

**Webinar on the Joint Crediting Mechanism (JCM) Implementation for Tunisia  
- Contribution to GHG Emission Reductions in Tunisia through the JCM -**

## **Project outline for rooftop solar power systems in Kenya (Selected in 2022)**

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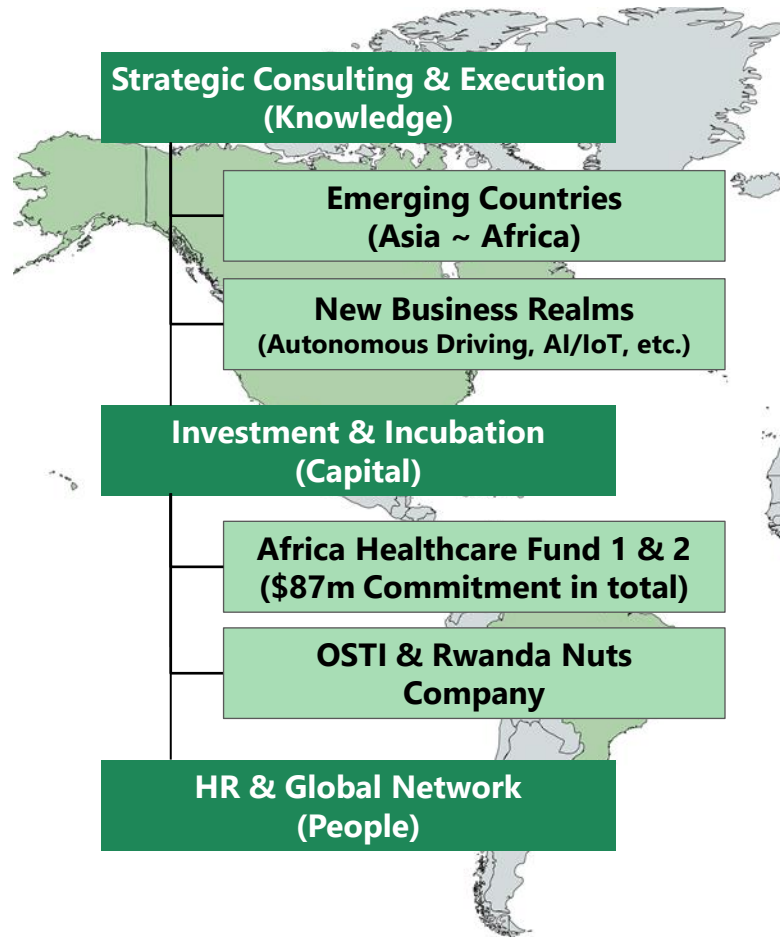
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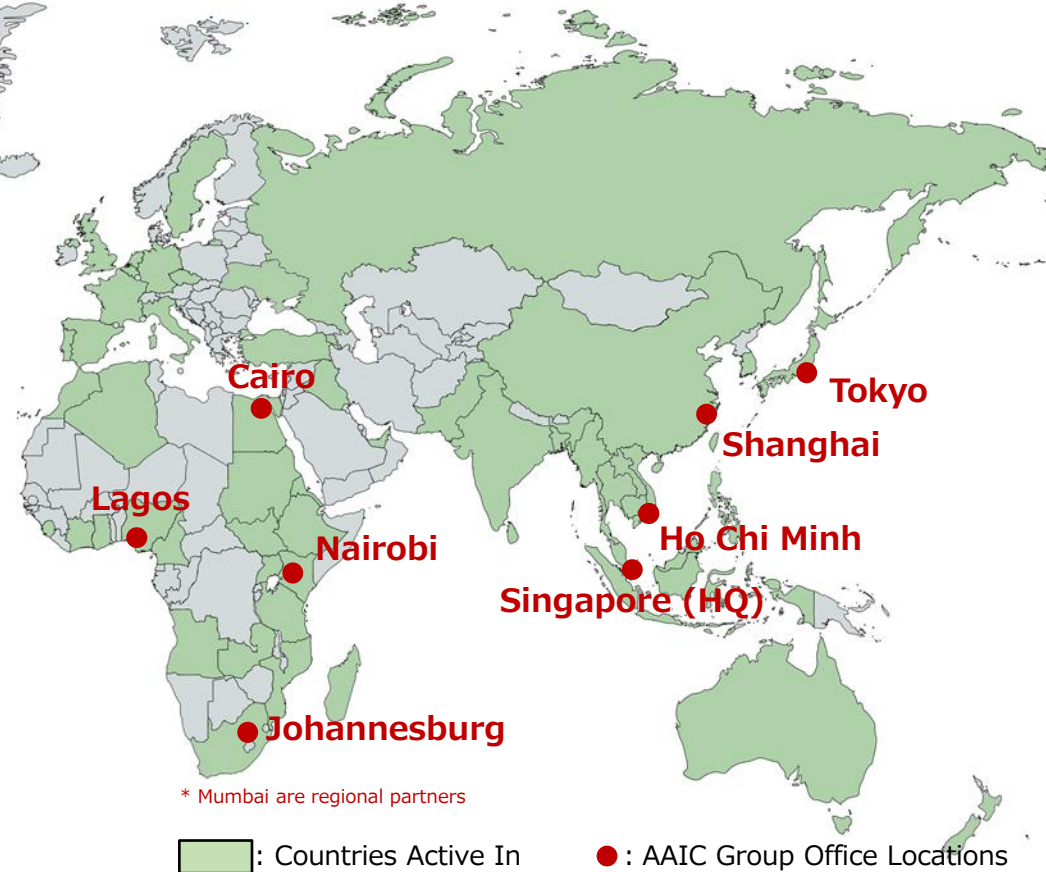
# AAIC, a consulting and investment company actively working on Africa

