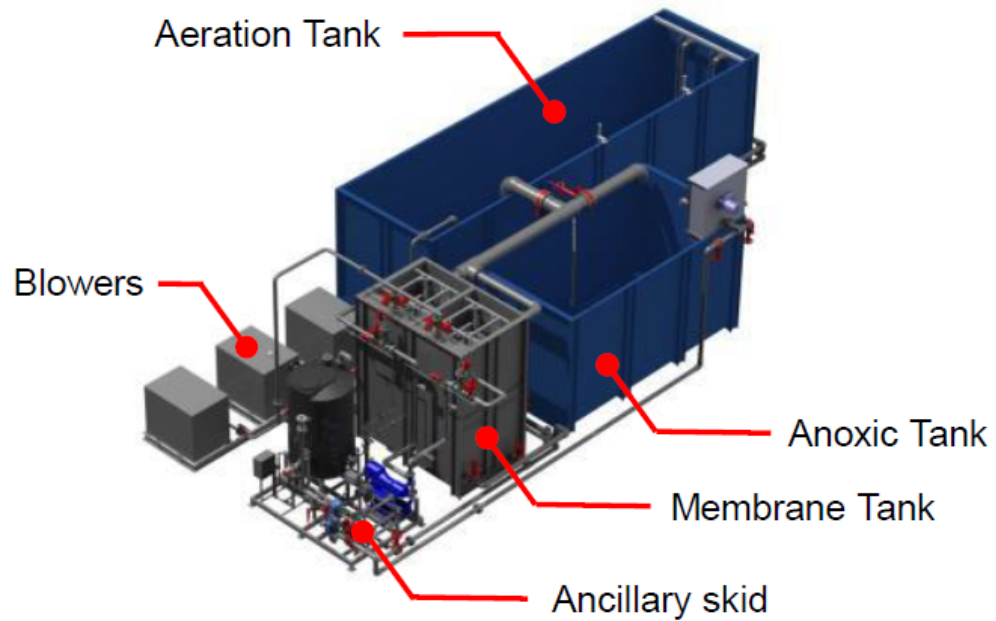


MBR Technology

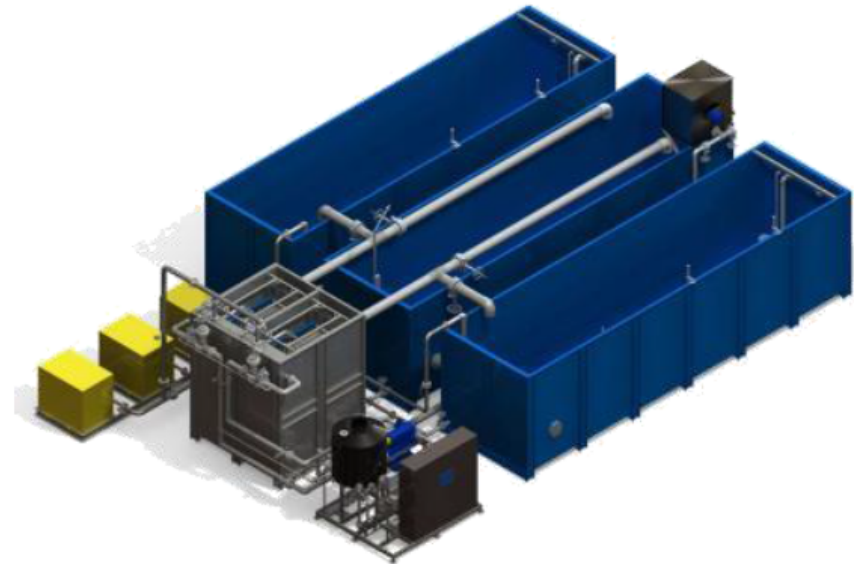


Consortium Celtic Nature
2016

P-100



P-200



Proposal for sewage treatment plant manufacturing:

- the anoxic tanks with equipment
- the aerobic tanks with equipment
- the membrane tanks, blowers, pipes, electrical etc.
- the membrane modules
- software
- Detailed Engineering Documentation – Eng. version (set: mechanical, technological, electrical, instruments)

