Newsletter IEA Bioenergy Task 37: 6/2014

Publications of the Task

Biogas process monitoring report

Task 37 recently published a technical brochure on “Process monitoring in biogas plants”. The brochure describes the wide range of methods and technologies available for monitoring conditions in full-scale biogas plants so that process control can be optimized. The brochure addresses process parameters that need to be monitored, how monitoring should be implemented and gives advice on interpretation of data collected for avoiding collapse of the AD process and also for achieving optimum process conditions. Author: Bernhard Drosg of BOKU, Austria.
FULL Report

Biogas feedstock pretreatment report

Task 37 has recently published a technical brochure on “Pretreatment of feedstock for enhanced biogas production”. The brochure compares a wide range of physical, chemical and biological methods aimed at making biomass feedstock more readily broken down in the anaerobic digestion (AD) process for biogas production. It is clear that no single pretreatment technology is suitable for all AD systems and all feedstocks/substrates. This brochure describes advantages and disadvantages of technologies either already available commercially or with promising market potential. Authors: Lucy Montgomery and Günther Bochmann of BOKU, Austria.
FULL Report

Source separation of MSW for biogas plants

Task 37 has published a technical brochure on “Source separation of MSW: An overview of the source separation and separate collection of the digestible fraction of household waste, and of other similar wastes from municipalities, aimed to be used as feedstock for anaerobic digestion in biogas plants”. The brochure looks at various schemes introduced in different parts of the world to facilitate separating food waste for the purpose of maximising its value as a substrate for biogas production and subsequent use of the digestate as a valuable fertiliser. Authors: Teodorita Al Seadi (BIOSANTECH, Denmark), Nia Owen (Ricardo-AEA, United Kingdom, Hanna Hellström (SP Technology, Sweden), Ho Kang (Chungnam National University, South Korea)
FULL Report