Pivot Clean Energy Co. (Pivot) is a nonprofit industry coalition for bioethanol. Members include producers, traders, business operators, and the wider development community. Led by experts in biofuels, health, agriculture, and household energy. Communication, collaboration, and leadership help expand access to bioethanol solutions. Support the development for platforms that deliver bioethanol to households globally. Positive economic, social, health, and environmental impacts.
Biofuels have an important role to play in Africa’s development. When biofuels such as biodiesel and bioethanol are produced and used in a sustainable way, they provide massive economic and environmental benefits. These include, for example, job creation, modern energy access, reduced pollution and climate change mitigation. They also provide a buffer against vulnerability to volatile fossil fuel prices. A solution of this kind can promote rural development by increasing the income of small farmers and improving agricultural productivity.

IRENA (2016), BIOETHANOL IN AFRICA: THE CASE FOR TECHNOLOGY TRANSFER AND SOUTH-SOUTH CO-OPERATION, INTERNATIONAL RENEWABLE ENERGY AGENCY, ABU DHABI.
There is huge potential for deploying low-carbon technologies such as bioethanol for its long-term economic growth and social development in Africa. However, growth has been limited due to negative perceptions around bioethanol combined with lack of strong policies, regulatory framework, infrastructure development and market formation.
OPPORTUNITIES BIOETHANOL

Agriculture
- Ethanol provides high employment opportunities through the feedstock value chain for both large scale and small holder farmers
- Increased farm input demand for items such as heavy equipment and fertilizers

Bioethanol Production
- Investment in production facilities
- Beverage industry
- Pharmaceutical industry
- Cookstoves specific for liquid bioethanol cooking fuel
- Blending opportunities in the transportation industry

Job Creation
- Manufacturing and Operations
  - Broad range of skill levels from stove production to blending and bottling; sales employees
- Distribution - utilizing existing networks if available
- Sales and Marketing with local entities to boost economies
- Management; specifically targeting women for these positions when appropriate
**Electricity Generation**
Factories with significant sugarcane production have the potential to sell surplus electricity to the grid through power generation from bagasse. This also creates a continuous supply of electricity from biomass to complement the intermittent or seasonal supply of electricity.

**Energy Security**
Bioethanol blending can improve energy security in countries with high oil dependency while potentially saving on foreign exchange.

**Clean Cooking**
Bioethanol supports the development of a robust clean cooking ecosystem. Business operators flourish and households have affordable access to a clean fuel for cooking. This in turn protect natural resources and reduces the use of other fossil fuels for cooking purposes.

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ACTION STEPS

- Create a supportive framework for investment in bioethanol including incentives and targets for producers
- Review and implement quality standards for production and use
- Work with international partners for knowledge sharing around bioethanol production, agriculture management, blending and standards
- Review and update current policies and roadmaps to include bioethanol
- Conduct studies or update current models to analyze the potential of bioethanol production for a particular country or region

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