

**Title:** FloaTech: A Floating Foundation Technology for Offshore Renewable Energy Structures

**Duration:** April 2024 to March 2026

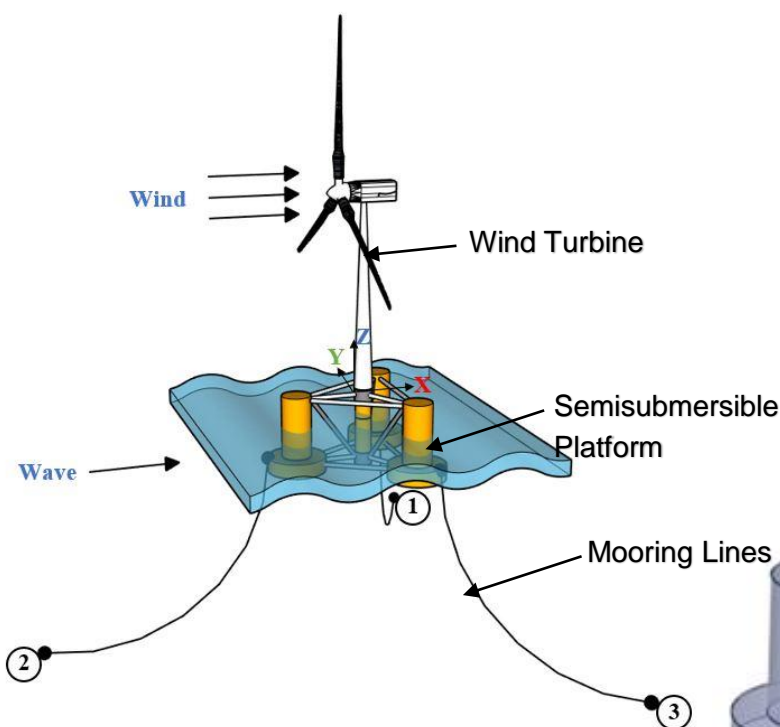
**Objectives:**

- Development of a detailed design of floating platform for offshore wind turbine and hybrid offshore wind turbine and solar farm
- Fabrication of a scaled model of floating platform for performing the experiments
- Evaluation of the dynamic response through experimental testing and numerical simulations

**Progress Highlights:**

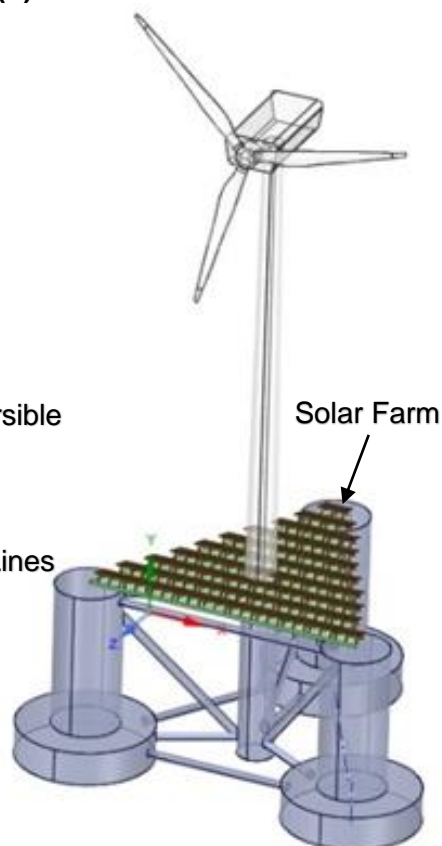
- ❖ Arrival of preliminary configuration of floating platform for offshore wind turbine and hybrid offshore wind turbine and solar farm
- ❖ Effects of wind-wave misalignment and yaw misalignment on dynamic response of floating offshore wind turbine

(a)



**(a) Floating offshore wind turbine**

(b)



**(b) Hybrid floating offshore wind turbine and solar farm**

**Future Programme:**

- Free decay experiments and wave flume tests on floating offshore wind turbine
- Numerical simulations of free decay tests on floating platform for offshore wind turbine and hybrid offshore wind turbine and solar farm

**PI and Co-PI**

Dr. A. Subbulakshmi (PI)  
Dr. Mohit Verma (Co-PI)  
Dr. J. Venkatesan (Co-PI)

**Team:**

Dr. M. Keerthana

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