

Optimize production and **save up to 20%** on your energy costs



**Fast installation, flexible payment,
Wittmann quality guarantee**

The Importance of Energy Savings: How to Reduce Costs and Increase Competitiveness

In today's industrial landscape, energy is one of the most significant cost factors for manufacturing companies. Undetected energy waste can erode profit margins and reduce competitiveness. Businesses need a powerful tool to monitor and analyze their energy consumption in detail and embrace energy sustainability.

4 Reasons Why Energy Savings Can Help Your Business

01.

Awareness

Understanding and monitoring energy flows within your company is the first step toward any improvement.

02.

Identifying Inefficiencies

Real-time monitoring through an EMS (Energy Management System) immediately detects consumption anomalies (such as power peaks) or energy waste in machinery and processes, allowing for immediate action (e.g., checking standby machine consumption or detecting leaks in the pneumatic distribution system).

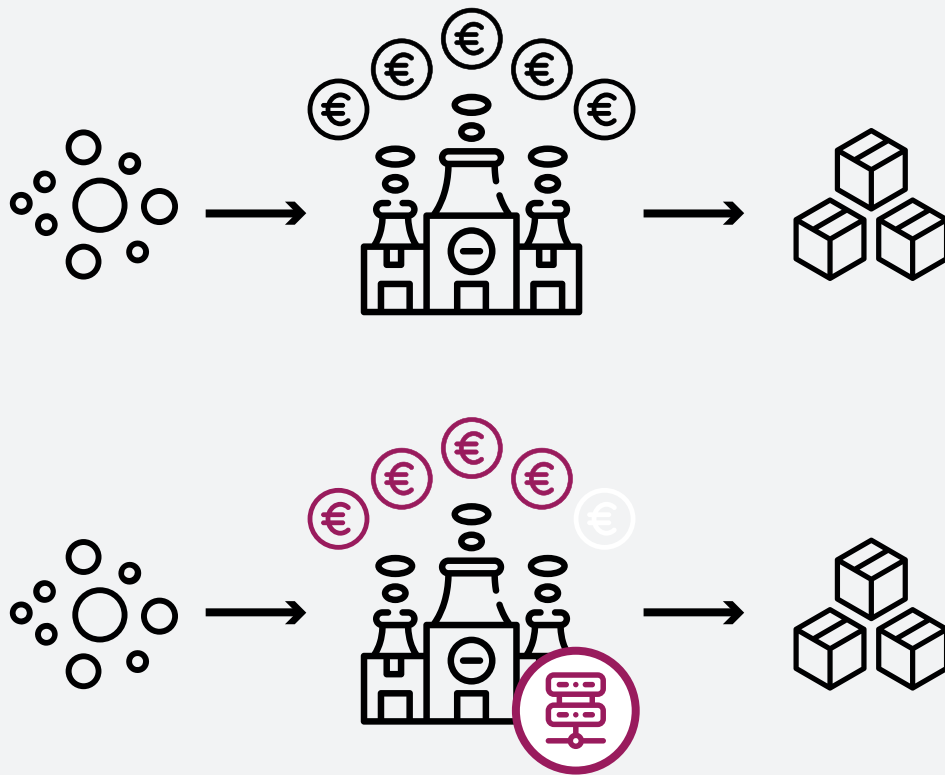
03.

Analyzing Historical Data and Implementing Targeted Actions

Collecting and analyzing data over time helps identify consumption trends and areas for improvement. These insights are essential for guiding future investments and structuring a solid ESG (Environmental, Social, Governance) process.

04. Increasing Profitability with the Same Revenue

When energy is considered a key component of production costs, it becomes evident that reducing its usage while maintaining the same output will lead to higher operating margins. However, understanding where energy is used is not always intuitive: while production waste is easy to spot, unnoticed energy consumption—such as a machine left on—can be just as costly, despite its hidden nature.



