

**INNOVATIVE PILOT PROJECT FOR WATER RECYCLING FROM
WASTEWATER OF MILK COLLECTION STATIONS**

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ABSTRACT

Food processing industries, and especially dairy ones, consume significant amounts of fresh water, mainly for cleaning purposes, and produce large volumes of wastewater. This paper presents the results of a successful pilot application of a new approach for the tertiary wastewater treatment of the effluents of a milk collection station in order to recycle potable water and reduce the amount of wastewater. This approach includes three successive separation processes: filtration, ultrafiltration and reverse osmosis. In this sequence each process assures the good and the problem-free operation of the ensuing one. The results of the viability study of this type of investments are also presented.