessive heat losses. Likewise, the level of insulation applied is typically based on requirements regarding the maximum surface temperature that equipment is allowed to reach to avoid personal injuries or based on generic maximum heat loss rates allowed, rather than cost-effective or energy-efficient solutions.

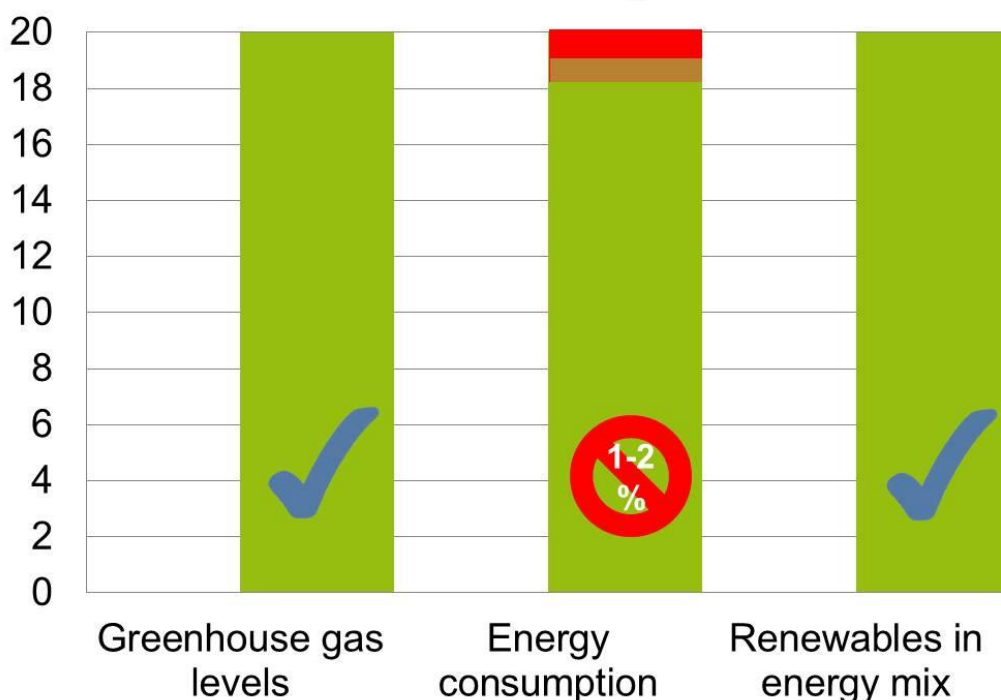


The savings potential of industrial insulation is large : 620 PJ / CO₂ : 49 Mt

Source: [Climate protection with rapid payback](#)

Sustainable insulation solutions could definitely contribute to tap the energy and cost savings potential within the EU industry. **The savings potential of industrial insulation could deliver nearly 1% to the EU's energy efficiency target for 2020**, and that would definitely contribute to fill the expected gap of 1-2% which has already been forecasted by DG Energy (620 PJ = insulation potential / 772 PJ = EU 1% target).

Current EU 20-20-20 targets' forecast



Industrial insulation reducing gas imports from Russia by up to 12.5%

Furthermore, **the EU is highly dependent on energy from abroad, importing 53% of all the energy it consumes at a cost of more than one billion euros per day.** Figures like these mean that Europe can be vulnerable to external energy shocks. As a matter of fact, the EU has further strengthened its commitment after the crisis in Ukraine and its relationship with Russia.

The EU aims to set up a competitive and secure energy system that ensures affordable energy for all consumers, increases the security of the EU's energy supplies, reduces our dependence on energy imports and creates new opportunities for growth and jobs.

Deploying thermal insulation across oil and gas plant operations has always been considered a "necessary evil". However, its actual value is really more virtuous than that. For instance, once more **industrial insulation could reduce Europe's dependency on Russian gas imports by 9-12.5%** (100% = 4932 PJ/1370 TWh). There is an increasing awareness amongst policy makers on the multiple benefits of industrial insulation.

According to the [Communication from the Commission to the European Parliament and the Council on 28 May 2014 about the European Energy Security Strategy](#), Members States should “speed up measures to achieve the 2020 energy efficiency target, focusing on heating and **insulation** in particular in buildings and **industry**”.

