

## SECTION 1 - INTRO

The **EUROPEAN INDUSTRIAL INSULATION FOUNDATION (EiiF)** is a Swiss-based organisation established in 2009. Its Founders are leading insulation companies and the European contractors association FESI.

The EiiF's core purpose is to promote industrial and technical insulation as a key means of delivering sustainability (<http://en.wikipedia.org/wiki/Sustainability>) for industry. Crucial to this mission is to demonstrate the close link between sustainability and profitability i.e. insulation drives sustainability as well as profitability in terms of reduced CO<sub>2</sub> emissions, reduced energy loss and fuel use. Integral to this message is the fact that investment in industrial insulation typically pays back in just one or two years.

EiiF membership is open to all insulation-related enterprises. This includes technical insulation material or service providers, as well as related engineering and plant designing companies which need or provide sustainable insulation systems.

The EiiF represents a major step for such companies, which have never previously come together in this way. EiiF membership provides them with a platform with which to spread the EiiF's 'We Power Sustainability' message to industry, government, and the wider community.

The non-profit EiiF has its offices in Geneva, Switzerland. Its operations are coordinated by Andreas Gürtler. EiiF President is Frank Jacobs, Managing Director of Rockwool Technical Insulation.

The EiiF Founders are: Armacell GmbH, Bilfinger Berger Industrial Services AG, Cape plc, Foamglas/Pittsburgh Corning Europe S.A./N.V., G + H Isolierung GmbH, Hertel Holding B.V., KAEFER Isoliertechnik GmbH & Co.KG, Kaimann GmbH, Rockwool Technical Insulation B.V., Saint-Gobain Isover S.A. and FESI (European Insulation Contractors Associations).

The EiiF performs sustainability consultations at industrial plants and production facilities.

## SECTION 2 – BACKGROUND

### Background

Industry worldwide consumes about 26% of the world's energy and produces about 50% of all CO<sub>2</sub> emissions. Experts know there is great potential to reduce these emissions by implementing sustainable insulation systems.

However, unlike in the building sector, technical insulation remains vastly underused and misunderstood by industry and government. Most crucially, industry and government is not sufficiently aware that insulation will save huge amounts of money by reducing CO<sub>2</sub> emissions and energy wastage.

## SECTION 3 – CASE STUDIES

### Case studies

Studies from the Netherlands Centre for Industrial Insulation (NCTI) indicate that just by moderately insulating between 5% and 10% of the EU's least energy efficient oil refineries, annual energy costs worth **3.5 billion Euros and 20 million tonnes of CO<sub>2</sub>** could be saved. These massive savings are equivalent to the energy consumption and emissions caused by two million households. In less than two months, a **500 million** Euro investment would be paid back. Outside Europe for example in the US, where the number of refineries with little or no insulation is 2½-to 5 times greater, the potential is even greater.

Another study shows that the average heat loss of a coal-fired power plant with a

capacity of 1100 MW and an insulated surface of approximately 300.000m<sup>2</sup> can be reduced by **25 percent**.

This saves around **25,500 tonnes** of coal every year, reducing annual CO<sub>2</sub> emissions by **27,000 tonnes**. This is roughly equivalent to 12,890 cars with an annual mileage of 15,000 km. In financial terms, this would enable the plant operators to produce added power equivalent to **4.8 million euros**.

## SECTION 4 – ACTIVITIES

### Activities

The EiiF's primary task is to communicate the potential of sustainable insulation solutions to policy makers from the industrial, economic and political fields.

To this end it organizes lectures, presentations and seminars, forums and debates. It also communicates its views and findings via newsletters, scientific and architectural magazines. Much of this activity takes place in collaboration with national and international associations with similar objectives such as FESI (European Insulation Contractors Associations) and EURIMA (European Insulation Manufacturer Association) or the NIA Foundation (National Insulation Association/US). In addition, institutes such as the NCTI (Netherlands Centre for Technical Insulation), FIW (Forschungsinstitut für Wärmeschutz München e.V.), or governmental initiatives like SenterNovem, are welcome partners.

At a more practical level, the EiiF is currently working closely with insulation institutes to develop sophisticated evaluation programmes which analyze the extent to which insulation systems and materials can improve or deliver sustainable profitability at specific industrial sites.

At a wider environmental level, the EiiF's Deed of Foundation incorporates a commitment to the promotion of nature conservation and environmental protection.

## SECTION 5 – LINKS

[www.eiif.org](http://www.eiif.org) EUROPEAN INDUSTRIAL INSULATION FOUNDATION

[www.fesi.eu](http://www.fesi.eu) European Insulation Contractors Association

[www.insulation.org](http://www.insulation.org) National Insulation Organisation

[www.ncti.nl](http://www.ncti.nl) National Centre of Technical Insulation

[www.fiw-muenchen.de](http://www.fiw-muenchen.de) Forschungsinstitut für Wärmeschutz e.V.

Founding companies:

Armacell GmbH

<http://www.armacell.com/>

Bilfinger Berger Industrial Services AG

<http://www.bis.bilfinger.com/>

Cape plc

<http://www.capeplc.com/>

Foamglas/Pittsburgh Corning Europe S.A./N.V.

<http://www.foamglas.com>

G + H Isolierung GmbH

<http://www.gruppe-guh.de/>

Hertel Holding B.V.

<http://www.hertel.com/>

KAEFER Isoliertechnik GmbH & Co.KG

<http://www.kaefer.com>

Kaimann GmbH

<http://www.kaimann.com>

Rockwool Technical Insulation B.V.

<http://www.rockwool-rti.com/>

Saint-Gobain Isover S.A.

<http://www.isover.com/>