



Project Description – Burda Offenburg

Contract Description / Solution:

AIM was awarded the contract for the construction including detailed plans, manufacture, supply and assembly of all the components required (approx. 350 t – to some extent pipeline parts D=3000 mm) for the erection of this solvent recovery plant based on the super-sorbose process (active carbon adsorber) to a patented technology of our client Donau Carbon GmbH Frankfurt, Germany, with integrated heat recovery and waste water purification systems. In the final construction phase this unit will clean approx 480,000 m³/h exhaust air coming from the rotation machinery and with a solvent capacity of 4800 kg/h toluene. The plant includes desorbate recovery for heating purposes, but that can also be used for cold water production through use of an adsorption cooling unit. The vapour condensate has a remnant toluene content of <5 mg/l after the waste water cleaning process and is re-used as boiler water.





Projektbeschreibung – UPM-Kymmene Schongau

Contract Description / Solution:

The task was to replace the existing aerobic reactor \varnothing 10m, H = 25m and by return adopting an anaerobic IC reactor for the purpose to produce electric energy with CHP by using the arising biogas.

Paques, a company from the Netherlands, was in charge of process engineering for the reconstruction.

Detail-engineering, structural analysis, as well as manufacturing and assembling were included in scope of work of AIM.

The special feature of this project is that AIM was able to cover the whole package with the complex laser - sheet blanks, the welded structures for the container reinforcements, the steel structures for the rounded stage, and dimensioning and layout of biogas pipelines in PE by covering the full scope with in-house capabilities. Furthermore the adaption of the stock was problematic because the tolerances for the mounting parts were very accurate and the container did not have the required accuracy and the static preconditions. Due to acquired skills of AIM's staff over the last years, these problems had been solved properly.





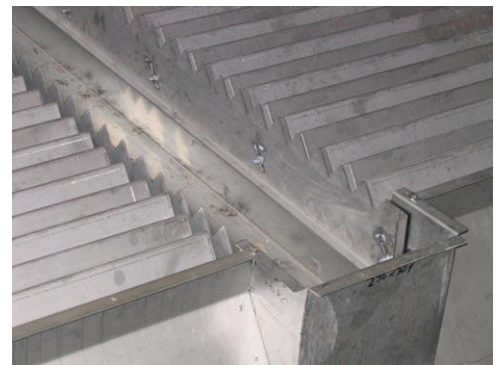
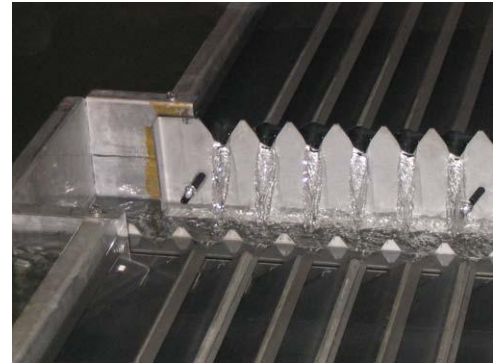
Project description – Norske-Skog, april–october 2005

Contract Description / Solution:

Supply of a river water purification plant in the form of a plate separator.

Solution:

Planning with detailed engineering of the fittings components consisting of 4 pcs. of laminated plate with 89 pcs. plates plus supports and sub-constructions, sheet metal intakes and outflow gutters in the form of a height-adjustable toothed weir. The entire construction was produced at the works in stainless steel, pre-assembled and fully erected, assembled and started-up in only a few days taking advantage of an operational shutdown.

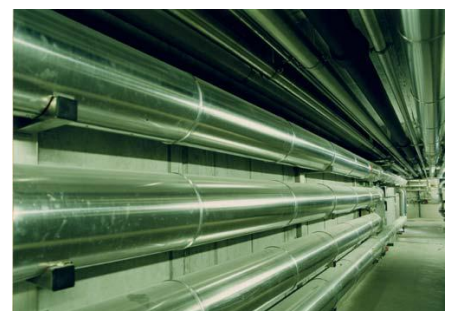




Project Description – Attersee Sewage Treatment Works

Contract Description / Solution:

In the course of bringing the facility in line with the state-of-the-art, digestion tower agitator for turning of the digestion sludge in the existing digestion sludge with a 15 m diameter, 20 m height and a content of approx. 1900 m³ was installed together with the support construction required.