Likewise, Commissioner for Climate Action and Energy, Miguel Arias Cañete, in his speech at the Energy Union Conference in Riga on 6 February 2015 pointed out that “investments in **insulation** are amongst the most profitable for citizens and **industry** today”. He also stated that moderation of demand and energy efficiency were the areas that merit our greatest determination at EU, national, regional and individual level, and stressed the importance of developing energy policies which take “efficiency first” as the abiding motto.



Miguel Arias Cañete, **Commissioner for Climate Action and Energy**.

Moreover, he referred to gas imports saying that before importing more gas or generating more power, we should think about “cost-effective measures to reduce our energy use that will also increase our competitiveness”.

Nor must we forget that the European Commission adopted the [Energy Efficiency Directive](#) (EED) in 2012. The EED sets up a common framework of measures for the promotion of energy efficiency within the EU-28 in order to ensure the achievement of the Union’s targets to reduce energy consumption. In particular, article 7 and article 8 of the EED compel each EU country to establish an energy efficiency obligation scheme and to promote energy audits and energy management systems, respectively.

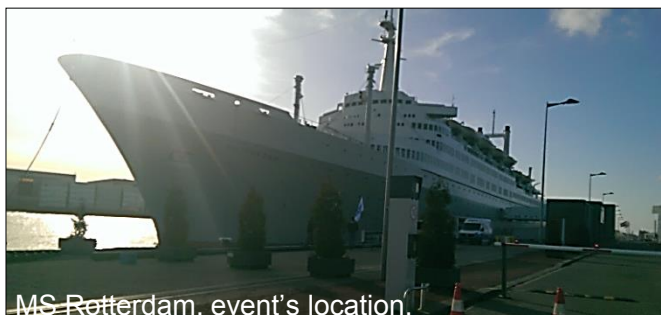
In this regard, the [TIPCHECK Programme](#) of the EiiF offers an energy efficiency solution since it provides industries – and especially energy-intensive industries – with sustainable insulation solutions contributing to tap the energy and cost savings potential within the EU industry. Even though potentials vary between regions and sectors, due to differences in energy use, temperature profiles and fuel mix, energy savings potentials were found to exist across all regions and industrial sectors.

Briefly, in these challenging times where EU leaders have an urge to make the European Union's economy and energy system more competitive, secure and sustainable, it would be a shame that all these savings potentials were not being tapped. Delivering these energy efficiency savings will deliver a competitive advantage to European industry by reducing energy costs.

EiiF Latest Events

• EiiF at the VIB symposium

| Rotterdam – 10 March 2015 | The EiiF was invited to participate in the symposium organized by the Dutch insulation association VIB. The EiiF Foundation Director gave a presentation on the international developments in technical insulation and the [TIPCHECK Programme](#).



MS Rotterdam, event's location.

• Technical Working Group on Cold Insulation

| Oberhausen – 11 March 2015 | The EiiF Technical Working Group on Cold Insulation met in Oberhausen (Germany) to discuss on cold insulation aspects, analyze the current situation of cold insulation within the European Union and further promote cold insulation in the future activities of the EiiF.

Although cooling is rather new within the scope of the EU Commission, it is starting to be a spotlight at the relevant political levels. In fact, on 26-27 February, there was a [meeting](#) on improved energy efficiency for Heating and Cooling to debate the issues facing the heating and cooling sector and their role in achieving the EU's climate and energy objectives.

Technical experts from different EiiF members were brought around the same table to plan a strategy to address cold insulation efficiently, proving its energy savings for the industrial sector as well as for commercial buildings such as airports and hospitals:



- Udo Müllers ([Armacell](#))
- Enrico Severi ([Duna Corradini](#))
- Nico Odenwald ([Kaimann](#))
- Paul Willems ([Kingspan Tarec](#))
- Hans Vonck (Kingspan Tarec)
- Frank Baur ([l'Isolante K-Flex](#))
- Pierre Moesen (l'Isolante K-Flex)
- Steve Brachmanski (l'Isolante K-Flex)
- Jörg Lützow ([Lindner](#))
- Johan Sentjens ([Temati](#))

Furthermore, it was agreed that a new module on cold insulation will be included in the training programme for TIPCHECK engineers in order to cover thoroughly more cold insulation aspects. Johan Sentjens, from Temati, offered to take the lead for this and will present it in the next training in June.

- **Research project: a combination of geometrical and thermographic information for cost efficient insulation**

| Schweinfurt – 12 March 2015 | The German University of Applied Sciences Würzburg-Schweinfurt is planning to conduct a research project based on combining geometrical and thermographic information in order to obtain cost efficient insulation. This project aims to develop a procedure which combines in one single operation the geometric data capture of the situation “as built” with a thermographic data capture.

