# BIOENERGY

# USED COOKING OIL (UCO)



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RENEWABLE ENERGY





# SDG GOALS FOCUSED

#### **Project Aim**

The aim of the project is to identify the level of awareness among general residents on the imapct caused by improper disposal of Used Cooking Oil (UCO). The project team identified that there is lack of awareness among general public on the environmental impact due to improper disposal of UCO which will affect SDG goals 7, 14 and 15. Improper disposal can caulse block in pipelines, fires at landfills, water pollution and some impact on ground water.

Hence this project is to identify the awaness and work out suitable solutions for proper disposal of UCO.

#### Support

The Project Team received support from around 200 participants who did the online survey.

The Project Team initiated discussions with industry leaders and obtained feedback from them on various aspects of UCO.

We also received immense support from GSL team in guiding us throught out the project phase.

Our school teacher also encouraged us to complete the project before the deadline.

## Existing Buildings Solution

Create awareness amont residents on proper disposal of UCO. Collect all UCO in bottles and then engage with waste collection companies to consolidate all the waste and send to recycling companies.

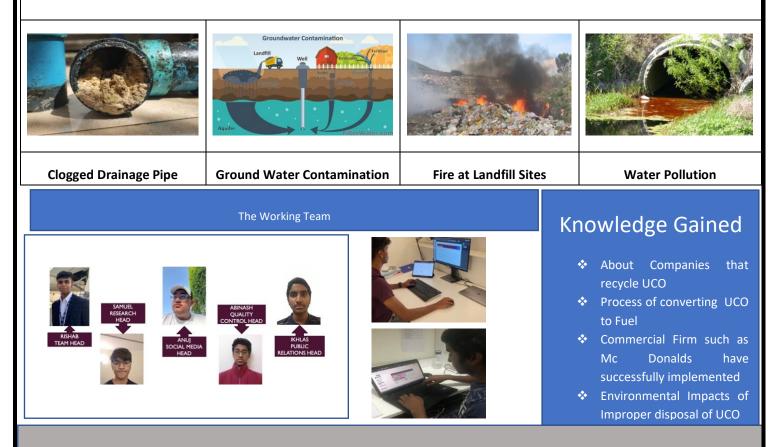
## New Buildings Solution

Design proper UCO drain pipleline connecting all kitchens to a central waste collection unit. The recycling company to collect the waste from the central collection unit and use the UCO for recycling to Bio Fuel.

## **Online Survey Outcome (Top Results)**

- 1. How Big is your Family 56% 4 to 6 members
- 2. How many liters of cooking oil do you use in a week 36.50% quarter a liter
- 3. How ofter do you throw away cooking oil per month 44.72% 1 to 4 times
- 4. How do you usually dispose used cooking oil 41.12% pour it down the drain
- 5. Are you aware that improper disposal of used cooking oil can cause environmental pollution 37.88% Iam generally aware
- 6. Do you know any method of reusing or recycling used cooking oil 56.30% No
- 7. Are you aware that used cooking oil can be used to recycle to Biofuel 45.73% No until now
- 8. Are you aware about the usage of Biofuel 41.71% Iam generally aware

#### **Environmental Impact**



#### Impact

- Creating Awareness among the public on the impacts of improper disposal of UCO on the environment
- Implement the right strategy of proper disposal of UCO for the residents.
- Tie up with waste collection companies
- Engage with waste recycling companies who can produce biofuels form UCO
- Manage the end to end distribution mechanism of the recycled product

Propect Source : Various websites for Photos and information, Surveymoney.com, Instagram, Youtube Videos