



Benchmarking and Energy management Schemes in SMEs (BESS)

EIE/04/246/S07.38678
January 2005 - April 2007 (28 months)

The sole responsibility for the content of this presentation lies with the authors. It does not represent the opinion of the Community. The European Commission is not responsible for any use that may be made of the information contained therein.



Objectives of Project

Development of an interactive tool promoting a systematic and persistent approach to energy management and for the wide spread application of benchmarking and energy management in order to improve energy efficiency in industrial Small and Medium size Enterprises (SMEs) with particular focus on the food & drink industries.

Development of interactive tools for SMEs:

- ✓ Definition of main challenges and best practices (WP 1)
- ✓ Energy management implementation & standards (WP 2)
- ✓ Web based benchmarking & monitoring system (WP 3)
- ✓ supported by an web based e-learning scheme (WP 4)
- ✓ Pilot testing of the tools in 55-65 SMEs of the food & drink industries in 11 countries (WP 5)
- ✓ EU wide promotion (WP 6 & 7)

The BESS Dartboard Modell





Welcome To Ad-Hoc Benchmarking

This pilot web-based benchmark application developed within the BESS-project (www.bess-project.info) make it possible to benchmark energy performance against other European pilot companies. The module is under construction and in first phase you will find data for participating pilot companies within the food and drink sector (dairies, meat industry and bakeries). The application is flexible regard establishment of new benchmark-classes and new indicators. The application has options for adjustment regard external factors like climate (heating and cooling), capacity utilization, production mix and boiler efficiency. For more information about the adjustment factors see [Adjustment Factors](#).

This ad-hoc benchmarking is a demo-site for companies that not participate in the BESS-project. By submitting company data of energy and production into this application you can benchmark energy performance against the pilot companies. Data that you submit can not be seen by others and will not be stored in the database. Below you find a four steps description of howto proceed. Push "next" when you are ready for the next step.

Step 1 (Company): Here you select which country and sector you belongs to. If you want to take climate into consideration, then you have to submit geographic data for heating degree-days (HDD) and climate dependent share of the thermal energy consumption. For more information about adjustment factors see [Adjustment Factors](#).

Step 2 (Energy): Here you report annual energy consumption and boiler efficiency for relevant energy carriers used in your company. You don't have to submit data for two years, but if you do the output (step 4) will be more useful. Remember to tick off the correct unit for your reported data (1 kWh = 3600 kJ). By moving your cursor around, you will find that some help text pop up on the screen

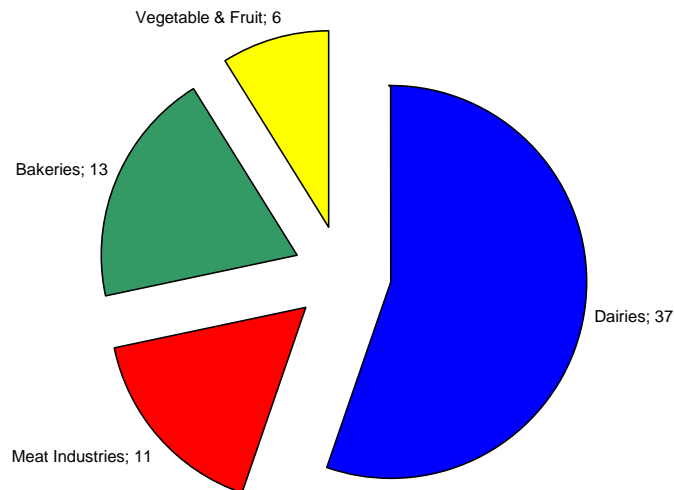
Step 3 (Production): Here you report annual production volume for your company. If external conditions (strike, fire etc) has cause reduced production it is possible to submit average production utilization for adjustment with reference to optimum production. For more information about adjustment factors see [Adjustment Factors](#).

Step 4 (Results): Here you find the benchmark results. Go back to relevant page (step) if you want to make changes. Your submitted data are temporary stored until you quit the application – then all information will be deleted.

