

Operating Costs and Energy Demand of Large Wastewater Treatment Plants in Austria: Benchmarking Results of the Last 10 Years

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Abstract: WWTP benchmarking contributes to the identification of cost reduction and optimisation potential and hence increases the efficiency of their operation. This work presents operating costs and energy consumption of Austrian municipal WWTPs, the results focus on large WWTPs treating over 100,000 PE. The work identifies processes with high relevance regarding to operating costs and energy consumption and shows the cost-relevance of six investigated cost categories. These results can help to determine reduction potentials in operating costs and energy consumption of WWTPs in other countries, too.

WWTP benchmarking; operating costs; energy consumption; energy self-sufficiency