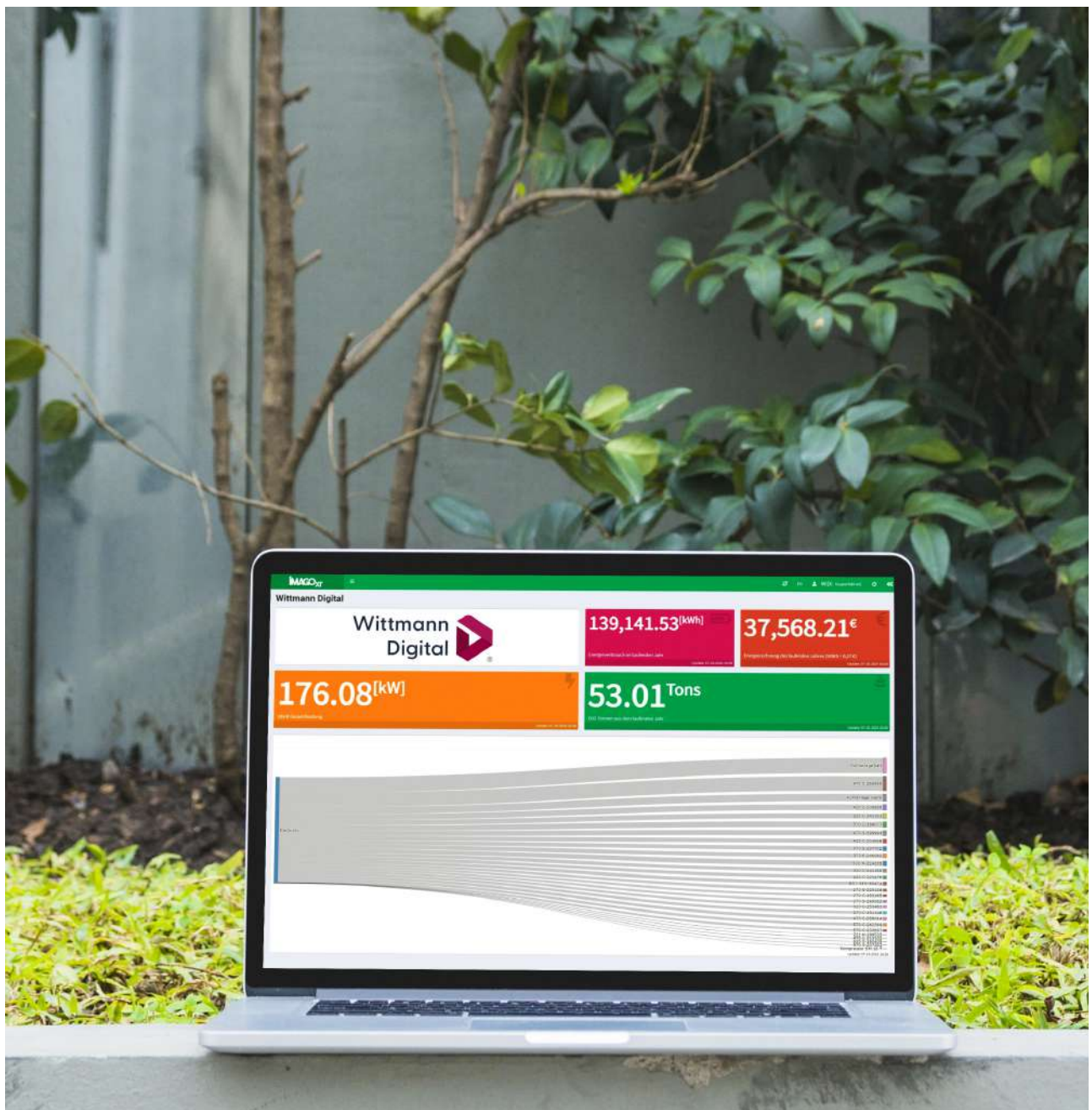
Thanks to these features, companies can achieve **up to 20% annual energy cost savings**. Beyond direct economic benefits, these solutions promote greater business awareness, closely aligned with ESG principles. This not only improves corporate governance but also enhances a company's reputation and its products, **generating long-term advantages**.

