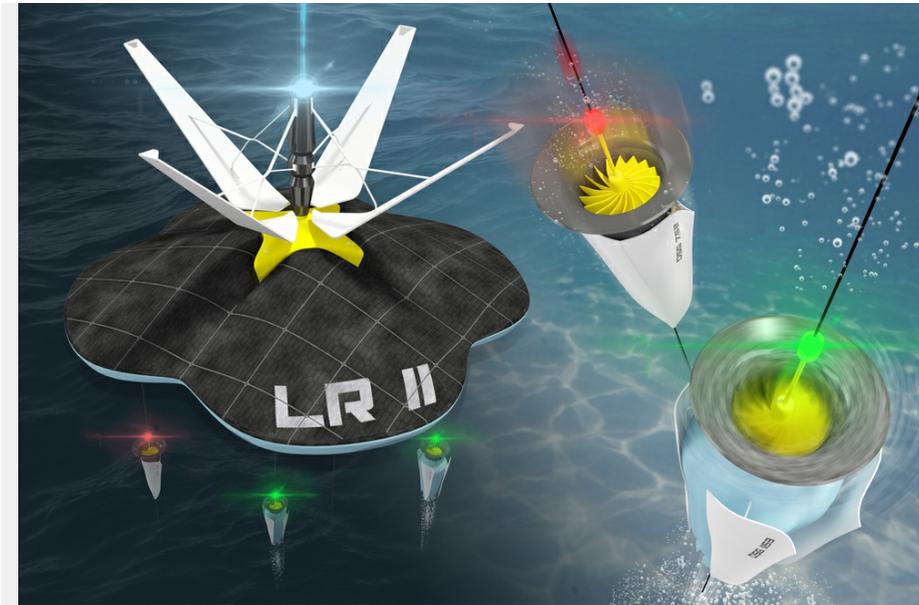innogy

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...

Observation

We are yet to discover the power water can generate. People are still trying to make the most of the energy water can encapsulate. Another big problem is the fast distribution of power. As consumption increases we cannot rely anymore on cables and wires.

Conclusion

The oceans and seas are a vast energy resource and we must take maximum advantage and try to transform it into electricity. Another big challenge for us is making energy distribution low cost, fast and reliable.
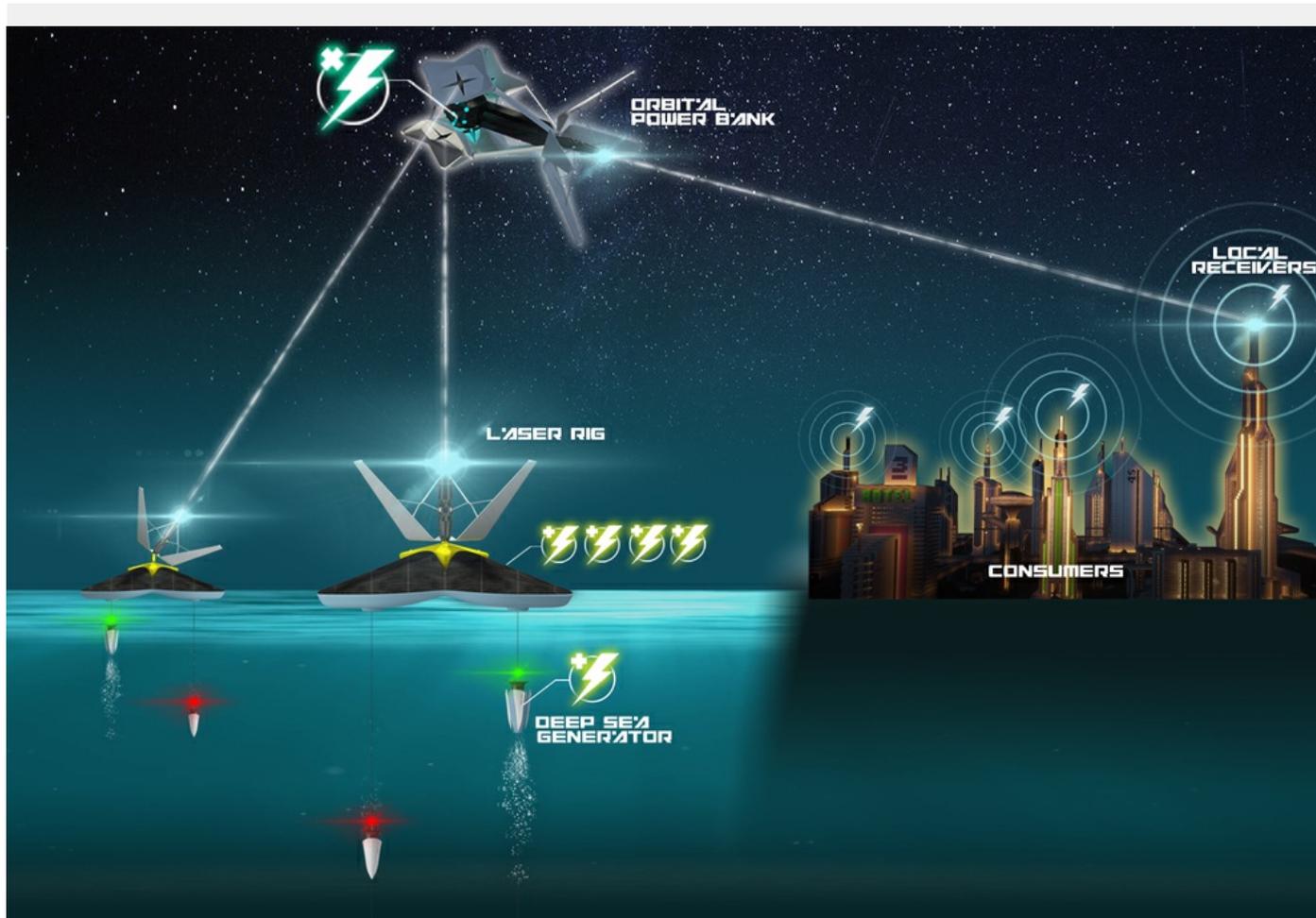

