



Concept Note

Webinar: Alternative feedstocks for Ethanol production for clean cooking

Date: 12 March 2025, Time: 13:00 – 14:30

Background

Ethanol has emerged as an important renewable fuel for clean cooking, offering a sustainable alternative to traditional biomass and imported fossil fuels. Its adoption significantly reduces indoor air pollution, mitigates greenhouse gas emissions, enhances energy security, economic development and gender empowerment particularly in developing countries. However, the sustainability and scalability of ethanol for clean cooking largely depend on the availability and diversity of feedstocks that do not compete with food security.

The production of ethanol can leverage a variety of locally available agricultural resources, including cassava, red sorghum, cocoa waste and byproducts such as molasse and weeds like water hyacinth, among others. Each feedstock presents unique opportunities and challenges in terms of yield, processing efficiency, cost, and environmental impact.

This webinar, therefore, intends to explore different feedstock options for ethanol production for clean cooking by various producers. During the webinar, ethanol producers from various feedstocks will discuss and provide insights into their business models, economic considerations, and policy frameworks that can drive the growth of ethanol as a clean cooking fuel on a small scale.

Purpose of the webinar

The primary objective of this webinar is to provide a platform for ethanol producers utilizing various alternate feedstocks—such as cassava, red sorghum, water hyacinth and cashew apple—to share their experiences, challenges, and success stories for wider dissemination.

- Highlight the potential of different feedstocks for ethanol production.
- Discuss the economic, technical, and environmental considerations for each feedstock.
- Identify opportunities for policy support and investment in sustainable ethanol supply chains.
- Foster collaboration among stakeholders to enhance ethanol adoption for clean cooking.



Agenda

CEST 13:00 –13:05	<p><i>Welcome Remarks</i></p> <p>Mr. Jossy Thomas <i>Project Manager – Clean Cooking, UNIDO</i></p>
13:05-13:15	<p>Introductory Remark</p> <p>Understanding Feedstock Options for fuel grade Ethanol for clean cooking</p> <p>Mr. Harry Stokes <i>CEO, Project Gaia Inc.</i></p>
13:15-14:10	<p>Case Studies</p> <p>Ethanol Production from Different Feedstocks</p> <hr/> <p>Ethanol from cassava</p> <p>Mr. Victor Legogie <i>CEO, Asanita Agricultural Processing Company Limited</i></p> <hr/> <p>Ethanol from water hyacinth</p> <p>Mr. Arwa Richard <i>Founder and CEO, Centre for Innovation Science and Technology (Kenya)</i></p> <hr/> <p>Ethanol from red sorghum</p> <p>Mr. Stanley Alexander Philipson <i>Environmental Project Developer (Water & Bioethanol), EcoLinks</i></p> <hr/> <p>Ethanol from cashew apple</p> <p>Mr. Hamisi Juma Tindwa <i>Coordinator, Biofuel Production and Clean Cooking Promotion Center Sokoine University of Agriculture in Morogoro, Tanzania</i></p>
14:10-14:25	<p>Q/A</p>
14:25-14:30	<p><i>Closing remarks</i></p> <p>Mr. Jossy Thomas <i>Project Manager – Clean Cooking, UNIDO</i></p>