



2020 – OVERCOMING A TSUNAMI, NEW OPPORTUNITIES HAVE ARISEN

2020 has been a very atypical year for ACS, as for many other companies which rely greatly on investment decisions from clients. Nevertheless, several application areas remained strong and new opportunities have shown up which may offer interesting business developments for the future.

Biomass remains as the most important renewable energy source due to its availability. Temperature (in [combustion](#)) and high moisture (in [drying](#)) leads clients to search for ACS high efficiency cyclones to overcome operating problems. In such a difficult year, we were fortunate enough to have sold 12 different cyclone systems for Portugal, France, the UK, Canada, Brazil and Indonesia.

Moreover, within biomass we have been involved in a growing number of very **high temperature applications** involving [gasification, incineration and pyrolysis](#). Following a past successful Waste to Energy project for a gasification plant, ACS secured another order for [WTEnergy](#) for a plant in Switzerland from [Engie Group](#). More recently, the [John Cockerill Group](#) purchased a very high temperature, fully insulated cyclone to separate particles released by an activated carbon regenerator. ACS is also involved in the supply of cyclones for Value Added in MSW and RDF Incineration Plants – using efficient cyclones after the incinerator to reduce hazardous dust. Millions can be saved in landfill disposal costs with ash separation.

The **powder recovery** area keeps gaining traction and our cyclones are increasingly becoming a reference for very high efficiency collection, especially for high value products. Virus and bacteria are increasingly a worldwide concern. That will inevitably drive more powder manufacturers in pharma, food and fragrances to choose more aseptic solutions to separate 1st grade powders. Cyclones are by far the most easy-cleaning solution, but they need to be as efficient as possible.

In the **pharmaceutical** area, [Hovione Pharma](#) alone acquired ACS cyclones for 4 different projects and [Mannkind Corporation](#) repeated another cyclone following a very successful spray drying project in the past. For **food ingredients** we got our first order in Brazil for giant food company [Mondelēz](#) and in the **chemicals** application we secured several projects, among which Lithium Hydroxide recovery for [NTE Process](#) – Italian company specialized in bulk material handling and pneumatic conveying and tungsten carbide recovery for germa [Vettertec](#), both renowned suppliers and integrators in the drying industry.

Above all, we truly believe to have done our best to deliver value for our clients. That is the way to ensure we overcome difficult times like these.

Let's all make 2021 a great year!



Pedro Ribas Araújo CEO

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

Projects



EUROSERUM

Hurricane RE cyclone systems (4RE x Ø2900mm) for emissions control and powder recovery of demineralized whey powder (98 317m³/h at 70°C).

[Euroserum | Quimper, France | 2020](#)

Hovione

Hurricane HR cyclone systems (1HR x ø125mm) to replace an existing cyclone and increase efficiency in powder recovery.

Hurricane HR cyclone systems (1HR x ø530mm) to increase efficiency powder recovery after spray dryer.

[Hovione | Lisbon, Portugal | 2020](#)

Hurricane HC cyclone systems (1HC x ø260mm) to increase efficiency powder recovery after spray dryer.

[Hovione | Lisbon, Portugal | 2020](#)

[Hovione | Lisbon, Portugal | 2020](#)

BASUKI

Hurricane MK cyclone system (2SD x ø1000 + 16MK x ø900mm) for reducing particulate matter from the flue gases of two palm shell BFB boilers.

[Basuki | Indonesia | 2020](#)

VetterTec A Moret Industries Company

Hurricane AT cyclone systems (1AT x ø1000mm) for tungsten carbide capture.

[Vettertec | Thuringia, Germany | 2020](#)



Hurricane RE cyclone system (1RE x ø1800mm) in ss316l optimized to increase lithium hydroxide recovery in a spray drying process.

[Noltec | Poland | 2020](#)



Hurricane AT cyclone system (4AT x ø650mm) to recover powder coating from a painting cabin.

[Alkan | Metamorfozi, Greece | 2020](#)



Hurricane HR cyclone system (8HR x ø850mm) optimized to reduce particulate matter from biomass boiler operating with a multicyclone.

[KMW | Montreal, Canada | 2020](#)



Hurricane AT cyclone system (8AT x ø1000) for pre-separation of particulate matter upstream a bag filter, at a meat and bone meal incineration plant .

[ITS ETSQ| Coruche, Portugal | 2020](#)



Five Hurricane AT cyclone systems (5units - 2AT x ø530) numerically optimized for powder capture of TANG drink downward of a dryer.

[Mondelēz | Curitiba, Brasil | 2020](#)



Hurricane MK cyclone systems (2 units 1MK x ø530) for product recovery on pharmaceutical spray dryer.

[Mankind | Danbury, CT, USA | 2020](#)



Hurricane AT cyclone systems (2AT x ø1000) for separation of particles from the exhaust of an olive pomace dryer.

[AZPO | Ferreira do Alentejo, Portugal | 2020](#)



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