

Sourcing and production of waste into
energy systems



MAINTENANCE AND SAFETY CONSIDERATIONS WHEN USING CLEAN ENERGY SOLUTIONS

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In this video you will learn:

- ❑ Background of clean energy solutions
 - ❑ Maintenance and safety considerations when using clean technologies and significance
- ❑ Maintenance considerations when using the MIG bio-cooker
- ❑ Safety considerations when using the MIG bio-cooker



Background of clean cooking solutions

- ❑ Clean cooking solutions refer to the use of cleaner and more efficient cookstoves, fuels, and technologies that reduce indoor air pollution, improve health outcomes, and improve rural livelihoods.
- ❑ In Africa, the use of traditional cookstoves and fuels such as wood and charcoal are common, particularly in rural areas.
- ❑ These traditional cooking methods are inefficient and produce harmful smoke and emissions, leading to indoor air pollution that can cause respiratory diseases, particularly among children and women.
- ❑ According to the World Health Organization (WHO), over 700,000 people die each year in Africa due to exposure to indoor air pollution from cooking with traditional fuels.
- ❑ The adoption of clean cooking solutions in Africa has the potential to improve health outcomes and mitigate the adverse effects of indoor air pollution and climate change.



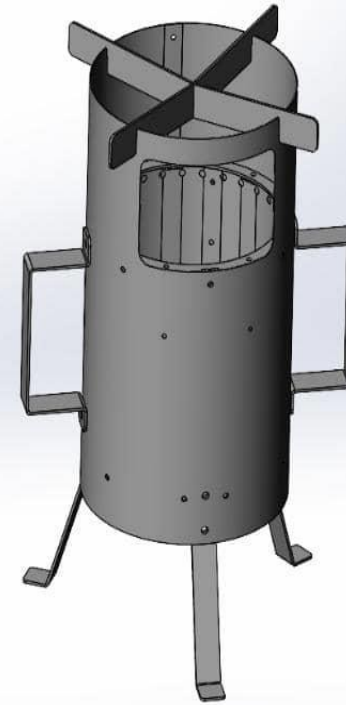
**Examples of
Clean cooking
Solutions**



Maintenance and Safety Considerations

❑ These are a set of recommendations to be followed when using clean cooking technologies.

❑ The significance of following these recommendations is to ensure optimal functioning of the cooking technology as well as safety of the end-users.



The MIG Bio-cooker

Maintenance Considerations

- ☐ First clean the clean cooking technology i.e. The bio-cooker before use.
- ☐ Regularly inspect the clean cooking technology for any signs of damage, wear, or corrosion for timely repairs.
- ☐ Replace any damaged or worn-out parts immediately to prevent accidents.
- ☐ Have the equipment serviced regularly by a qualified technician.
- ☐ Closer attention should be paid to the solar panel place underneath the bio-cooker which can be used for lighting and charging electronic devices.
- ☐ Clean the ash tray after use to avoid build-up of biochar.
- ☐ Contact the distributor or manufacturer whenever the cookstove breaks down or poses health and safety risks.

Safety Considerations

- ☐ Familiarize house occupants with safe practices such as fire evacuation procedures, emergency switch breaks.
- ☐ Use the appropriate protective equipment such as gloves, aprons, and eye protection when handling hot surfaces or fuel.
- ☐ Always use the clean cooking solution in a well-ventilated area to prevent indoor air pollution and carbon monoxide poisoning.
- ☐ Install an ABC fire extinguisher, smoke detector and have a first-aid kit in the home in case of emergencies.
- ☐ Store any fuel used in the stove or flammable materials safely far from any heat sources.
- ☐ Keep children and the elderly far from the stove or fuel container to prevent accidents.

Summary

In this presentation we have learnt about :

- Clean cooking solutions which are better than traditional cooking methods
- Maintenance and safety recommendations when using the MIG bio-cooker.
- Significance of following maintenance and safety considerations
- It is necessary to follow maintenance and safety recommendations to prevent accidents and ensure the longevity and optimal performance of the clean cooking technologies.

**Thank you for watching and listening to my
presentation.**

I believe it was informative.

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