

MODERN TECHNOLOGIES OF NATURAL MANURE TREATMENT IN LIVESTOCK PRODUCTION*

Kamila Mazur¹
Kamil Roman¹
Kinga Borek¹

*¹⁾ Institute of Technology and Life Sciences, ul. Rakowiecka 32, 02-532 Warsaw,
Poland*

Abstract

Literature review was done about methods of reduction of ammonia emissions and GHG from livestock production. Many techniques require high investments costs by low reducing level of emissions. Among all known methods, the most effective is slurry cooling and decreasing slurry pH to obtain high ammonia emission reductions. When talking about GHG, anaerobic digestion and slurry separation are good solutions. Regarding sustainable development in agriculture production, not only environmental effects, but also economy is important.

Keywords: ammonia, GHG emissions, natural manure, slurry management, slurry separation, slurry cooling, anaerobic digestion