



# European Industrial Insulation Foundation

## Large savings potential with rapid payback

Industrial installations in the European Union could save 620 PJ and avoid 49 Mt of CO<sub>2</sub> emissions every year by using cost-effective insulation.

To achieve this, a one-time investment of 900 million EUR would be needed, while the annual savings would amount to approx. 3,5 billion EUR.

- 4 % of total fuel input to industry would be saved
- investments usually pay back in less than 1 year
- this is 20 % of EU's 20-20-20 goals for industry



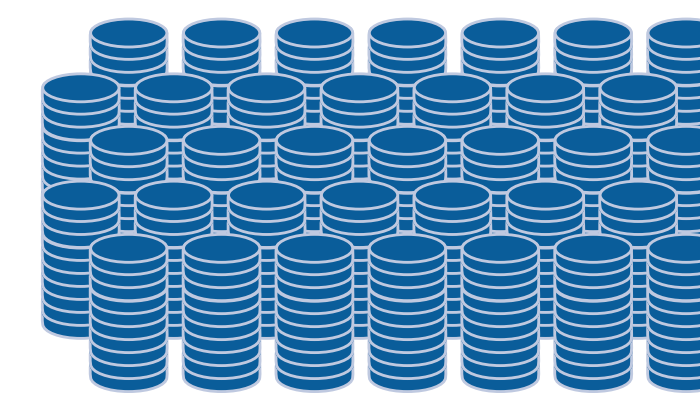
Find out more in our study "Climate protection with rapid payback"