So, what needs to be done next...?

iMAGOxt: The Solution

Complete Management of Primary Energy Sources and Environmental Resources

iMAGOxt is an advanced EMS (Energy Monitoring System) designed to optimize energy, water, and gas consumption, helping businesses reduce costs and waste. With its intuitive interface and easy-to-install sensors, iMAGOxt provides continuous, real-time monitoring, making it effortless to identify inefficiencies and improvement opportunities.





What iMAGOxt Does

01.

Monitoring Electrical Consumption

Energy costs are a significant expense for any business, particularly power (kW) and energy (kWh) consumption. With its advanced range of sensors, iMAGOxt accurately measures and tracks electrical usage, providing greater awareness and control over energy resources.

02.

Monitoring Natural Gas Consumption

iMAGOxt tracks natural gas consumption and delivers real-time data to the dashboard. The system also provides personalized recommendations to reduce gas bills and improve overall energy efficiency.

03.

Monitoring Compressed Air

iMAGOxt monitors airflow within compressed air systems, detects operating times, and measures the energy consumption of compressors. Instant notifications alert users of any anomalies, allowing businesses to quickly identify inefficiencies and optimize air usage.

04.

Monitoring Water Consumption

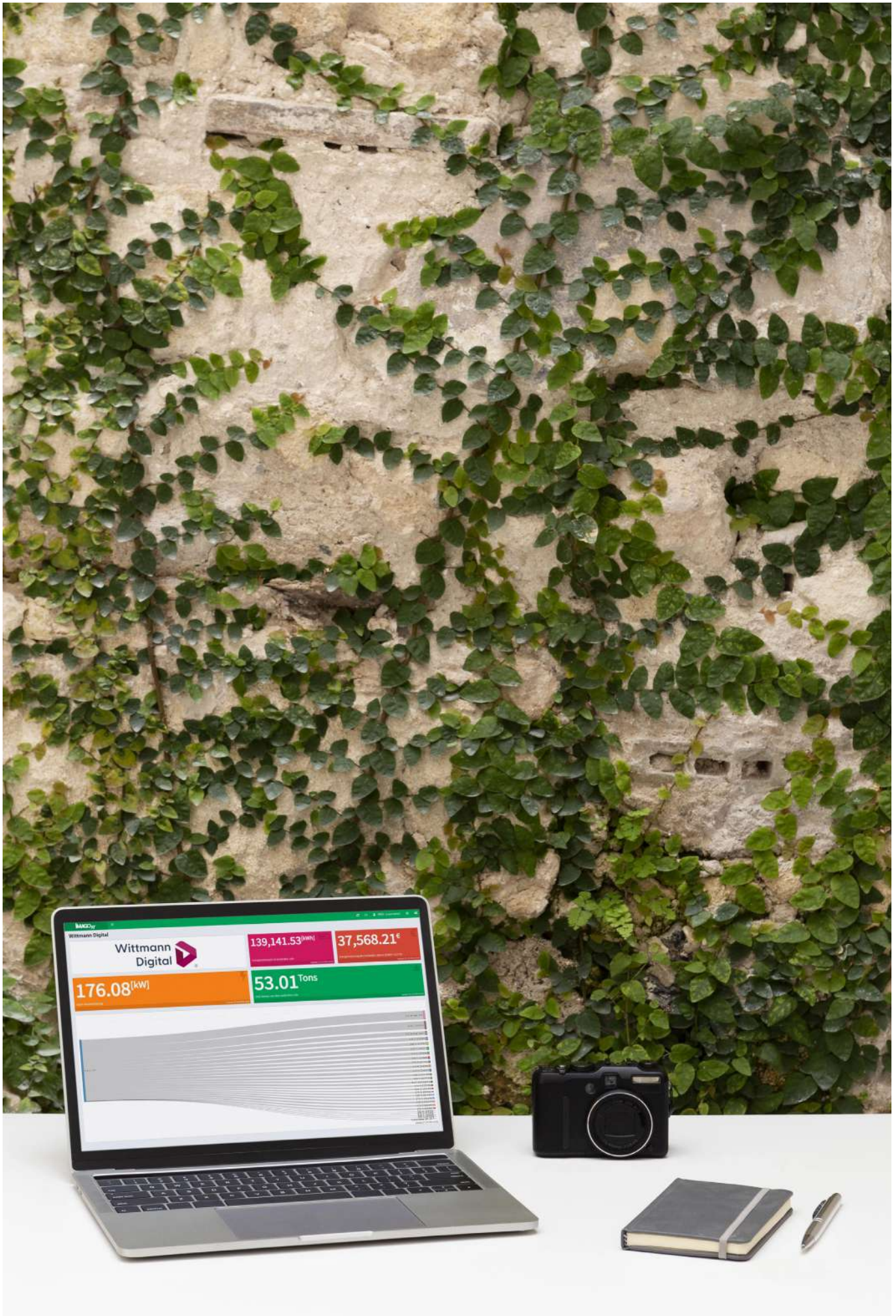
iMAGOxt tracks water usage, detects leaks, and suggests opportunities for savings. This continuous water consumption control helps businesses reduce waste and improve sustainability.

