

## **INVESTIGATION OF THE ENVIRONMENTAL IMPACT OF WIND TURBINES INSTALLATIONS**

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### **ABSTRACT**

The environmental attractiveness, the fossil fuel resource preservation and the reduction of dependence on energy imports lead the E.U. to insist on the high penetration of the wind energy in the European energy market, especially in areas with significant wind potential, like the Aegean Archipelago. In order to proceed in an integrated energy strategy and in addition to the techno-economical parameters examined in similar cases, a complete investigation of any environmental impact of the wind turbine installations on the local ecosystems is carried out. Accordingly, a brief description of the results of several opinion surveys, including the recorded values of the “NIMBY” index, is given along with the corresponding legal frame. The results obtained are very useful in any decision to be taken, in the area of the European and local energy planning.