



ENERGY AUDIT POLICIES
TO DRIVE ENERGY
EFFICIENCY

Introduction and context: Energy Audits & Energy efficiency policies in SMEs in nine European Countries

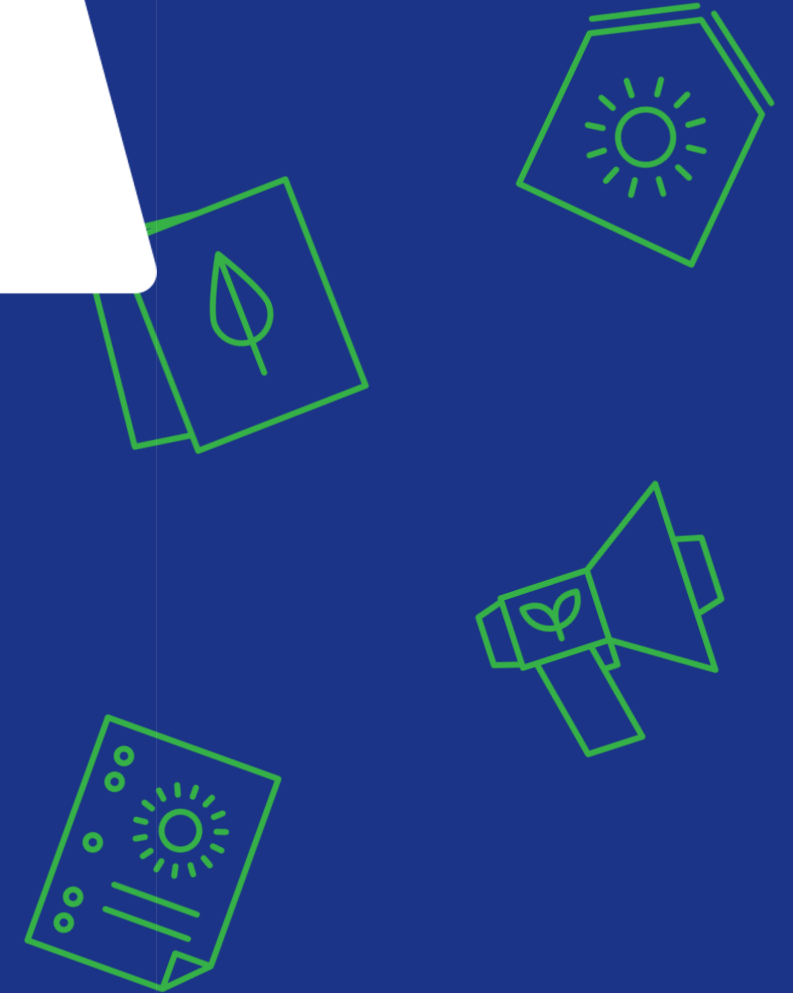
Enrico Biele, LEAP4SME

ENERGY AUDITS AND ENERGY EFFICIENCY: FOCUS ON ENERGY INTENSIVE SMES IN EUROPE

EUSEW, 11th October 2021



This project has received funding from the EU
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LEAP4SME

Energy Audit policies to drive Energy Efficiency

Consortium

The National Energy Agencies of Austria, Croatia, Greece, Italy, Malta, Poland, Portugal, Slovakia, United Kingdom and the Communication partner Revolve



Main goals

- **Mapping and understanding** the complex context of national and local support to SMEs
 - **Contributing**, through LEAP4SME research, analysis, and stakeholders involvement, to help the Institutions finding solutions to fill the gap of data
 - **Knowledge sharing** (successes, barriers and failures) on national policies
- ↓
- **Proposing effective and realistic solutions** to policy makers and policy implementers in terms of policy schemes, cross-cutting policy solutions embracing both energy and non-energy benefits, policy recommendations



