



ISAP 2021

International Forum for Sustainable Asia and the Pacific

IGES
Institute for Global
Environmental Strategies

Knowledge and Technology Transfer

Reduction of Emissions from the Waste Sector

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The International Environmental Technology Centre's vision is for countries to implement sustainable solutions to environmental challenges, with focus on holistic waste management.

IETC assists countries to identify and implement **sustainable technological solutions** to **environmental challenges**

IETC Publications: Waste Management Outlooks and Thematic Reports

- Global, Regional and Thematic Waste Management Outlooks
- Thematic Reports
- Compendia of Technologies and Guidelines

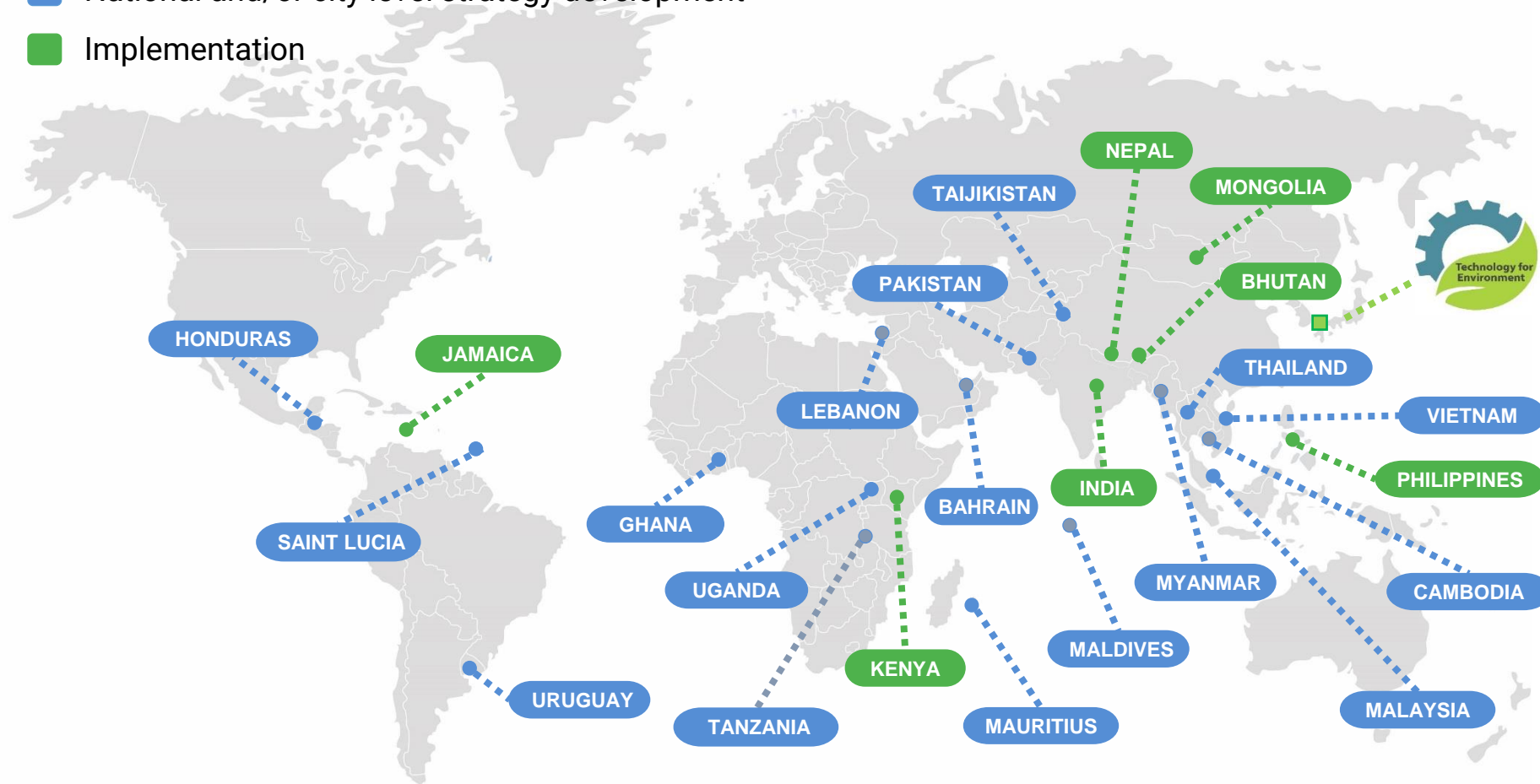


www.unep.org/publications/



IETC support to countries around the world

- National and/or city level strategy development
- Implementation



Many cities and countries are working with IETC to improve Waste Management Governance



