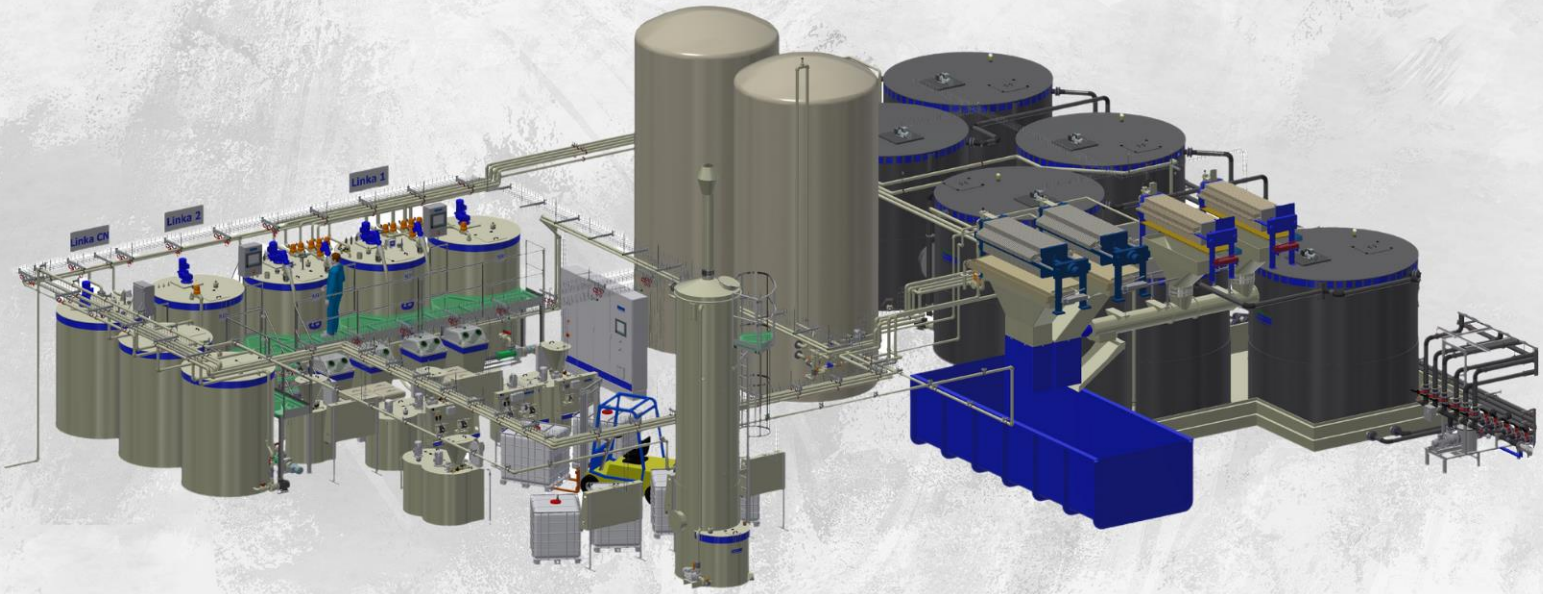
Industrial wastewater treatment plants



Projection, production, assembly, service.

30 YEARS
AQUAFLOT
PROFESSIONAL SOLUTIONS

Company profile

AQUAFLOT solves the problems of partners in the field of wastewater treatment. It ensures the design, production, assembly and service of these devices. Emphasis is placed on the design and delivery of a technological assembly that will ensure the achievement of the required quality of cleaned or treated water.

AQUAFLOT's products are characterized by the use of advanced technologies based on plastics, which ensures the high vitality of technological nodes. The guarantee of long-term and reliable operation is the high quality of the delivered equipment and the adaptability of the technology to the technical requirements of investors.

Wastewater produced by industrial facilities represents the biggest source of pollution of natural waters, to which it is discharged directly or through public sewerage systems in the form of municipal waste water.

It is a non-negligible factor affecting the environment and for this reason waste water needs to be paid attention corresponding to the importance of waste water.

Wastewater treatment technology can be designed in such a way that it meets the requirements for discharging purified water into surface waters, the recipient or sewers according to the decree from the national legislation of the country in which the investor wants to install the technology.

We can also satisfy investors with special requirements such as complete recycling of waste water where water is reused in production

The decree from national legislation also establishes recommended concentration limit values for determining the maximum permissible level of pollution of industrial wastewater and special waters discharged into public sewerage.

The composition of every type of waste water is specific and therefore a special approach is requred to design a treatment technological line.

To solve issues of industrial wastewater pollution the most suitable way is to use modular waste water treatment plants,

Modular wastewater treatment plants are characterized by high variability, which guarantees high efficiency in the elimination of chemical pollution in a wide range of substances found in industrial wastewater.

