



Project “global warming”

Bacteria movement energy

The team

- Lasse Jorgensen
- Cecilie Rasmussen
- Razan Mearraoui
- Blondeau Klea
- Hafidi Fadwa
- Hamdach Marouane
- Loïc Blascot



The global warming project



Brainstorm: How to solve global warming?

- 1) Movement sensors light
- 2) Pressure energy
- 3) Bacteria movement energy
- 4) Stationary sports equipment produce energy

Bacteria movement

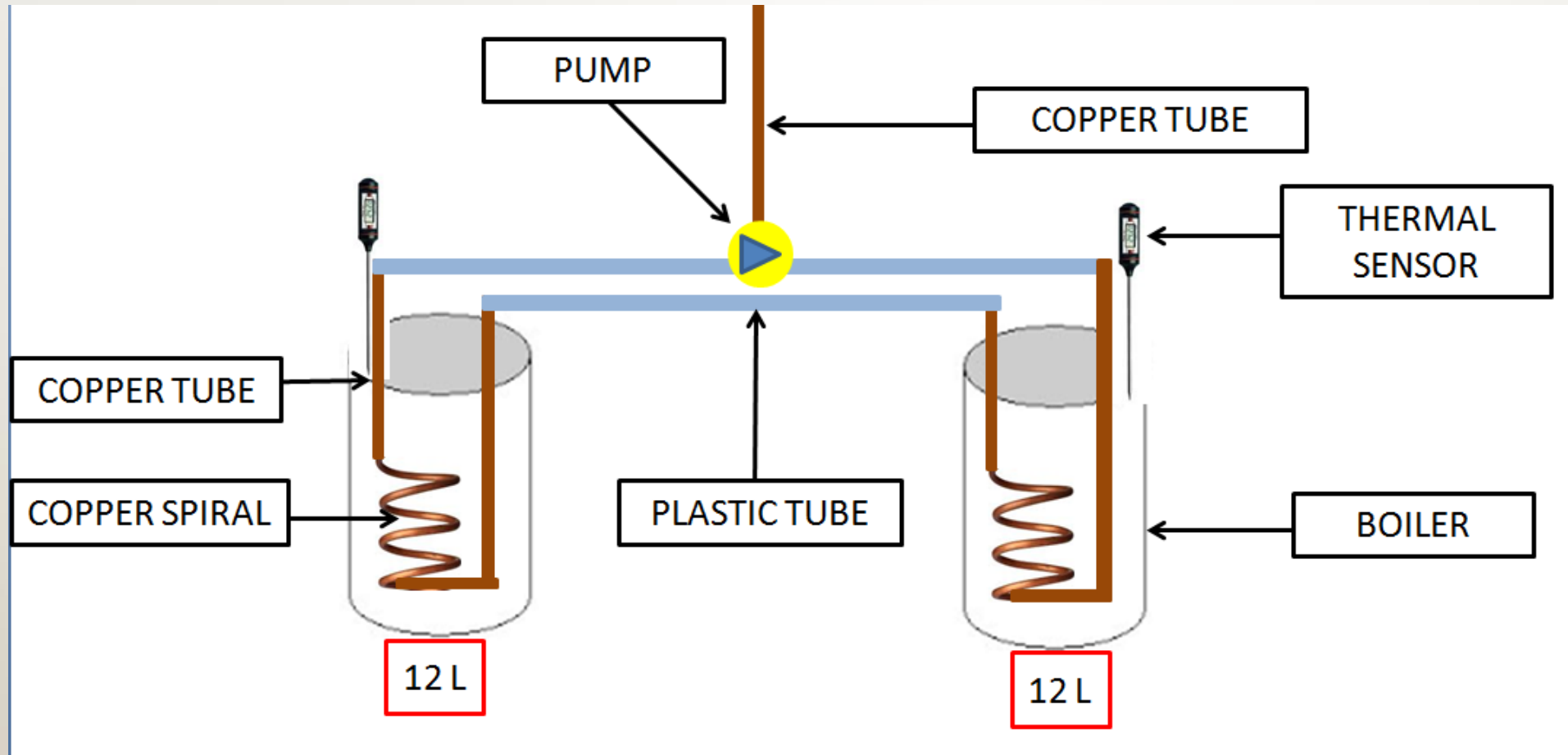
Benefits

- We can use the rubbish instead of throwing out in the nature or burning it
- Heat the water without using electricity
- Its cheap because we are using the bacteria in the rubbish to create heat

