

# Energy Management

Maximum energy efficiency  
for your business



Saving  
energy





# Highly efficient solutions to make your kiln more efficient and sustainable



The international scenario is facing a profound transformation of the economic system in terms of energy, and **energy management** is a key point in the context of **emission reduction and sustainability** policies.

Faced with rising energy costs, companies have realised the importance of adopting a different, more effective **approach to energy management**.

Energy efficiency is an extremely important factor for Incomac. Therefore, we take an active part in the energy transition through our advice and experience, which translate into a systematic approach of analysing, monitoring and managing every aspect of the company's **energy improvement**.



This type of energy management sets specific goals and, at the same time, meets a growing need for **environmental sustainability and reduction of CO<sub>2</sub> emissions**.

Our role as Energy Manager is not only limited to the objective of energy saving, but is aimed at **effective all-round kiln management**.

We are able to propose the best solution thanks to a thorough analysis of the customer's needs, combined with more than 45 years' experience in the field of drying, taking into consideration first of all:



**Available  
energy  
source**



**Product to  
be dried**

# Environmental sustainability and reduction of CO<sub>2</sub> emissions

Choose Incomac as your Energy Manager

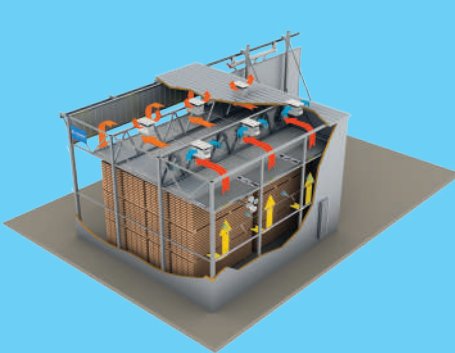




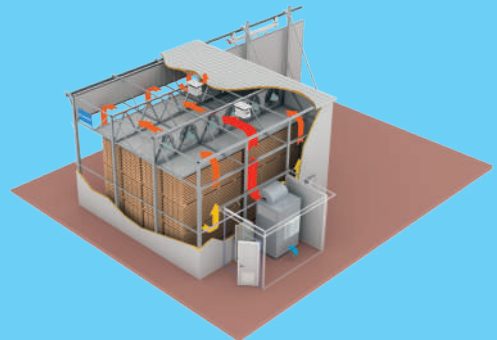
## Incomac Consulting in Energy Management

# Conventional or condensation drying?

In the treatment of the product, the type of product itself is important, but it is not the only variable we consider when making the offer. We carefully evaluate every detail to ensure **maximum energy savings** and, in parallel, through the use of our **INCOMATH** software, we are able to identify the **most suitable kiln solution for the customer's needs**.