Wastewater treatment plant type BLOK

The BLOK type is a compact plant operating in a charge automatic mode.

BLOK type of wastewater treatment plant series (number = m^3)

- BLOK 0,5
- BLOK 0,5 eco
- BLOK 1
- BLOK 1 eco
- BLOK 3
- BLOK 6
- BLOK 10
- BLOK 15
- BLOK 20

BLOK type wastewater treatment plant consists of:

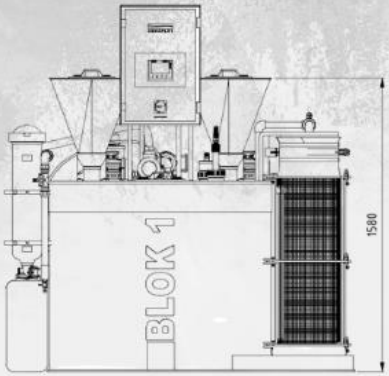
- reactor with vertical agitator
- sleeve filter for separation
- dispensers of chemical reagents in powder form
- assembly for coagulant dosing
- sludge gravity dewatering machine
- level measurement
- pH measurement

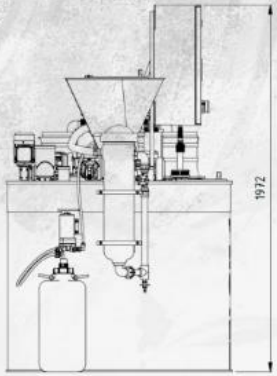
Utilization options:

- galvanizing plants
- production of machinery
- food processing machinery production
- paiting shops
- incinerators
- automotive
- hot-dip galvanizing
- degreasing of parts
- enamenal factory
- textil factory
- aluminum casting
- processing of plastics and paper
- collected wastewaters treatment
- wastewaters from floor washing in production facilities

The BLOK technology ensures:

- chemical consumption of oxygen
- insoluble substances
- colloidal substances (turbidity)
- petroleum products
- emulsified oil forms
- phosphates $P\text{-}PO_4^{3-}$
- heavy metals
- fluorides
- of organic substances and neutralization to the desired pH value

