

[www.euratex.eu/set](http://www.euratex.eu/set)

# Energy Made-to-Measure campaign and SET project



**SELF-ASSESSMENT  
TOOL**



**LEGAL  
OBLIGATIONS**



**INFORMATION &  
TRAINING EVENTS**



**FINANCIAL  
INCENTIVES**



Co-funded by the Intelligent Energy Europe  
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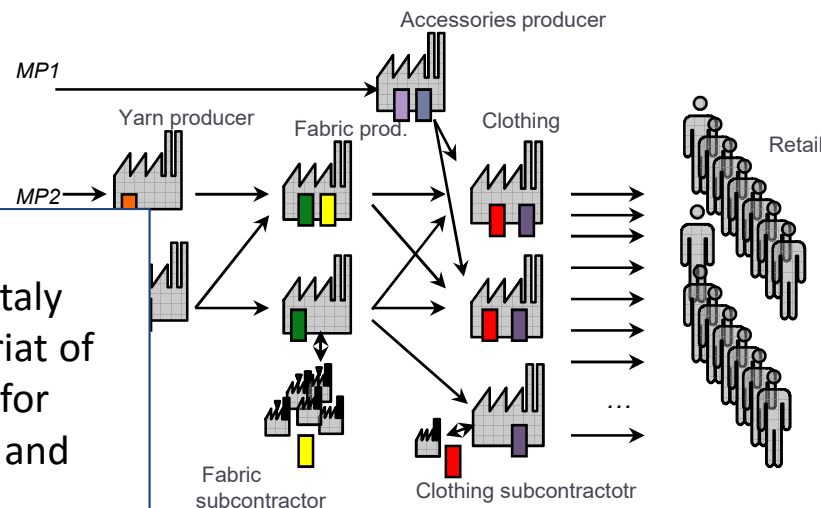


# ENEA CROSS Laboratory



- ▶ Industry standards, smart organisations, semantic interoperability, assisted living services, enterprise networks
- ▶ 3D printing (since 20 years), cad 3D for creative design
- ▶ Energy Efficiency: visits, tools for self-diagnosis and methodology construction of the benchmarks

- We are Energy Made-to-Measure Coordinator in Italy
- We are technical secretariat of eBIZ, European standard for data exchange for Textile and Clothing industry



# Energy Made-to-Measure European Campaign



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# Energy Made-to-Measure Campaign



- Starting point: European projects ARTISAN, SESEC and SET
  - Overcome the fragmentary action of individual 'projects'
  - Act at European level
- Period: 2014 – 2016
- Energy Made-to-Measure's goals and reasons
  - to share results,
  - to promote good practices,
  - to quantify benefits
- Players: EURATEX, ENEA, SESEC, ARTISAN, SET project partners  
... other projects: an open initiative
- LinkedIn: group
  - «Energy Made-to-Measure Energy Efficiency for textile and clothing industry»
  - <http://www.linkedin.com/groups?gid=7463674>



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# Energy Made-to-Measure Campaign



EM2M **brings together and promotes results** of key initiatives

EM2M achieves critical mass helping companies all over EU to get results

EM2M relays on initiatives' own budgets, extends projects' lifetime and range

EM2M aims to share results and best practices and to quantify benefits

## 2014 numbers

-  **8** countries
-  **21** meetings
-  **500+** professionals met)
-  **1** **LinkedIn**  group
-  **0€** additional costs

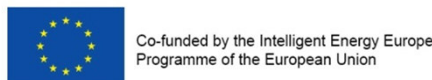
## 3 projects



## 2015 new MoU



## 2016 presentation of SET Scheme





# Two Years After 2014



**Energy Made-to-Measure**  
Energy efficiency in the European textile & clothing industry

Calendar of 2014 industry dissemination and training sessions. (events planning, last update June 2014)

<b>5 March</b> Prato, Italy 	<b>7 March</b> Biella, Italy 	<b>11 March</b> Vicenza, Italy 	<b>14 March</b> Busto Arsizio, Italy 	<b>19 March</b> Como, Italy 	<b>3 April</b> Carpi, Italy 
<b>8 May</b> Fasano, Italy 	<b>15 May</b> Gotse Delchev, Bulgaria 	<b>29 May</b> Bucharest, Romania 	<b>5 June</b> Porto, Portugal 	<b>6 June</b> Lovech, Bulgaria 	<b>18 June</b> Vilnius, Lithuania 
<b>20 June</b> Buzău, Romania 	<b>8 July</b> Porto, Portugal 	<b>4 September</b> Vilnius, Lithuania 	<b>10 September</b> Frankfurt, Germany 	<b>17 September</b> Brussels, Belgium 	

Efficiency and competitiveness in textile and clothing manufacturing must take into account the current and future energy challenges.

