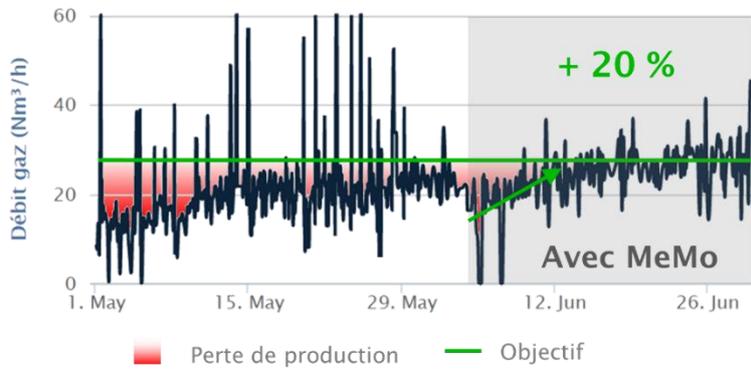


The optimization of methanization plants is essential for the proper development of the sector in France. Most methanization units could increase their methane production by at least 15% through better feed management.

Customized control service

Optimize methane production while securing system biology.

BioEnTech deploys a customized suite of operating support solutions that includes laboratory analysis, input characterization, SNAC sensors and our decision support software, MeMo®. These control solutions were installed as part of the ANR Autoferm research project on the facility of the ENSAIA at La Bouzule and have been operated by Stéphane Pacaud and Benjamin Ravard. This is an agricultural-type facility that receives manure, grass and corn silage, as well as manure and brewery manure.



Achievement of biomethane production targets

Digester data are combined with available substrate characteristics (BMP, biodegradability, dry matter, etc.) on site to provide feed suggestions.

Every day, the calculation of the ideal feeding ration of the methanizer makes it possible to reduce the risk of acidification, to reach the objective of producing bio-methane without exceeding, to make the best use of inputs. Monitoring the MeMo® system power recommendations on the la Bouzule unit improved the unit's performance. The production of bio-methane has been increased by 20%, the risks of acidification have been eliminated and the recovery rate of inputs has increased significantly.

Installation Monitoring Assistance

« The operator is concerned about shutting down the facility if the biology of the digester goes wrong. Indeed, he is aware that when this situation arises, the risk of a total shutdown of the installation for several weeks or even months is high». (Stéphane Pacaud)

BioEnTech's solutions meet the need for real-time digester monitoring in terms of performance and biological risks. An estimate of the biological parameters of the plant is provided (AGV, alkalinity, etc.) to determine the risk of acidification, the rate of recovery of inputs or the performance of production and recovery of bio-methane (Fig. 1). « Good or even very good match between the tool and the online measures ». (S. P.)

« All these elements respond well to the demand of the operators: information on the performance status of the plant over the coming weeks and therefore a substantial saving in time devoted to the unit, but also a gain in security on yields and biological problems and therefore in operating margin. This module follows an expertise curve that has all the cards in hand to make it a reference product».

(S. P.)