Utility-scale airborne wind energy in the future European electricity market

The research objective primarily consists of analyzing the effect of utility-scale airborne wind energy generation on the European electricity landscape. Investigating how this cutting-edge technology can be used to complement conventional wind and solar energy in an energy market with dynamic electricity prices. Conversely, it will be investigated how the electricity market influences the design and operation of airborne wind energy systems.

This Ph.D. is an integral part of two research programs:  
1. NEON: <https://neonresearch.nl/work_package/airborne-wind-energy/>

2. IEA Wind task on airborne wind energy (Task proposal is being finalized)

Research partner: Ampyx Power - <https://www.ampyxpower.com/>

Supervisors:  
Dr. -ing. Roland Schmehl, Faculty of Aerospace Engineering, TU Delft  
Dr. Michiel Kruijff, CTO, Ampyx Power