

Categorie Premio	Accessibilità	Sostenibilità	Qualità della vita

Product Name	Engergy Seed
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Description of innovation social values

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

Do you know little trashed batteries which seem useless can light our streets?

Every year, a number of batteries are deserted, and 70% of them are dumped out as ordinary waste, not being recycled. On top of that, most of the batteries discarded into battery cell collectors can still be used. Chemicals (nickel, cadmium) left in the batteries cause soil pollution, if burnt or buried in the ground.

Used batteries that are dumped out thoughtlessly can light LED. They contain usable 0.8~1.3v of power, which is hard to make a broken clock work again, but more than two of them are enough to light a LED requiring 2v.

Trashed batteries are not waste we cannot use any more, but can generate energy although small, and these small amounts of energy, if combined, can produce huge amount of energy. This tells us that trashed batteries have sustainable potential as energy.

Description of technical features

- operations
- technology

In a minimized structure, Energy Seed is placed in public places, and only with minimum effort, it is easy to collect used batteries.

It is designed inside to collect batteries in a serial structure to maximize the collection and the use of left over energy. Before collected energy turns into energy, it induces environment-friendly use of energy by allowing the light in when natural light is minimized with resort to a simple timer function.

Dimensions

200 * 200 * 1400 (mm)

Materials

Plastic & Steel

Certifications

Benefits for environment

Energy Seed is an environment-friendly collector of trashed batteries which collect small levels of energy of trashed batteries to light public places. It looks like a full-bloomed flower in a pot, so you may feel like planting energy seed in a pot and feel joy, when you put a used battery into the collector. Also, trashed batteries which were deserted without knowledge of chemicals (nickel and cadmium) being left inside are reborn to light the darkness through Energy Seed, showing the potential of trashed batteries as energy sources. Chemicals (nickel, cadmium) of trashed batteries will be minimized and contribute to the reduction of environmental pollution

Benefits for human being

To throw away used batteries, you can go out to Energy Seed in the streets and put batteries into the box as if planting seed in a flowerpot. When the sun goes down and night comes, Energy Seed naturally lights itself as if a flower blooms. Now, people around it can see how trashed batteries are re-used. Likewise, in a couple of months, if the light gets weak, collecting workers take the batteries easily in the end. The batteries now are collected, with chemicals (nickel, cadmium) left as energy sources being emptied and used completely.