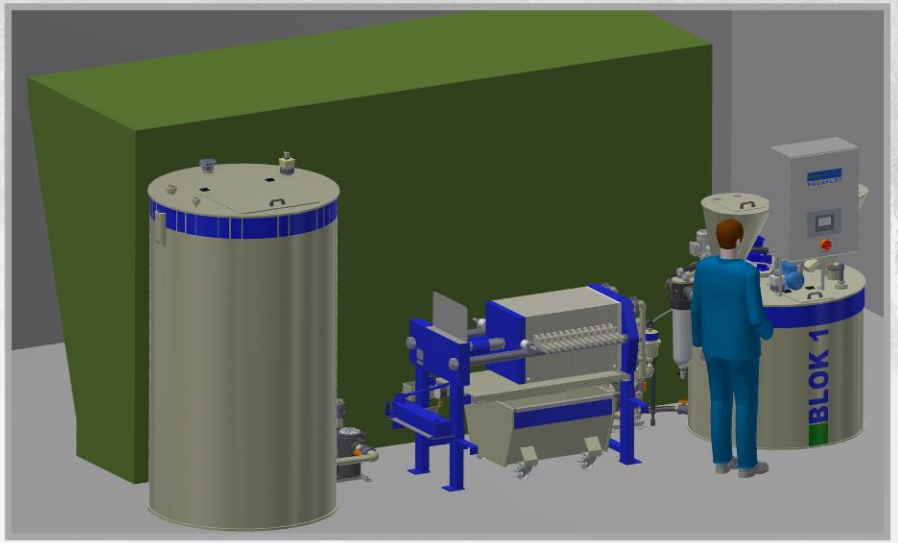


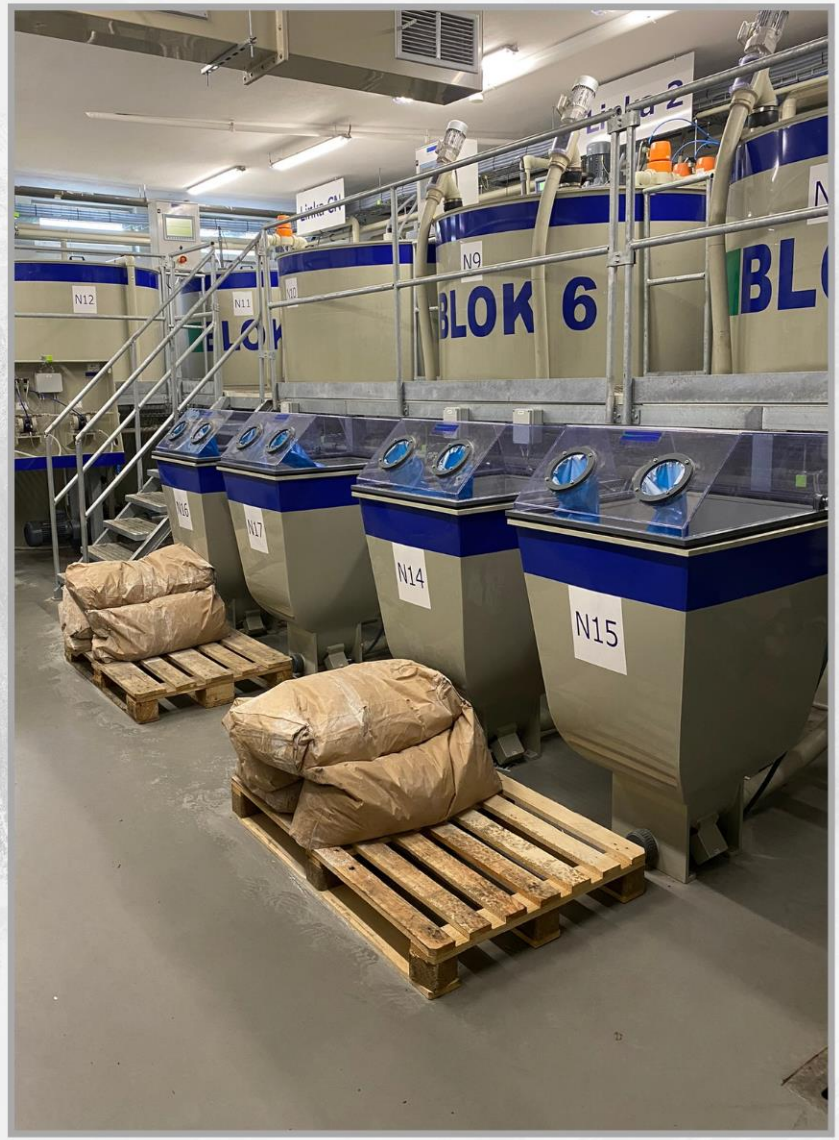




Wastewater treatment plant type BLOK







Waste water treatment plant type MODUL

MODUL is a compact plant operating in continuous automatic mode.

Type series MODUL
(the numerical data expresses the working volume of the batch m^3)

- MODUL 0,5
- MODUL 1
- MODUL 3
- MODUL 5
- MODUL atypical

Technology configuration may consist of:

- mechanical pre-treatment
- accumulation storage
- reactor block
- separation equipment
- sludge management
- units for preparation of solutions
- dispensers of chemical reagents in powder form
- control system, measurement and regulation

MODUL will ensure a reduction in value/concentration:

- chemical consumption of oxygen
- insoluble substances
- colloidal substances (turbidity)
- petroleum products
- emulsified oil forms
- phosphates $P\text{-}PO_4^{3-}$
- heavy metals
- fluorides
- of organic substances and neutralization to the desired pH value

Utilization options:

- galvanizing plants
- production of machinery
- food processing machinery production
- printers
- paiting shops
- incinerators
- automotive
- hot-dip galvanizing
- degreasing of parts
- enamenal factory
- textil factory
- aluminum casting
- processing of plastics and paper
- others



MODUL type of wastewater treatment plant











Sample testing in our laboratory

- For the correct design of the cleaning technology, it is necessary for the investor to provide samples of the wastewater to be cleaned. These are tested in out laboratory, and based on the results of the laboratory tests, a set of wastewater treatment technology is proposed.
- This is followed by the drafting of a technical solution and also a price offer for the investor.
- Testing of samples is carried out not only in the laboratory, but also at site of installation of the wastewater treatment plant.









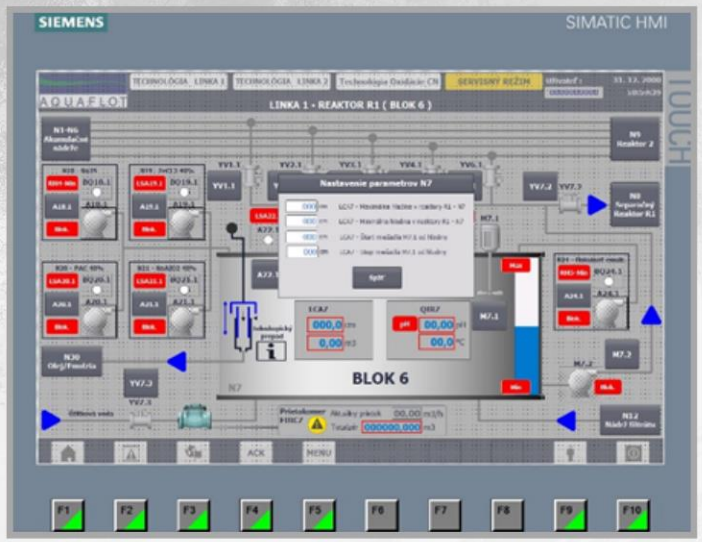


Control system, measurement and regulation

- Siemens control system (Simatic S7-1200, S7-1500)
- Visualization Simatic HMI (4",7",12")
- Light and sound indication of plant operating conditions
- Remote access via modem / LAN
- Multi-level access through passwords
- Mobile application SMART CLIENT