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Today's Agenda



PROGRAMME



12:00-12:10	Introduction + Energy Audits & Energy efficiency policies in SMEs Enrico Biele, Project Coordinator, LEAP4SME
12:10-12:20	Funding the green transition of companies Oronzo Daloso, Project Manager CINEA, European Commission
12:20-12:30	Energy audits and energy efficiency in SMEs: Experiences from the Chemical Industry Nicola Rega, Director of Energy, CEFIC, European Chemical Industry Council
12:30-12:40	Energy efficiency and the copper industry: Creating leverage for decarbonisation Diedert Debusscher, Clean Energy Transition Strategic Advisor, European Copper Institute - Copper Alliance
12:40-12:50	Energy rationalization in foundries: A comparison between European and Italian experiences Roberto Ariotti, President of the Executive Committee, CAEF, European Foundry Association
12:50-13:00	EED Article 8 implementation for energy intensive SMEs: A national case study Marcello Salvio, Head of Unit Energy Efficiency in the Economic Sectors, ENEA, Italian National Energy Agency
13:00-13:30	Final debate & Q&A



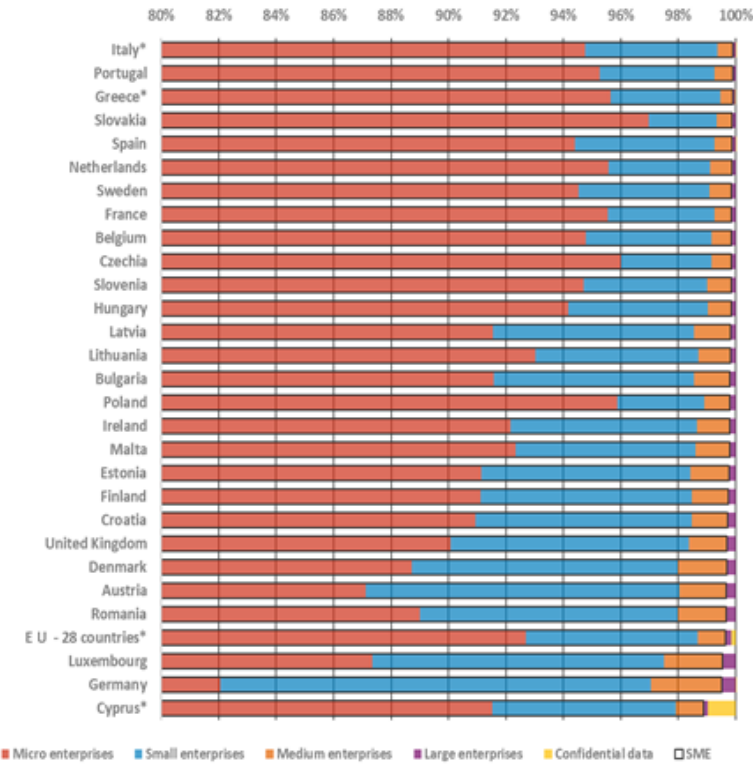
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Data availability on the SME sector at national and European levels



- Good availability of economic-related data, number of enterprises & employees + interesting results from EC/SAFE and EIB surveys
- Lack of **energy-related data** on SMEs: **insufficient data situation** for properly planning energy efficiency policies
- Need for KPIs to implement policies and support the policy process development



