



Capturing energy from ocean waves, an inexhaustible source of energy that is also irregular and varied in frequency, is one goal of alternative energy research.

Current technology, however, tends to require tuning or realignment for different wave frequencies and direction, and is costly to make and maintain.

This vertical-axis unidirectional wave energy converter (WEC) captures energy from omnidirectional wave motion, and its design makes wave frequency less of a concern.

This simple design works efficiently in varied-frequency, multi-directional, irregular waves. It is also easy to integrate with various power take-off systems and platforms.



(image source: inventor)

For further information regarding this Technology please contact:

#### **Office of Research Translation**

1201 W. University Drive  
Edinburg, TX 78539  
956-665-3032  
ORT@utrgv.edu

## Wave Energy Converter

### Competitive Advantages

- Energy from waves in any direction
- Energy from irregular wave motion
- No need for tuning
- One-piece rotor construction
- Various rotor blade designs

### Commercial Applications

- Generate inexpensive energy from coastal waters.
- Desalinate seawater.
- Use lift-type or drag-type rotor motion.

### IP Status

- Patent pending
- Licenses available

### Status of Development

- Prototyping stage

### References

[A Vertical Axis Wave Turbine with Cup Blades](#)

### Lead Inventor



Dr. Yingchen Yang  
Associate Professor  
Email: [Yingchen.Yang@utrgv.edu](mailto:Yingchen.Yang@utrgv.edu)

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