Drained sludge



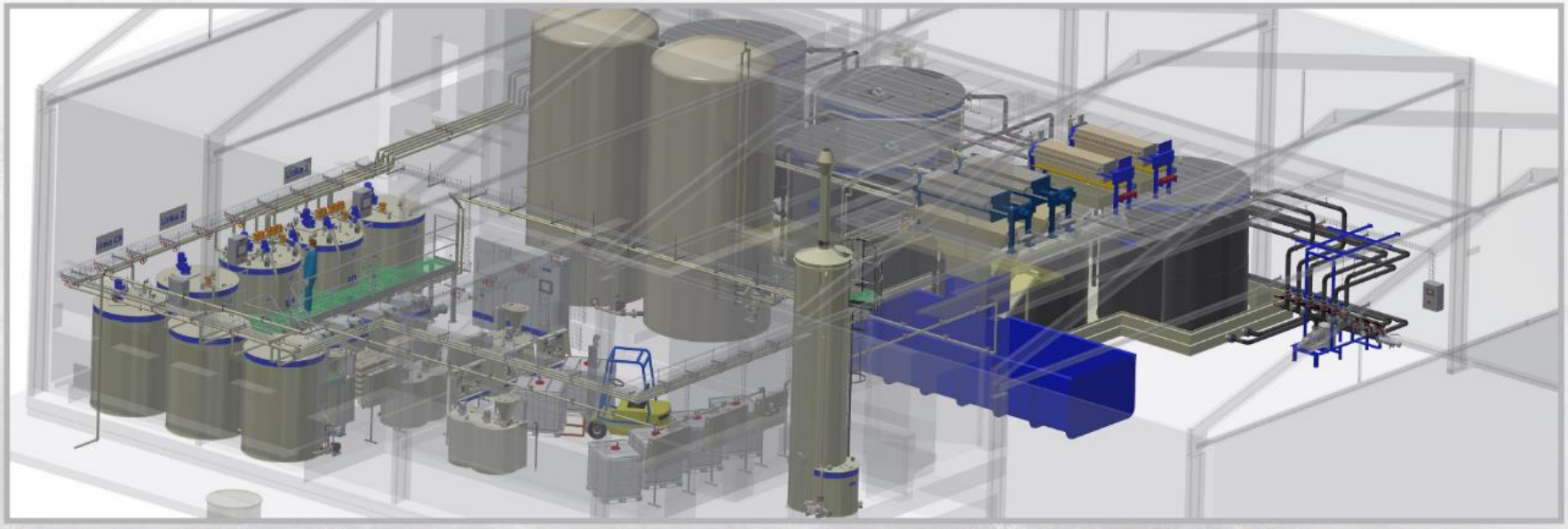






Implementation - Treatment of collected dangerous wastewaters

Acid - alkaline waste, water-dilutable paints, waste containing cyanides, cutting emulsions, waste containing tar and thinners





Implementation - Wastewater from the degreasing process before painting

Rinse water, alkaline concentrates, phosphates.







Implementation - Wastewaters from the hot-dip galvanizing

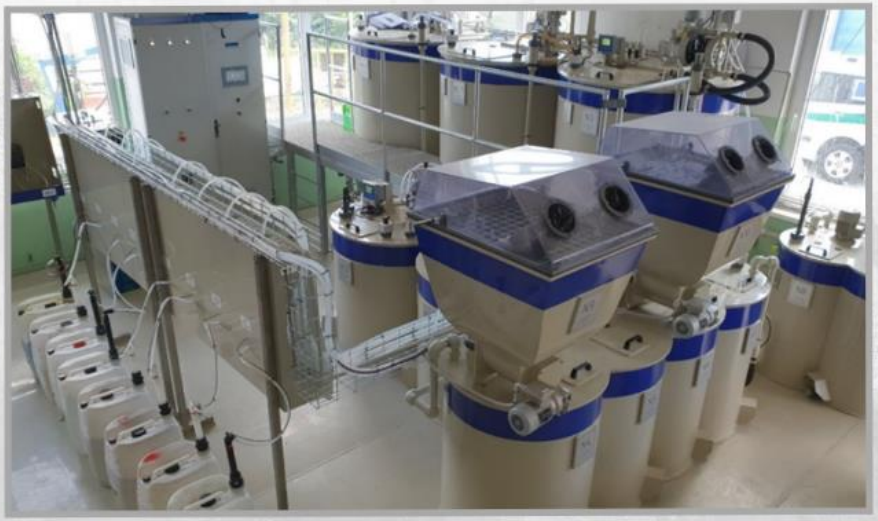
Acid rinses, acid concentrates, heavy metals, Fe, Zn.