Two European cooperation projects ARTISAN and SESEC join forces in a joint information campaign titled "Energy Made-to-Measure", to meet and help companies to improve their Energy Efficiency.

Artisan has received funding from the European Union's 7th Framework Programme for research, technological development and demonstration under grant agreement n°257963

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

ARTISAN  
www.artisan-project.eu

SESEC  
www.sesec.eu/sesec

EURATEX  
THE EUROPEAN APPAREL AND TEXTILE CONFEDERATION

«Energy Efficiency...  
by changing operating  
condition and  
management policies  
(from the production  
planning to the  
auxiliary systems and  
their behaviors)»  
*Biella 7 March 2014*

March 2016: a new events campaign begins in the 10 countries  
of the SET project



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# Two Years After 2014



## Energy Made-to-Measure

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«Energy Efficiency...  
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### Key concepts:

- awareness, ability to quantify ,...
- energy as resource and cost to be managed
- best practices, methods and service models, prototypes
- Small-medium firms

March 2016: a new events campaign begins in the 10 countries of the SET project



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# SET Project



SAVE  
ENERGY IN  
TEXTILE SMEs



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# What is SET doing ?



Creates and deploys a unique **Energy Saving and Efficiency Tool (ESET)** for SMEs of the European textile industry

**Enables energy efficiency for 150 companies**

by  
applying the SET with 50 companies,  
training and assist further 100 companies



Unlocks energy saving potential for **further 350 companies**

Joins the **Energy Made-to-Measure (EM2M)** campaign

**Develops the third generation of the  
EE SAVING SCHEME (and Tools) of EM2M**



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# SET approach: starting point



- ▶ Fragmented sector and mono-phase firms
- ▶ Poor capacity of investment and lack of internal EE skills
- ▶ Difficulty in establishing valid benchmarks for factories with different technologies
- ▶ Different priorities in different countries
- ▶ Create awareness and motivate to invest time and resources on Energy Efficiency (not substituting Energy Audits and ESCOs role)

Thus

- ▶ better awareness of energy uses and identification of applicable best practices in the company

but also

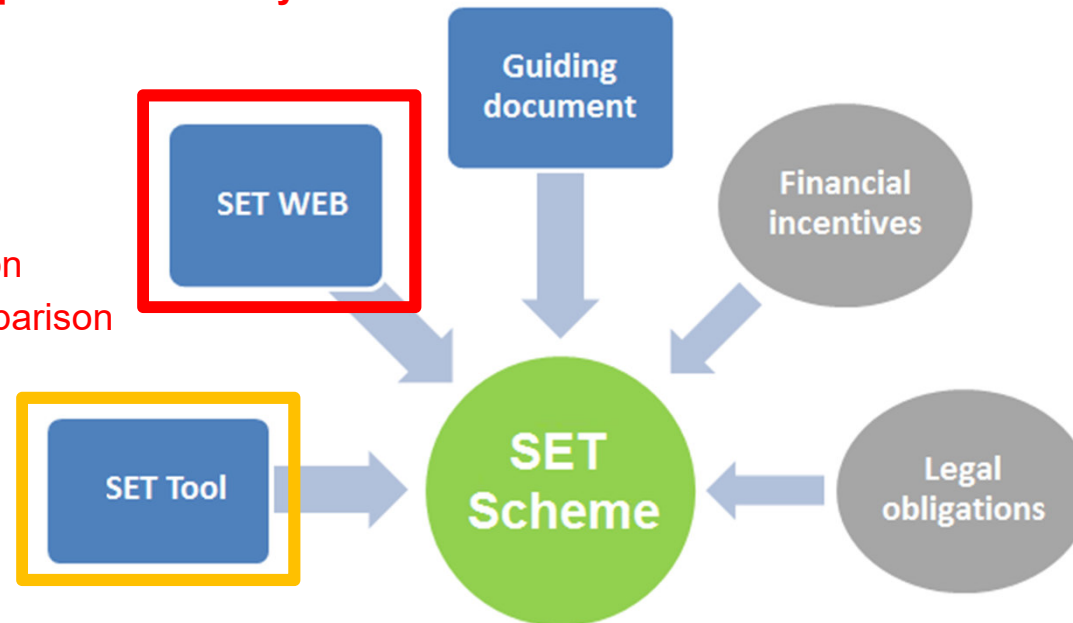
- ▶ collect structured consumption and production data (for example to prepare an audit)
- ▶ evaluate own performances against similar factories