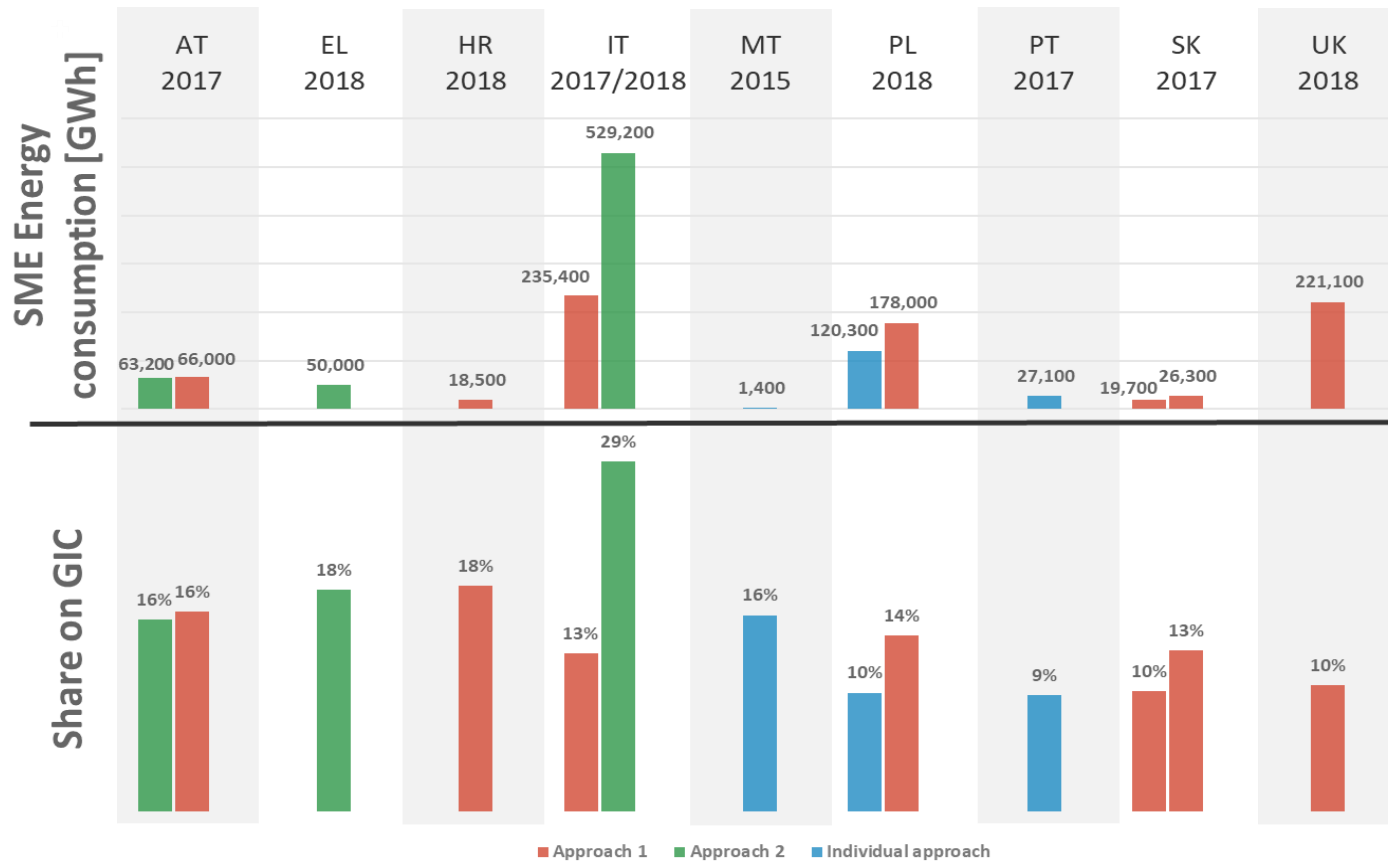
Source: LEAP4SME elaborations on data from Eurostat, European Commission, SAFE reference year 2017

GENERAL SECTOR KPIS		
REFERRED TO ALL ENTERPRISES, BOTH LARGE AND SMES PER SECTOR (INDUSTRY, TRANSPORTS, TERTIARY ETC.) - 1/2 DIGITS NACE CODE		
KPI Group	Availability	Relevance
GENERAL	Highly available	Highly important
ENERGY CONSUMPTION	Lowly available	Highly important
CO ₂ EMISSIONS	Highly available	Moderately important
ENERGY INTENSITY	Lowly available	Moderately important
COST OF ENERGY	Lowly available	Highly important
POTENTIAL SECTOR	Lowly available	Highly important

GENERAL SME SECTOR KPIS		
REFERRED ONLY TO SME		
KPI Group	Availability	Relevance
GENERAL	Highly available	Highly important
ENERGY CONSUMPTION	Lowly available	Highly important
CO ₂ EMISSIONS	Lowly available	Moderately important
ENERGY INTENSITY	Lowly available	Moderately important
COST OF ENERGY	Lowly available	Highly important
POTENTIAL SECTOR	Lowly available	Highly important

