

Summary

The Steam Up project aimed to assess the substantial and easily accessible energy-saving potential of steam systems in industries in order to support the EU objectives for energy efficiency. Steam Up presented concrete business cases to decision makers, based on 75 detailed audits from several European countries, ten of which have been executed in Austria.

Energy experts were trained in the Steam Up methodology and body of thoughts, as well as energy managers, end users, technical staff from all types of companies of various size and from all over the country. Moreover, the introduction of a capacity-building programme for technical staff and consultancies ensures a good return on investments.

Introduction to Steam Up

In all sectors of the European industry, there is a considerable and achievable energy-saving potential. Thus, the objective of the Steam Up project was to increase the energy efficiency of steam and to contribute to the CO₂ reduction by saving 55.6 GWh per year in the industry throughout Europe. The European industry has an energy-saving potential of 13%, 75% of which is found in industries that use steam and electrical motor systems. In general, these are large energy-intensive industries like chemicals, paper and pulp, food, and textile services. Steam Up therefore focused on these industries in Germany, Spain, Greece, Austria, the Czech Republic, Italy, the Netherlands, and Denmark.

Unique Selling Points of Steam Up

What made the Steam Up project different from other approaches are

- the focus on steam systems and potential alternatives,
- the attention to non-energy benefits (NEBs),
- the design and use of an energy management centre,
- the effort of bridging the gap between the technical staff and the decision makers (managers, board of directors),
- the aim to influence cultural behaviour and induce a cultural change,
- and the intention to increase the companies' commitment to energy efficiency (ISO50001, environmental policy, etc.).

Audits: savings and Non Energy Benefits (NEBs) achieved

In total 77 audits were carried out in the 8 mentioned countries. 44 of the audits were carried out in SMEs and 33 in large enterprises. The total estimated energy saving potential is 167,074 GWh (which is in monetary terms Euro 6,412,876 per year).

The total estimated investment needed will be approx. Euro 29,000,000.

Apart from the possible energy savings many Non Energy Benefits will be gained after implementation of proposed measures. For an exhaustive enumeration of NEBs visit our [website](#). Audit fact sheets for all participating are also available on the website.

Capacity building and expertise

In total approx.400 energy experts were trained in the Steam Up methodology in all the participating countries, coming from all types of sectors and different sizes of companies. These experts were yet highly qualified and experienced energy experts that now underline the Steam Up project body of thoughts.

Steam Up trainings will be available in countries of the EUREM network.

Industry sectors audited:

1. Paper
2. Food & Beverage
3. Laundry
4. Textile
5. Pharmaceutical
6. Chemicals
7. Rubber and plastics

Type of companies:

- 44 SMEs
- 33 Large enterprises

Total (estimated) Investments

€ 29,000,000

Total (estimated) Savings

6,412,876 €/y

167,074 GWh/a

More information

www.steam-up.eu

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