05.

Monitoring Temperature and Humidity

With temperature and humidity sensors, iMAGOxt ensures constant monitoring of these critical parameters, maintaining optimal production conditions and enhancing process quality.

...And Much More!



Features

01.

Plug & Play Hardware

iMAGOxt's energy monitoring sensors can be purchased directly from the standard catalog. Additional sensors for water, air, or thermal energy monitoring are available upon request. Moreover, iMAGOxt integrates seamlessly with existing field sensors, supporting connectivity protocols such as Modbus, OPC-UA, or pulse signals, using dedicated signal transformers. This flexibility ensures quick and easy installation, enabling businesses to become fully operational in no time.

02.

Smart Software

iMAGOxt transmits real-time consumption data every few seconds to the cloud database, providing continuous and precise monitoring. Additionally, it can store historical data every 15 minutes. With advanced algorithms, the system detects consumption anomalies and system losses, allowing for immediate intervention.

03.

Automatic Reports & Alerts

iMAGOxt instantly notifies companies when predefined limits are exceeded or potential energy losses occur. Regular reports offer a comprehensive overview of energy, water, and gas consumption, simplifying cost management and promoting savings and awareness.

04.

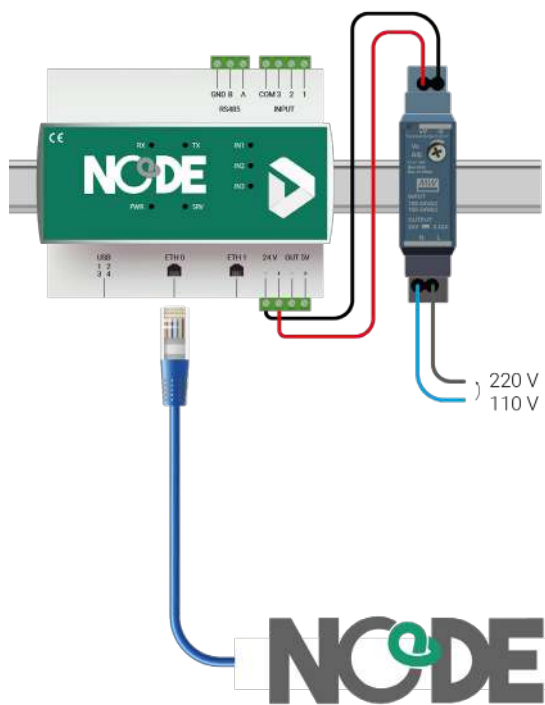
Energy Consulting & Incentives

Our team of energy consultants, including Certified Energy Management Experts (EGE), ESCo professionals, and highly skilled engineers, provides comprehensive and customized consulting services. Beyond identifying energy-saving opportunities, our specialists assist and guide you step by step through the process and help you maximize financial benefits for your business.



