

**ENERGY CONSUMPTION IN THE WASTEWATER TREATMENT PLANTS
IN THE AEGEAN ISLANDS AND RENEWABLE ENERGY POTENTIAL**

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ABSTRACT

The increased energy consumption in the islands of the Aegean sea has prompted an energy auditing of the wastewater treatment plants that have been in operation during the last few years. These plants are characterized by an energy demand that is proportional to the quantity and the quality of the input, the desired quality of the output, the particular process employed and the degree of automation. Since the area has a rich wind potential the possibility to install wind turbines to cover the electric load is investigated.