

TOOL KIT 5

ENERGY EFFICIENCY



Kenya Agribusiness
and Agroindustry
Alliance

Transforming Kenya's Agribusiness

Let's grow your business, one Tool Kit at a time!

ENERGY EFFICIENCY

Ensure tracking of processing batches while matching the same with specific energy costs. This would ideally necessitate distinguishing the enterprise energy costs from the domestic household costs in the case of processors with cottage enterprises. ii Having a separate energy billing for the agro-processing enterprise is recommended particularly in order to trace the variable pattern of energy use in relation to the periodic processing capacities.

Switch to **energy-Saving fluorescent Bulbs**

While this bulbs maybe more expensive up front, they offer similar light quality, last up to 25 times longer than traditional incandescent light bulbs, and use even less energy. Hence saving on electricity.



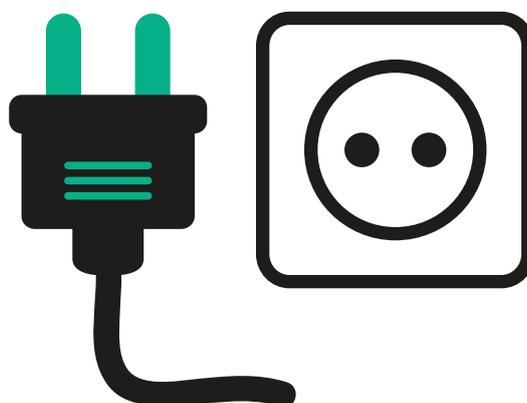
Always turn off energy consuming gadgets when not in use

Many small appliances and electronics use energy even when they are turned off.

- Unplug small appliances (toasters, coffee pots etc.) when not in use.
- Unplug phone and battery chargers once they are fully charged.
- In your entertainment and computer areas, plug equipment into a Smart Strip, which will shut off equipment when in standby mode. NOTE: Unplugging your cable box may reset the system; be sure to consult the operation manual.
- Always look for the EnergyStar® logo when buying new appliances.



Reducing energy Using: Plug Loads



Unplug appliances when not in use

Refrigerator

- Regularly clean the coils on your refrigerator.
- Keep contents organized so you can quickly get what you need; minimizing the amount of time the doors are open will save energy.
- Turn off the condenser feature in the refrigerator.
- If you have a second refrigerator, consider donating it or having it properly disposed of by your waste hauler.

Heating & cooling systems

- Clean and replace filters regularly.
- Use window coverings to prevent heat gains.
- Circulate air with ceiling or portable fans.
- Replace older A/C units (more than 10 to 15 years) with EnergyStar® appliances as this could reduce your costs by 20 to 40 percent!

Always ensure that the processing needs are aptly met to avoid idle or sub-optimal energy use in the processing plant. Agro-processors may place the benchmark based on the estimated demand for the processed products and work backwards to trace the expected energy requirements.

Use of green sources of energy

Renewable sources of energy are green, affordable and environment friendly hence recommended for green business and agro processing.



Wind energy



Solar drier (Solar Energy tapping)