Project Description – Hallstättersee

Contract Description / Solution:

The project consists in bringing the system fully into line with all the latest in cutting-edge technology. Extension of a sewage treatment plant from 16,000 to 22,000 units and the existing screening and sand collector systems, the surface ventilator, the return slurry lift gear, steel chain broach, plastic gas pipelines and galvanised pipes were disassembled. The screening chamber equipment with sand washer and lift gear including the connecting pipelines were supplied and assembled. Adaptation of the VKB sludge scraper and supply and assembly of the pressure ventilation with ventilator agitator, pusher and guards, as also the equipment for the secondary settlement tank consisting of plastic chain broach, run-off pipe, skim channels, RLS lift gear.

The existing sludge line was adapted and the digestion tank equipment (scum for manhole, cloudy water run-off, heat exchanger, circulator and feeder with connecting pipelines), mechanical excess sludge thickener plus flocculator preparation and cloudy water storage equipment were supplied and assembled. The new gas pipeline was laid with all required measuring devices together with the safety device adaptations (gravel pt, gas flare, ...) and the gas storage (supply of a membrane). All of this conversion and new construction work was done during normal plant operation.

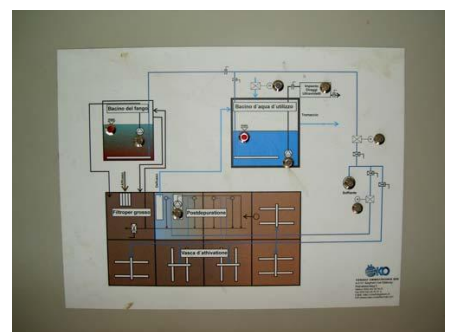




Project Description – Gaiole (Toskana)

Contract Description / Solution:

Requirement: a fully biological sewage treatment plant for a hotel unit including a wellness area and restaurant.
Solution: a fully biological sewage treatment plant on the basis of 20 ft containers for 120 units. The container system and the sludge and water storage equipment were produced in their entirety in the Timelkam works in order to keep the amount of assembly work required as low as possible. The sludge and water storage together with the operations room were completed in concrete by a local construction firm. The assembly of the container unit, the mechanical equipment for the storage facility and the switch cabinet and the test run with pure water were carried out by our fitters. The purified sewage water is used for the irrigation of olive groves and pine trees after filtering and UV sterilisation.





Container Wastewater Treatment Plant Austrian Ministry of Defence; Austrian Federal Armed Forces Contingent - Chad

Contract Description / Solution:

In cooperation with Prof. DI Dr. Otto Nowak, TU-Dresden and in the framework of a EUREKA research project AIM Anlagenbau & Industrie-Montagen GmbH has designed a compact container waste water treatment plant, which distinguishes itself through its mobility, robustness and convenient operation and remote maintenance.

Convinced by this technical innovation the Austrian Federal Armed Forces have also acquired a fully biological container waste water treatment which is available to the Austrian contingent in Chad. Under exceedingly difficult conditions the flexible and fully biological container wastewater treatment plant provides for smooth and odourless wastewater treatment and guarantees that 100% of the treated wastewater in turn may be reused as water for domestic purposes, such as WC flushing, irrigation etc. After a one-year testing phase even foreign army officers attest excellent references for the plant.

The 20-foot fully installed container plant is designed for 100 to 200 population equivalents (PE). If equipped with membrane technology the plant can handle up to around 5000 PE. Container wastewater treatment plants are ready for operation in just a few hours and are suitable wherever water is in short supply or at remote locations. The fields of operation of this state-of-the-art clarification technology include major construction sites, work camps, marinas, golf courses or hotels as well as military or aid organisation uses.

