

Strong Start to 2024 with Key Projects in Cement and High-Temperature Industries

We've had a very strong start to the year, thanks largely to significant advancements in the [cement industry](#) and [high-temperature project](#) areas.

2024 kicked off with a key order from [Heidelberg Materials](#) for an SD-type cyclone system designed to replace the outdated gravel filter at Lixhe **cement** plant in **Belgium**. This new system comprises 10 heavy-duty cyclones (pictured), each lined internally to cope with highly abrasive clinker dust, and is engineered to handle a flow rate of nearly 300,000m³/h at temperatures of 200°C. The system's installation is scheduled for the end of 2024. Having previously collaborated with the Heidelberg group in **Hungary**, we are honored to continue our partnership with such a respected entity.

In the realm of [pyrolysis and gasification](#), our high-efficiency cyclones are gaining increased interest. [WTenergy](#), a long-standing ACS client based in **Spain**, has ordered two more cyclones for their Atemax **Meat and Bones gasification** project. These systems are crucial for cleaning syngas at 700°C and managing post-combustion processes at 500°C.

Our involvement with **methane pyrolysis** is also gaining momentum. Methane pyrolysis is a process where methane is thermally decomposed at high temperature in the absence of oxygen. This process splits methane into clean hydrogen and solid carbon, which has potential uses across various industries as a way to offset emissions. [Modern Hydrogen](#) is at the forefront of this technology, utilizing our high-efficiency cyclones for solid carbon capture. Their pioneering approach, combined with ACS advanced cyclone technology, is setting new benchmarks in the clean energy landscape by effectively reducing CO₂ emissions.

For [Biomass Combustion](#), we have secured an important order from boiler manufacturer [Fournier](#) in **Canada**, Quebec. We are supplying a Hurricane RE cyclone system for a 4.5MWth biomass boiler designed to meet local emission standards. This project represents an alternative to traditional ESPs for a fraction of the price and highlights our technology as the best available in this market of small to medium size boilers.

Our work in biomass combustion also thrives in **Indonesia** with [PT Basuki](#), where ACS is setting up a Hurricane EX type system for a 10-ton boiler that will burn either rice husk or palm shell.

We are also excited to announce the expansion of our collaboration with [Coomtech](#), a company at the cutting edge of drying technology. Coomtech has perfected a kinetic drying method that intensively yet efficiently extracts water from various materials using dynamic energy application in so called drying cartridges. This method significantly outperforms traditional drying techniques in both efficacy and energy consumption. The dried material is then separated using ACS cyclones. By adding two more cyclones to their operations in the **UK**, we are enhancing our collaborative efforts.

We are grateful for the trust these clients and partners have placed in us and are eager to continue working alongside them to build a more sustainable future.

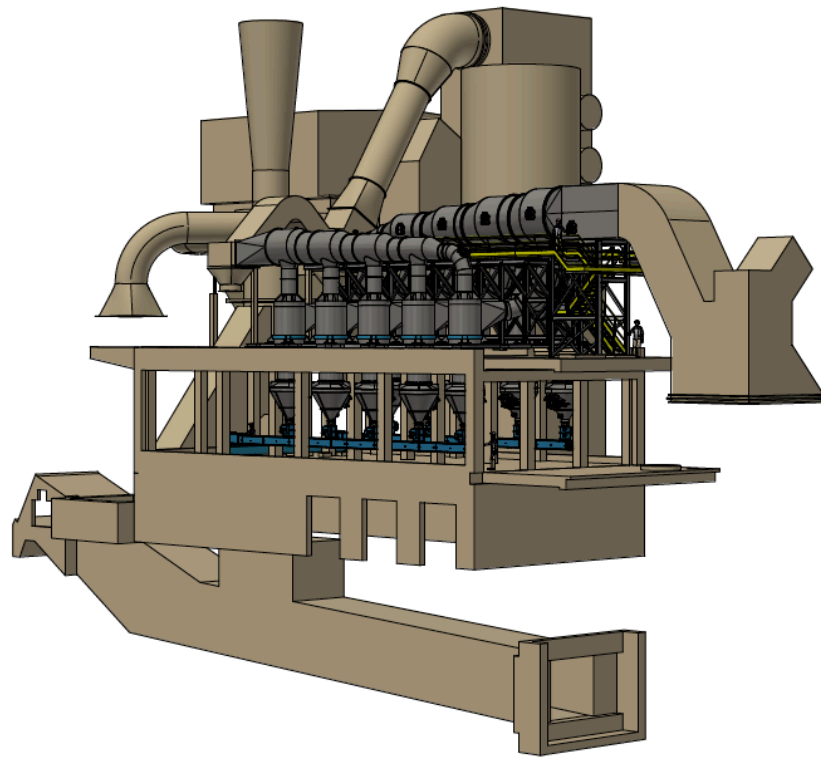
We hope to see you soon in our next coming events show below!

All the best,



Pedro Ribas Araújo CEO

Ongoing Projects



Heidelberg Cement ordered a Hurricane Cyclone system (10HR_SD₂₄ xø1550mm) to replace the gravel filter from the clinker cooler.

Heidelberg Materials | Lixhe, Belgium | 2024



WtEnergy ordered two Hurricane Cyclone systems (1HRbH₂₄ x ø2200mm + 1AT₂₄ x ø2200mm) to reduce particulate matter emissions from mbm gasification off gases.

WtEnergy | France | 2024



Coomtech ordered two Hurricane Cyclone System (1HRbH₂₄ x ø600mm + 1HRbH₂₄ x ø650mm) to use as pre-separator to a final bag filter, on the drying of PFA or sand.

Coomtech | London, UK | 2024

Upcoming Events

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May 13–17, 2024
Messe München

[Learn more](#)

IFAT
Munich

ACHEMA 2024

10 – 14 June 2024
Frankfurt am Main, Germany

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