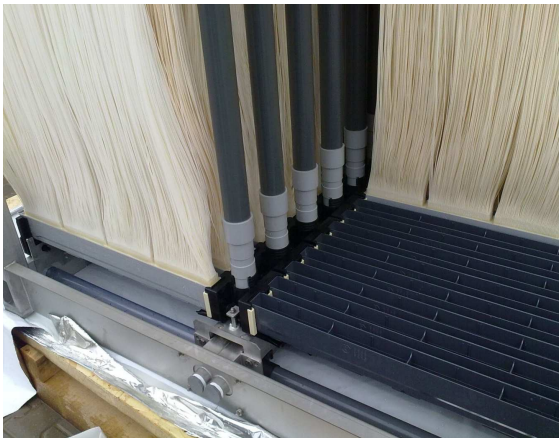


Basic uses of technology mentioned above, except municipal sewage, is industrial waste water and water recovery including:

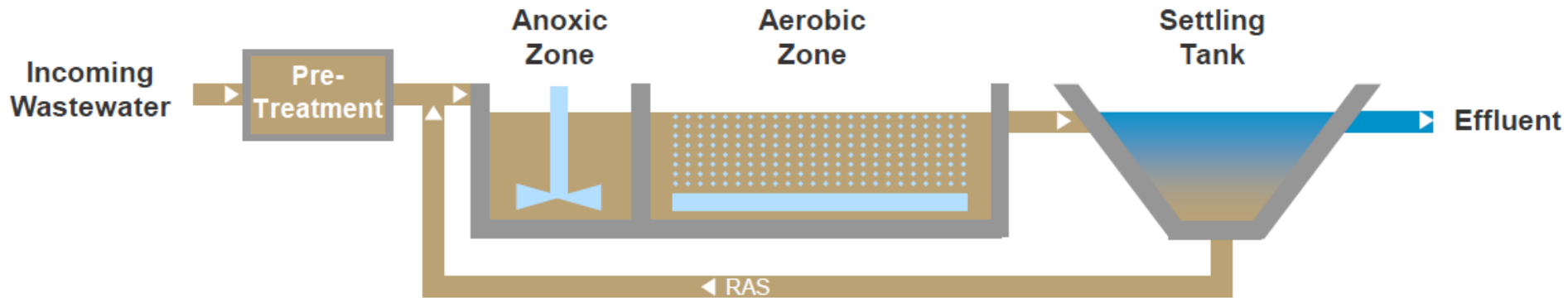
- food industry (dairy industry)
- chemical industry
- oil and gas industry
- paper industry
- energy (CHP plants and plants)

Our Engineering and Construction company , cooperates with the following scientific centres and research institutes:

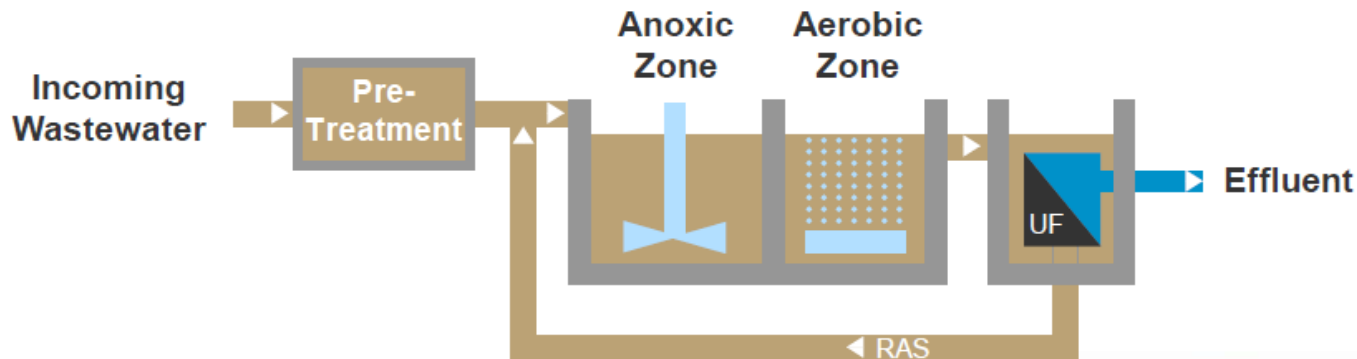
1. Institute of Fluid-Flow Machinery in Gdansk
2. Polish Heat Pump Association
3. University of Life Sciences
4. University of Warmia and Mazury in Olsztyn
5. University of Technology and Life Sciences in Bydgoszcz

