WATER TREATMENT

Since 1980, **SOTRES Group** offers water recycling solutions, to limit the environmental impact as much as possible.

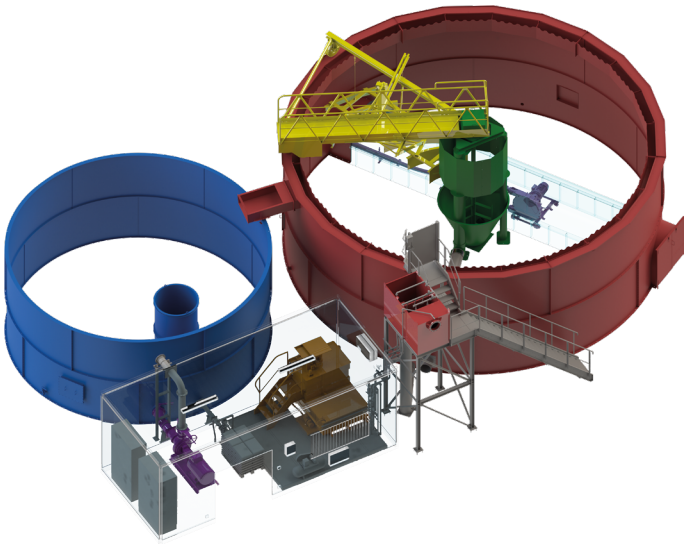
PURPOSE

Recycling dirty waters on real time by separating the clays from the wash water.
Reduce water withdrawals in the natural environment and limit space used for waste process waters.

SOLUTION

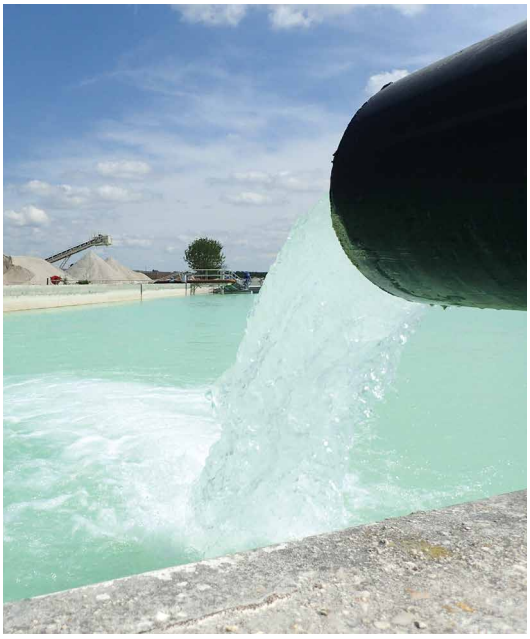
The method used is : Water recycling plant.

– The clarification of process water, by flocculation, which allows the formation of flocs and accelerates the decantation of fine particles.



- **Cylinder tank** and **supply box** : various diameters from **5,7 to 24 m** for an immediate reuse of recycled water. Up to **2000 m³/h** of **water input** could be treated.
- Volume of **clarified clear water tanks** adapted to the constraints of the site and allows the required storage of clarified water for an operation of the plant in closed circuit.
- **Tripod / Concentration cone** which concentrates the muds and then evacuates it. (Concentration +/- **500 g / l**).
- **Rotating platform and scraper unit** to bring mud to the center of the clarifier.
- Several types of **sludge pumps** (centrifugal, progressive pumps, peristatic pumps).
- **Flocculent preparation system** : Automatic preparation of the water-polymer mixture with a capacity of **600 to 6000 l** adapted to the flow of water to be treated. Several powder loading options (hopper with transfer screw, unloading type Big Bag).
- **Clarified water pump** for returning or redistributing clarified water throughout the washing plant.
- **Electrical cabinet and automatism :** to gear in self-control mode the different elements of the water treatment unit (historical follow up, parameters settings, disruptions control).
- **Technical premises :** prefabricated, concrete, container allows the protection of sensitive elements: flocculent preparatory, electrical cabinet, clarified and new water pumps, storage of flocculent.

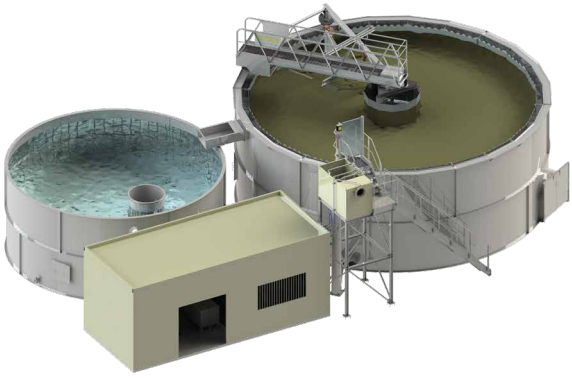
Clarifier.

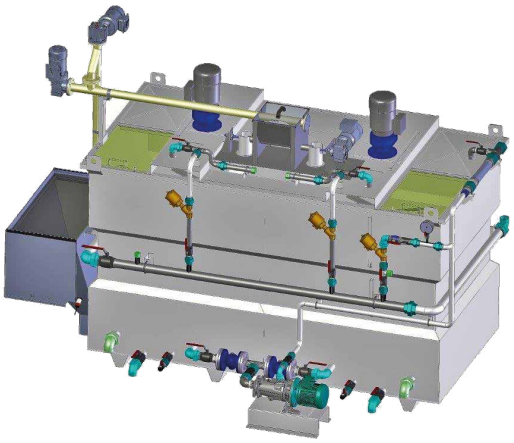


Clarified water storage.

STRONG ASSETS

- Fully modular design.
- Fully automated systems (flocculent injection control, electrical cabinet...)
- All systems are regulated to optimize polymer consumption and water loss.
- Less cumbersome than settling ponds.





Flocculent preparation system.

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