

# Coastal Bottlers Ltd

## Mombasa, Kenya



One of Kenya's oldest bottling companies is reaping the benefits of a major energy efficiency retrofit financed by Camco's sustainable energy facility, Spark.

### Expected impact



2,326

MWh energy saved annually through EE



1,375

tCO<sub>2</sub>e avoided annually



30%

Average reduction in customer cost



■ New natural skylights and LED installations provide a cost-saving lighting solution



■ New lagging and cladding on the steam line is reducing radiant heat loss on the pipes



■ Uninterrupted power system (UPS) prevents power disruptions from affecting operations

### Project summary

Coastal Bottlers Ltd contracted Spark development partner Renewable Safi Power International Ltd (Safi Power) to install multiple energy efficiency technologies at its manufacturing plant to lower its overall energy consumption and reduce its costs and emissions. The works were fully financed by Spark and included:

- **LED lighting** – offering significant energy efficiency benefits by consuming less electricity, resulting in reduced energy bills and a lower environmental impact.
- **Skylights** – providing a five-fold improvement of lux levels.
- **Motor replacements** - resulting in reduced electricity consumption, lower operating costs and environmental sustainability gains.
- **Air conditioning replacement** – AC units with low energy efficiency ratio (EER) were replaced with higher EER units, leading to a 15%-20% reduction in energy consumption
- **Thermal efficiency** - repaired leakages and new insulation and system upgrades significantly reduced heat loss in thermal processes, leading to decreased energy consumption and lower steam costs.
- **Digital meters** with centralised platform - for monitoring the savings from the interventions.

Coastal Bottlers Ltd previously commissioned Safi Power to install two rooftop solar PV systems with a total capacity of 475kWp. During the energy efficiency retrofit, Safi Power also implemented several improvements to enhance the company's power reliability and optimise solar usage.

These included:

- Installation of a new 55kWh **battery storage system as part of an integrated uninterrupted power system** – to provide a backup power source during outages or peak demand periods, ensuring uninterrupted operations and minimising downtime in one of the process lines.
- Integration of a **PV-generator controller** – to optimise solar energy consumption and minimise the burning of costly diesel.

### About Spark Energy Services



Spark Energy Services is an innovative USD 100m finance platform created by Camco to support the deployment of **captive generation and energy efficiency** initiatives in Africa's commercial and industrial (C&I) sector

### About Camco



Camco is a trusted climate and impact fund manager with **30+ years of experience** funding renewable energy projects in emerging markets

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