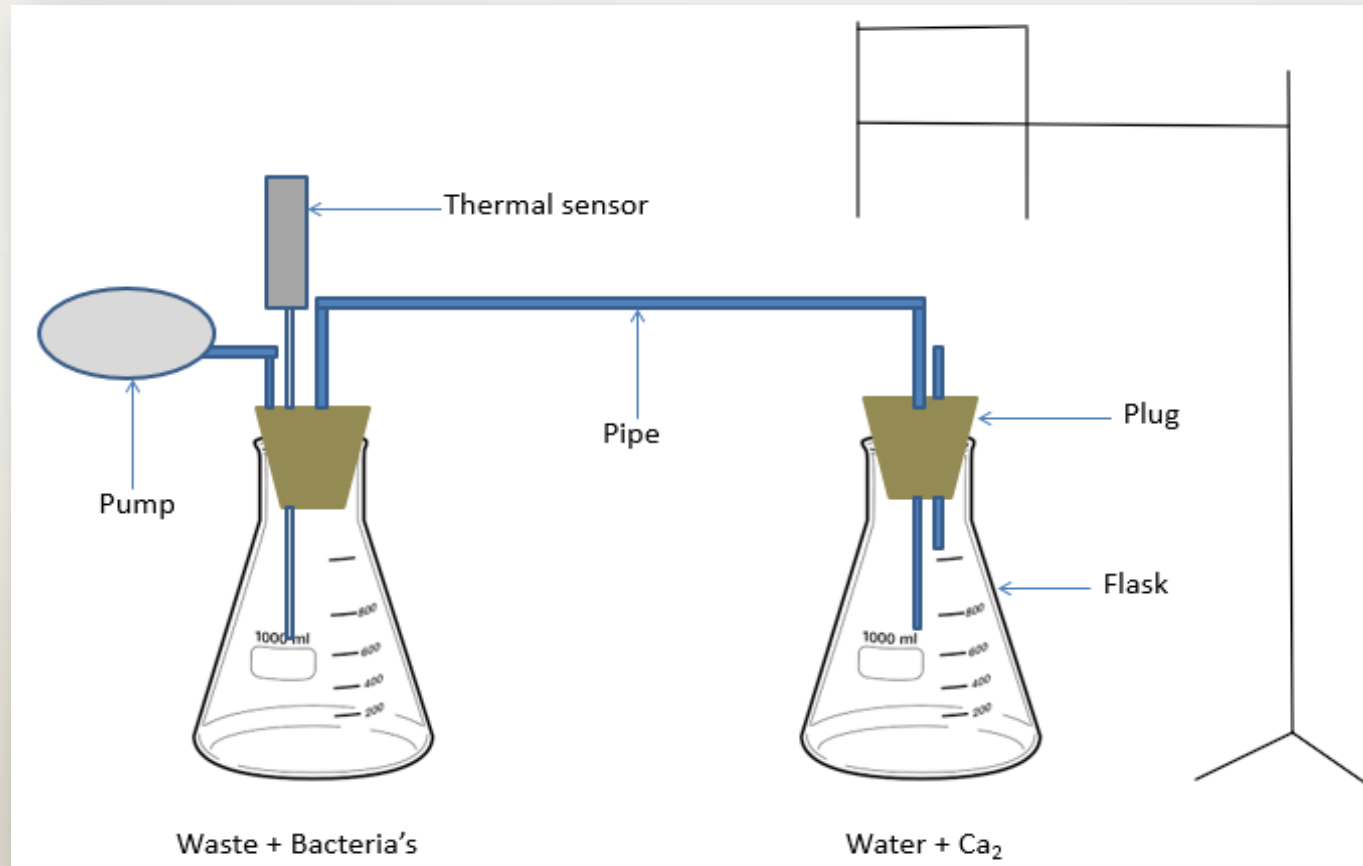
Criteria

- Heat the water up to 40 degrees
- Lower the use of electricity
- Decrease the pollution of CO₂

Functional structure



Bacterial experiment



Energy chain

Electricity (EDF) > Contactor > Regulator > Sensors

Thermal (Cold) > Thermal (combustion) > Use

Check list: Different parts of the structure

| Equipment | Dimensions | Price (€) | Dealer |
|---------------------|----------------------------------|-----------|---------------|
| Inox boiler (2) | 12 L r = 13 cm h = 22,6 cm | 50,00 € | Le bon coin |
| Pump | 12v 60w | 16,33 € | Priceminister |
| Regulator (2) | 10 V | 100,96 € | Cdiscount |
| Thermal Sensors (2) | 6mm diam. | 23,56 € | Automation 24 |
| Pipe (cooper) (2) | 14 mm diam, 4 m long | 21,20 € | |
| Flexible (2) | | 1,80 € | |
| Number of coils | 4 coils | | |
| | total | 212,05 € | |

Gantt Diagram

