

**Categorie Premio**      **Accessibilità**      **Sostenibilità**      **Qualità della vita**

**Product Name**      Energee-Saw

**Designer**      Daniel Sheridan

**Company Name**      PlayMade Energy Ltd

**Entire Address**      The TechnoCentre, Puma Way,  
Coventry, West Midlands, CV1 2TT, United Kingdom

**Telephone**      +44 7795 170845

**E-mail**      [daniel@playmadeenergy.com](mailto:daniel@playmadeenergy.com)

**Website**      www.playmadeenergy.com

**Italian Dealer**      n/a

**Entire Address**

**Telephone**

**E-mail**

**Website**

**Referring contact for the Award**      As above

**Company**

**Telephone**

**E-mail**

**Referring contact for possible exposition in April**

**Company**

**Telephone**

**E-mail**

**Categorie Premio**

**Accessibilità**

**Sostenibilità**

**Qualità della vita**

**Description of innovation social values**

- product category
- formal and functional features
- problems solved by innovation
  - user
  - field of application

- This product could be placed in all the categories; it provides access to a small yet important amount of electricity for underprivileged schools, it is designed to be sustainable through it's use of components and method of installation and it can help to improve the quality of life and education of some of the world's poorest children.
- The Energee-Saw will be supplied in kit form with local materials then used to build the main structure of the see-saw. This greatly reduces logistical costs and the carbon footprint of transportation. It also engages the local community into the build of the product - fostering a pride of ownership and providing some work. The product will power low-drain electrical appliances such as LED classroom lighting, communication devices, radios and mp3 devices. The use of LED lighting will reduce the need for candles and kerosene lamps which are detrimental to health. Communication and mp3 devices will aid with the administration of regional schools, curriculum development and teacher training.
- This product has global potential as there are so many school communities in the world lacking access to electricity. The product also has a potential application in the western world where the amount of electricity generated is too small to make a real impact. Through installation at schools particularly in Europe and North America it can be an educational tool to demonstrate that fun sustainable product design can help make a small change in the world, in this case through the use of renewable energy and sustainable materials.
- PlayMade Energy is currently building partnerships with charities and foundations to supply Energee-Saw kits to schools. This ensures there is ground level support to install and maintain the product.

**Description of technical features**

- operations
- technology

- The product is still undergoing final development.
- The Energee-Saw utilises an existing commercial electricity generation unit, adapted for use within a see-saw.
- The product is supplied as a kit composing of generator equipment and assembly components – essentially the items which can not be sourced or produced in rural and/or poorest parts of the world. The structure of the see-saw is from timber which will be sourced locally in a sustainable manner by each school community.
- A simple pictorial set of instructions will also be supplied in order to ensure the Energee-Saw is installed correctly.
- The school children will also have the opportunity to customise and paint the side panels of the see-saw themselves. This will help enhance the long-term care of the product by instilling a strong pride of ownership.

**Dimensions**

4 metres length.  
0.6 metres width.  
Approx 0.75 metres height.

**Materials**

Generation unit, metalwork assembly components, locally sourced sustainable materials including timber and used vehicle tyres.

**Certifications**

Currently undergoing consultancy for appropriate certification.

**Benefits for environment**

Much of the developing world desperately wants access to electricity to aid development. Schools particularly require electricity as good education is often identified as one of the logical routes out of poverty for children. This product provides renewable electricity as a by-product of kinetic energy - energy which is spent by hundreds of school children at play time everyday anyway. This product helps to empower schools without increasing greenhouse gases.

**Benefits for human being**

The Energee-Saw provides underprivileged children with a fun piece of playground equipment to freely play on. The provision of playground equipment alone can help to increase the quality of life for such children. As a by-product of pupil's play and enjoyment, a small amount of electricity can be generated for their own benefit – via education and potential reduction of health risks from currently used light sources. This product has been designed to enhance the lives of school pupils in parts of the world where there is no access or very limited access to electricity.