

# THE MAGNETIC FORCE TORCH

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



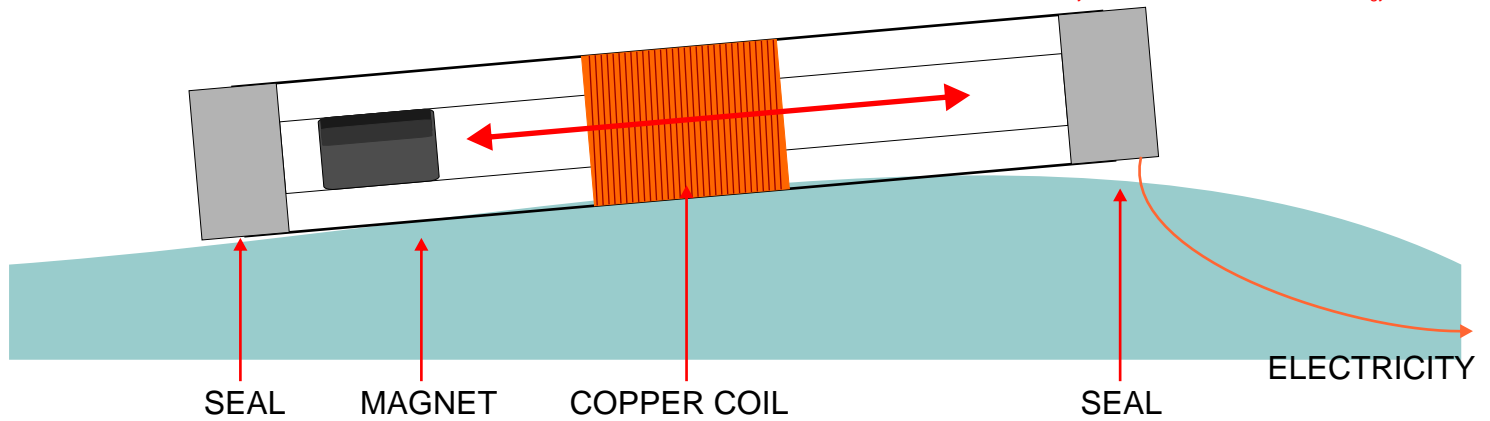
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The magnet force torch proves that electricity can be generated from reciprocating motion ( back and forth motion). This technology can be applied to other areas of energy production. For example the diagram below shows how wave energy could be used to cause movement of a magnet within a sealed watertight tube. The electricity generated could be stored on land or supplied to the national electricity grid. The tube could be anchored to the sea bed. Furthermore, there could be hundreds of these devices held together in a line.

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Sketch two more ways in which this technology could be used to produce electricity for personal consumption. For example, if a device like this was built into the hull of a boat electricity could be created by the natural movement of the boat on the waves.

OR

As a person walks or runs, a magnetic force device inside a mobile phone could generate electricity to replenish the rechargeable battery.

### SKETCH

### NOTES

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