



Make up for lost time and exceed expectations in 2021!

2021 started strong for ACS, despite the severe lockdowns across Europe, with our involvement in multiple projects in diverse countries and application areas.

For **biomass combustion** ACS secured projects for regular boiler partners in Portugal ([Norbidel](#)) and South Africa ([AES – Associated Energy Services](#)). In France a MK type cyclone system will be delivered to [Le Bihan](#) to secure emissions under 30mg/Nm³ @ 11% O₂.

A first cyclone was ordered by [Osprey Corporation](#) in the USA for a drum dryer self and in the **biomass drying application** a project for a system of 4 cyclones is being fulfilled for [Sidesup](#) in France. With such an equipment, [Sidesup](#) will avoid using a WESP to reduce wood and alfafa fines escaping the dryer cyclones under 50mg/Nm³.

In the high temperature application where ACS has been increasingly involved, a first system is being supplied for [ZEG](#) in Brazil for gas cleaning and active carbon powder recovery in a gasification process with the objective of sequestering CO₂ and avoiding its release to the atmosphere.

Finally, for Spanish company [Magna - Magnesitas Navarras, S.A.](#), ACS was awarded the cyclone for the new Petroleum Coke grinding line, to be installed later in 2021. The cyclone is designed for **Product Recovery** in the pneumatic conveying line which is in closed circuit with the grinder.

The powder recovery area has also shown good dynamics with repeated pharmaceutical projects for [Hovione](#) and [Mannkind](#) corporation, and a first order secured for [Lonza](#) - a leading global provider of integrated healthcare solutions. In the food ingredients application, we started a new project with [TGE](#), a French company specialized in evaporation, crystallization and drying.

We feel confident that many new projects will arise throughout the year and we will do our best to **keep exceeding our client's expectations!**



Pedro Ribas Araújo CEO

A handwritten signature in black ink, appearing to read "Pedro Ribas".

Projects



arauco

Hurricane HR cyclone systems (80HR x Ø1000mm) to reduce particulate matter from a 170t/h biomass boiler in Puerto Piray.

[ARAUCO | Puerto Piray, Argentina | 2020](#)

T.g.e

Hurricane TX cyclone systems (1TX x ø1700mm) optimized for a dairy powder capture in a spray drying operation.

[TGE | Mercillé-Robert, France | 2021](#)



Hurricane HR_OPT cyclone system (1HR_OPT ø524mm) to be installed at a drum dryer self - cleaning system to remove the dust from the soft disposable / hygiene industry.

[OSPREY Corporation | Atlanta, USA | 2021](#)



Hurricane AT cyclone systems (1AT x ø1800mm) to separate dust particles from fumes coming out of a regenerator of activated carbon (before post-combustion).

[John Cockerill Environment | Feluy, Belgium | 2021](#)



Hurricane HR cyclone system (2HR x ø750mm) for emissions control after a biomass boiler.

[Norbidel | Portugal | 2021](#)



Hurricane MK cyclone system (2MK x ø350mm) for emissions control after a biomass boiler.

[LE BIHAN | Metamorfoosi, Greece | 2021](#)



Hurricane RE cyclone system (1RE x ø1100mm) optimized to reduce particulate matter after gaseification process.

ZEG | Brasil | 2021

mannkind

Hurricane MK cyclone systems (1MK x ø135) for product recovery on pharmaceutical spray dryer.

MannKind | Danbury, CT, USA | 2021



Hurricane HR_bH cyclone systems (12HR_bH x ø950) to reduce particulate matter emissions from 20ton/h wood dust boiler, after an existing pre-separator multicyclone.

AES | South Africa | 2021



Hurricane HR cyclone system (4HR x ø1800) to reduce particulate matter emissions from dryer.

SIDESUP | Engenville, France | 2021

LONZA

Hurricane MK cyclone systems (1MK x ø400) optimized to increase pharmaceutical powder recovery in a spray drying process.

LONZA | Oregon, USA | 2021



Hurricane AT cyclone systems (1AT x ø2700) for Product Recovery of petroleum coke powder on the pneumatic conveying line from the grinding mill.

MAGNA – Magnesitas Navarras | Zubiri, Spain | 2021



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