Invest once

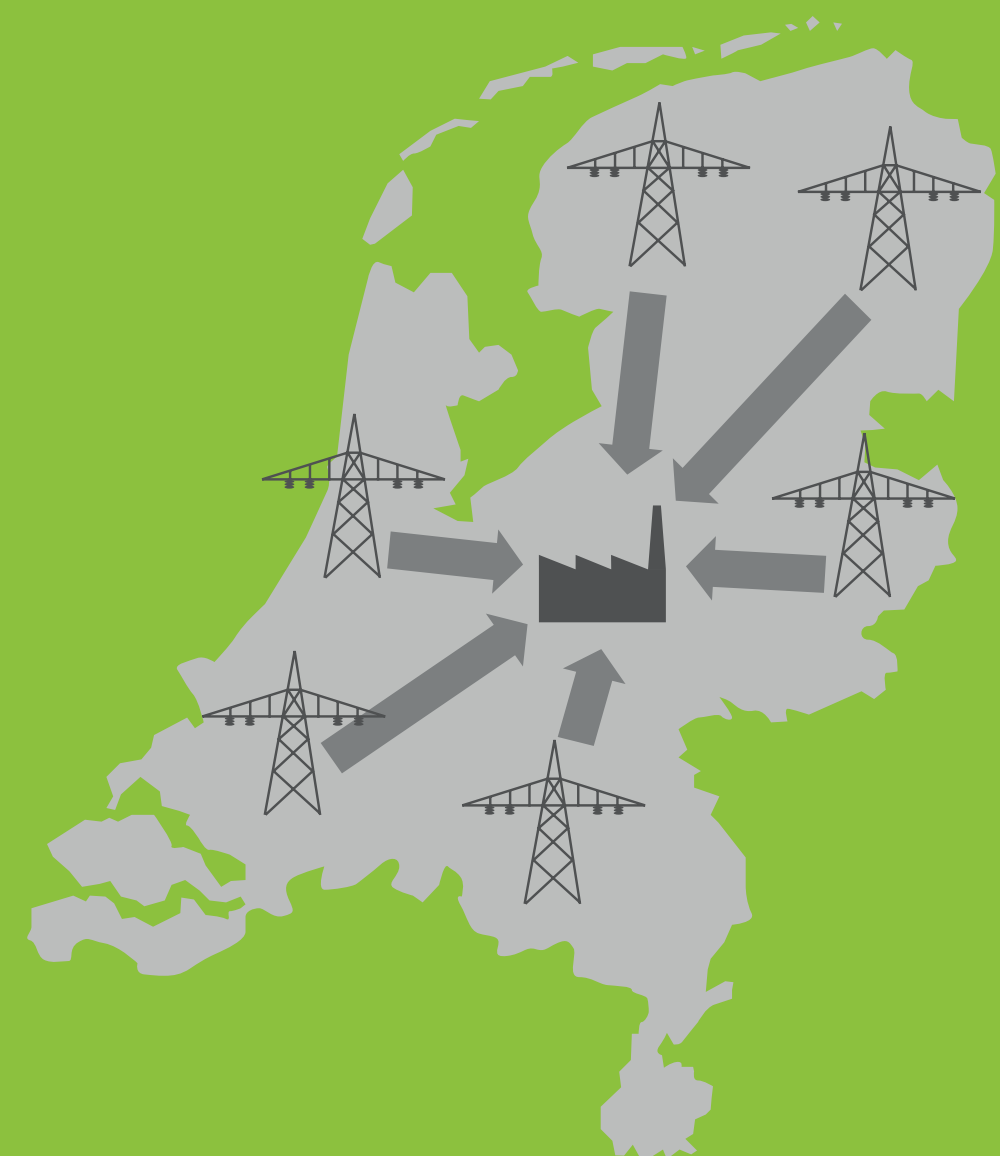
Save every year



900 million EUR



3,5 billion EUR



Every year EU's industry could save energy equivalent to the annual consumption of the entire Dutch industry, by installing cost-effective insulation.



The annual savings potential of cost-effective insulation is equivalent to the annual energy input to 15 coal-fired power plants with a production capacity of 500 MW.

## TIPCHECK • Technical Insulation Performance Check

TIPCHECK is a training and certification programme for insulation engineers.

It has become a neutral platform for professionals to exchange knowledge and further develop techniques to meet energy efficiency targets.

- TIPCHECKs quantify the amount of energy (and euros) a facility is losing in its current configuration.
- TIPCHECKs provide clients with a neutral report on the state of their insulation.
- TIPCHECKs identify the spots bearing the highest energy saving potential and offering a rapid payback.