Waste and Climate Change Project

Objective:

Strengthen the capacity of policy makers to achieve Nationally Determined Contribution focusing on the reduction of Greenhouse Gases (GHGs) and Short-Lived Climate Pollutants (SLCPs) emissions from the waste sector

1 Policy

2. Selection of Technology/Piloting

3. Access to financing

4. Outreach/Awareness raising



Countries:

Implementing through partners in Bhutan, Mongolia and Nepal.



Funder :

The Federal Ministry for the Environment,
Nature Conservation, and Nuclear Safety of Germany (BMUB).

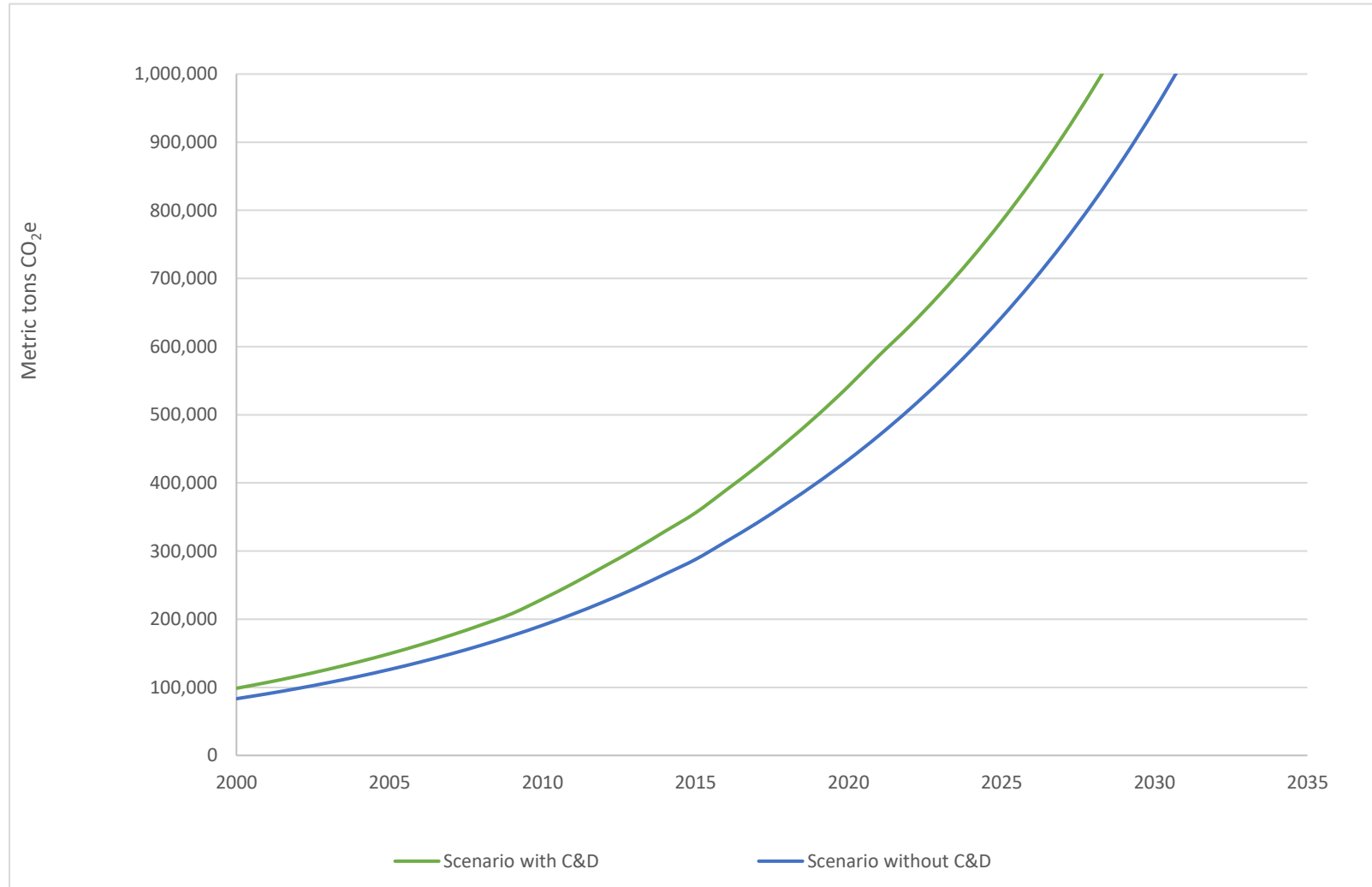
Supported by:



