Biogas – an energy source with a future

In this edition, we have concentrated on the topic of biogas. In the articles, you will learn about Elster's contribution to unlocking the potential of this environmentally-friendly energy source. You will also understand how this medium is a chance for the future.

This topic is gaining significance in Europe, and in Germany in particular there is a strong trend developing towards the use of biogas. By the end of 2010, over 5000 biogas plants with an annual capacity of approx. 4.1 billion cubic metres are expected, which will subsequently rise to an estimated 16.1 billion cubic metres per annum by 2020. As the use of biogas is becoming more important in other countries as well, now is the time to dedicate ourselves to this topic. The targets for the injection of upgraded gas into the natural gas grid are ambitious. If the expected injection amount for 2010 is only 0.18 billion cubic metres, the target for 2020 is already set to be 6 billion. By 2030, it should then have climbed as high as 10 billion.

For measuring gas volumes and gas quality with a view to injecting upgraded biogas into existing gas grids, we are able to offer the required metering technology right through to complete biogas injection stations. With regard to raw biogas networks and satellite CHPPs, questions are currently being asked concerning measuring devices for non-conditioned biogas. The metering requirements in such systems create a task that can deviate from usual metering technology. Gas temperature, relative humidity and sulphur content are just some of the keywords of volumetric metering and volume correction which require special measures. Even for gas quality analysis, the systems that are currently known do not necessarily provide a solution.

Our tasks for the future are therefore finding the solution to all of these challenges, and implementing it within our product portfolio. As one of the leading manufacturers of gas measuring and control equipment, Elster has experience with all sorts of tasks relating to metering technology. When planning injection plants, you can rely on the high-quality components and turnkey system solutions from Elster.

Even when it comes to biogas metering, we offer you smart solutions.

Our biogas team will be happy to advise you: biogas@elster.com

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