Specializes in supporting Japanese companies in their global expansion strategies starting from emerging countries.

## Areas of Expertise



## Extensive Network



**In emerging countries/new business realms, we will challenge new things and create new value For the world through "Knowledge", "Capital", and "People"**

# Three projects submitted by AAIC were selected for FY 2022

## Projects Selected in the Selection for FY2022

No.	Partner Country	Representative Participant	Project Title	Expected GHG Emission Reductions (tCO2/year)
1	Kenya	AAIC Japan Co., Ltd	Introduction of 3.1MW Rooftop Solar Power System to Food Processing Facilities	2,454
2	Kenya	AAIC Japan Co., Ltd	Introduction of 2.3MW Rooftop Solar Power System to Hatchery, Meat Processing and Battery Facilities	1,735
3	Vietnam	eREX Co.,Ltd.	20MW Biomass Power Plant Project in Hau Giang Province	36,814
4	Vietnam	Kanematsu KGK Corp.	16MW Mini Hydro Power Plant Project in Binh Thuan Province	16,910
31	Kenya	AAIC Japan Co., Ltd	Energy Supply Project by 1.5MW Rooftop Solar Power System to Beverage Factory	924
35	Saudi Arabia	Toyota Tsusho Corporation	100MW Solar Power Project in Wadi Ad Dawasir Region	136,802
36	Chile	DAIICHI JITSUGYO CO., LTD.	47MW Solar Power Project Utilizing PMGD Scheme	34,418
37	Chile	Asian Gateway Corporation	Energy Supply Project by 2.0MW Rooftop Solar Power System to Industrial Plastic Plant in Renca, Santiago Metropolitan Region	1,105