What You Need to Get Started

To start using iMAGOxt in your company, a few essential components must be installed to ensure efficient and complete data collection. Here's what you need to get started:

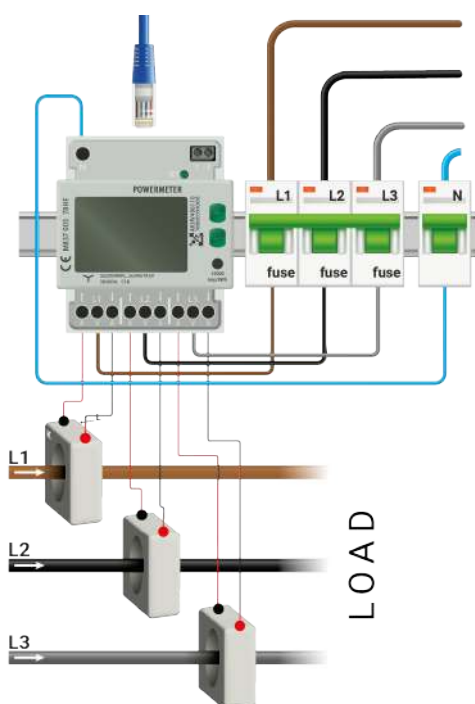


NODE: The System Gateway

The NODE is the central gateway that collects data from various measuring instruments and transmits it to the iMAGOxt cloud platform. It is a fanless computer or a DIN rail module connected to the company's data network, which can be easily installed in the server room or near IT equipment to facilitate Modbus RTU connections.

Installation Requirements:

- Must be installed by a professional electrician or a properly trained technician.
- If needed, Wittmann Digital can provide expert support during this phase.



Power Meter: the Power Meter measures electrical consumption. For three-phase installations, it should be placed near current sensors and connected to the company's LAN network.

Installation Considerations:

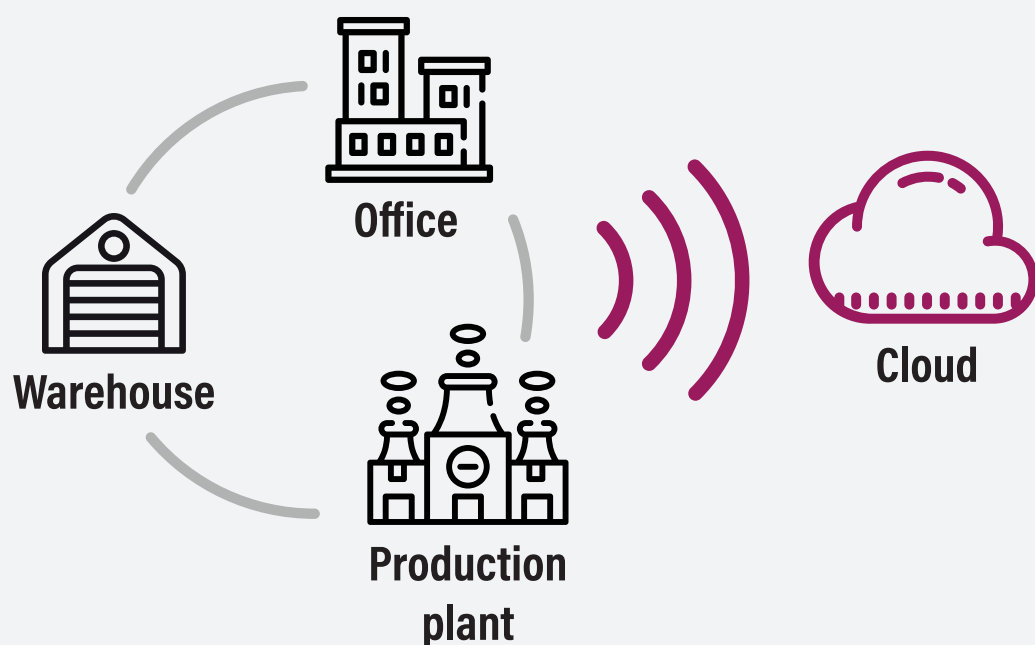
- Current sensors are placed around each phase cable (L1, L2, L3) to measure amperage (A).
- A precise power and energy measurement requires voltage reference connections (V1, V2, V3) for each phase.
- Depending on the Power Meter model, a Neutral connection may also be required

Sensors: strategically placing additional sensors throughout the facility—offices, warehouses, and production areas—is crucial for detailed monitoring of: Electricity consumption, Gas usage, Compressed air system efficiency, Water consumption, Environmental parameters (temperature and humidity). Compliance: some sensors are MID-certified to comply with fiscal measurement regulations.