4 years of experience

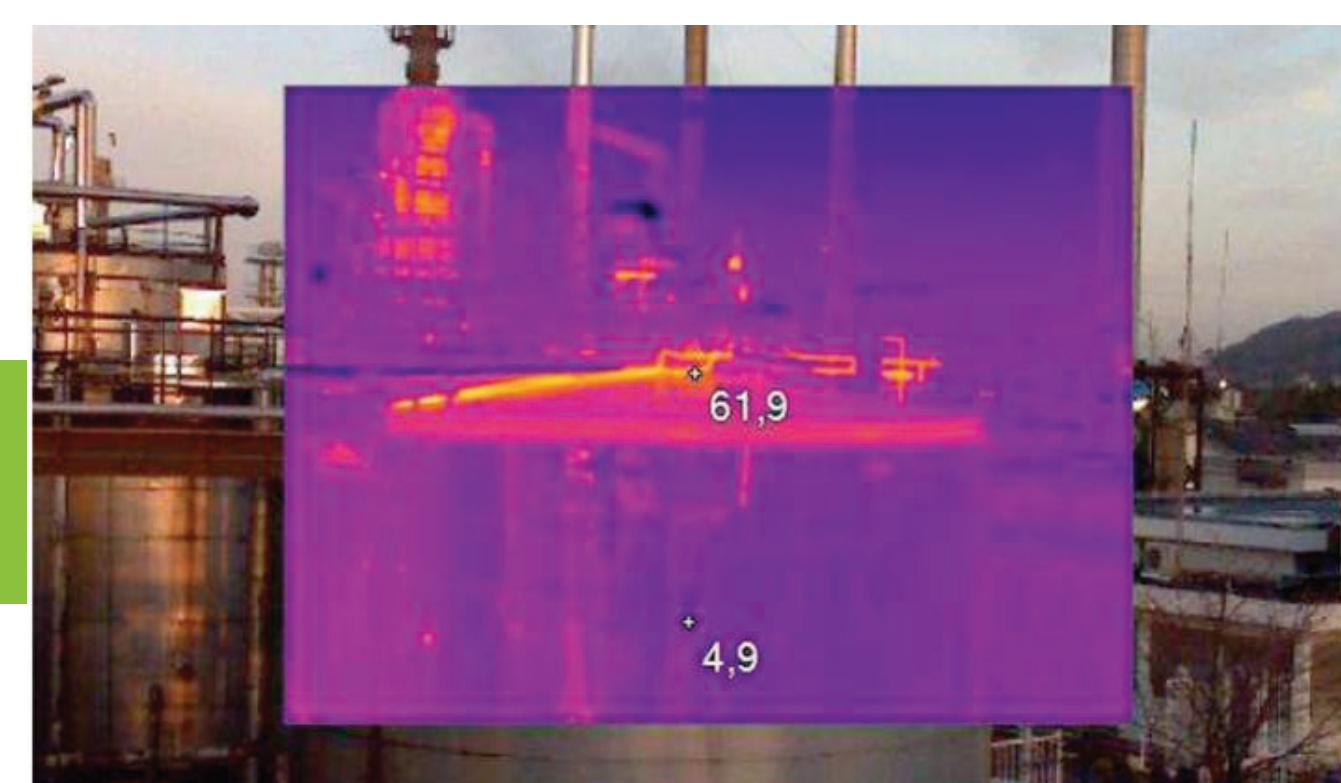
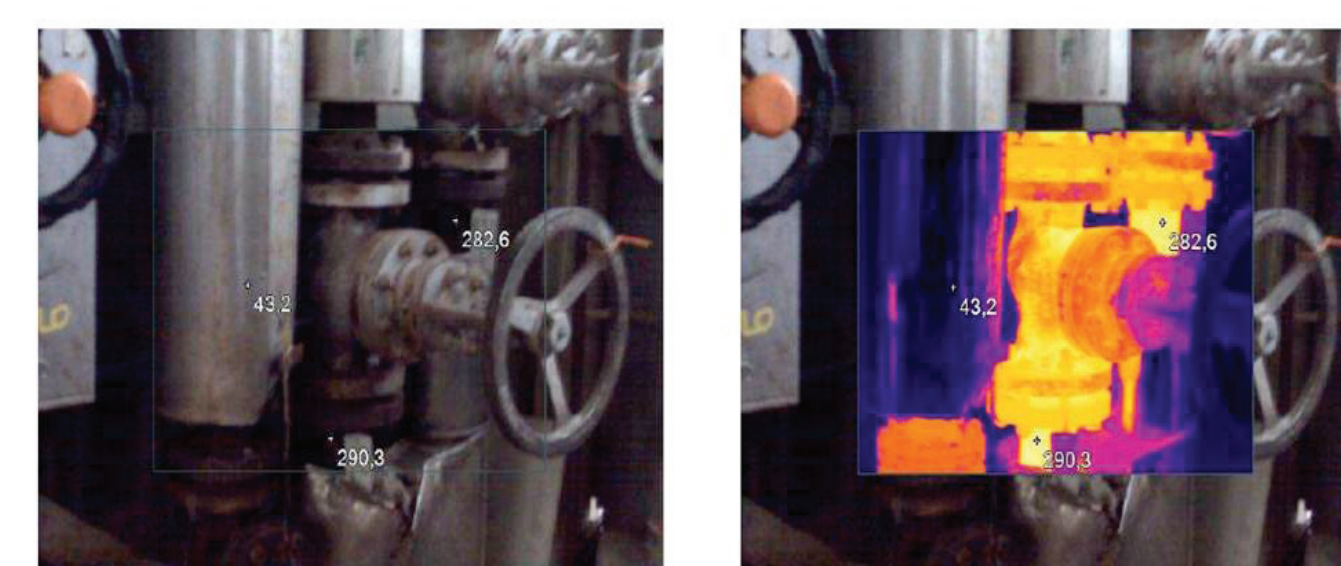
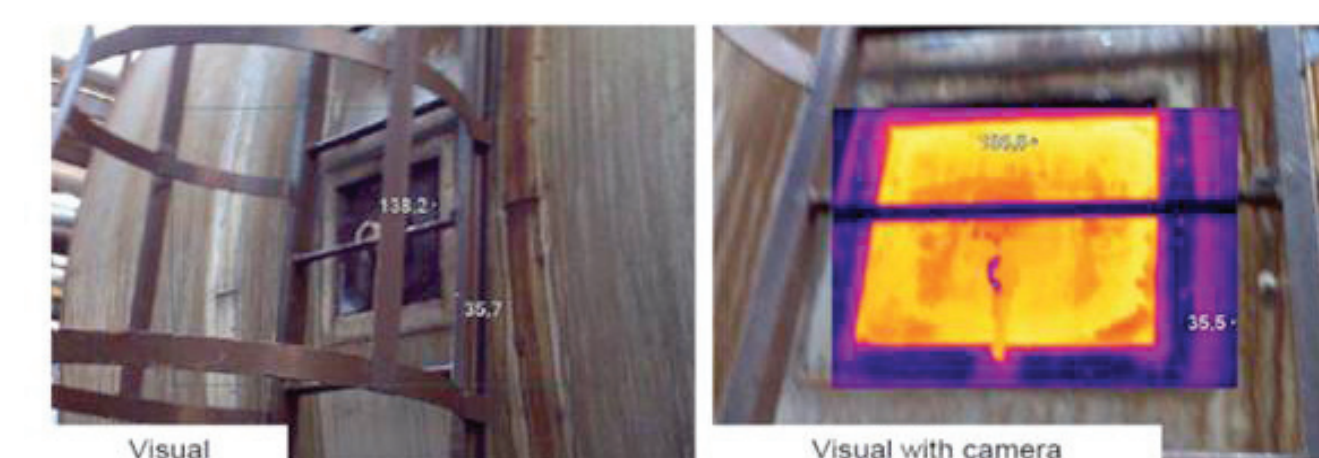
Holder of a degree in engineering

