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The dynamics and power absorption of cone-cylinder wave energy converters with three degree of freedom in irregular waves

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## **ACCEPTED MANUSCRIPT**

- 1. Motions and wave energy capture of a cone-cylinder WEC with three DOF are presented.
- 2. Effect of PTO damping, design parameters on power capture and efficiency are studied.
- 3. An optimized WEC is chosen. The absorbed power and efficiency are 38.95 kW and 60.51%.
- 4. Power capture is predicted for the optimized WEC at six stations in East China Sea.
- 5. At six stations, the absorbed power is 19.18-38.59 kW and efficiency is 37.98-47.95%.

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