Data Network: A stable data network is necessary to collect data packets from the measurement devices. Connectivity Options: All meters come with LAN connectivity or protocol converters for seamless communication. A wired connection is recommended for reliability. Wi-Fi connections are possible, but the client must ensure network stability to prevent monitoring gaps. By integrating these components, your company can efficiently implement iMAGOxt, optimize energy consumption, and drive significant cost savings.

HOW IT WORKS

These components work together to ensure continuous monitoring and real-time data transmission to the cloud platform, where iMAGOxt processes them to provide a comprehensive view of the plant's energy performance.



Getting Started in 10 Steps

01.

Sign the Agreement

Confirm your purchase by signing the agreement.

02.

Assign a Project Manager

Appoint a Project Manager (IT, Production, or Energy Manager) who will oversee the implementation and share their name and business contact details with Wittmann Digital.

03.

Submit the Configuration File

Within 2 days of signing the agreement, Wittmann Digital will send you an Excel file to fill out. The responsible person must provide details for each machine, including:

- Plant Name
- Department
- Machine or System Name
- Machine Power (as indicated on the nameplate)
- IP Address & Network Details (provided by the IT Manager)

04.

Check the Network Connection

Ensure that each power meter can be connected to a dedicated Ethernet connection with access to the company network.

05.

Receive the Components

Once the configuration file is submitted, Wittmann Digital will ship the necessary hardware components within 2 weeks (subject to availability).

06.

Activate the "Node"

The IT Manager must power on and connect the Node device to the company network and contact Wittmann Digital for confirmation, following the details in the provided Excel file.

07.

Install the Sensors

A trained technician from your company or Wittmann Digital will install the sensors while the machines are turned off.

- Installation time: 30-60 minutes per machine
- Once completed, the technician must schedule a verification appointment with Wittmann Digital.

08.

Receive Your Credentials

After the initial configuration, Wittmann Digital will send your login credentials to access the system.

09.

Start Using the Software

You are now ready to monitor your machines using iMAGOxt

10.

Optional: Energy Consulting

If needed, Wittmann Digital consultants can assist you in optimizing your machines' energy performance through tailored advisory services.



Case Study

Pozzi Arturo Tessitura S.p.A.

How an Italian Company Saved Almost 300.000€

Pozzi Arturo Tessitura S.p.A. is an Italian textile company with over 60 years of experience. With a 30,000 m² plant and an energy-intensive production process, the company has always focused on innovation and efficiency to maintain its competitiveness.

The Challenge

With rising energy costs, it was essential to identify waste and optimize consumption. However, without clear data, any intervention would pose a risk.

The Intervention

The installation of iMAGOxt enabled real-time consumption mapping, revealing that industrial fans were constantly operating at full capacity, even when not necessary.

With this information, the company decided to invest €34,000 in improving the efficiency of the ventilation system by installing inverters to optimize energy use.



The Numbers of Success: Overview



Energy Saved (2019 - 2025)

Total

1.629.235 kWh

Monthly

22.628 kWh



Economic Savings

Total

276.970 EUR

Monthly

3.847 EUR

Environmental Impact



CO2 Emissions Avoided

491.204 kg over 6 years



Equivalent to

3.000 trees planted



ROI: +522%

For every €1 invested, the company saved €6.2

Investimento Mensal em Monitoramento

To ensure maximum control over energy consumption, Pozzi Arturo Tessitura S.p.A. invested €618 per month, allocated as follows:

- 10 Power Meters → €240 (€24 each)
- Connection Node → €28
- iMAGOxt License → €100
- Energy Consulting → €250

This strategic investment enabled the company to identify hidden inefficiencies and turn them into measurable economic benefits.

