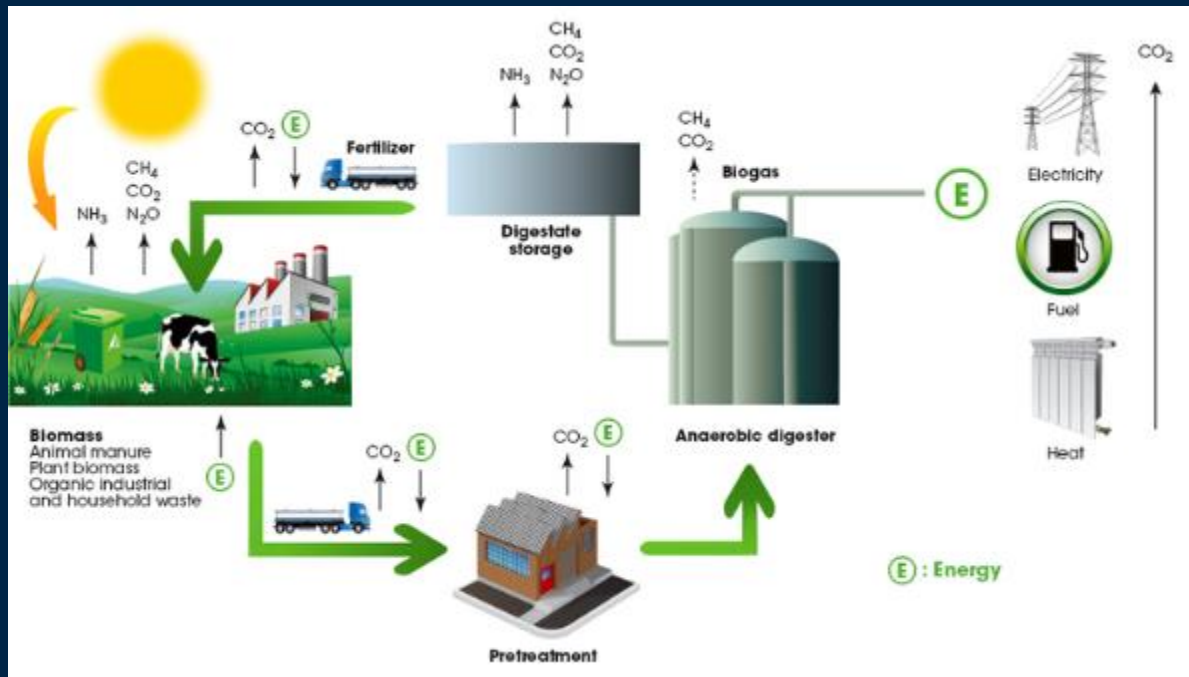


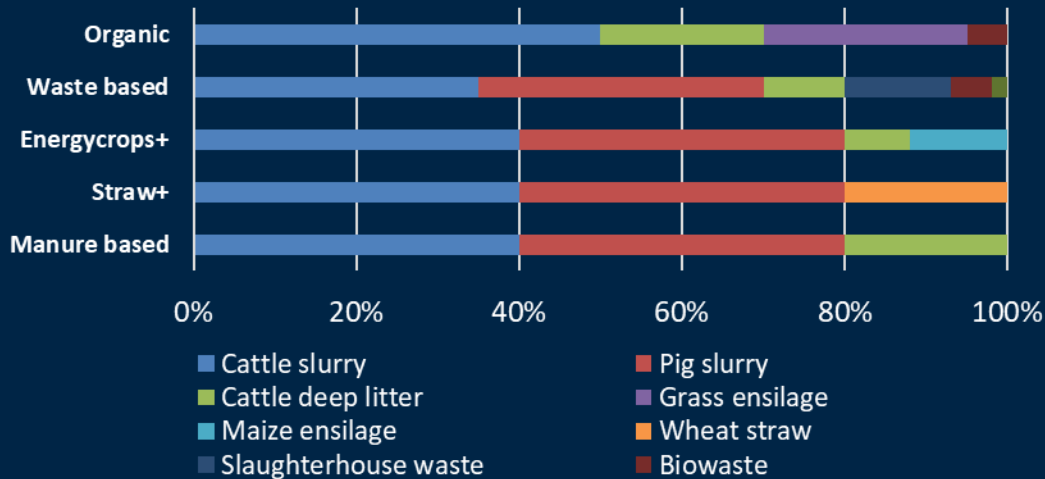
SUSTAINABLE BIOGAS

- CLIMATE AND ENVIRONMENTAL EFFECTS OF FIVE BIOGAS PRODUCTION SCENARIOS

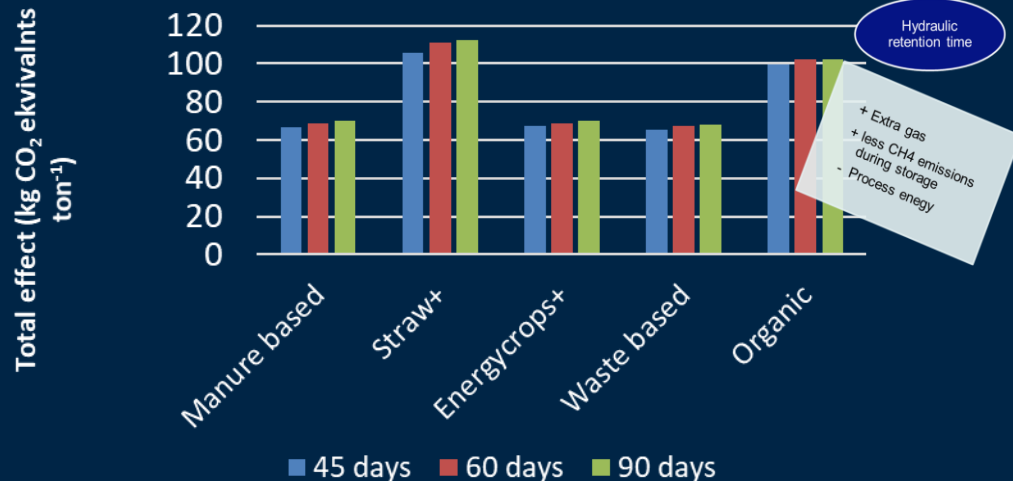
Henrik B. Møller, Jørgen E. Olesen, Søren O. Petersen, Peter Sørensen, Tavs Nyord and Sven G. Sommer. Faculty of Technical Sciences, Aarhus University



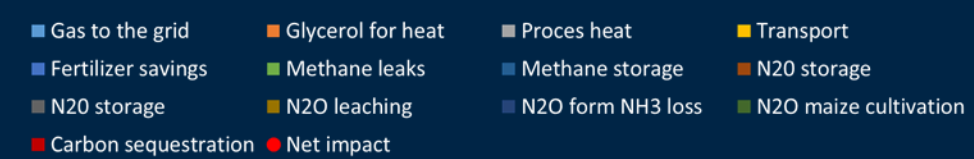