The geometrical recording of the plant is carried out by means of laser-scanning. A base station with a geometrically known position tracks a mobile hand-held scanning device which scans the surfaces without actually touching them. By combining this hand-held scanning device with a thermographic camera, temperature values can also be attributed to surfaces which were scanned. The project also focuses on the (automated) embedding of this additional information into existing planning software.



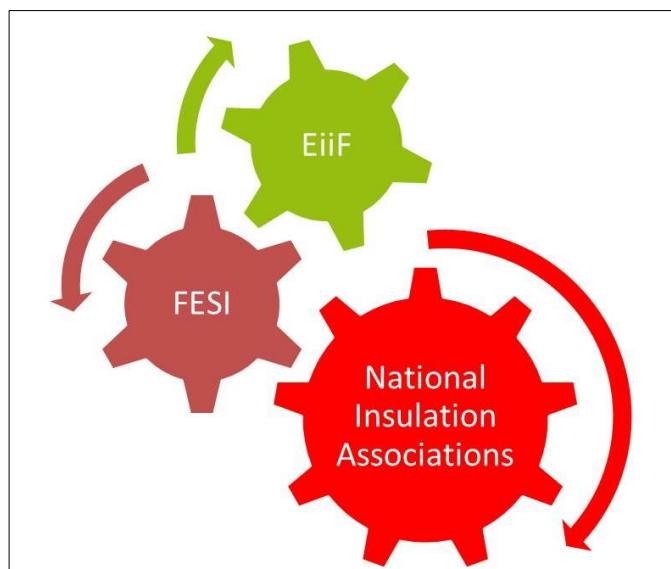
The EiiF has already shown its support to this project and is willing to contribute to the success of it. The TIPCHECK Project of the EiiF makes it possible to provide figures on the potential energy savings. In order to achieve this, the current situation has to be recorded: data of the existing insulation on pipes, valves and vessels including the thermal bridges will be captured in the plant itself. The measurements will be carried out with thermographic cameras with surface sensors and, in the case of cooling plants, with humidity sensors. The extensive report shows the current state as well as the target state.

Other members of the Foundation have also expressed in a letter of intent their will to participate and co-finance this project: [Arnold Group](#), [Bilfinger](#), [G+H Isolierung](#), [Hertel](#), [KAEFER](#) and [Knauf Insulation](#). The project has been handed in to a funding research project programme of the German Federal Ministry for Education and Research.

For this purpose, the University organized a very fruitful workshop on 12 May in Schweinfurt, where all cooperation partners were informed about the methodology and research guide.

- **NIA's 60th Annual Convention in Texas**

| **San Antonio, Texas – 25-28 March 2015** | The American National Insulation Association (NIA) invited FESI and EiiF to celebrate NIA's 60th Annual Convention.



This year's theme was “Amazing Results Driven by Vision”, aimed to inspire all participants to embrace the vision NIA has for long term success. Furthermore, NIA, FESI and EiiF organized a workshop during the convention to co-ordinate advocacy and promotion activities for industrial insulation, as well as to plan the next WIACO Congress.

Please save the date:

20-23 April 2016 in Florida (USA)

Check the outstanding location @

www.bocaresort.com

In the picture below, from left to right: Michele M. Jones, NIA Executive Vice President/CEO; J. Kenneth Freeman, NIA President; Ron King, NIA Past President; Andreas Gürtler, FESI General Secretary and EiiF Foundation Director; Steven T. Luse, announced NIA President for 2016; Gabriel Boncalo, FESI and TTC Working Group member.



EiiF TIPCHECK Programme

2nd TIPCHECK Refresher Training



One of the requirements for [certified TIPCHECK engineers](#) is to participate in a refresher course every three years, thus engineers refresh and update their knowledge and share their TIPCHECK experiences and technical know-how. Likewise, at the end of this two-day training, they have the opportunity to become Senior TIPCHECK engineers if they can prove a minimum TIPCHECK activity of at least two large TIPCHECK audits/reports or five small TIPCHECK audits/reports.

In this context, the EiiF organized on 18-19 March its 2nd TIPCHECK Refresher Training. Two intensive and interesting days which resulted in a very fruitful training where experts, trainers and participants shared their auditing experiences and practical knowledge. As special guests, Guy Parker and Mukund Bhagwatt, representatives from Cefic (European Chemical Industry Council) and Aurubis (cooper production) were also amongst the participants.



