

**Case Study No 20**

# STORING, FEEDING & MIXING OF POWDERED ACTIVATED CARBON ACTIVATED SLUDGE (PACAS) FOR WASTEWATER TREATMENT

<b>Description</b>	<p>This total turn key solution consists of a silo storage unit in which the product, (PAC) is stored and then dropped into a hopper. From here it is dosed into a vortex vessel/eductor which mixes the PAC into the water to create PACAS.</p> <p>This system complies with the EU Water Framework Directive (WFD), for the removal of poorly-dissolved or non-biodegradable organics in industrial, hospital or municipal wastewater.</p>
<b>Product</b>	<p>PACAS – Powdered activated carbon in activated sludge.</p>
<b>Requirements</b>	<p>100% dust free operation &amp; adhering to the EU Water Framework Directive (WFD).</p>
<b>Capacity</b>	<p>PACAS: 2x 7.5 to 24 kg per hour, 7 days a week.</p>
<b>Industry</b>	<p>Wastewater treatment for medicine removal. (PACAS); according to the EU Water Framework Directive (WFD).</p>
<b>Client</b>	<p>International company of water, energy and resource recovery for a Netherlands location.</p>



**Feeder > vortex vessel attached to a eductor**



Complete installation

### Advantages of working with Gericke

- Knowledge & experience in wastewater treatment for over 50 years.
- Reliable, high precision equipment.
- Adheres to industry directives, requirements and regulations.



### Gericke Technology

Complete installation includes:

- Silo, rotary valve HDM 200, 2x Gericke loss-in-weight feeders DIW-E50-207.2, Easydos Pro, 2x powder/liquid mixing and conveying systems.

**Gericke has also supplied installations as a turn key project which includes controls, big bag unloaders, silos, pneumatic conveying to final dosing point, static mixer and site assembly for wastewater and flue gas treatments.**

**Gericke Testing** These applications can be tested at one of our testing facilities worldwide.

**About Gericke** The Swiss Gericke Group has been designing and manufacturing equipment and systems for modern bulk material processes, as well as providing design and consultation services for more than 125 years. Gericke bulk materials processing technology can be found throughout the world in many sectors including the food, chemical, pharmaceutical, plastics and construction material industries.

Gericke's fully owned group companies employ more than 300 experienced professionals and are located in Switzerland, Germany, Great Britain, The Netherlands, Belgium, France, USA, Brazil, Singapore, Indonesia, Malaysia, Thailand and China.