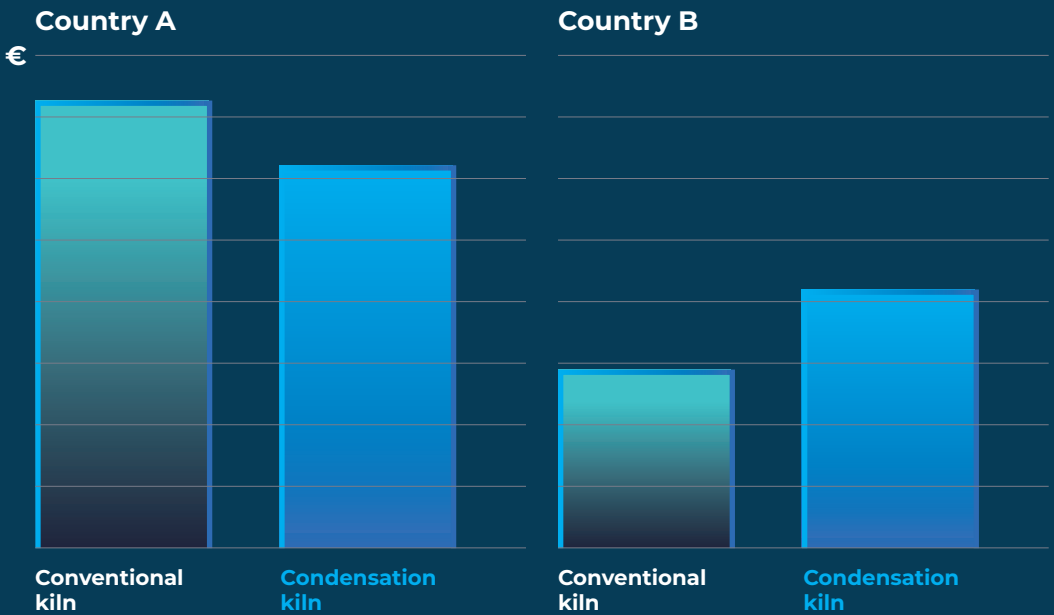
Conventional kiln



Condensation kiln



Let us now take, as an example, a comparison between two kilns of different drying types applied to two customers in two different countries with the same need.



### Energy cost comparison in two different countries\*

The condensation kiln, powered by electricity, is cheaper in country A, but not in country B, where the conventional kiln powered by heat carrier provides greater savings. This highlights the extreme importance of the energy cost variable in the identification and design of the kiln we offer the customer.

\* Graphical representation based on data from real customers, applied to the average costs of electricity and a heat carrier.

# Basic or accessorized system?

Investment in a new kiln is a choice that must be carefully considered. There are, however, **several factors to be taken into account** and which affect, above all, the medium to long term. A smaller investment in the short term does not always turn out to be the best solution. Let us analyse a specific case.

Let us look at the same kiln, whether or not it is equipped with accessories that increase **performance and savings**. We therefore present here two different situations:

- **Basic kiln, not equipped**
- **Kiln equipped with heat recovery and control system with dedicated STOP&GO software**



