

集约化猪场粪污处理工艺的研究(英文)

Technology of Swine Manure Treatment on Intensive Scaled Swine Farms

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英文关键词: swine manure treatment; solid-liquid separation; sedimentation; anaerobic digester; aerobic digester; pile fermentation

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中文摘要:

根据我国集约化猪场排粪方式和粪水的特性, 提出了采用人工清粪方式、固液分离机+沉淀+UASB+SBR+水生植物塘的污水处理工艺和猪粪(渣)堆沤发酵生产有机肥新的粪污处理工艺。经上海市嘉定种畜场污水处理工程实践证明: 在保证污水全面达标排放和猪粪(渣)无害化处理的前提下, 新工艺比常规工艺节约工程投资35%、节约运行电费65%左右, 经济效益好。

英文摘要:

In accordance with the characteristics of swine manure-discharging way and the property of swine wastewater on intensive scaled swine farms in China, a new technology of swine wastewater treatment and swine manure fermentation to produce organic fertilizer was presented. This technology includes cleaning manure by manpower, solid-liquid separator+sedimentation basin+Upper-flow Anaerobic Sewage Bed(UASB)+SBR+aquatic plant pond. The project practice of swine wastewater treatment in Shanghai Jiading Breeder Farm showed that the new technology could save 35% of the project investment, 65% of the operating electricity charges with good direct economic benefit, on condition of guaranteeing the prerequisites that the discharged swine wastewater reached the state standard all-sidedly and swine manure was pollutionlessly treated.

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