Implementation - Wastewaters from galvanizing processes

Acid - alkaline rinses, cyanide rinses, chrome rinses.



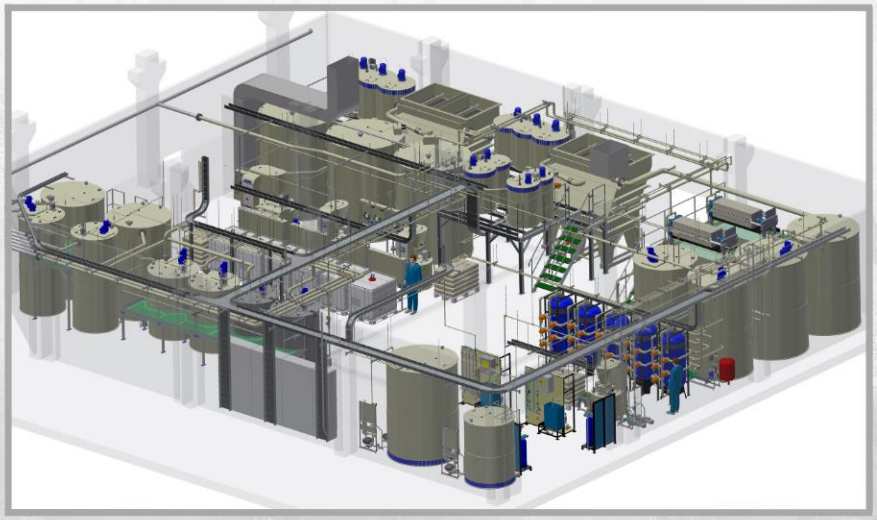






Implementation - Wastewaters from electroplating processes - full recycling

Al-containing concentrates, cyanide rinses and concentrates, acid-alkaline rinses, acid concentrates, alkaline concentrates, chromium concentrates, chrome rinses.









Implementation - Wastewaters from anodic oxidation process of aluminium

Acid-alkaline rinses, NiP rinses, acid concentrates, alkaline concentrates.









Implementation - Wastewaters from electroplating processes

Acid - alkaline rinses, chrome rinses, chrome concentrates, acid concentrates, alkaline concentrates.