**Basic kiln**

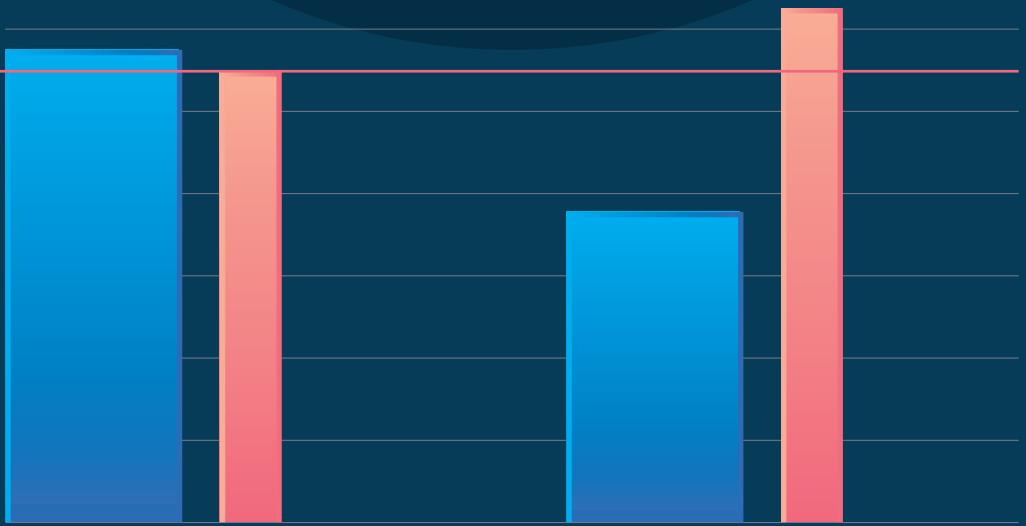


**Accessorized kiln**





€



**Basic kiln**

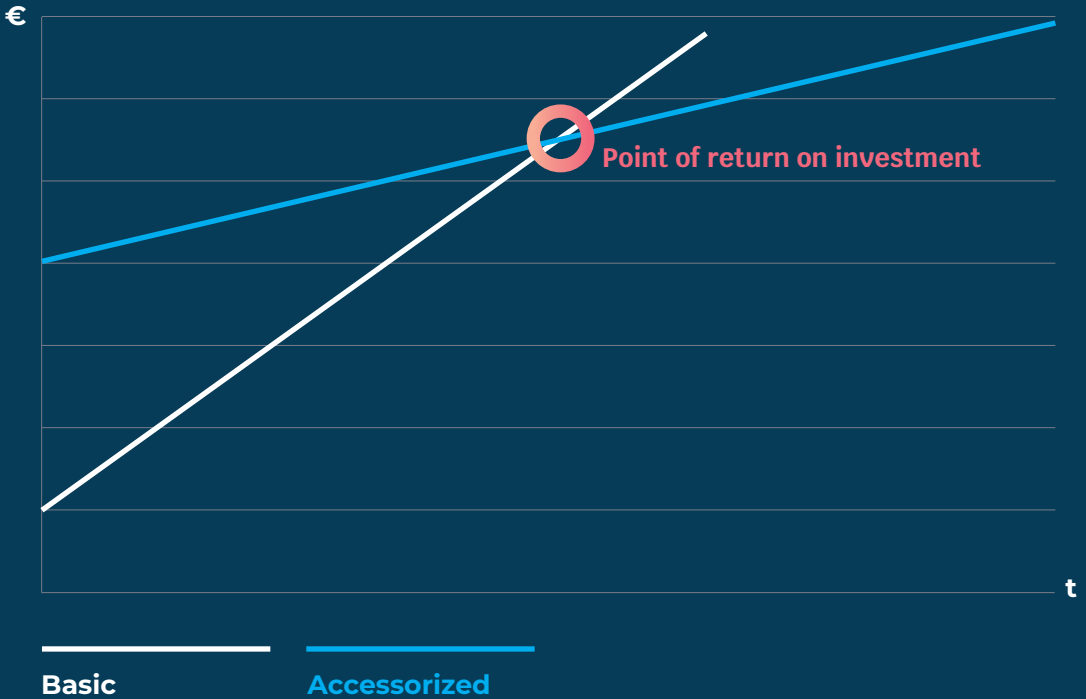
**Accessorized kiln**

Variable cost

Investment

Let's look at how the accessorized kiln, for a higher initial investment, has lower variable costs. Consequently, the cycle cost of an accessorized kiln is significantly lower than the cycle cost of a basic kiln.

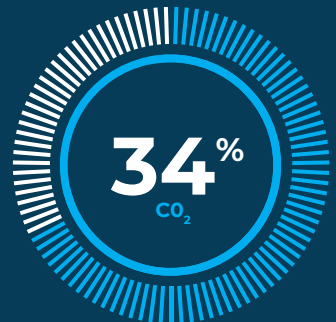
# Profitability index: ROI Calculation



Equipping the kiln with dedicated accessories also allows a **greater reduction in pollutant emissions**. This reduction increases progressively based on the type of equipment.

In the case of a kiln equipped with both heat recovery system and STOP&GO software, **CO<sub>2</sub> savings of up to 34% (= up to 290 tonnes/year)** more can be achieved compared to a basic kiln without accessories.

- > **Basic kiln, not equipped**
- > **Kiln equipped with heat recovery and control system with dedicated STOP&GO software**



# SAVING ENERGY

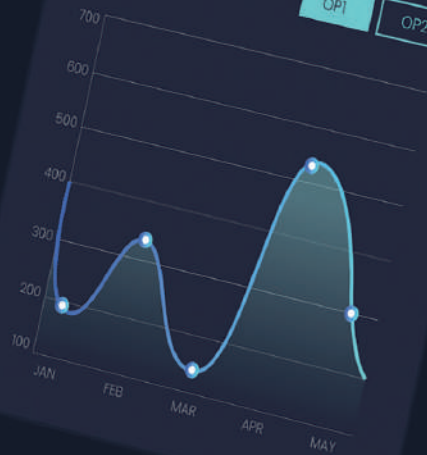
**Incomac**  
Future Drying Systems



450

OP1

OP2



# Energy Management? Let us take care of it.

Investments in new equipment and auxiliary components contribute to lower consumption, but are not always necessary.

Through the use of **specific Energy Management techniques** Incomac is able to conduct an **in-depth analysis of consumption data**, guaranteeing important energy saving percentages even on your existing kiln.



