

WTAWARD 2013

Categorie Premio

Accessibilità

Sostenibilità

Qualità della vita

Product Name

biolamp

Designer

Peter Horvath

Company Name

Peter Horvath

Entire Address

Via/Piazza..... n°.....
CAP..... Città Prov.

Telephone

E-mail

Website

Italian Dealer

-

Entire Address

Via/Piazza..... n°.....
CAP..... Città Prov.

Telephone

E-mail

Website

Referring contact
for the Award

Anna Tóth

Company

-

Telephone

+36 20 577 67 90

E-mail

toth.anna.eszter@gmail.com

Referring contact
for possible exposition in April

Mate Tóth

Company

-

Telephone

+36 70 611 98 78

E-mail

mate@hellowearethewise.com

Description of innovation social values

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

My biolamp's category is sustainability.

The object I have designed basically aimed air cleaning and it also products fuel for environmentally friendly vehicles. This solution is combined with street lamps (because there are many of them on the streets). Inside the streetlamp there is a liquid- alga mixed with water- which transforms CO2 to Oxigen. I found out a concept for the used algae liquid;called –biomass. It can be used as biofuel if we conduct it to filling stations.

My lamp's form is organic, which makes a natural impression.

Description of technical features

- operations
- technology

At the upper part of the lamp (pipe1) a ventilator is sucking the smog inside - which streams into the alga liquid. This liquid is being circulated in a spiral system thanks to a pump,which helps the alga absorbing the CO2 better. In the other pipe (pipe2) this progress stops. If we leave the liquid in a standing position it hands down the oxigen . Thanks to the frequency of the street lamps the air cleaning is more effective.

The sunlight , CO2 and water transforms the alga into biomass. It is known that fuel can be made out of biomass. After the alga liquid is saturated with co2 it needs to be led to tubes, which are under the ground. The tubes lead the biomass to the closest filling station. Here, biofuel is made of that for the environmentally friendly cars. After this the street lamps should be refueled with alga.

Dimensions

Since the biolamp is a concept, it needs further investigations. It's height is approximately 5m and it's diameter is 15-20cm.

Materials

aluminium, glass, algae liquid

Certifications

-

Benefits for environment

The object I have designed aimed air cleaning – it transforms the CO2 to Oxigen, and it gives an alternative fuel option for the environmentally friendly vehicles. My concept is a system, which reduce the smog.

Benefits for human being

This objects helps the people to inhale cleaner fresh air- it makes a healthier better way of urban life.