# SET results: SET Scheme, the structure



**Web application:**  
**Comparison of different  
companies efficiency**

**SET Tool:**  
Energy uses  
Savings estimation  
Investments comparison



## Objectives

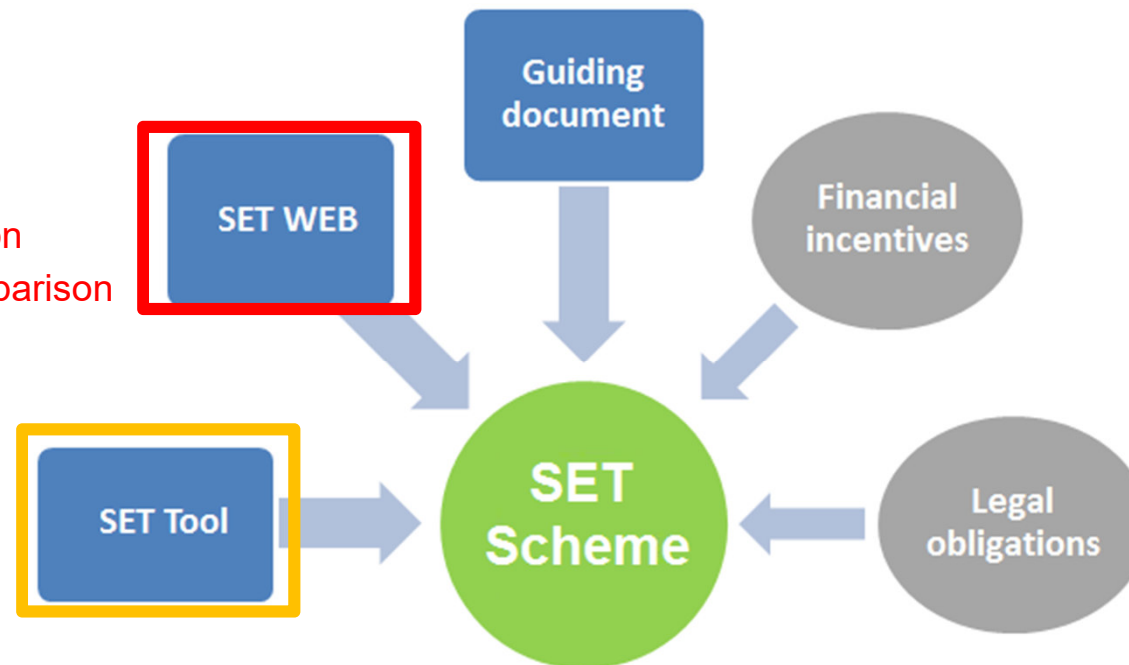
- make companies aware of the uses of energy and potential savings
- compare own performances towards those of analogous companies
- collect and organize own data

# SET results: SET Scheme, the structure



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# SET functionalities



The number and the typology of services supplied by Set depends on the way it is used.

Set Tool allows companies to:

- collect data in a structured way
- visualize and analyze the indicators
- get suggested Best Practices and estimated savings
- estimate investments and return of investment (based on technical analysis)

The joint use of SET Tool and of Set Web allows companies to:

- get all the results of SET Tool
- visualize uploaded data in an structured way and compare various indices year by year (if data of different years of the same factory have been uploaded) (\*)
- visualize a model of theoretical consumptions related to own machines (\*)
- compare own performances in comparison to a specific benchmark built on 'similar' companies (\*)

(\*) Access to outputs of SET Web is allowed only to those firms that decide to upload their data anonymously contributing by this way to the improvement of the sectorial benchmarks



# Benchmark



## Performance Indices:

- ▶ Energy consumption x production (or turnover) unit
- ▶ Energy cost x turnover (or production) unit

## Performances Comparison

- ▶ Limited meaning of the Eurostat indices

## Comparison in SET

- ▶ Indices extracted in a weighted way from a group of 'similar' companies

## 'Similar' companies identification

- ▶ Every company is described through various parameters (technologies, products, market segment, raw materials)
- ▶ Companies are defined 'similar' on the basis of a similarity score (in comparison to values declared by the company) calculated on technologies and other parameters like raw materials and others.



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# Some conclusions



- ▶ Often companies do NOT exactly KNOW their energy related data
- ▶ Quantifying the loss of money is a starting point to be aware of an EE problem/opportunity
- ▶ Companies ask primarily help for identifying the areas WHERE to focus
- ▶ Check lists of BPs helps to become aware of EE problems and of possible solutions
- ▶ Often companies has bought renewable sources rather than doing efficiency
- ▶ The ranking of most promising BPs is different in different countries
- ▶ After a promising (but costly) EE action is clearly identified the IMPLEMENTATION is not automatic in the internal decision process
- ▶ Already audited firms have different needs, and expectations
- ▶ Thanks to the company contribution we are setting up a consistent database with anonymous data about consumption in relationship with technologies and productive processes.



## Contacts

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**EURATEX, Mr. Mauro Scalia**  
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## More informations:

**Project:** [www.euratex.eu/set](http://www.euratex.eu/set)

**SET Web:** [www.em2m.enea.it](http://www.em2m.enea.it)



Energy Made-to-Measure Group



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