based on a decision of the German Bundestag

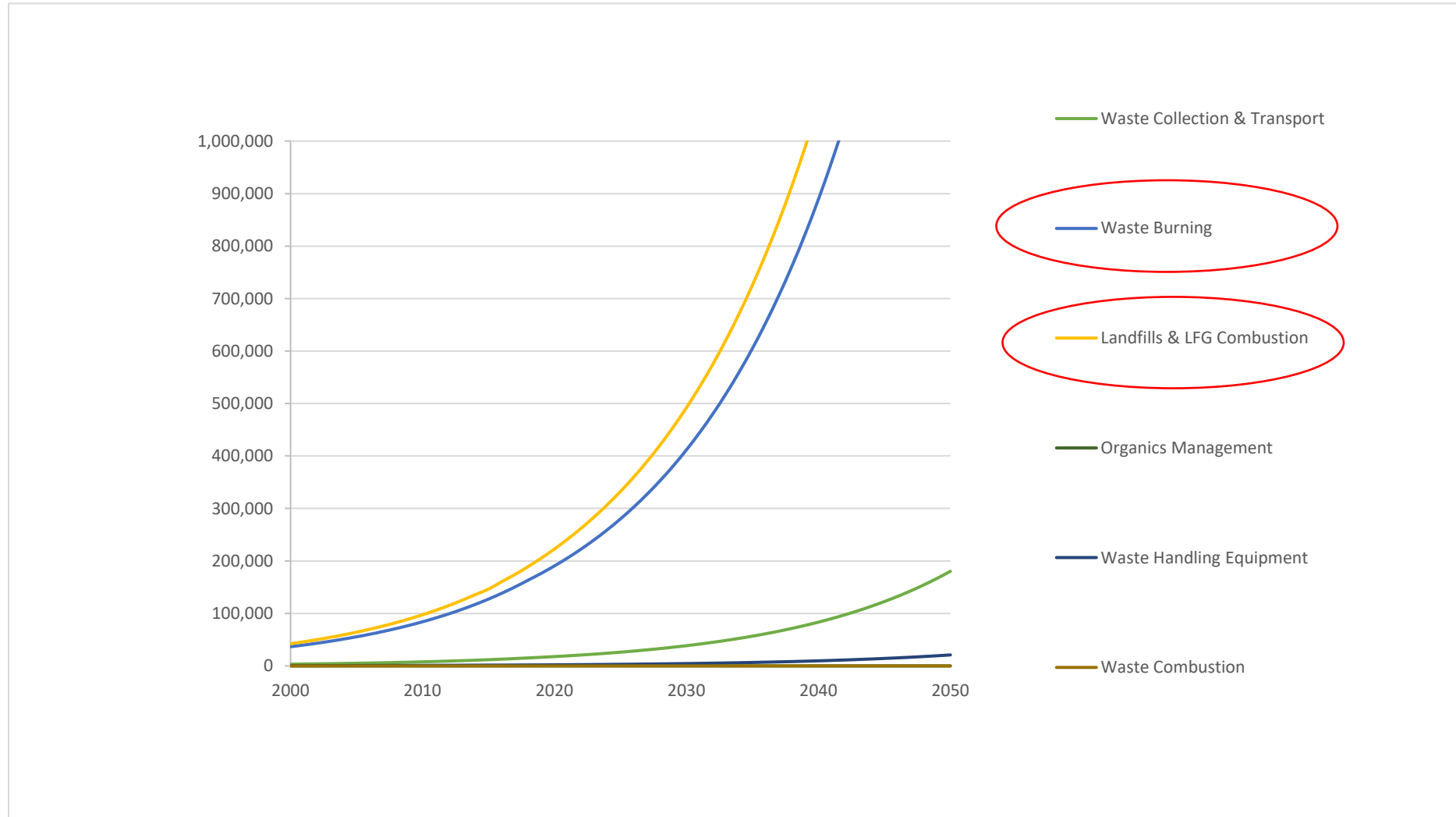
Total emissions estimations in Ulaanbaatar city

