

Ukrainian engineering company ZORG Ukraine announced development of new waste-management solution for plants that produce alcohol

New advanced waste-management technology has been developed by Ukrainian construction company ZORG Ukraine, designed specifically for plants that produce alcohol. Unique technological upgrade allows the plant to recycle production-wastes, manufacture high-quality fertilizer and biogas, that's instantly converted into thermal or electrical power. "Biogas plants can cut-down production expenses within the alcohol-production industry sector to a considerable degree," – commented company's executive director Igor Aksiutov.

Some unique qualities of production-wastes within this particular industry caused company's intense research and development of the new waste-management system. Wastage of alcohol-producing plants serves to be the best material for production of biogas, yet the process of biomass digestion, in the following case, has its distinctive features. Taking into consideration the fact, that spent grains have shorter oxidation time-span, company's engineers divided the digestion process of biomass into two stages: the processes of acid formation and methane formation take places in separate reservoirs, which leads to an increase of the amount of biogas produced by the plant.

The quality of biomass, received from the biogas plant, increases as well. Levels of COD and BOD are ten to fifteen times lower. The wastage of the biogas plant is the high-value product – biofertilizer. Up to this point, alcohol-producing plants managed the wastage by production of dry feeds, although the process demanded high level of energy consumption.

Despite the fact, that new waste-management system for plants that produce alcohol is acknowledged as the matter of public interest only now, ZORG Ukraine has already successfully installed its technological solution on various plants in Ukraine and Kazakhstan.

At present moment, company offers its clients a number of specialized waste-management solutions:

- biogas plants for cattle and pig farms;
- biogas plants for poultry farms;
- biogas plants for sugar plants;
- biogas plants for energy crops;
- biogas plants for urban ore.

In addition, one of the leading companies within the field of Ukrainian dairy industry "Ukrainska Molochna Kompania" received a license for combined production of electrical and thermal power, which enables the company to sell electricity on the energy market according to the green tariff and non-regulated tariff. The license is granted by "National Energy Regulation Commission." Green tariff rates are set by NERC Department of power-producing companies. Currently, green tariff rate is UAH 1,34 exclusive of VAT.

About ZORG:

ZORG executes full range of engineering services within biogas industry. ZORG designs, builds and produces biogas plants under German state-of-art technology and know-how license.

ZORG works on a global scale: company's projects have been successfully implemented in Kazakhstan, Ukraine, Latvia, and Turkey.

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