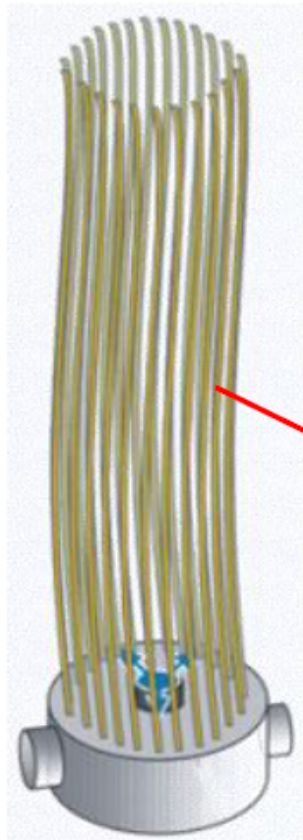


Conventional Activated Sludge System

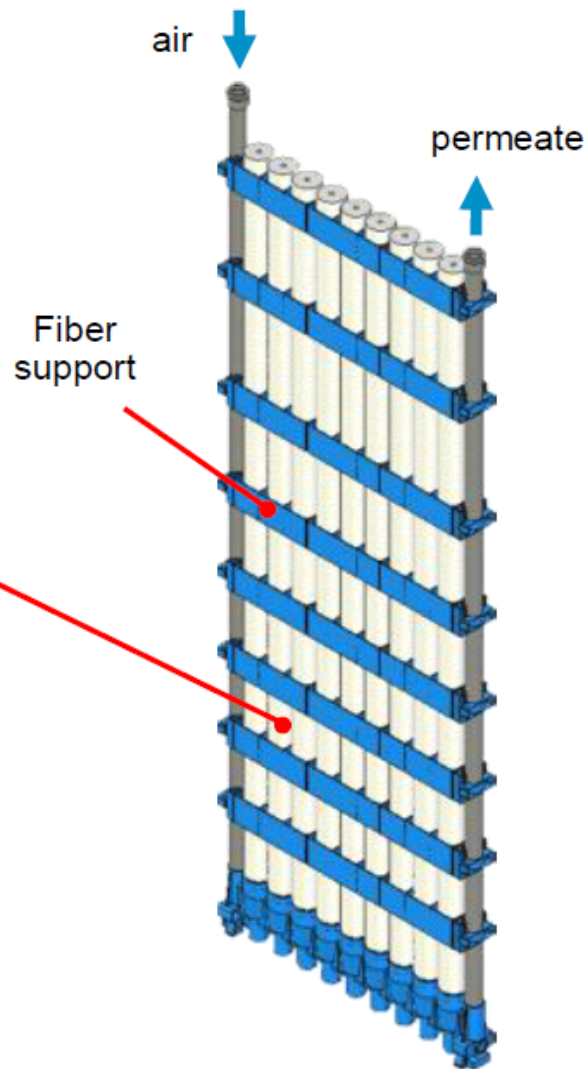


Membrane Bioreactor (MBR)