Total emissions estimations in Ulaanbaatar city with and without construction and demolition (C&D) waste



Sources of GHG and SLCP emissions in Ulaanbaatar city

Sources of GHG and SLCP emissions in Ulaanbaatar city



Ulaanbaatar City's Waste Composition

Figure 8: Waste composition in ger area households (summer)

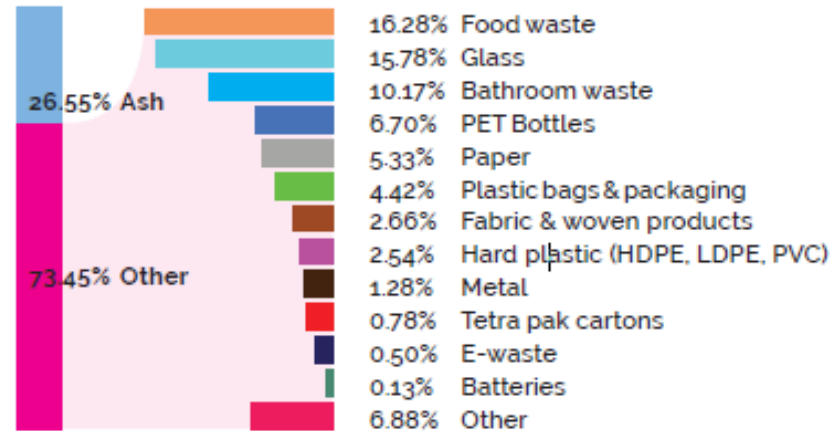


Figure 10: Waste composition in apartment households (summer)

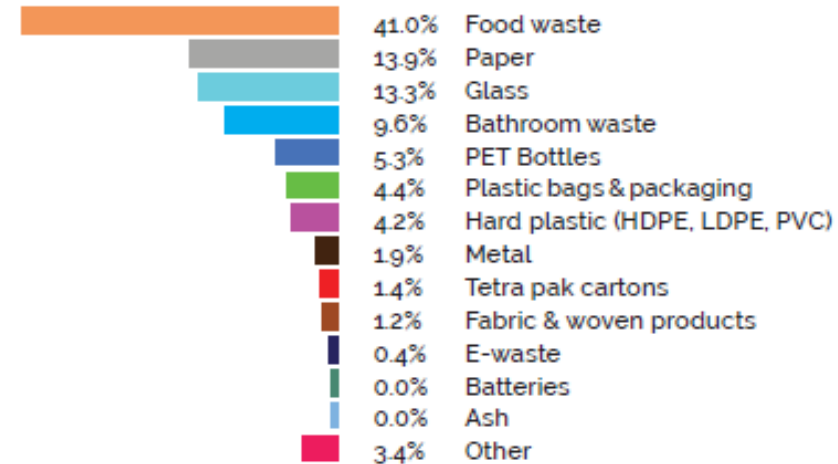


Figure 9: Waste composition in ger area households (winter)