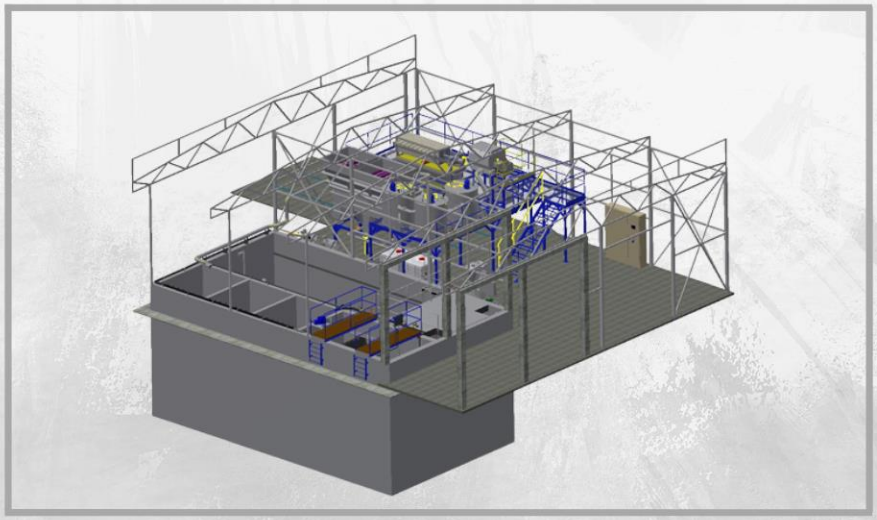






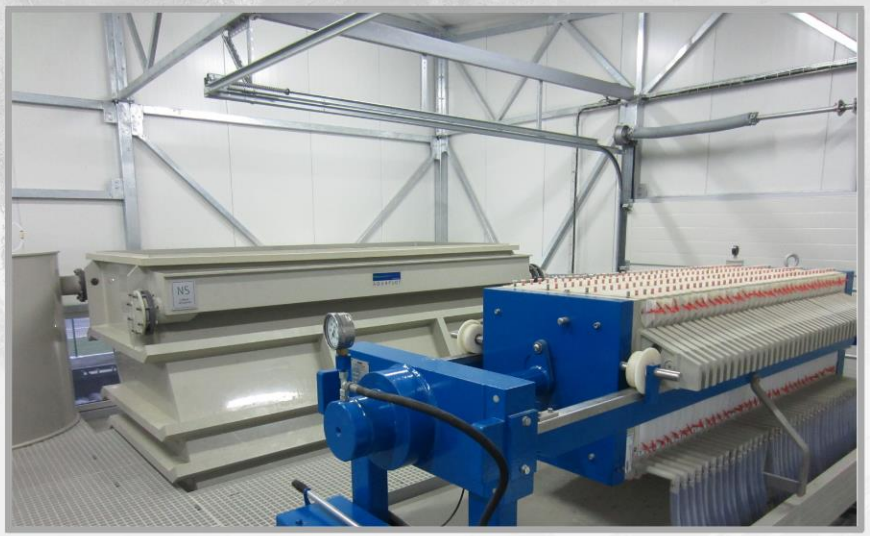


Implementation - Wastewaters from washing and recycling of PET bottles









Implementation - Wastewaters from pharmaceutical production









Implementation - Wastewaters from pharmaceutical production



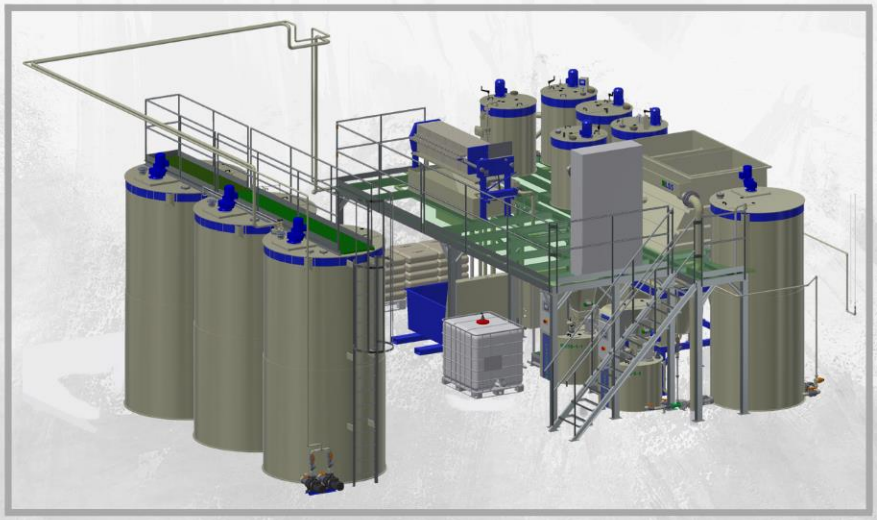






Implementation - Wastewater from treatment before painting and enameling

Acid - alkaline rinses, acid concentrates, alkaline concentrates.









Implementation - Wastewater from various food productions

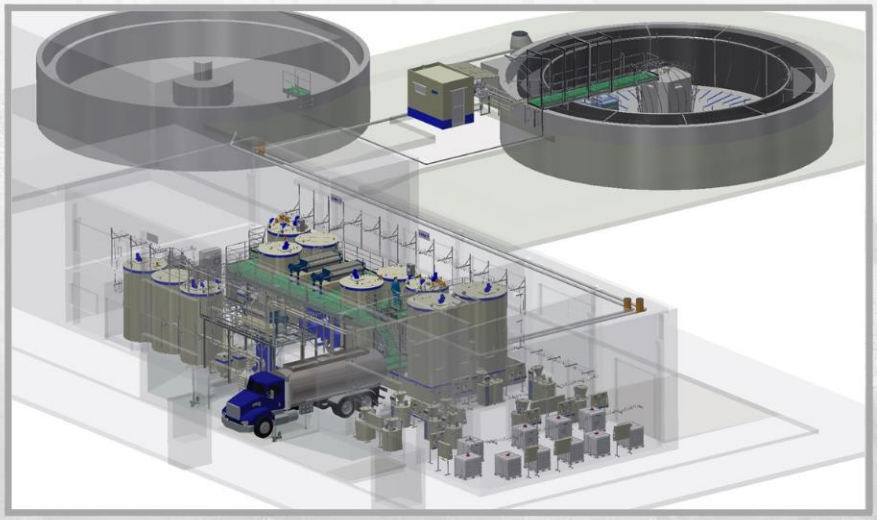








Implementation - Wastewater treatment for a company considering hazardous liquid waste









