



ECO LOGGER

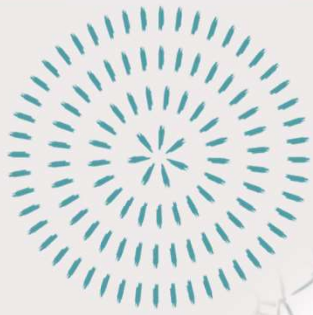
Shaping a greener tomorrow with every innovation.
ITACA: Driving Advanced Climate Action through Technology



Itaca is with you

Since **1994**, Itaca has been by its Clients' side, supporting them through various phases of technological transition. In this new era ushered in by the **Transition 5.0 Plan**, we aim to offer you the very best.





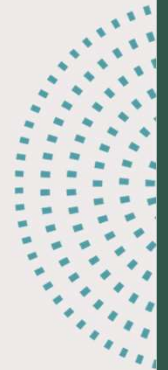
Transition 5.0 Plan- Energy Efficiency

Tax credit of up to 45% for energy consumption reduction



What is it?

- An initiative aimed at promoting sustainability and technological innovation in businesses.
- It is a plan designed to guide companies towards greater social and environmental sustainability, integrating advanced technologies that enable a reduction in energy consumption.



What is meant by Energy Transition?

- Energy transition" refers to the shift from a model of energy production and use based on fossil fuels (such as coal, oil, and natural gas) to one based on renewable and clean energy sources (solar, wind, hydroelectric, geothermal).
- In summary, it is the transformation process that aims to shift to the exclusive use of renewable sources, targeting climate neutrality and zero **CO2 emissions**.



Actions in support of the Energy Transition



Renewables: renewable technologies are the cornerstone of the energy transition.



Electrification: electricity from renewable sources is the key energy carrier to promote the energy transition towards decarbonization



Decarbonization: the goal of the energy transition is the shift to renewable sources, while the abandonment of fossil fuels must still ensure the stability and resilience of the grids. Natural gas will play a key role.



Digitalization: the digital transformation supports the transition of the entire energy supply chain, from the management of power generation plants to new services for consumers, including smart grids.

Guidelines for the Transition 5.0 Plan



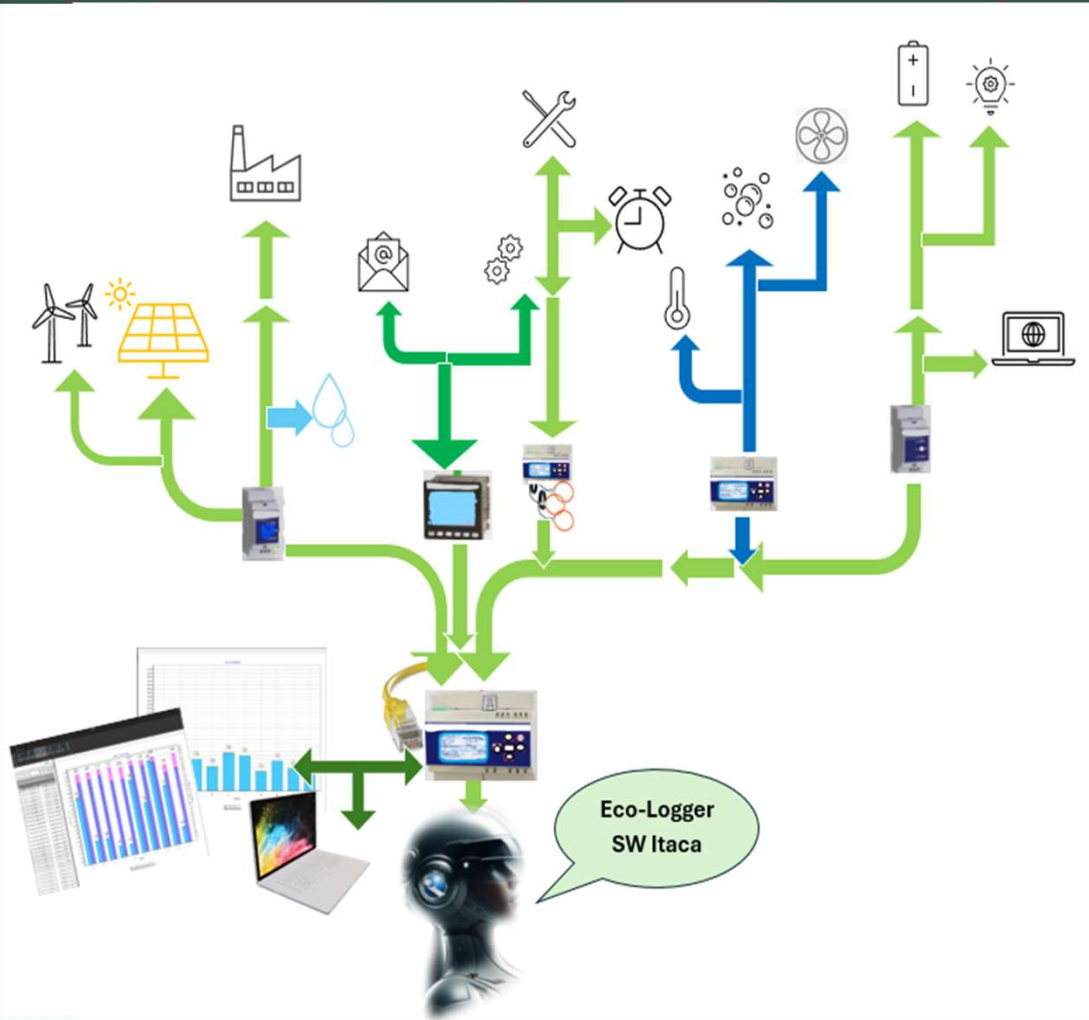
The decree detailing the new **Transition 5.0** Plan has been approved: its goal is to support investments made by **companies in 2024 and 2025** in digitalization and the green transition.



