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ARPA Consulting









Waste water treatment is a process used to convert wastewater into an effluent that can be returned to the water cycle with minimum impact on the environment, or directly reused. The latter is called water reclamation because treated wastewater can then be used for other purposes.

In summary, wastewater treatment process is one of the most important environmental conservation processes that should be encouraged worldwide.





Most wastewater treatment plants treat wastewater from homes and business places. Industrial plant, refineries and manufacturing plants wastewater is usually treated at the onsite facilities.

WWTP facilities are designed to ensure that the wastewater is treated before it can be released to the local environment. Some of the water is used for cooling the machines within the plants and treated again. They try to ensure that nothing is lost. It illegal for disposing untreated wastewater into rivers, lakes, oceans or into the environment and if found culpable one can be prosecuted.



Principles & Advantages



Protect ecological health of the receiving environ

Minimize environmental impacts

Recycle and recover valuable components of wate

Protect public health of humans that come into contact with effluent



ment	Nutrient recovery
	Odor control
er	Avoid spread of waterborne diseases
	Support water cost saving (treated water could be used for irrigation purposes)



WWTPs for Various Needs

- Municipal WWTPs
- Container type WWTPs
- Package WWTPs
- Medical & pharmacies liquid wastes
- Industrial use (oil, chemicals)
- Food & Beverage WWTPs
- Leachate WWTPs (waste & landfills)
- Sanitary needs
- Potable water treatment





What do we do?

Experience in turnkey WWTP projects

Project Management



Feasibility & Design



Equipment Provision and Delivery



Installation



Construction Supervision

Construction



Inspection & Testing



Repair & Rehabilitation



Operation & Maintenance

Technologies we work with

- Aeration systems
- Sand and grease disposal
- Removal of sediments
- OXIWORKS & OXIRISE
- Filtration (membrane, sand, filter, carousel)
- UV treatment & radiation
- HDPE lining
- Ozone treatment
- Odor treatment
- Portable systems
- SCADA systems etc.





- National Waste Water Supply and Sanitation Project: Construction of Waste Water Treatment Plant and Related Structures Shamakhi city (World Bank)
- Years: 2013-2017
- Volume: 10 000 m³/day



- Type: Municipal
- Technology: Aeration systems, Removal of sediments, Filtration (membrane, sand, filter, carousel)
- SCADA systems etc.
- Equipment: Germany (Bioworks)





- National Waste Water Supply and Sanitation Project: Construction of Waste Water Treatment Plant for Nakhchivan city (ADB funded)
- Years: 2014 2018
- Volume: 30 000 m³/day



- Type: Municipal
- Technology: Aeration systems, Removal of sediments, Filtration (membrane, sand, filter, carousel)
- SCADA systems etc, MBR Systems
- Equipment: Germany Bioworks Pantair





- National Waste Water Supply and Sanitation Project: Construction of Waste Water Treatment Plant at Shahbuz city, Nakhchivan Autonomy Republic
- Years: 2017 2018
- Volume: 2 800 m³/day



- Type: Municipal
- Technology: Aeration systems, Removal of sediments, Filtration (membrane, sand, filter, carousel)
- SCADA systems etc
- Equipment: Germany







Consultancy Services for Preparation of Technical Specifications for Purifier for 100-beds Hospitals in Sheki and Agdash Districts, Evaluation of Bid Proposals, Supervision and Design for Accompanying Civil Works (World Bank funded)



- Years: 2013
- Volume: 100 m³/day
- Type: Medical, Package
- Technology: Aeration systems
- Equipment: Provided by Mavi Engineering Consultancy Co.







Inspection of WWTP in Port of Baku in Alat, repair works for WWTP in Port of Baku in Alat

Operation and Maintenance of WWTP in Port of Baku in Alat



- Years: 2014
- Volume: 500 m³/day
- Type: Modular design Miracell
- Technology: Rotating Biological Contactor (RBC)
- Equipment: Turkey



Partners

Germany

Bioworks ATB Water GmbH

Czech Republic TOPOL



Poland

Frukko Wte-Polska



Turkey

Miranda Arges

Slovakia Roto

+



Russia

Mediana























Thank you for attention

