



torpedo

seawater powered light with recycled bottle

Torpedo is a low-tech solution to two global problems: lack of electricity and plastic waste. The project is a combination of innovation, impact and inclusivity. Torpedo transforms recycled bottles into portable, sustainable light sources, harnessing the power of salt water to produce clean, renewable energy. Salt water is abundant, accounting for 97.5% of the earth's water. Inspired by the electric ray, Torpedo uses salt water as an electrolyte to provide light.

Why Torpedo matters:

- **Clean energy:** Powered by salt water, it offers a sustainable alternative to fossil fuels.
- **Reliability:** Works anywhere, anytime.
- **Plastic waste reduction:** Reuse of discarded bottles, to combat the global plastic pollution crisis.
- **Empowering 1.5 billion people:** It provides affordable, environmentally-friendly lighting for people without electricity. Torpedo gives disadvantaged communities access to light and electricity, essential for education, work, health and safety.

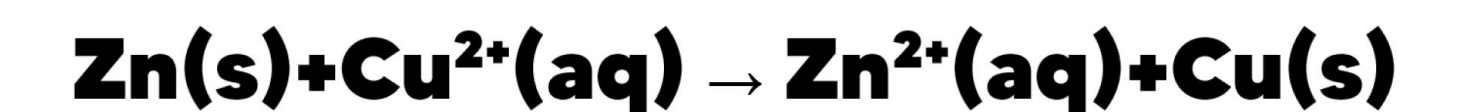
Global challenges



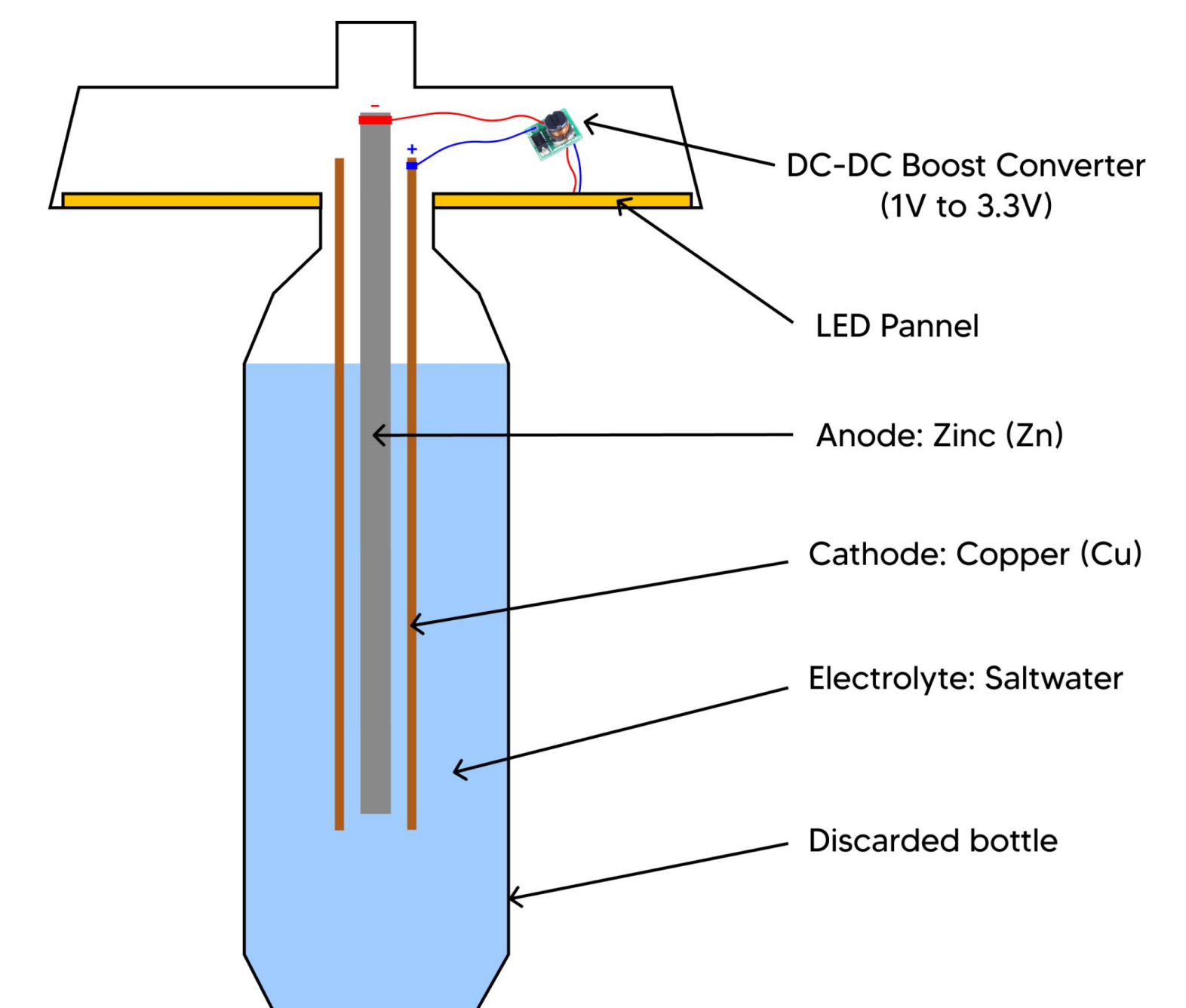
Storyboard



Experimental principles



How it works ?



Your Entry
719149
07 Affordable + Clean Energy

Concept
Torpedo

Student
Justin Bressac

University
University of Technology Belfort-Montbéliard (UTBM)
Montbéliard / France
Department of Mechanical engineering and Ergonomics