



**CIRCULAR
ECONOMY**

EFLUENT RECYCLING

Like in the human body, material and energy circulation in a cellulose based biorefinery is made in a complex piping network. Fluid is water and not blood, but in both cases, we can't waste it. MBBR waste-water treatment plants with membrane ultrafiltration technology, allows Altri kraft pulp mills not only to accomplish with environmental limits, but also start looking at waste-water recirculation.

Near zero suspended solids on WWTP filtrate is a good first step for recirculation, allowing us to keep our 2030 Altri target of water use at 10 m³/ADt.



Waste water in

Waste water out



altri



Altri



Portugal



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