The EiiF congratulates the TIPCHECK engineers who attended the course and renewed their certificate:

- Heino Gustävel, [KAEFER](#)
- Lasse Satka, [Paroc](#)
- Luk Smout, [Pittsburgh Corning Europe](#)
- Luca Cuca, [Knauf Insulation](#)
- Matteo Bagnoli, [Termisol Termica](#)
- Paul Willems, [Kingspan Tarec](#)

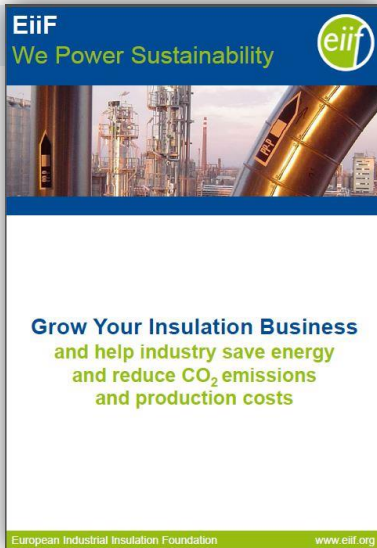
The Foundation conveys a special congratulation to Heino Gustävel who has become Senior TIPCHECK engineer after this training for his proven TIPCHECK activities and a special thank you to **PAROC** for supporting the training.

Not a [TIPCHECK engineer](#) yet? Join us in Munich (Germany) on 1-5 June (course in English) to learn how to perform standardized high quality thermal energy audits and to get your TIPCHECK engineer certification.

The course consists of one-week training with both theoretical and practical lessons, including a training session in the FIW München research laboratories.

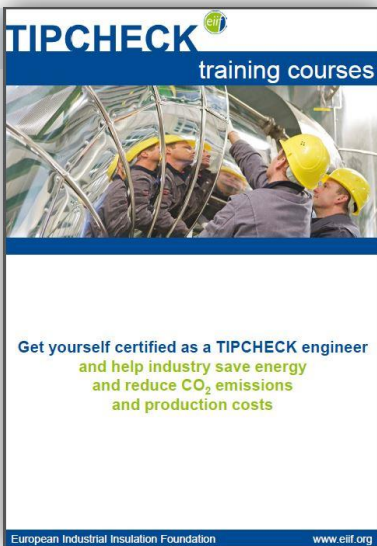
Check if you meet the [requirements](#) for becoming a TIPCHECK engineer and [register](#) now!

EiiF launches 3 New Brochures



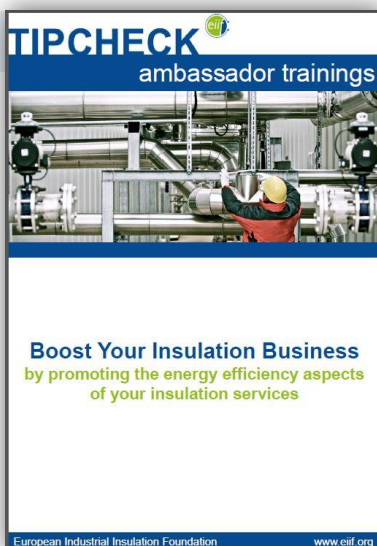
EiiF Membership:

Learn all about the EiiF Membership and your benefits, and find out how to [grow your insulation business](#).



TIPCHECK training courses:

Find out all about the TIPCHECK qualification and training courses and [get yourself certified as a TIPCHECK engineer](#).



TIPCHECK ambassador trainings:

Become a TIPCHECK ambassador to learn how to promote the energy aspects of your insulation services and [boost your insulation business](#).

Agenda 2015

Check out our upcoming meetings, trainings & events

Date & Location	Event
16 April Lucerne, Switzerland	Executive Committee Meeting
19-20 May Munich, Germany	Membership Board & Foundation Board Meeting s
1-5 June Munich, Germany	TIPCHECK Training Course (in English) @ FIW München
22-23 September Barcelona, Spain	Executive Committee Meeting
18-19 November Brussels, Belgium	General Assembly
Q3 / Q4 Munich, Germany	TIPCHECK Training Course (in German) @ FIW München



Upcoming events on the agenda: www.eiif.org >> [Show Agenda](#)

The EiIF newsletter is primarily circulated to EiIF Partners & Members.

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