**Incomac's Energy Management method can be summarized in 4 steps:**



We collect data on energy consumption and kiln utilization



We analyse and measure the existing energy situation through EnPIs



We carry out energy efficiency measures



We monitor results with a view to continuous improvement and optimization

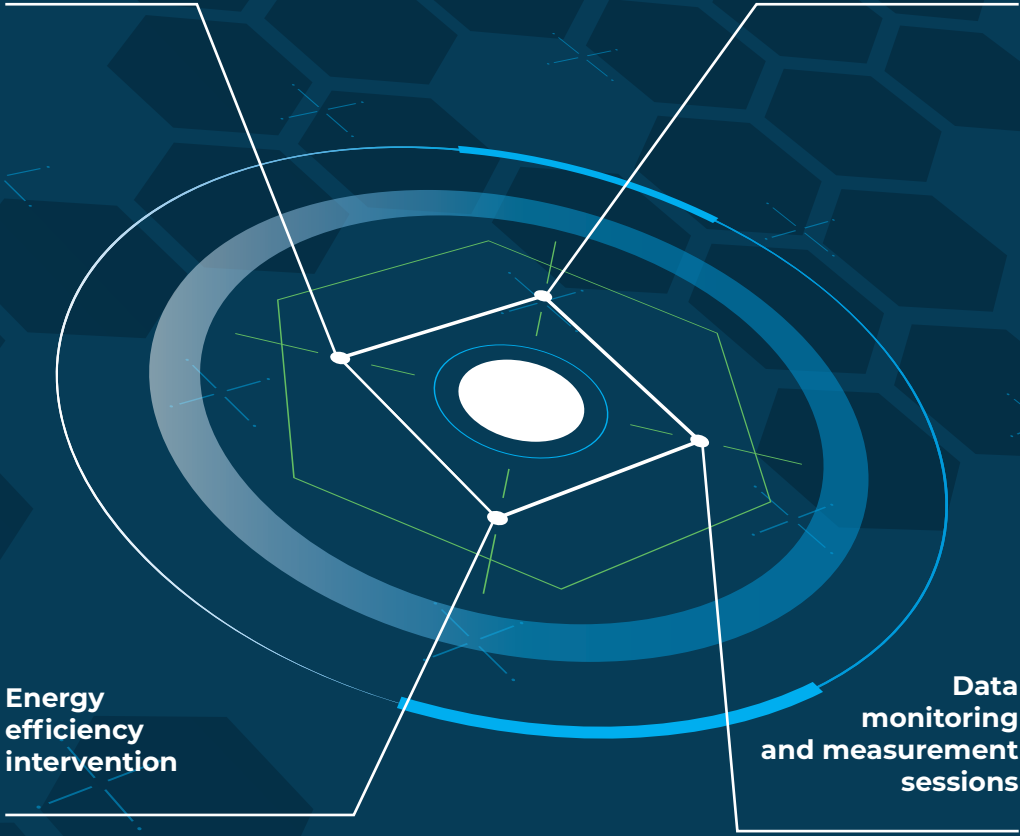
We apply our instrumentation to **measure thermal and electrical energy** and, following a period of measurement and analysis, provide a representative cycle with **measurable benchmarks**.

**Data collection**

**Data analysis and energy diagnosis through EnPI**

**Energy efficiency intervention**

**Data monitoring and measurement sessions**



# A highly customized service

Thanks to our R&D department, we can offer a **tailor-made** package of solutions to meet the customer's needs in a comprehensive manner.

In parallel to analysing the customer's requirements, we also take into consideration the climatic context in which the product is processed in order to be able to guarantee the **best service**, always with a focus on **sustainability** and **process optimization**.

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## By your side. All over the world.





**Kilns in  
95 countries**



**Kilns installed  
+10.000**

**INCOMAC S.r.l.**

Via G. Ferraris, 50  
31044 Montebelluna (TV) – Italy

VAT nr. IT00436620264

**P** + 39 0423 21646

**@** [info@incomac.com](mailto:info@incomac.com)

**W** [incomac.com](http://incomac.com)