

Mapping SMEs data in Europe

INTRODUCTION

Small and medium-sized enterprises (SMEs) are the backbone of the European economy. Within the LEAP4SME project, we have analysed the economic and energy aspects of SMEs in Austria, Croatia, Greece, Italy, Malta, Poland, Portugal, Slovakia, and the United Kingdom. In all the targeted countries, there are no explicit data sources for energy consumption to enable cross-country comparisons. To obtain consistent and comparable energy data at SME level for all partner countries, a set of different approaches were developed to estimate the total energy consumption of SMEs.

SME mapping in partner countries

The importance of SMEs is shown by the economic database of Eurostat's Structural Business Statistics (SBS), which is categorised in NACE sections and divisions. In all partner countries of LEAP4SME, the economic relevance of SMEs is extremely high:

- More than 99% of all enterprises are SMEs, whereas large companies only have a marginal share.
- Micro enterprises alone account for more than 86% of all enterprises.
- Looking at the ownership structure, on average, around 87% of all SMEs are autonomous profit-oriented enterprises and can make independent financial decisions.



persons employed by SMEs

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Wholesale and retail trade SMEs

Contain most enterprises, employees and values added



AAA

Are second in employees and value added

54%



Professional, scientific and technological SMEs

Are second in number of enterprises

83%

The research revealed that no energy-related data for SMEs were published at European level. At a national level, the quality of existing energy-related data for SMEs was generally insufficient to provide a sound scientific-based support to the policy making cycle.

- Sources analysed: IEA, Eurostat, EIB, OECD, EC studies and initiatives, national energy plans, interviews with experts in the partner National Agencies, 63 EU funded projects on energy efficiency/SMEs/enterprises, peer reviewed publications and main conferences on energy efficiency in Europe.
- Two common different approaches established (Approach 1 and 2) + individual approaches.



Approach 1: Bottom-up Approach

by SMEs

- Definition of threshold consumption for non-household Step 1 customers that are classified as SMEs.
- Summation of annual consumption volumes within the Step 2 threshold.
- Calculation of the share of other energy sources and ex-Step 3 trapolation for total energy consumption.
- Consideration of additional data to improve the estimates. Step 4

Approach 2: Top-down Approach

- Annual energy consumption data of large enterprises from **Basis** mandatory energy audits, energy balances.
- Accumulation of the annual energy consumption of large Step 1 enterprises.
- Collection of relevant data from the energy balance. Step 2
- Complement of energy balance data with data from physical Step 3 energy flow accounts (PEFA) and estimation of SME consumption.

Approach 1

Individual approaches

Hypothesis, methodologies and assumptions explained in the LEAP4SME report "Mapping SMEs in Europe: Data collection, analysis and methodologies for estimating energy consumptions at Country level"



LEAP4SME, 2021: Report "Mapping SMEs in Europe: Data collection, analysis and methodologies for estimating energy consumptions at Country levels" Eurostat's Structural Business Statistics (SBS)







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ABOUT LEAP4 SME

LEAP4SME aims to support countries in establishing or improving effective policies for SMEs to undergo energy audits and implement cost-effective, recommended energy-saving measures through identifying the barriers for unlocking energy efficiency measures and proposing effective solutions to realise both energy and non-energy benefits.

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