



المدرسة الوطنية المتعددة التقنيات
Ecole Nationale Polytechnique



Mechanical Engineering Department

Laboratory of Green and Mechanical Development -LGMD

**Thesis submitted to the Department of
Mechanical Engineering
in partial fulfillment of the requirements for the degree of
Doctor in Mechanical Engineering
Major: Clean and Renewable Energies**

Aerodynamic investigations of H-type vertical axis wind turbines

Presented by
Samir Ouchene

The defense will take place on Thursday, April 25, 2024, at 15h00, in the Ouabdesslam Amphitheater (formerly 1C).

In front of a jury composed of:

Chair	Saïd Rechak	Professor, ENP, Algiers, Algeria
Supervisor	Arezki Smaili	Professor, ENP, Algiers, Algeria
Co-supervisor	Hachimi Fellouah	Professor, Université de Sherbrooke, Canada
Examiner	Samir Hanchi	Professor, USTHB, Algiers, Algeria
Examiner	Mahmoud Mekadem	Associate Professor, EMP, Algiers, Algeria
Examiner	Abdelhamid Bouhelal	Associate Professor, ENP, Algiers, Algeria
Invited	Sofiane Khelladi	Professor, ENSAM, Paris, France
Invited	Ali Benmeddour	Research Director, NRC, Canada
Invited	Ahmed Bekhti	Research Associate, CDER, Algiers, Algeria