Able to calculate and design industrial insulation systems

Employee of Eiif Member company with QM

TIPCHECK training course

Certified as TIPCHECK engineer



## TIPCHECK contributes to your energy management (ISO 50001)

### How to tap your potential



#### Step 1 - Maintain

Insulate uninsulated parts and replace damaged insulation

If all uninsulated parts would be insulated, and damaged insulation would be repaired, this would reduce primary industrial energy consumption by 3 %.



#### Step 2 - Improve

Evaluate the cost-effectiveness of your insulation and consider upgrading

Insulating all surfaces to cost-effective levels would avoid about 66 % of all current heat loss.



#### Step 3 - Involve

Involve insulation experts early in the planning of new build, overhaul or retrofit projects

Too little available space is most often the reason why efficient insulation cannot be realised. Insulation experts help to avoid planning mistakes.

Aside from energy loss, TIPCHECK audits often also identify safety risks (fire risk, burn risk to personnel).

In applications with refrigerated installations, condensation and ice-building often cause severe problems.



## TIPCHECK offers rapid payback and identifies cost-effective energy savings potentials

### Best practice TIPCHECK



#### Chemical plant, France

Payback	2 - 4 months
Energy Savings	12 600 000 kWh/a
Money Savings	505 000 EUR/a



#### Refinery, Italy

Payback	1 - 3 years
Energy Savings	1 020 000 kWh/a
Money Savings	75 000 EUR/a



#### Processing plant, Germany

Payback	3 months
Energy Savings	1 450 000 kWh/a
Money Savings	47 800 EUR/a

[www.eiif.org](http://www.eiif.org)

TIPCHECK 