SWITCH AFRICA GREEN REGIONAL NETWORKING FORUM: SCALING UP AND REPLICATING BEST PRACTICES.

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About KIRDI

• Kenya Industrial Research and Development (KIRDI) is the National Industrial Research, Technology and Innovation Institution,

• Established in 1979 under the Science and Technology Act, Cap 250, Laws of Kenya (Now repealed and replaced by the Science, Technology and Innovation Act, 2013).
KIRDI Mandate

• To undertake Research and Development in Industrial and Allied Technologies including:
  ❖ Mechanical, Electrical and Chemical Engineering
  ❖ Leather and Textile Technologies,
  ❖ Food Processing Technologies
  ❖ Energy and Environmental Management
  ❖ Ceramics and Clay Technologies
  ❖ Project Studies and
  ❖ Information and Communication Technology
Institutional Objectives

• To Enhance the national industrial technology innovation process as a strategy towards rapid and sustainable socio-economic development.

• Development of sufficient capacity for industrial Research, Technology and Innovation.

• To Contribute to the creation of the national wealth through the transfer of efficient technologies that are accessible to micro and small enterprises in Kenya.

• Facilitate access by local enterprises to business development services including cleaner production and industrial technology information.
Role in green Technology Transfer

• The institute is the National Designated Entity (NDE) for Kenya: A Focal point for Climate Technology Centre and Network (CTCN).

• **CTCN main objective:** achieve low carbon emission and climate resilient development by facilitating technology transfer and strengthening the capacity of developing countries to absorb clean technologies.

• **KIRDI** is responsible for operationalisation and coordination of Climate Technology Centre and Network (CTCN) activities in Kenya.
Support to the MSMEs sector

• Support to the MSMEs in the following areas
  – Provision of Incubation Services
  – Provision of Common Manufacturing and Commercial Production.
  – Training and Capacity building
  – Testing and Quality Assurance services
  – Standardization (Kenya Bureau Standards mark)
KIRDI: Role in Green Technologies

Focus areas
• Training
• Plant design and installation
• Process optimization
• Testing

Biogas Technology

Nyongara Biogas Plant
A Public Private Partnership Program
Producing Energy from Slaughterhouse Waste

A GREEN ENERGY PROJECT BY KIRDI, UNEP, UNIDO & NYONGARA
KIRDI: Green Technologies

Energy saving cookstoves

Mobile irrigation unit
Other Technology areas

Other technologies and fuels

• Bioenergy production
• Briquettes
• Solar PV and testing
• Waste management
• E-waste recycling
• Efficient Resource Utilization

Extraction of essential oils
Provision of Common Manufacturing Facility

MSMEs in manufacturing
Facilitation of Incubation

Incubation program
• 6 – 12 months duration
• Start-up businesses
• In-house and virtual
• Work space provided
• Product development
• Training
• Branding
• Standardization (KEBS mark)
• Market linkages/networks
• Access to information
Facilitation of Incubation

MSMEs in detergent, cosmetics and oil production from natural sources
Current Business Up-scaling Initiatives

• Ease of access to finance through bank loans i.e. several lending and credit facilitation programs.
• Kenya Industrial Estate (KIE):
  – Establishes industrial parks
  – Provision of flexible credit facilities (medium – long term)
  – Different types funding targeting priority sectors

• Establishment of industrial parks and special economic zones in Kenya.
Current Business Up-scaling Initiatives

• Kenya Climate Innovation Center:
  – Seed funding for start-ups
  – Provides Accelerator Incubation Program.
  – Facilitates investment match-making and networking forums
  – Mentorship programs
  – Capacity building

• Launch of Entrepreneurs Organization Kenya Accelerator Program: targeting start-up businesses.

• Kenya Association of Manufactures and several NGOs support the growth of MSMEs in Kenya.
Further Recommendations

• Companies/MSMEs endeavor to increase research and investment into energy efficient production methods and energy efficient products.

• Strengthening international cooperation in the development and transfer of low carbon emission technologies.

• Continued capacity building to the MSMEs in developing countries to make effective use of the technologies transferred.

• Overcome barriers hindering technology transfer and investment/trade (e.g. tariffs, policies and regulations, political & cultural differences, IP, technology cost, infrastructure).
Thank you
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