### Partner



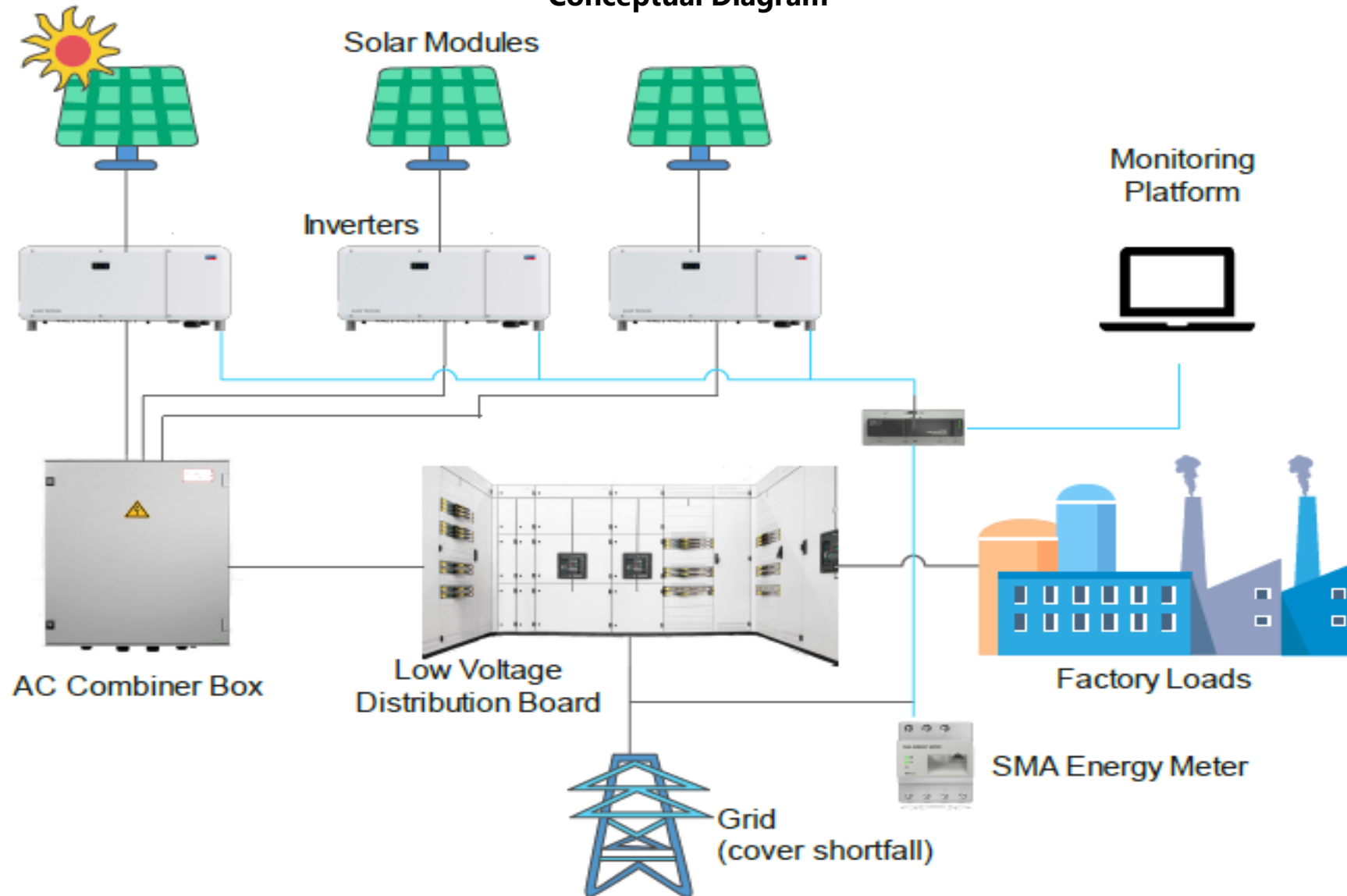


**These are the only four projects in Africa out of 40 projects in 2022**



# Unga Project: 3.1MW Rooftop Solar Power System

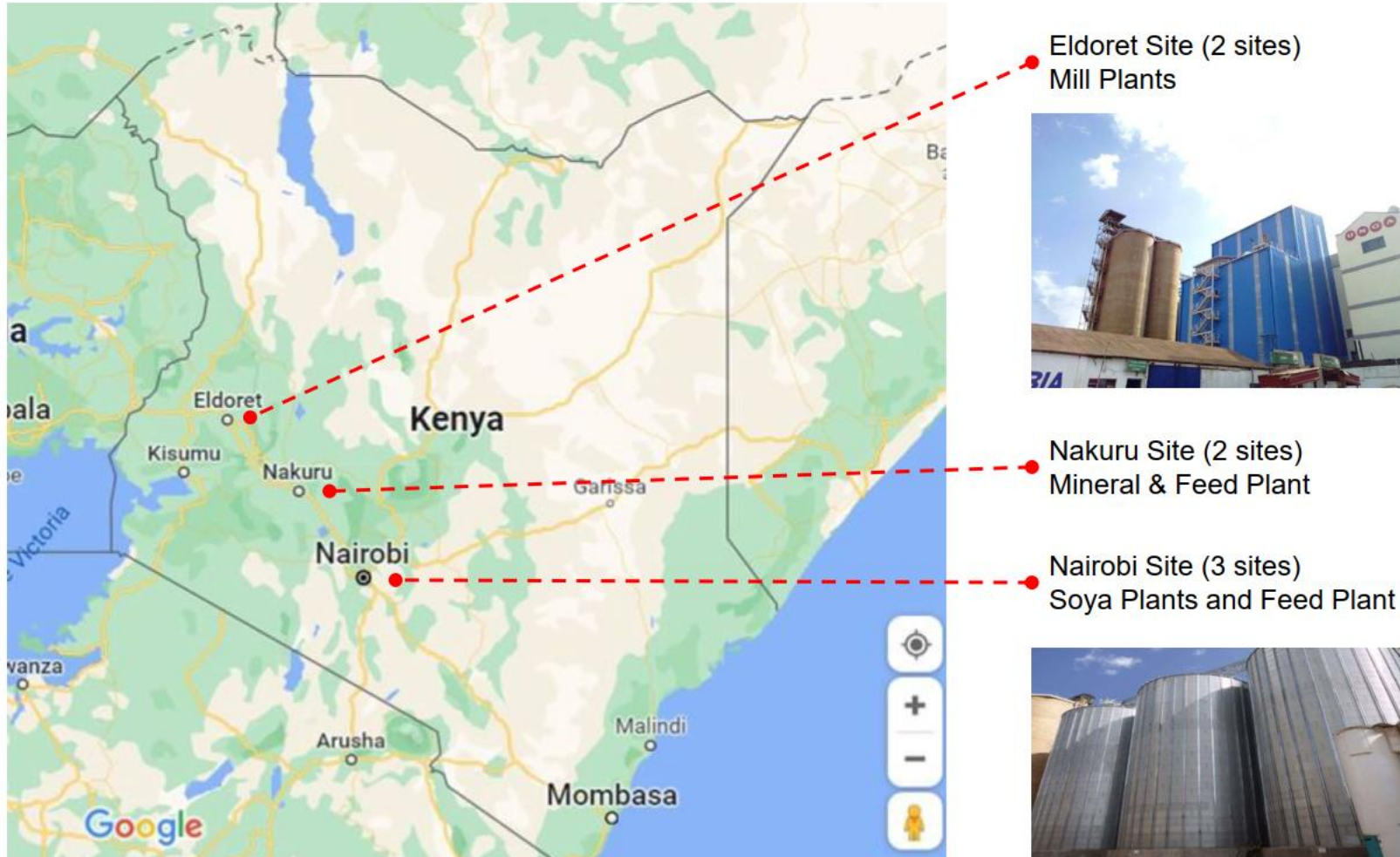
Conceptual Diagram





# There are 7 sites, mill plants, feed plants, soya plants, etc.

## Site of Projects



**It is possible to consolidate several sites into a single application, especially if each site has a low power generation capacity**

# Project Photos (Nakuru Mineral Plant)

Before



After





# JCM helps Unga in its decision-making process to invest more in renewable energy projects

## Unga's Sustainability Agenda

Whilst we support the implementation of all the 17 Sustainable Development Goals (SDGs), we have selected five high impact goals as our primary focus namely;