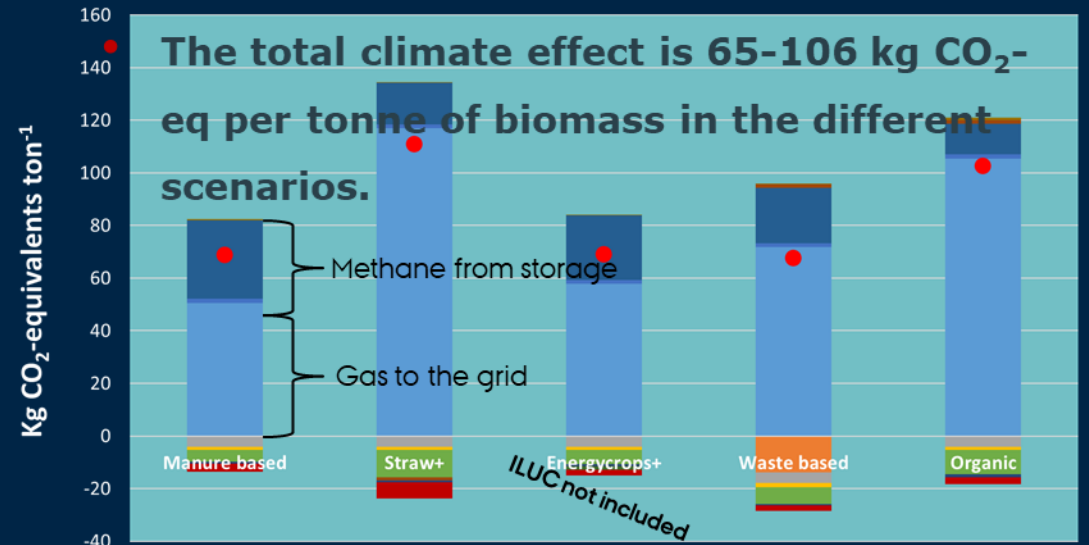
Biomass



Impact of technology - HRT



GHG mitigation



- High positive energy balance for all plants, heat exchangers improve the balance significantly and is needed to reduce storage CH₄ loss.
- Straw plant need technology development
- The nitrate leaching is reduced with 0,04-0,45 kg/tonnes. Energycrops limits the positive impact
- Emission of NH₃ is higher by AD if digestate is surface applied.

