

flow distribution. Overall, robust energy harvesting deployment is possible with low-cost and scalable technologies with additive manufacturing and smart engineering materials.

Successfully meeting all the assigned tasks, the collaborative research has undergone several iterations of prototypes and testing. Currently, at a TRL 6, the integrated system has been demonstrated to work in a laboratory and a suitable fluid flow environment. These prototypes and results have helped propel the contribution to the scientific community and improved Qatar University's research work, which has been attributed to:

- Supervision and training of postgraduate students.
- 7 Web of Science indexed articles with an additional 4 under review.

- Selected to present scientific findings and innovation in the 17th Qatargas Engineering Forum.
- Increased exposure in sustainable student innovations by representing the QU booth in Challenge and Innovation Forum 2021.
- Technology transfer and awarded the best presentation in the International Conference on Electronics, Instrumentation and Devices 2021.
- Delivered a Keynote speech at International Conference on Electronics, Instrumentation and Devices (ICEID 2021), 24 June 2021, Technological University of Malaysia.

Currently, more work is being conducted on the final prototype with a novel self-aligning mechanism towards patenting or licensing opportunities with Qatar Energy companies.

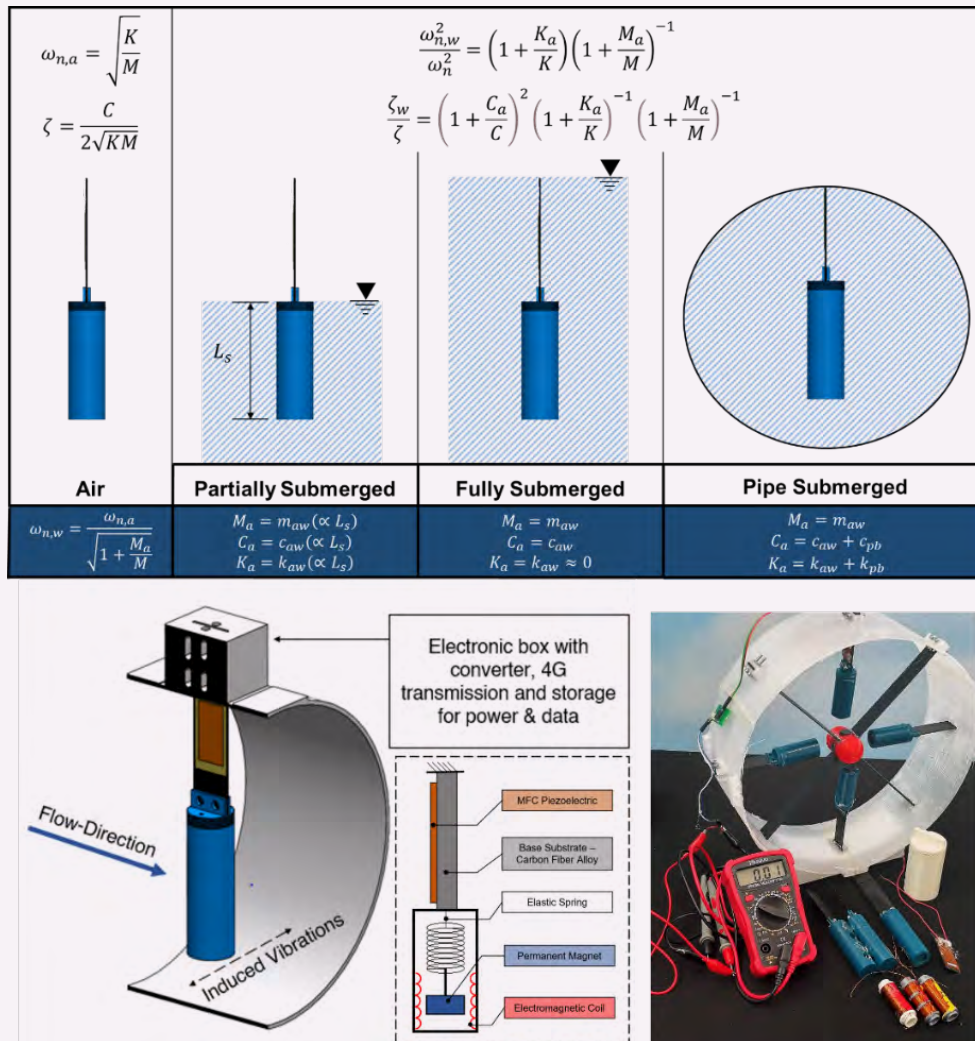


Figure 2. Vortex-Induced Vibration Energy Harvester Prototype graphical summary.