Solution

Energy can be generated by the up and down movement of sinking and resurfacing. A floating rig can store energy from multiple generators and send it to an orbital power bank. The power bank can then distribute it to consumers all over the world. All the distribution can be done with the power of the laser beam.

jovoto

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...


What makes your solution unique?

From the innovating way of generating energy to the way we can store and distribute it, my idea is unique and plausible. The visual explains the process of energy transmission through laser from the generators to local receivers. From there the receivers distribute energy through radio waves.

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...
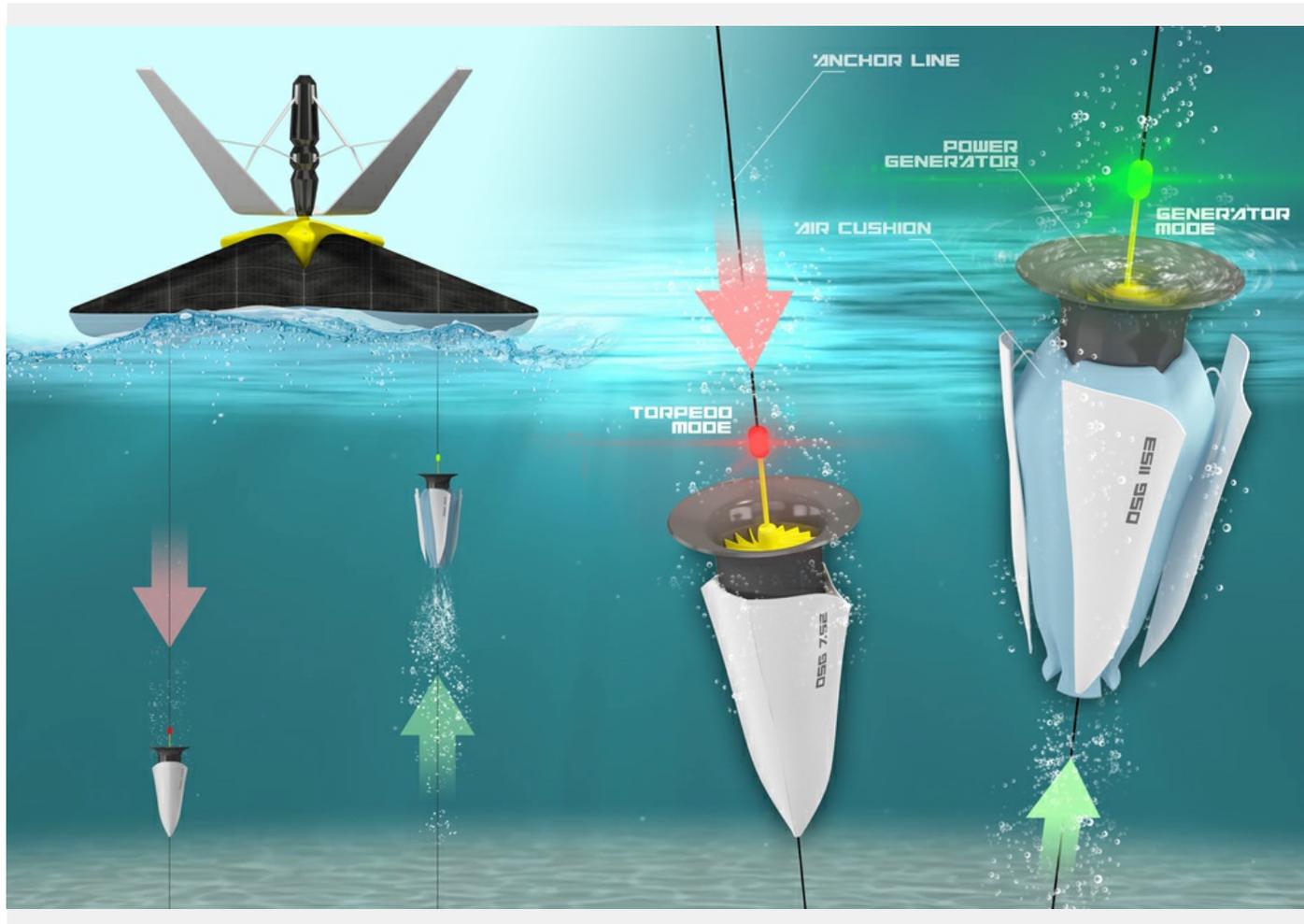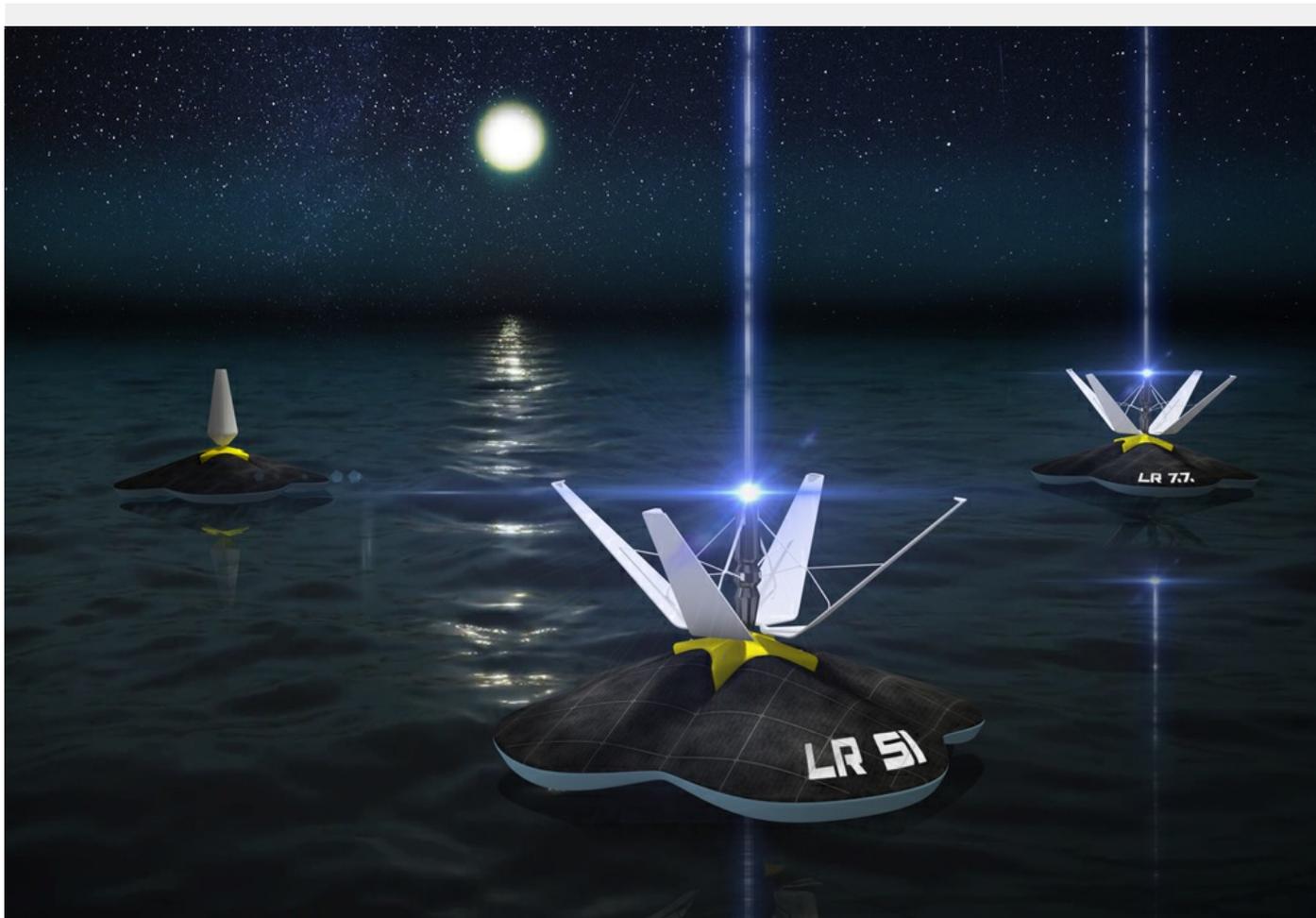

