

2023 International Conference on Electromechanical and Energy Systems (SIELMEN)

11-13 October 2023, Craiova, Romania

Conceptual Design for the Performance of Public Infrastructure and Utilities in Urban Water Treatment Plants

Artiom Moldovan, Ilie Nuca, Dan Milici, Mahmoud Abu Bandora

<https://doi.org/10.1109/SIELMEN59038.2023.10290752>

Abstract

This paper contains the description of the solutions and tools for the implementation of this project. The proposed solutions are based on the implementation of new technologies in the technological part of water treatment and in the electromechanical part. New equipment and methods are selected based on the quantitative and qualitative analysis of the work front. Based on this design, a new water pumping and treatment network will be built for a city in the Republic of Moldova.

Keywords: pumping stations, waste waters, pumps, water pumping and treatment networks

References

1. [online] Available: https://www.legis.md/cautare/getResults?doc_id=23003&lang=ro.
A. Moldovan and I. Nuca, "Automation of Wastewater Treatment Plant", *SIELMEN 2019.Moldova Chisinau*.
[View Article](#)
[Google Scholar](#)
2. DIMA M. *Epurarea apelor uzate. Iasi: Tehnopress*, pp. 526, 2002.
[Google Scholar](#)
A. Moldovan, I. Nuca and D. Milici, "Anaerobic - aerobic WWTP for a non-alcoholic liquid products factory", *SIELMEN 2021. Moldova Chisinau*.
[View Article](#)
[Google Scholar](#)
- A. Moldovan, "Automation and integration in SCADA system of the wastewater treatment plant in Cantemir Moldova", *MPS 2023 Cluj-Napoca Romania*.
[Google Scholar](#)
3. [online] Available: <https://eur-lex.europa.eu/legal-content/RO/LSU/?uri=CELEX:32020L2184>.
4. D. Robescu and F. Stroe, "Tehnici de epurare a apelor uzate", *Bucuresti: Tehnica*, pp. 124, 2011.
[Google Scholar](#)

2023 International Conference on Electromechanical and Energy Systems (SIELMEN)

11-13 October 2023, Craiova, Romania

5. *Internal documents for Apa Canal Edinet.*

Google Scholar

6. [online] Available: https://www.legis.md/cautare/getResults?doc_id=49191&lang=ro .
7. [online] Available: https://www.legis.md/cautare/getResults?doc_id=10471&lang=ro .
8. [online] Available: https://www.legis.md/cautare/getResults?doc_id=120783&lang=ro.