Expenses for tangible and intangible capital goods listed in Annexes A and B of Law No. 232 of December 11, 2016, of the Transition 4.0 Plan (thus interconnected and integrated with 4.0 logic) are eligible, provided they can reduce energy consumption by **at least 3%** of the energy consumption of the production facility located within the national territory, or **by at least 5% of the energy consumption of the processes affected by the investment.**

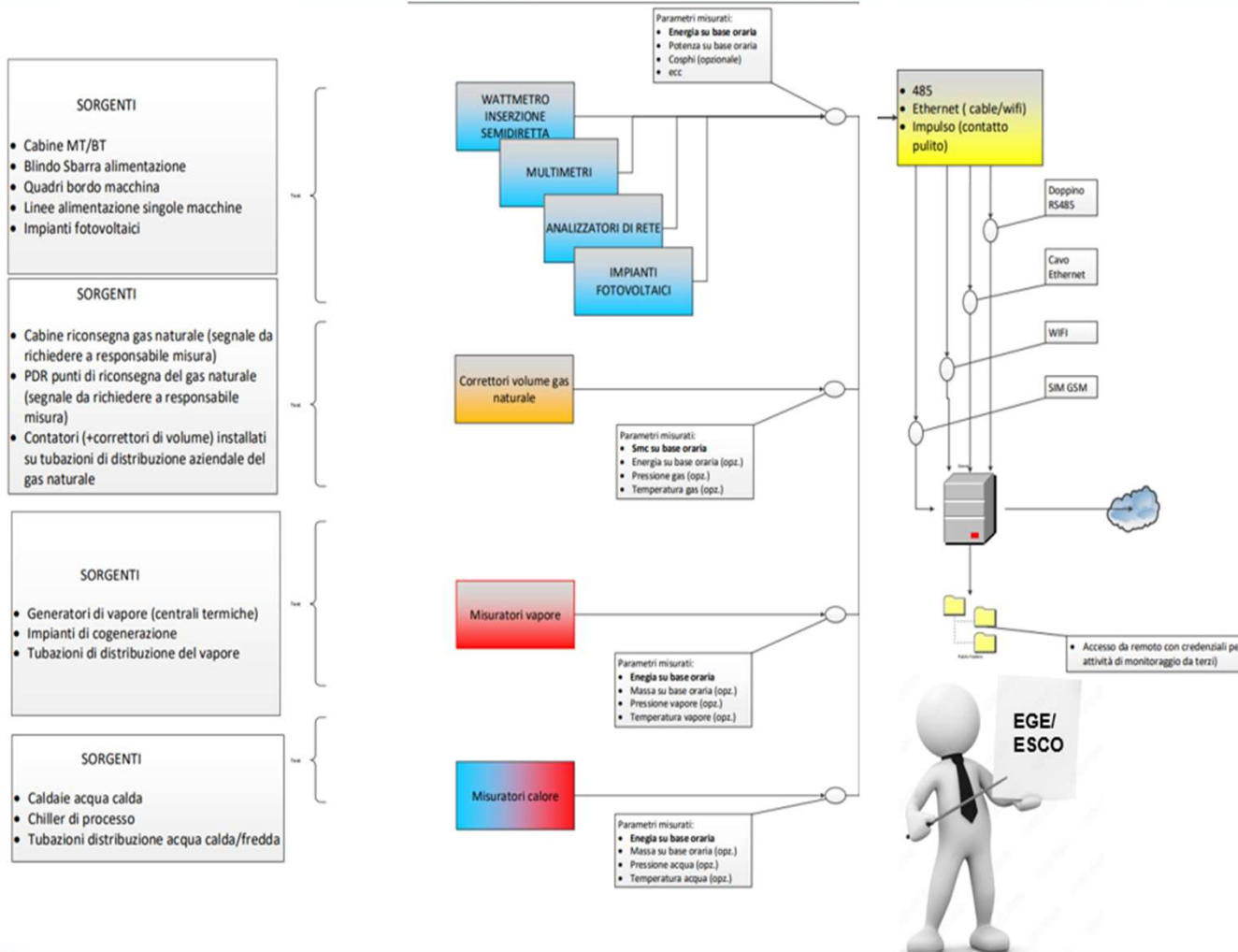


Annex B (software, systems, 4.0 platforms) is expanded to include software, systems, platforms, or applications for intelligent plants that ensure continuous monitoring and visualization of energy consumption and self-produced and consumed energy or introduce energy efficiency mechanisms through the collection and processing of data, including those from field IoT sensors.



What do you need ?
A monitoring System.
Itaca has the right solution for you: Eco-Logger is the customized hardware and software solution, specifically designed to meet your needs.

Example of data Sources



I Eco-Logger provide you with Energy Data



WHAT ARE THESE DATA USED FOR AND WHO BENEFITS FROM THEM?

Some Examples of Benefits

NON-ENERGY-INTENSIVE COMPANY

- Carry out an accurate breakdown of energy consumption by type of use and cost center, facilitating the Energy Analysis process.
- Identify potential waste or possible faults and malfunctions (including through the analysis of network quality in instruments, such as power factor, vector meter, harmonics...).
- Have access to data useful for the accurate sizing of potential interventions aimed at reducing consumption.

ENERGY-INTENSIVE COMPANY

- Reduction of System Charges on the Invoice (ASOS).
- Monitoring of energy flows for the purpose of mandatory Energy Audit in compliance with Legislative Decree 102/14.
- Compliance with ISO 50001 systems.
- Generate the necessary savings reports to benefit from incentive mechanisms (e.g., White Certificates - TEE).
- Draft a business plan for new investments.
- Calculate a General Performance Index (GPI).
- Calculate Area Performance Index (API).
- Predictive analysis of energy consumption

COMPANY 5.0

- Perform an accurate breakdown of energy consumption by type of use and cost center, facilitating the Energy Analysis required for mandatory Energy Audit in compliance with Legislative Decree 102/14 or for Energy Management according to **ISO 50001** standards.
