

Energy transition compass - a tool for industries that makes emissions and costs reduction easier and possible.

Summary

Profile type	Company's country	POD reference
Technology offer	Italy	TOIT20230713003
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
Rita ELSTE - TOMSONE	13 Jul 2023 12 Jul 2024	13 Jul 2023

General Information

Short summary

An Italian innovative SME has developed a tool that allows industries in the manufacturing sector to quickly measure their emissions and to identify and define emissions reduction interventions, coherently with international standards. Aimed at powering the green transition of SMEs. The tool has been tested with a first set of companies and is offered as commercial agreement with technical assistance.

Full description

An Italian engineering company focused on the development of industrial decarbonization and sustainable transition projects, has developed a tool aimed at empowering the energy transition of SMEs in the industries, by calculating greenhouse gas emissions (GHG), setting emissions reduction targets and finding the best technologies to reduce energy use, emissions and costs.

As SMEs are getting involved in the energy transition, they often face the burden of being compliant with ESG requirements by corporate clients.

Energy Transition Compass has been designed to enable SMEs that need to measure their emissions, to set up a concrete emissions reduction plan, to contextualise what they have already done and want to secure their business from the transition risk, to get to the desired results in the best and most straightforward way possible.

The tool has been designed with a three-step approach:

1. Data gathering: the user company is provided with a user-friendly form where information about the type of business, its energy bills and energy assets is requested to the extent that the company is aware of them. That can be complemented with a one-to-one web meeting.
2. Analysis and roadmap development: the engineering company will exploit the calculation model developed in order to identify:
 - current scope 1 and 2 emissions
 - emissions reduction target, according to Science Based Targets initiative (SBTi)
 - preliminary technical and economic estimates
 - priority interventions and related technology providers.
3. Delivery of report and case study: the user company will be provided with:
 - a report containing the results of the analysis and an action plan to implement the identified roadmap
 - a dedicated case study to communicate the commitment.

The tool, currently offered as commercial agreement and already successfully tested with a first set of SMEs in the industry, has proven effective in identifying interventions that, when implemented, can reduce emissions and costs with reasonable pay back times for SMEs.

Advantages and innovations

When looking for tools and methodologies to support and empower the energy transition of SMEs, the market currently offers either very simple tools mainly aimed at measuring emissions or giving generic advice on how to save energy, or tools which provide a more complete output but require technical expertise in order to be properly and effectively exploited. Moreover, an SME might consider the opportunity of having an energy audit done by professionals, but that often turns out to be either too expensive or not satisfactory in terms of identifying actionable energy transition interventions contextualised in a decarbonisation plan.

The tool allows with minimum effort on the part of the company to:

- Calculate its CO2 emissions
 - Discover emissions and costs reduction opportunities
 - Obtain tech specs and economics of identified interventions
 - Communicate the commitment through a dedicated report
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Technical specification or expertise sought

Stage of development

Available for demonstration

Sustainable Development goals

- **Goal 13: Climate Action**
- **Goal 12: Responsible Consumption and Production**
- **Goal 7: Affordable and Clean Energy**
- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

No IPR applied

Partner Sought

Expected role of the partner

Companies in the industry sector, willing to put into practice their sustainability claims, start or complete their energy transition journey.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME <=10**
- **SME 50 - 249**
- **SME 11-49**

Dissemination

Technology keywords

- **004006001 - Energy management**
- **004006003 - Process optimisation, waste heat utilisation**
- **10002004 - Climate Change mitigation**
- **10002013 - Clean Production / Green Technologies**

Targeted countries

- **World**

Market keywords

- **09003001 - Engineering services**
- **09003005 - Consulting services**
- **02006004 - Data processing, analysis and input services**
- **06010003 - Energy for Industry**

Sector groups involved

Media

Images

**Reducing costs and emissions
is possible**



[ETC2_EN.PNG](#)



Energy transition, tailored to SMEs



[ETC1_EN.PNG](#)