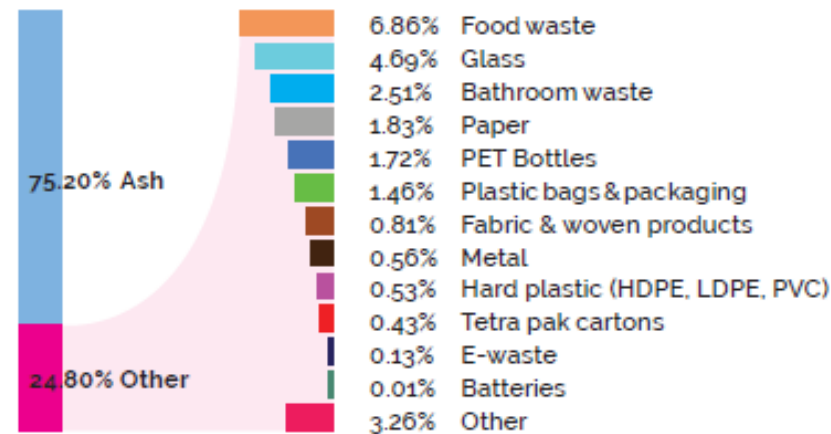
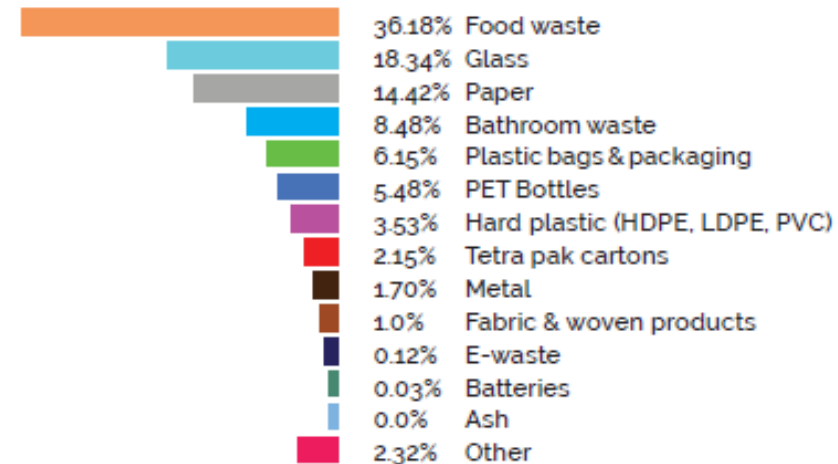


Figure 11: Waste composition in apartment households (winter)





Support policy makers and practitioners for the selection of the Environmentally Sustainable Technology (EST) in waste sector

- Conduct technology assessments
- Best practices
- Set the strategic and technical criteria for decision making
- Shortlist technically and financially viable technology options

Pilot selected EST

Pilot Project in Nepal and Bhutan



Technology transfer from neighboring country India

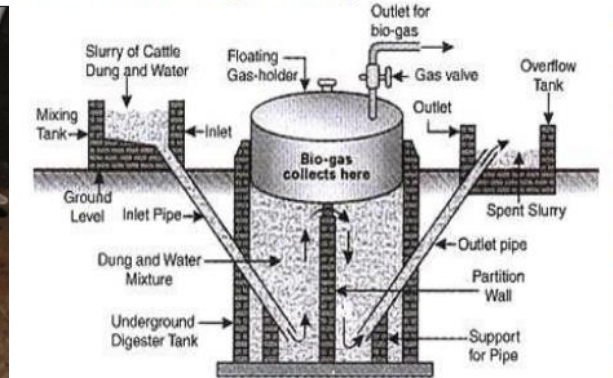
Nepal: Solid & Liquid Resource Management System



