Power captured experimentally from water wave using the wave hunter system

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The most critical problem the modernization and development of any country face is the energy crisis. This issue has strongly appeared in the last decades due to the rise in fossil fuel price and environmental impact of combustion. The world will need new energy supplies and an upgraded energy infrastructure to meet the growing demands for electric power and transportation fuels. For this situation, much clean energy is expected to blossom to satisfying the energy amount for this civilization, which is inflating. Wave energy is one of the green energies available annually and has enormous energy stored. However, the problem is that type of energy has not been effectively used so far. A new design is introduced to the wave energy conversion system to produce power from regular and irregular waves. This system is called “Wave Hunter”. Furthermore, the results introduce the experimental testing evaluation of this system with some innovative float shapes in water tank.

Biography
A Ramadan has completed his PhD from Helwan University, Faculty of Engineering, after finishing the scholarship period from DAAD. He studied at Institute for Fluid Dynamics and Ship Theory (FDS) of Hamburg University of Technology (TUHH), in the field of wave energy conversion system. He is a Lecturer in the Basic Science department, College of Engineering and Technology, Arab Academy for Science and Technology and Maritime Transport (AAST), Cairo. He has published 7 papers in international conferences and journals.

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