**Goal 8 - Decent Work and Economic Growth**

**Goal 9 - Industry, Innovation and Infrastructure**

**Goal 12 - Responsible Consumption and Production**


**Goal 13 - Climate Action**

**Goal 17 - Partnerships for the Goals**




### NATURAL CAPITAL

*At Unga, we are conscious of our impact on natural resources through our operations and business activities, guided by our sustainability values, and are dedicated to operating in a sustainable manner that will maintain and protect the environment.*



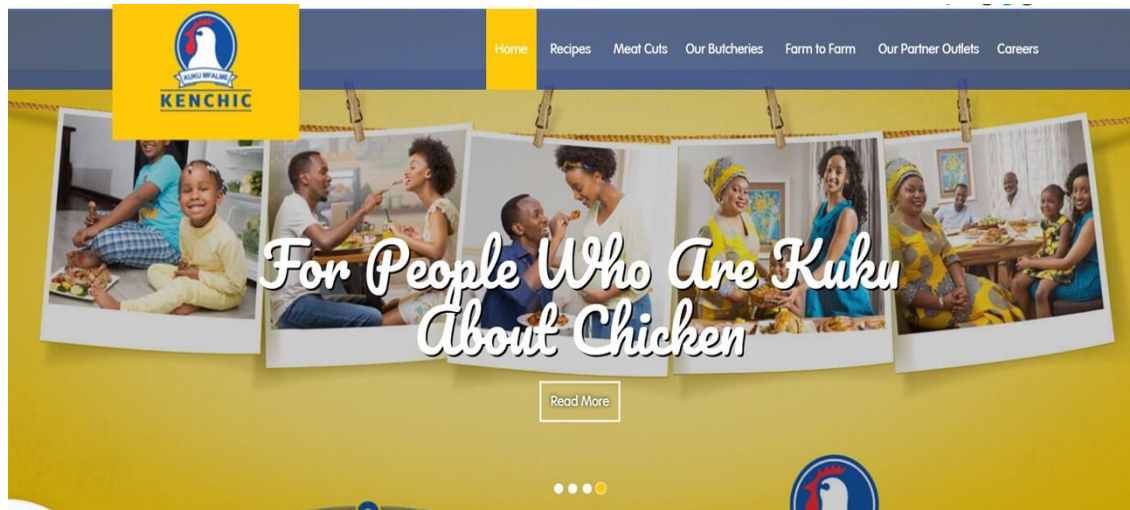
### Green energy Initiatives

Unga has worked closely with solar energy providers and is currently installing renewable energy capacity at all of its facilities.

In 2020/21 the Eldoret Plant's PaTaMu initiative lowered energy usage from an average of 77kWh/MT in 2019/2020 to the current 68kWh/MT. The project took a holistic approach, focusing on reducing operational downtime by eliminating redundant high-power-consuming equipment or replacing it with more efficient motors, using natural lighting, installing solar lights and replacing old power correction factor bank capacitors.



