

## PURPOSE

What is the biggest purpose behind your idea?  
(a highly aspirational tagline that tries to solve a global challenge)

1. Increase the recycling of wastes.
2. Decrease pollution.
3. Provide an alternative clean source of energy.
4. Increasing the production of electricity.

## SOCIAL IMPACT

What positive impact does your idea have on society?

Our project will benefit the social environment in terms of:  
- Increasing the production of electricity through the use of waste and increasing the number of factories.  
- This increasing the number of possible job opportunities.

## ENVIRONMENTAL IMPACT

What positive impact does your idea have on the environment?

The pollution of the environment and damaging of water and land ecosystems are reduced as:  
- Calcium oxide (CaO): Decompose and has toxic effect on the fish.

- Hydrochloric acid (HCl): Harm the environment as it increases the acidity of soil and disables some organisms from growing.

## PEOPLE

Who will benefit from your idea?

Our project will benefit people from several sides: because it will reduce emissions from electricity production by fossil fuel.

## MOONSHOT

Describe your idea in 3 sentences!

- An exothermic reaction is made using by products wastes in factories and reduce pollution.
- The chosen by products are calcium oxide from waste water treatment and hydrochloric acid from chlorination process done during purification.
- After collecting heat from exothermic reaction done it will be converted to electricity using athermoelectric generator.

## BREAKTHROUGH TECHNOLOGY

Which technologies help you realize your idea?

The technology used in our project is simple and available which is the thermoelectric cooler used to convert the heat into electricity. It is very small and cheap with a cost of only 60 k.E.

## FINANCIAL IMPACT

How do you make sure your idea is financially sustainable?

The materials used are free as they are wastes from factories which will reduce the amount of money spent, thus improving the economy.