

Advanced in swine manure treatment in Europe and by product utilization. (A05-mtnezalmela125120-Oral)

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Abstract:

ADVANCED SWINE MANURE TREATMENT IN EUROPE AND BY PRODUCT UTILIZATION. As the practice of intensive production on confinement rises, there is an increasingly urgent need for efficient and affordable alternatives for handling nutrient by products and solving environmental problems on these intensive farms. This paper describes the progress that has been made over the last 5 years in management techniques and new technological alternatives for the treatment and appreciation of liquid stockbreeding by-products at 12 on-farm treatment plants in 3 different countries by means of the SELCO-Ecopurin technology. Effective solid-liquid separation is a key element in order to significantly improve management of liquid manure systems. Our technology is based on the ionic transfer by using polymers, in which fine particulates typical of liquid manures are flocculated. After chemical reaction, the solids were separated with screen, filter press and DAF reaching separation efficiencies of over 90% for suspended solids. This high recovery of solids, originally in colloid form makes the use of an advanced purification of the liquid a more economical alternative and increases the amount of materials available for the solids processing operation, which generates a flow of income.

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