



# BREATHING ELECTRICITY

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# Device

- The device is the called the AIRE and it charges a phone by breathing through an air mask.
- The new AIRE concept – a system that converts air flow harnessed from breathing into energy that can be used to charge devices like smartphones and mp3 players.
- Uses air displacement(wind) to power a device.

# Device

- The AIRE, which won a Reddot design “best of the best” award in 2011.
- It can be used wherever, whenever, offering a 24 hour renewable energy source.
- It can be used while sleeping and even running.
- This renewable energy source also reduces carbon footprint that people generally emit while breathing.

# AIRE



The mask harnesses wind power created by breathing and converts it into electricity.




The AIRE mask works equally well during sleep.



# Creator

- The AIRE was created by Joco Paulo Lammoglia, an inventor from Rio De Janeiro, Brazil.
- Lammoglia believes in “conceptual design,” which means he likes to go beyond the obvious design and to show how simple ideas can change lives.





“I hope to bring the concept into production and reduce the carbon footprint. It can be used indoors or outdoors, while you’re sleeping, walking, running or even reading a book. Besides saving energy and helping environmental preservation, it also encourages physical exercise. Though many of our modern gadgets offer benefits, they tend to use a high amount of electrical energy. Harnessing energy from human activities and transforming it into electricity is possible and is a great solution.”



# How it works

- The mask contains small wind turbines that convert our breathing into electricity energy that charges the phone.
- “Imagine a wind farm with our lungs as massive gales of power; the mask is the spinning turbine converter and our electronic device the beneficiary.”
- The device will be able to power any personal electric device, including iPods, iPads, tablets and mobile devices.

# AIRE as Art

- AIRE can be portrayed at an art museum as a form of renewable art.
- People can use it to charge their phones while walking around the museum.
- Although people might look a little awkward, or like darth vader in this mask, it is a simple way to lessen carbon dioxide in the air.

# AIRE as daily form of art

- The AIRE can also be used in daily places that people regularly visit.
- It could be placed in libraries or subways; places where people can regularly use it 24/7.
- Although it would have to be sanitized regularly, the AIRE could be a great way for people to have their phones charged 24/7.

# More Creations

- A human-powered/solar hybrid charged device is an environmentally friendly alternative from devices that use a lot of energy.
- Joco Paulo Lammoglia, the creator of AIRE, has a lot of new and fun inventions that can help the environment.
- His new inventions all focus on simple objects that we use daily and adding design and function to them.

# More Creations



- MOOV has been designed to convert energy retained during a run in electric power to charge small electronic devices.
- Inside the shoe's sole there is a piezo-electric generator that makes the conversion.



•<http://www.joaolammoglia.net/>

# Conclusion

- Simple new inventions, such as the AIRE is one leading step into new creations that can easily help the environment. Breathing through the AIRE, not only reduces carbon dioxide but it is also renewable 24 hour energy. This is just the beginning of new ideas that can better the earth and lead a new direction into art.

# Sources

- <http://www.joaolammoglia.net/>
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