- Continuously monitor the company's energy performance (Energy Performance Indices - IPE) in accordance with **ISO 50001 standards**.
- Evaluation of energy consumption reduction of the production facility in Italy **> 3%**.
- Evaluation of the reduction in the processes affected by the intervention **> 5%**.

COMPANIES WITH EXCISE DUTY EXEMPTION

To obtain the benefits you have:

- Obligation to measure energy, taxed/non-taxed.
- Obligation to collect and store consumption data.

BENEFITS OF ENERGY MONITORING

Carry out an accurate breakdown of energy consumption by type of use and cost center, facilitating the Energy Analysis required for compliance with the mandatory Energy Audit under Legislative Decree 102/14 or for energy management according to ISO 50001 standards.

Identify potential waste or possible faults and malfunctions (including through the analysis of network quality in the instruments, such as power factor, vector meter, harmonics...).

Detect design errors in electrical systems.

Identify potential opportunities for improving energy efficiency or reducing energy consumption.

Continuously monitor the company's energy performance in accordance with the ISO 50001 standard.

Predictive analysis of energy consumption and Energy Performance Indicators (EPI) for corrective and preventive actions.



Have data available for the proper sizing of potential interventions aimed at reducing consumption.

Verify energy savings following the implementation of specific interventions.

Generate savings reports necessary to benefit from incentive mechanisms (e.g., **TEE = Energy Efficiency Certificates**).

Based on the available data, develop a business plan for new investments.

Creation of EnPi and KPI to evaluate the energy costs of a specific production and determine the final product cost.

ROI Calculation: calculating the economic impact of energy efficiency interventions is essential to understand the payback period, allowing future interventions to be planned for maximum return.

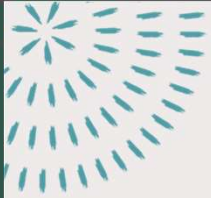
Greenhouse Gas (GHG) Emissions Calculation

Historical data storage

Your company is important; always reach out to someone truly experienced who, with your help, can take care of it, helping it grow and develop in a healthy and strong way. Itaca has been operating for over 30 years in various sectors of industrial automation, and we place our expertise in your hands.

Thank you for your attention!





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