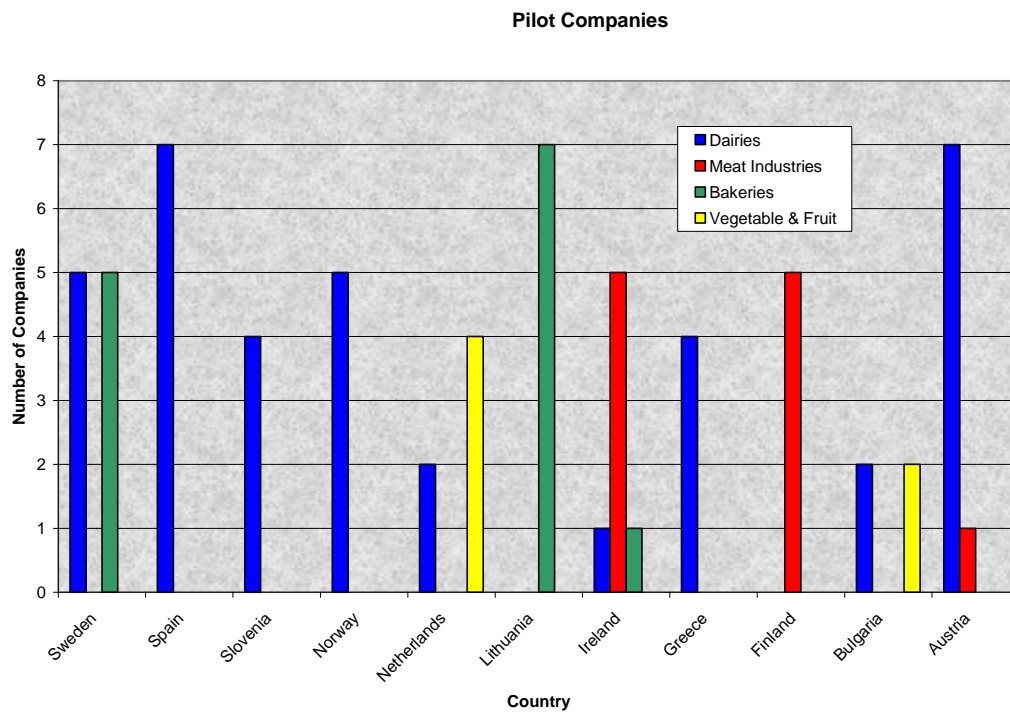
Next >>

Most of the Pilot Companies are Dairies, followed by bakeries, meat industries and vegetable and fruit industries:

Sectors of Pilot Companies



Pilot Companies of the consortium countries:



Results achieved

Supported by
Intelligent Energy Europe

Interrelated package of instruments and tools:

- ✓ An interrelated package of instruments and tools for improving energy efficiency in industrial SMEs. The package contains an energy management specification, energy management implementation model, benchmarking scheme, energy management handbook, web based e-learning system and numerous different supportive tools like templates for energy audits, measure lists and checklists.
- ✓ 53 pilot companies from the food & drink industries in 11 European countries tested the package. According to their feedback the BESS consortium was able to produce tools which are satisfying the actual needs of SMEs.



Results achieved

Supported by
Intelligent Energy Europe

Dissemination and follow-up activities:

- ✓ On the first of March 2007 the BESS workshop took place in Wels, Austria. More than 60 participants from SMEs of the food and drink industry, energy service companies, consultants and associations learned about the results of BESS and the future possibilities to continue with international benchmarking and e-Learning.
- ✓ Recommendations for policymakers have been elaborated which point out how energy efficiency in industrial SMEs can be improved by establishing the BESS package of instruments and tools.
- ✓ The BESS package has already been implemented in existing national support programmes of some project partners.



Coordinator of BESS

Supported by
Intelligent Energy Europe

Coordinator SenterNovem (NL)
Mr. Boudewijn Huenges Wajer
Tel.: +31 46 4202 304
e-mail: b.huenges.wajer@senternovem.nl

Project website: www.bess-project.info