How it works: Step 1

The rig is anchored to the sea floor with hollow cables. The generators are torpedo shaped to sink fast. They travel on the cables. As they reach the bottom air is inserted to inflate the generator's air cushion. As the generator rises It's propeller rotates creating energy.

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...
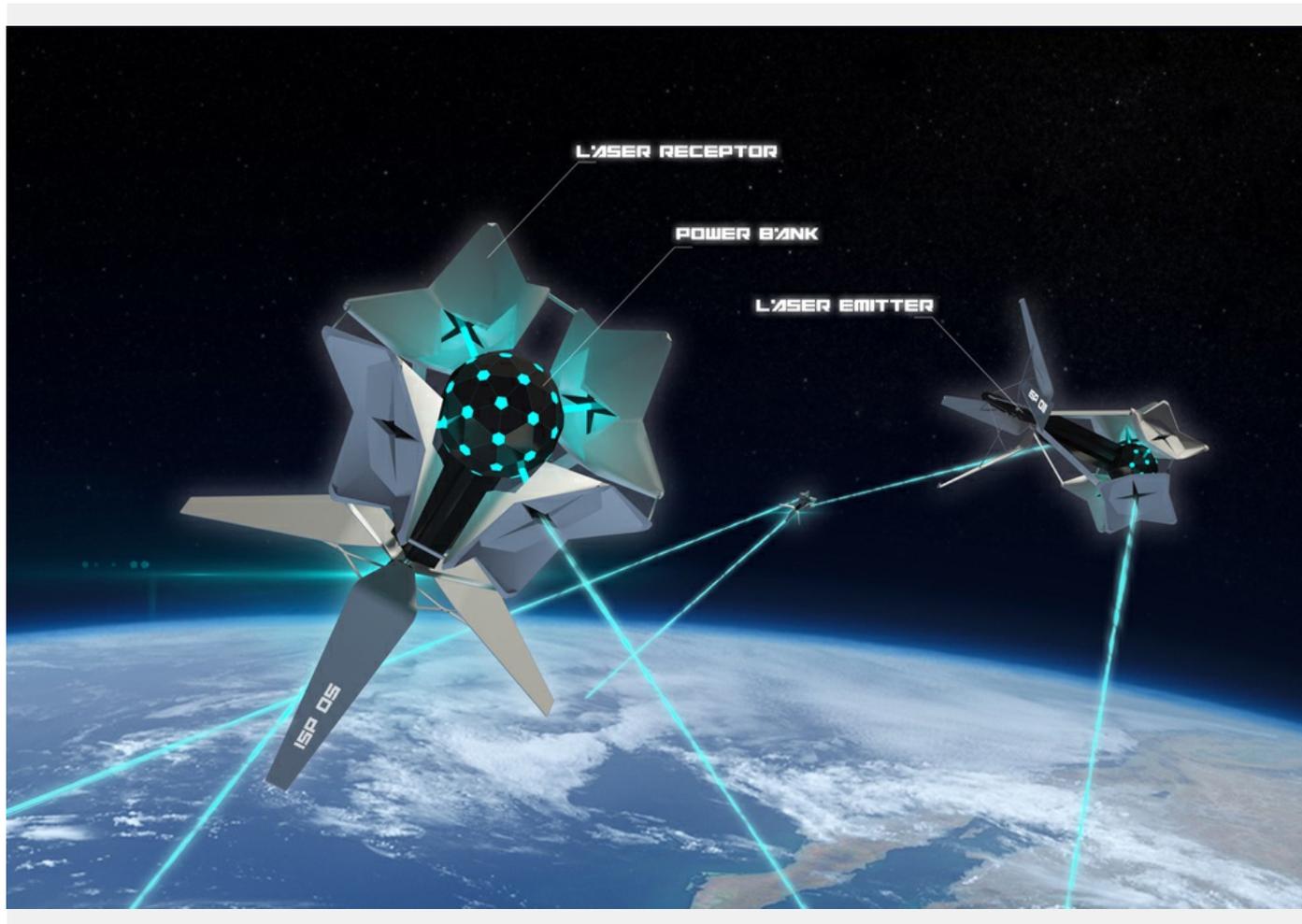

How it works: Step 2

Each floating laser rig has a power storage unit. When it is fully loaded the rig opens unveiling the laser. The laser's head adjust it's position and sends the energy to the orbital power bank.

Status: 15.06.2018

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...

LASER RECEPTOR

POWER BANK

LASER EMITTER

ISA 05

How it works: Step 3

The orbital power bank collects energy from the floating rigs or from each other creating a power distribution network. The orbital network provides energy to local receivers anywhere in the world. Each building has a receiver that provide wireless electricity to the consumers via radio waves.

Status: 15.06.2018

From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...

Describe how your solution works step by step:

1. Power rigs will be anchored to the sea floor with hollow cables. Each rig will have multiple generators. The generators are torpedo shaped to sink fast. They travel on the cables. As they reach the bottom air is inserted to inflate the generator's air cushion. As the generator rises It's propeller rotates creating energy.
2. Each floating laser rig has a power storage unit. When it is fully loaded the rig opens unveiling the laser. The laser's head adjust it's position and sends the energy to the orbital power bank.
3. The orbital power bank collects energy from the floating rigs or from each other creating a power distribution network. The orbital network provides energy to local receivers anywhere in the world.
4. Each building has a receiver that provide wireless electricity to the consumers via radio waves. Each home will have a wireless power router connected to the building's receiver. All the devices and appliances inside the homes will receive power from the router.

Status: 15.06.2018

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From the depths to the sky

What if we can generate power from the depths of the sea and store it in the sky...

Creative's profile

Barbu Bogdan Alexandru PRO
Product Designer
Targoviste, Romania

Creative's top 5 skills

Graphic Design, Illustration, Photography, Product Design

Third party materials used

http://imgs.minecraftdata.com/minecraft-maps/future-city-2-0-map/0ce0a5aad1a7c82513bcfd763619221a.jpg

https://d2v9y0dukr6mq2.cloudfront.net/video/thumbnail/Ca60XcU/night-sea-with-moon_4ylryuqi__S0000.jpg

https://g.glbimg.com/og/gs/gsat3/f/materia/thumb/2016/11/03/earth_orbit_by_phoenix1583-d4t06m6.jpg

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