## The leading poultry producer in East and Central Africa

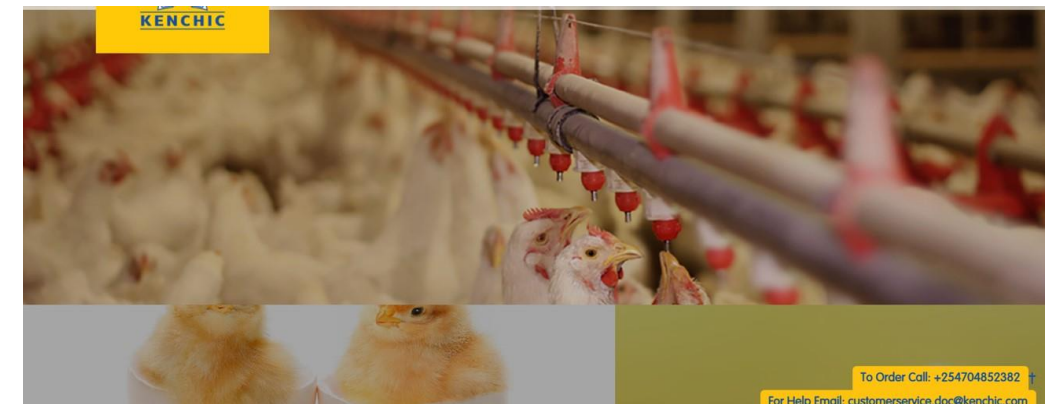


### Company Profile

- Kenchic is the integrated poultry operation in East and Central Africa, Kenya, Tanzania and Zambia.
- The farming practices conform not only to Kenyan standards but also to European Union and World Health Organization requirements.
- Kenchic supplies processed chicken meat & other processed products such as sausages to International Franchises like Kentucky Fried Chicken (KFC) in East Africa.
- Kenchic operates its own in-house distribution/cold-chain supply. The company has a refrigerated delivery fleet, ensuring that products reach customers (B2B) in the right condition.

Source : Kenchic Website <https://www.kenchic.com/>

<b>Company</b>	Kenchic (Started its operation in 1984)
<b>Address</b>	Exan House, Enterprise Road, Opposite Kobil Petrol Station, Nairobi, Kenya
<b>Business</b>	Kenchic is the licensed export slaughter house in Kenya for poultry products <ul style="list-style-type: none"> <li>- Broilers, Layers, Kenbro and COBB Broiler parent stock, frozen and Fresh Products- Whole chicken, Cut ups, Boneless packs, smoked products and marinate products</li> <li>- The one stop shop for chicken farmers: Feeders, Drinkers, Disinfectants, vitamins and vaccines</li> </ul>
<b>Partners &amp; Outlets</b>	<ul style="list-style-type: none"> <li>- <u>Supermarket Outlets – Naivas, Carrefour, Foodplus, Game, Quickmart, Cleanshelf</u></li> <li>- Fast Food Outlets &amp; Restaurants</li> <li>- Hotels</li> <li>- Butcheries</li> </ul>



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# Project Photos: Kenchic (Hatchery)

Before

After



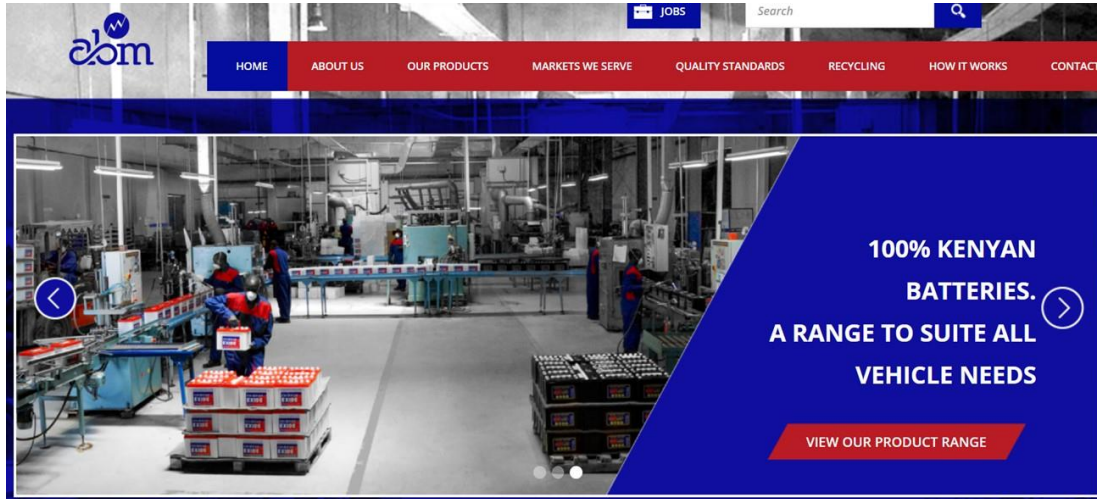
- Size:0.67MW
- subsidized equipment: Modules 874pcs, Inverters 4pcs
- Installation work period: February to June 2023