Implementation - Wastewater from the hot-dip galvanizing process



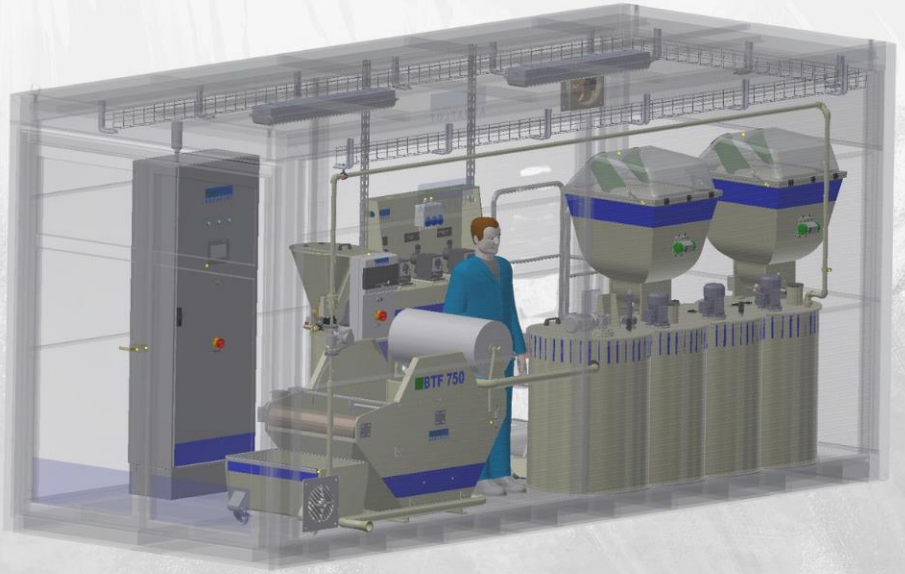








Implementation - Treatment of wastewater from the collection of rainwater contaminated with emulsion from a scrap metal dump



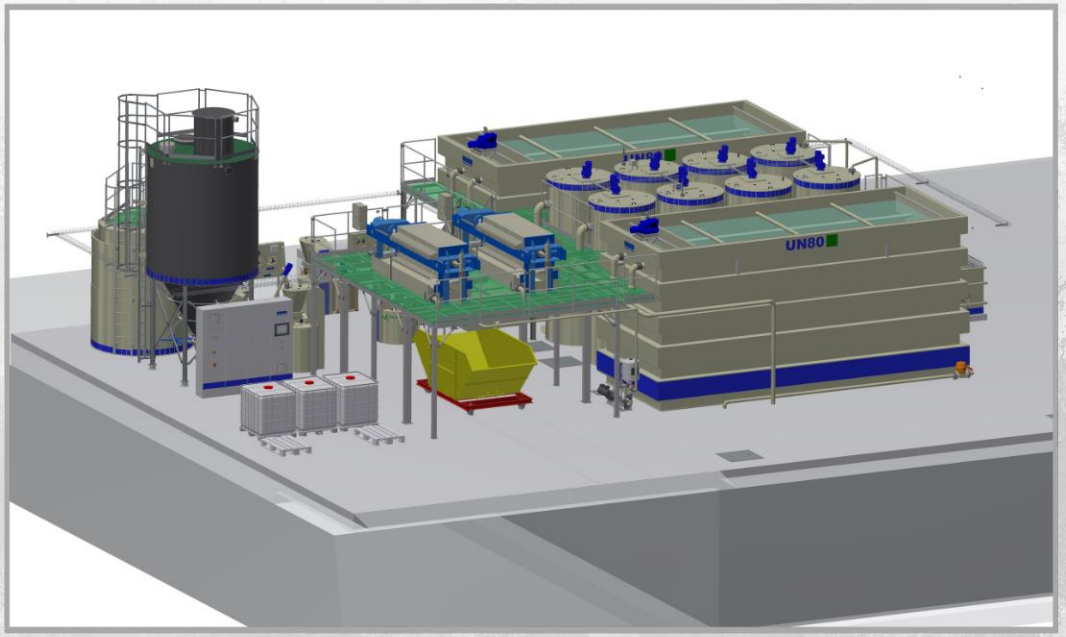








Implementation - Wastewater treatment from the processing of secondary raw materials