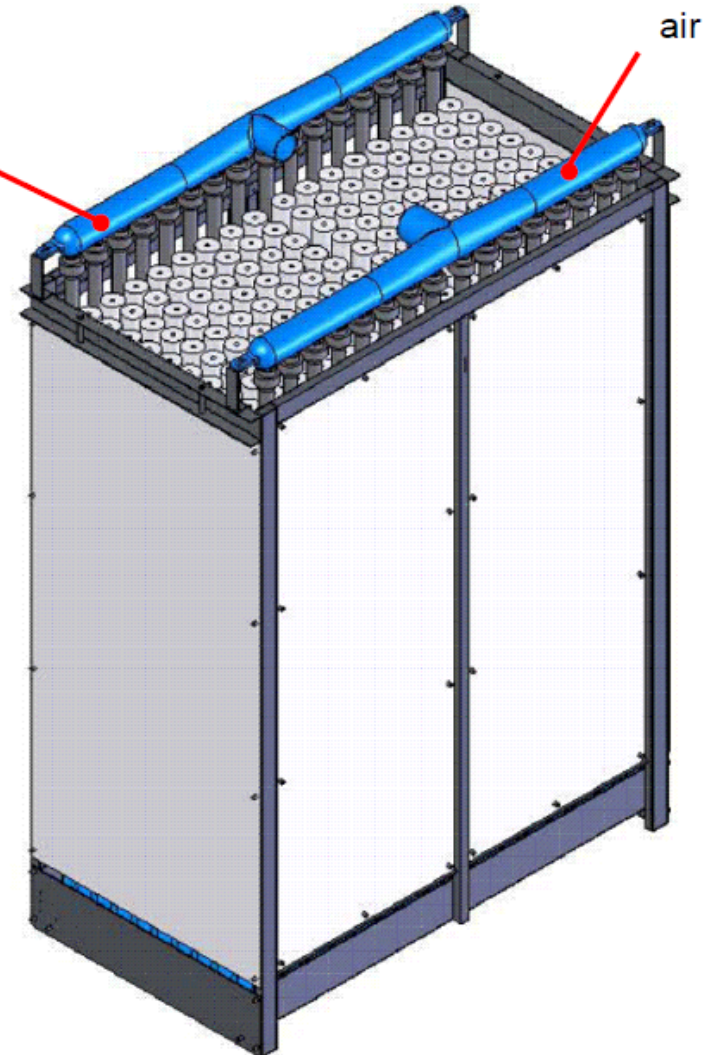




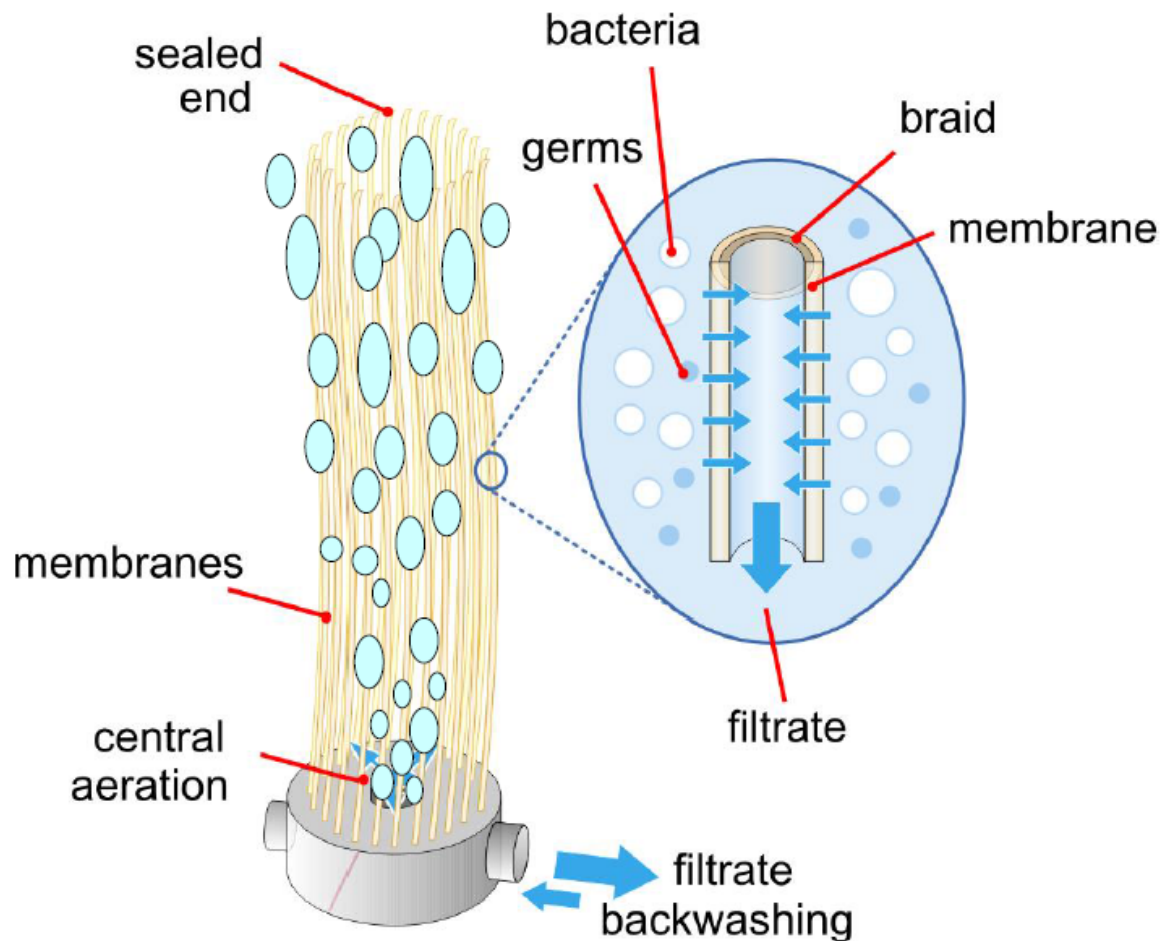
Membrane bundle



Module row



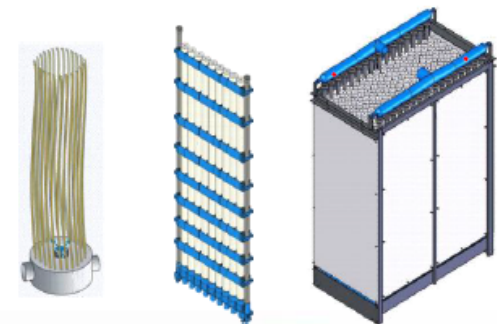
Module



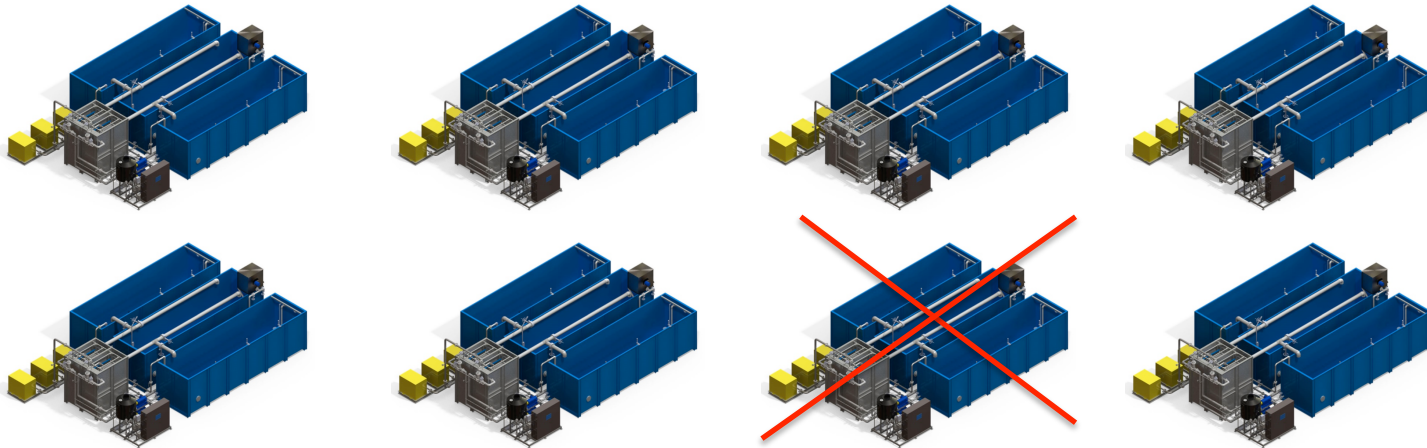
Membrane bundle

Single Header + Central Aeration

- Reduced clogging & sludging
- Reduced energy consumption for air scour



It will give possibility to work with all modules when there is maximum capacity during the season and to work with only one module P-200 when there is less than 760 m³/d of the flow after the season. The work because of module construction will be very flexible. Connections of modules will easily allow to make fast start up of new modules.





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