# Project ②-2: ABM (Associated Battery Manufacturers)

## The only battery manufacturing company in Kenya

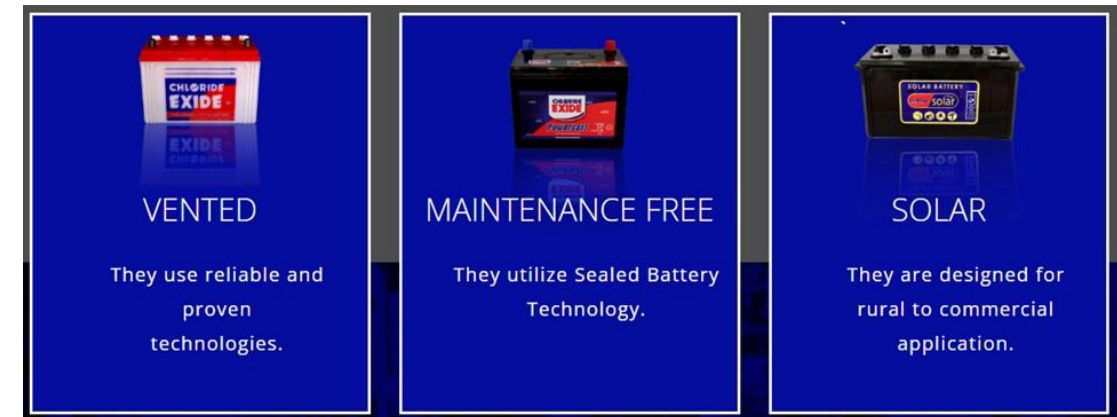


### Company Profile

- Established in 1963, Associated Battery Manufacturers (ABM) is the largest battery manufacturing company in East and Central Africa.
- All ABM products conform to EN and JIS international standards.
- ABM also has an extensive network of dealers in these and 9 other countries in Eastern and Southern Africa.
- In line with ESG goals, ABM recycles used batteries which are smelted, refined & broken into lead ingots for the manufacture of new batteries.



<b>Company</b>	ABM (Established in 1963)
<b>Address</b>	Kampala Rd Off Enterprise Road, Nairobi, Kenya
<b>Business</b>	ABM produces solar batteries and automotive batteries (both vented and Maintenance Free) <ul style="list-style-type: none"> <li>• ISO 9001 certification</li> <li>• ISO 14001 certification</li> </ul>
<b>Group Companies</b>	<b>ABM, ATHI RIVER</b> Lead recycling plant, located in Athi River, Machakos county <b>SOLINC</b> Solar solutions/ Grid Tie located in Naivasha <b>CHLORIDE EXIDE</b> Renewable energy distributor in East Africa