Implementation - Wastewater treatment from the painting process









Implementation - Treatment of wastewater from chemical factory









Implementation - Wastewater from washing filters from water treatment











Implementation - Wastewater from milk processing







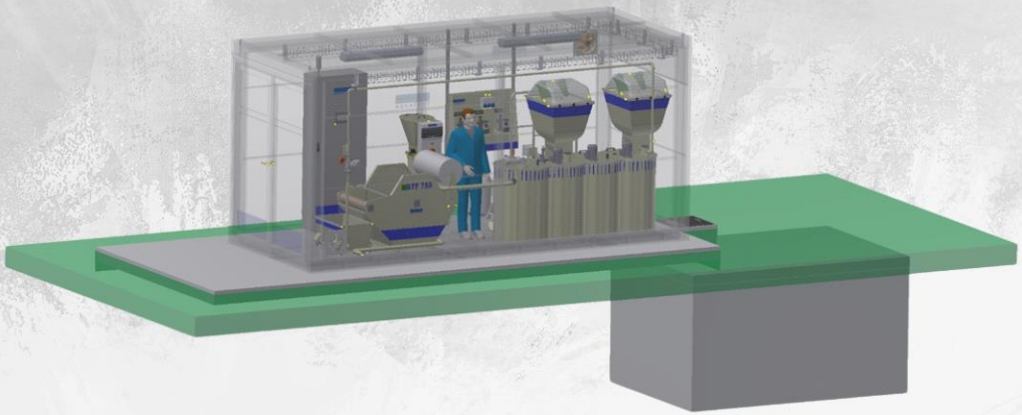




Implementation - waste water from the process of cutting products by water beam

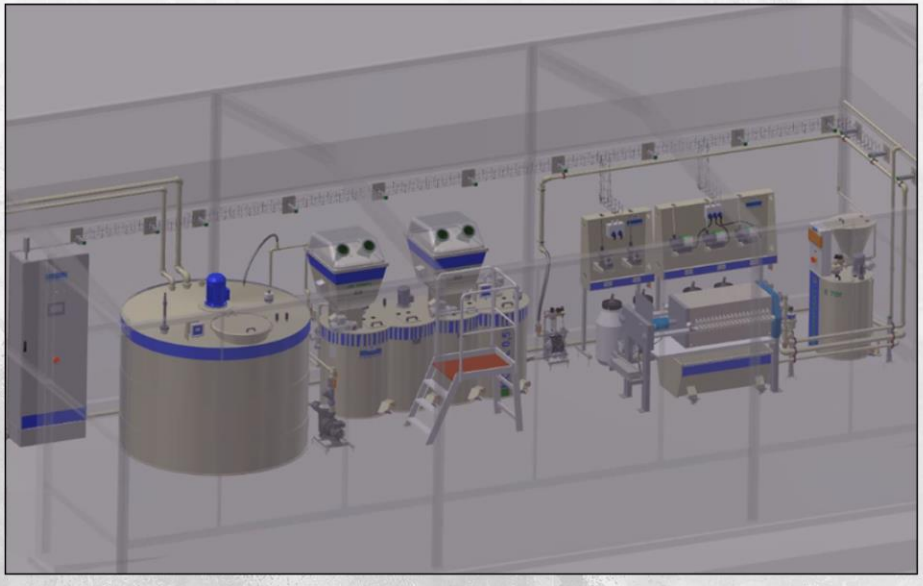






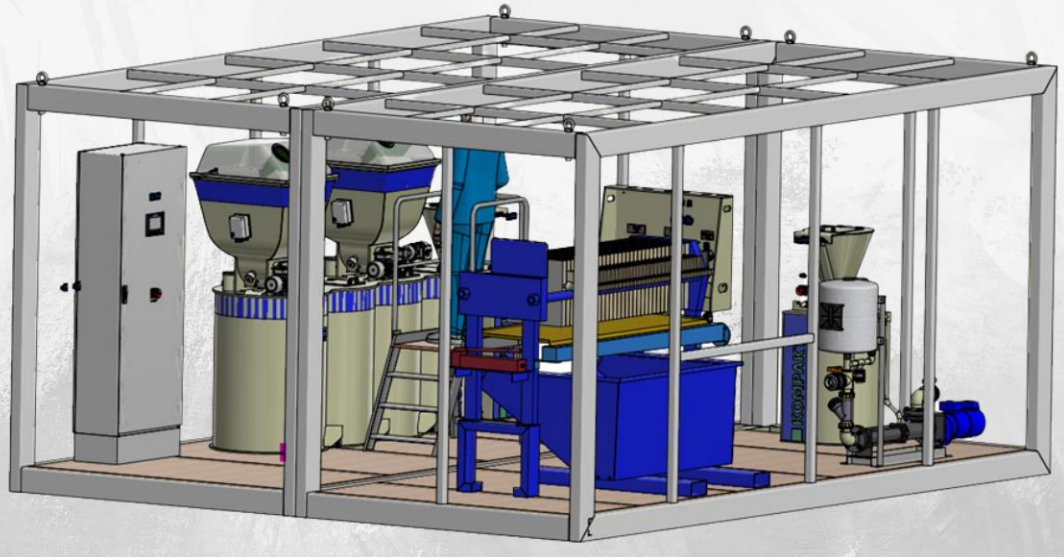
Implementation - Waste water from the painting process (color absorption on the water wall)







Implementation - Waste waters from the biodegradation and composting process







Implementation - Waste waters from the galvanic production process

Concentrates - alkaline and acidic, rinse waters, waste water containing cyanides, waste water containing chrome, waste water containing aluminum







Why should companies have their own wasterwaer treatment plant?

- 90 - 97 % reduction in water disposal costs,
- Return on investment within 1-3 years.
- Increase in company prestige for environmentally friendly waste disposal solutions.
- Self-sufficiency in liquid waste disposal.
- Remote monitoring of technology.
- Technology does not require a permanent presence of personnel .

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