Source: LEAP4SME analysis on data from the partner National Agencies (WP3, lead: KAPE)

Methodologies for estimating the energy consumption of SMEs in nine European Countries



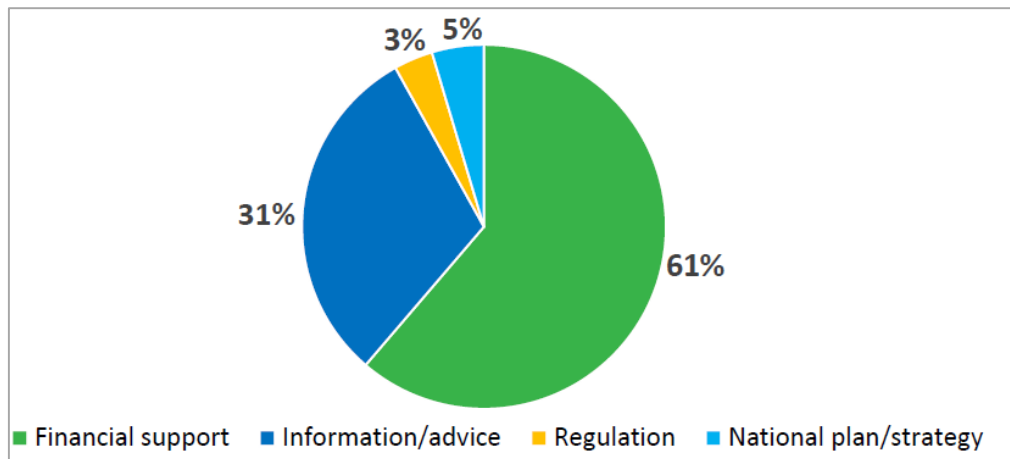
- Share on gross inland consumption (GIC): 9 -18%
- Different scenarios calculated for Italy resulting in greater range
- Hypothesis, methodologies and assumptions explained in the report

<https://leap4sme.eu/wp-content/uploads/2021/04/LEAP4SME-D2.1-SME-MAPPING.pdf>

Energy Efficiency Policies in SMEs and barriers



173 Policies analysed covering the nine targeted Countries



Barriers	Size of SME		
	Micro	Small	Medium
Access to finance	Challenging – providing guarantee for accessing credit e.g., microloans	Moderately challenging	Not challenging – more likely to have financial reserves. Internal departments that manage business finances
Energy consumption data	Moderately challenging – usually simple energy consumption data / locally accessed	Moderately challenging – may not receive metered consumption	Challenging – more complex organisational consumption
Lack of resource (finance, time, expertise)	Challenging	Challenging	Moderately challenging
Energy efficiency opportunities	Challenging	Challenging	Moderately challenging

Outcomes and preliminary recommendations:

- Further evaluate a combined approach with a mix of different instruments
- Awareness raising and communication of existing policy instruments for SMEs
- Simplification of application processes, as well as support for SMEs during the application phase
- Assess the effectiveness of focused obligations for SMEs to conduct energy audits
- Sector specific policy instruments & assessment of tailor made approaches at the intersection of firms size and specific aspects of energy/climate investment
- Create linkages between audits and wider support programmes investment
- Strong standards for auditors and their outputs
- Create linkages between audits and wider support programmes



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Source: LEAP4SME, reports “Existing support measures for energy audits and energy efficiency in SMEs” and “Energy audits market overview and main barriers to SMEs”. Author: Energy Saving Trust



Next steps (Autumn 2021- Spring 2022)

Survey for Organisations

Assessment of Energy Audits and Efficiency policy barriers and needs in SMEs (ORG)



https://ec.europa.eu/eusurvey/runner/LEAP4SME_Survey_Organizations

Survey for Enterprises (SMEs)

Assessment of Energy Audits and Efficiency policy barriers and needs in SMEs (SMEs)



https://ec.europa.eu/eusurvey/runner/LEAP4SME_Survey_SMEs

Collection of proposals, contributions and ideas

LEAP4SME International Observatory + National Observatories and trainings (2022)



<https://leap4sme.eu/>



Thanks for your attention

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