# Project Photos: ABM (Battery Manufacturing Factory)

Before



After

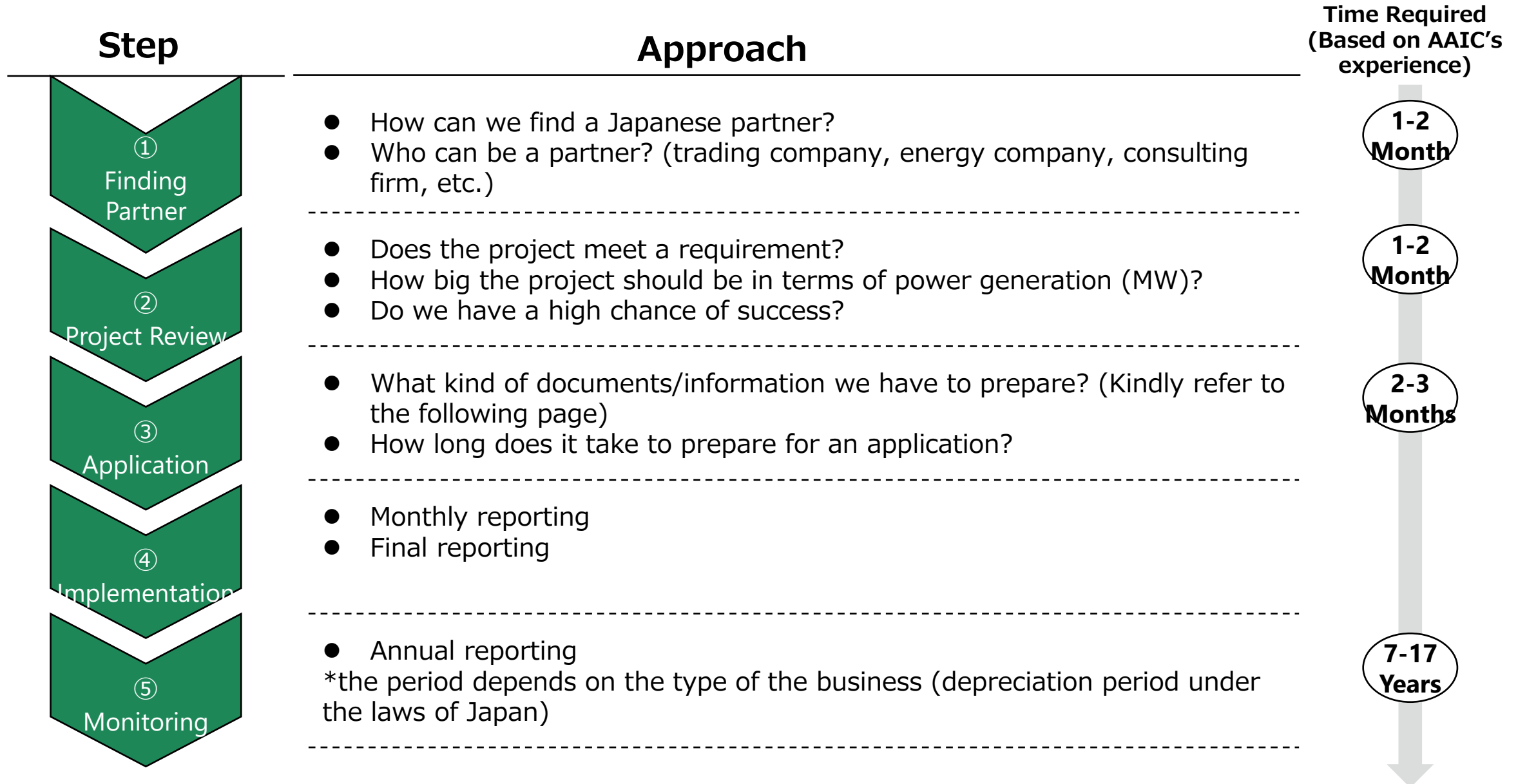


- Size:0.80MW
- subsidized equipment: Modules 1,052pcs
- Installation work period: February to June 2023



# Process of Project Formation

## How can we prepare for an application?



# Required Documents/Information for a partner (in Kenya)

**\*an excerpt from 2022 Application**

Project Details	<ol style="list-style-type: none"> <li><b>1. Project Idea Note for the Model Project</b></li> <li>2. Project location Maps</li> <li>3. EIA &amp; NEMA licenses</li> <li>4. Status for raw material procurement, electricity sales, etc.</li> <li>5. Implementation system chart</li> <li>6. Confirmation letter of Intention to Participate in project</li> <li>7. Financing certainty</li> <li>8. Payback period and internal rate of return</li> <li>9. Main equipment list</li> <li>10. Catalog of equipment</li> <li>11. Schematic diagram for system/equipment installation</li> <li><b>12. GHG (Greenhouse Gas) calculation sheet</b></li> <li><b>*The amount of GHG emission reduction affects to the amount of subsidy</b></li> <li>13. User manual and product catalog for monitoring equipment</li> <li>14. Schematic drawing for the monitoring system</li> <li>15. Project Gant Chart</li> </ol>
Cost	<ol style="list-style-type: none"> <li>16. Cost break down</li> <li>17. Quotations</li> </ol>
Consortium	<ol style="list-style-type: none"> <li>18. International Consortium Agreement</li> <li>19. Agreement on the Allocation of JCM Credits</li> </ol>
Company	<ol style="list-style-type: none"> <li>20. Company Profile/Business Performance</li> <li>21. Accounting situation</li> </ol>



**Thank you for your attention!**

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