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The shortage of potable water has become an environmental issue more and more pressing owing to the continuous growth in water demand not balanced by an adequate recharge. If we think the water use in power generation for boilers, cooling and cleaning purposes account for around 22% of global water consumption. Separation and recovery of water contained in the waste gaseous streams can be considered as a new water source, also simply pursuing the possibility that industry can close the own water cycle by capturing evaporated water, minimizing the make-up from external sources. In this work, an emerging technology, so-called membrane condenser for the selective removal of water from the evaporated industrial waste will be introduced. In this system, the feed (superal5st - (t)-5 (ur)-6 (a)-5 (l s)-85in