

Application in Dairy Industry

TECHNOLOGY & CONTRACTING

On January 2011 HydroThane has been awarded with a contract to supply design and the anaerobic hardware but also all auxiliary equipment and project management/supervision services for the dairy of TYRAS in Greece. Having the aim to achieve the required quality standard, the local civil work and electromechanical installation teams were supervised and guided by our project and site managers. The project has been finalized and delivered operating in full capacity within 6 months!



TECHNICAL DETAILS

The facility is designed to treat:

- 2500 m³/day of washwaters
- 220 m³/day of lactose
- 90 m³/day of by-products (market return, concentrated whey, waste sludges etc)
- A total COD load resulting of 28 tons/day

The anaerobic system consists of one ECSB (External Circulation Sludge Bed) reactor and three SWD (Solid Waste Digester) reactors, while as aerobic post treatment the existing system has been modified to operate as to our HYDROX process for maximum nutrient removal and minimum air requirements.



EXECUTION

After the design principles were agreed the works started being co-ordinated by HydroThane project team based on a continuously followed up schedule respecting discipline and safe working regulations. While the infrastructure was ongoing, the steel tanks erection started with all flange connections pre-installed. Big part of the pipe-work was prefabricated and installed on position when equipment was mounted.



EFFICIENCY AND BIOGAS

The overall efficiency of the wastewater purification is more than enough while the plant achieves far below limits' parameters, with minimum electricity requirements and sludge production. The headaches with the by-products of the dairy came to an end and the biogas produced is reaching at its peak the 600 Nm³/h (almost 4 MW), covering a large part (when not all) of the thermal energy requirements of the factory.



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