12 hours collected fresh food for the cattle's

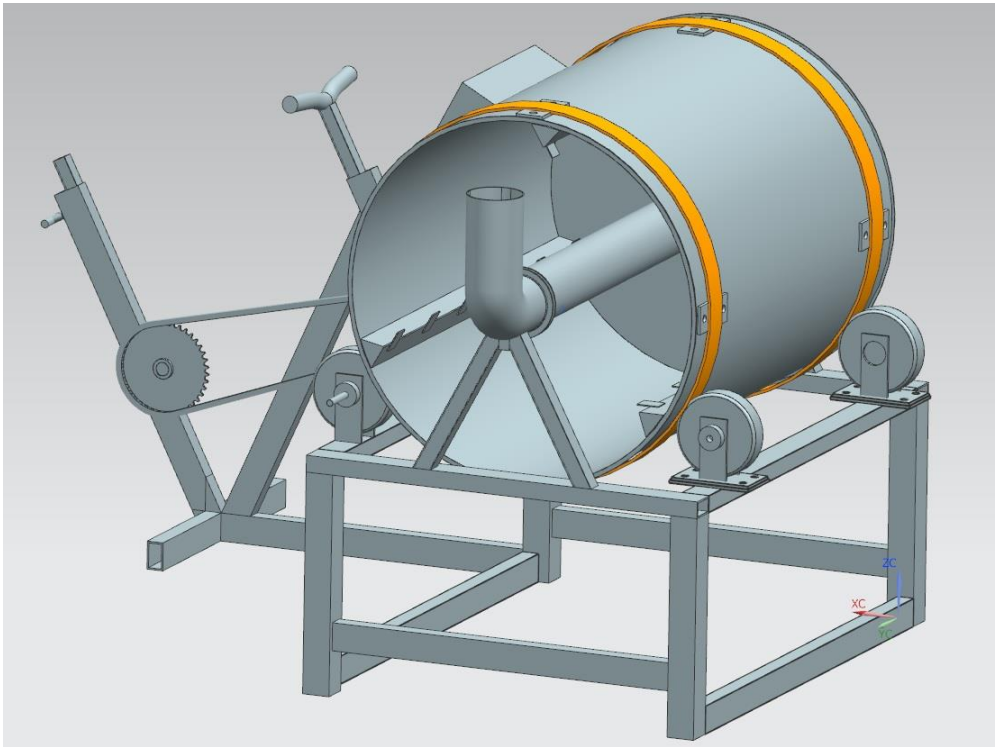


GGC-2047 Model Biogas Drawing

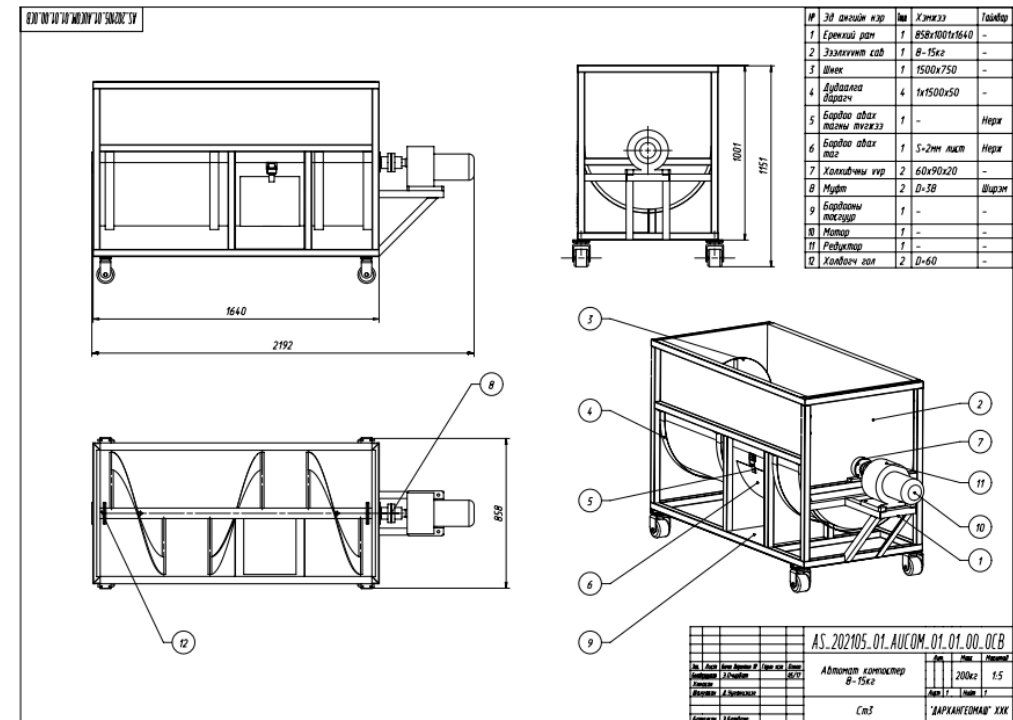


Bhutan: Biogas plant to be implemented

Pilot Project in Mongolia



- Locally designed tumbler composter and Automatic composting machine
- Operational challenges



Enabling Conditions

- i) Enabling policy and legislation framework
- ii) Ability to conduct proper separation at source
- iii) Proper infrastructure in place such as bins, collection points/system (transport)
- iv) Strong political will and support
- v) Technical capacity

ご清聴ありがとうございました。
Thank you very much for your attention.

Misato Dilley