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*A Comparison of Two Wastewater Treatment Plants: Stabilization ponds and Activated Sludge
with a Social perspective impacts.*

LCM. Towards Life Cycle Sustainability Management [POSTER]

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Abstract

This paper presents an environmental study and a social evaluation approach of two waste water treatment plants (Activated Sludge System, and Stabilization Ponds, designed for 15 l/s). The environmental and social assessment of these Waste Water Treatment Plants (WWTPs) has been realized by means of the Life Cycle Assessment (LCA) technique, in order to establish with a broad perspective and objective way the technology that provokes the lowest environmental load and to identify the technology which contributes to the social development, offering a wide vision for the decision makers. The results show that a greater number of environmental impacts are generated by the activated sludge; however, from a social approach the impacts associated with this technology have a better performance.