

SET

Saving Energy in Textile SMEs



Objectives and results January 2017



SELF-ASSESSMENT
TOOL



LEGAL
OBLIGATIONS



INFORMATION &
TRAINING EVENTS



FINANCIAL
INCENTIVES



Energy inefficiency is a cost



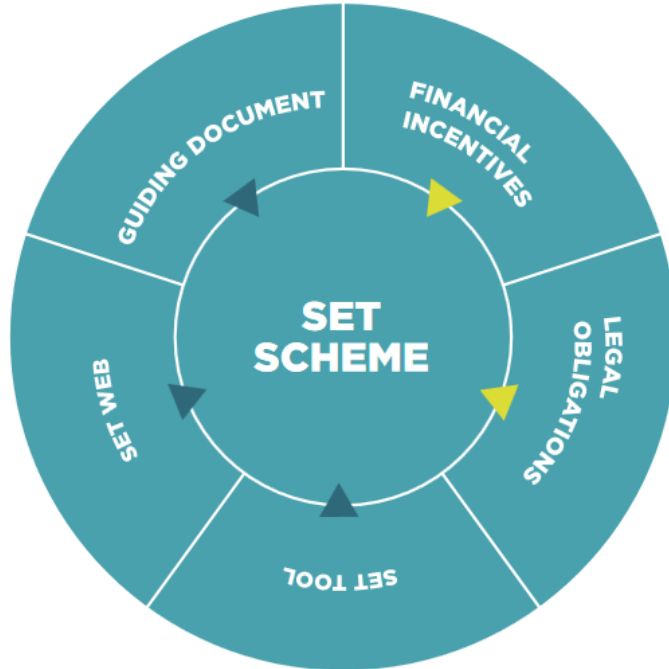
**A 10 mm hole in a pipe
can cost up to
€ 51.600 per year**

Air is free but compressed air leaks are expensive!

Size of the hole (mm)	Flow rate at 7bar (l/s)	Power loss (kW)	Total energy loss (KWh)	Total costs ¹
1	1.2	0,4	3200	480
3	11.1	4	32000	4.800
5	31	10,8	86400	12.960
10	124	43	344000	51.600

ESTIMATED POWER LOSSES AND COSTS €, CAUSED BY SMALL LEAKS IN AIR COMPRESSED PIPES
1. Assuming operating 8000 hours/year and energy cost of 15c€ KWh

SET Objectives



To create the **SET Scheme** a unique **Energy Saving and Efficiency Tool** for the European textile SMEs

To enable energy efficiency for **150 companies**

By applying the SET Scheme with 50 companies, training and assisting further 100 companies

To unlock energy saving potential for further **350 companies**



The SET Scheme

Value for the industry



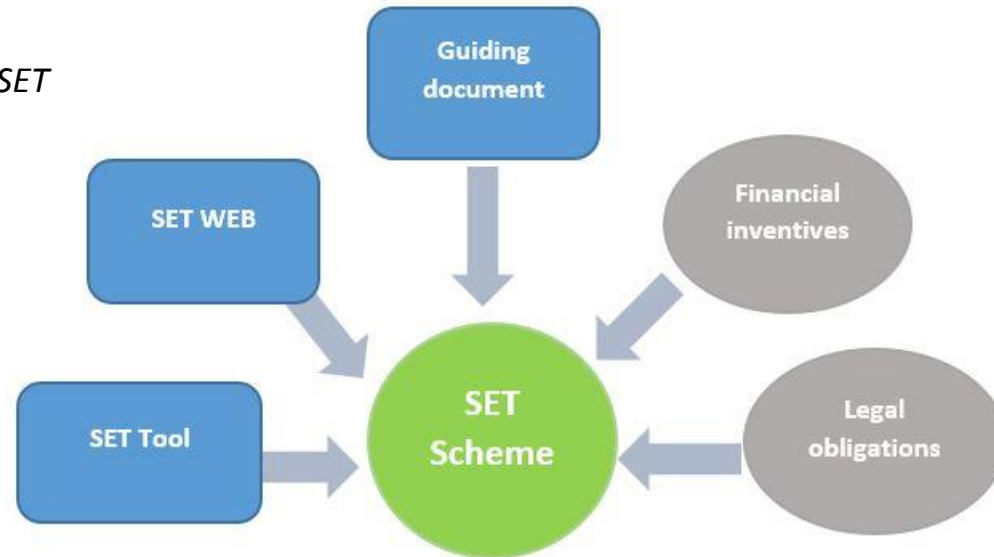
How to use it

SET Web is the application of the SET tool for:

- benchmarking
- advance monitoring

SET tool is an Excel-based software to:

- assess the energy use
- Learn tailored best practices
- estimate savings
- Compare investments



Create companies awareness

The SET scheme may support but does not replace an energy audit



how does the SET tool looks like?

TOOL FOR ENERGY CONSUMPTIONS REDUCTION

To achieve a good analysis, you must type all the required data.

Select the language

English

Select the manufacture


Textile

Consumption analysis Step 1

Investment evaluation

Reset consumption analysis

UniqueID (ass)

Expected consumption vs actual estimated								
Figures used for estimation (declared for technologies/machines)		Electric energy expected consumption		Actual figures of your Factory			Evaluated deviation	
Electric energy consumption for production (a)	Production (b)		Energy consumption for the whole production $F=(a*D)/(b)$	Specific energy consumption per production unit $G=(F/D)$	Electric energy consumption (C)	Production (D)	Specific energy consumption per production unit $E=(C/D)$	Evaluation (G-E)/E %
	Share of total real production (b/D%)	98,1%						
6894500 kWh	2100000 kg		7029146,3 kWh	3,28 kWh/kg	7170018 kWh	2141012 kg	3,36 kWh/kg	 3,35 (+2%)

Results



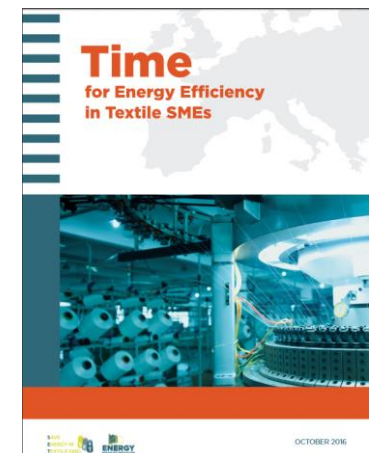
SET scheme in 145 companies

The SET scheme was applied in 11 EU countries with different business responses also influenced by new obligations (e.g. DE, BE), economic situation and companies' size. In the last project months the SET was extended to the 11th country.

Country	Objective	Selected companies	SET Scheme applied in	Valid datasets in SET Web
Germany	38	58	20	18
Czech Republic	20	24	20	20
Hungary	19	21	20	31
Belgium	19	30	6	8
Romania	20	21	22	21
Italy	19	17	27	28
Portugal	19	23	20	16
Bulgaria	3	3	3	3
Croatia	3	6	5	5
Lithuania	3	3	3	3
France	0	1	1	1
Total	150	207	145	153

more on:

www.euratex.eu/set



Who did the SET project



Joining the activities as of 9 / 2015



European Union finances up to 1,2M€
30 months, April 2014 – September 2016



Co-funded by the Intelligent Energy Europe
Programme of the European Union

Joining forces for energy efficiency in the textile industry



www.em2m.eu

ARTISAN



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Find our more:

www.euratex.eu/set



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