

UV Water Treatment
Hydro-Optic™ Technology

Agstafa City, Azerbaijan, Addresses Drinking Water Disinfection Needs Using Hydro-Optic™ UV

Atlantium Technologies recently completed a project for Azersu Open Joint Stock Company (OJSC), who is in charge of policy and strategy for the water supply and sanitation services in Azerbaijan. Azersu OJSC engages in design, construction, operation and maintenance of intake structures, reservoirs, pumping stations, water pipelines and sewer collectors. The project addressed drinking water disinfection needs for Agstafa city.

Located in north-west Azerbaijan, approximately 460 km west from Baku, Agstafa's water comes from an artesian well and passes through several stages of purification before distribution. Atlantium's environmentally friendly Hydro-Optic™ (HOD) UV technology provided a cost-effective, non-chemical disinfection solution to solve the city's water disinfection needs and ensure membrane protection by addressing biofouling concerns.

As a result of Atlantium's HOD UV technology, Agstafa city was able to eliminate the use of chemicals while ensuring complete virus and microbial inactivation and delivering safe drinking water to its residents.

Why Atlantium HOD UV?

Atlantium's Hydro-Optic™ UV easily inactivates the microorganisms that threaten public health safety including chlorine-resistant *Pseudomonas*, *Cryptosporidium* and *Giardia*. It inactivates viruses and heat resistant spores too.

Atlantium is the only UV company in the market today that provides UV water treatment that was previously thought to be unattainable without chemicals; the only UV company with third-party validation for full 4-log virus EPA compliance using a live Adenovirus challenge in full scale. Atlantium has been able to change the UV paradigm thanks to patented hydro-optic principles, medium pressure high-intensity UV lamps and integrated software.



HOD™ UV ensures the delivery of safe drinking water for Agstafa city in Azerbaijan.