KENYA SUSTAINABILITY REPORT 2023

Zero
reportable safety incidents in 2023

19
people now employed, including eight women, in our growing Kenya team

10,000
tree seedlings planted with communities near Malindi Solar to support climate resilience

3
local young people completed internships with us, and one is now a plant technician

GLOBELEQ
POWERING AFRICA'S GROWTH

We are helping Kenya harness its renewable energy potential.

We reached an exciting milestone in 2023 by achieving financial close on Globeleq's first geothermal project at Menengai. The 35 MW power plant, currently in construction, will provide affordable and renewable baseload power to the Kenyan national grid – and enable the country to reduce the cost of power and monetise the natural resources of the Menengai steam field.

In 2023, our 52 MWp Malindi Solar plant completed its second year of operations, with excellent availability and safety performance. We are working with the Kenyan Government on our proposed expansion of the plant, which will double its capacity and add 40MW/40MWh of battery energy storage. The feasibility study we did this year shows the Malindi Solar expansion will support the coastal economy by providing reliable, sustainable and affordable electricity.

Our team is expanding to drive further development of renewables and support the Government's commitment to 100% clean energy by 2030 through new solar, wind and geothermal projects across the country.

Edouard Wenseleers
Managing Director,
Business Development,
Head of East Africa

Malindi Solar, the only renewable plant in Kenya's coastal region, completed its second year of operations in 2023.

Breaking ground at Menengai geothermal plant

In December 2023, we reached financial close on Globeleq's first geothermal plant. Soon after, construction teams began work on the 35 MW project that will harness Kenya's potential to deliver clean, reliable and affordable power to the national grid. Globeleq will be one of several power plant operators at Menengai, using steam supplied by the state-owned Geothermal Development Company.

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Visit our website to find out more about sustainability at Globeleq:
globeleq.com/reports

Performance overview 2023

Safety remains our priority, and we had no lost-time accidents or other reportable incidents in Kenya for the second consecutive year. Health and safety activities included weekly awareness sessions, First Aid training and the relocation of 68 snakes from the Malindi Solar site to a snake farm.

In 2023, we expanded our development activities in Kenya and moved into a bigger office in Nairobi for our growing team. We invested in activities to support teambuilding and celebrate diversity, including on International Women's Day, World Mental Health Day and World Environment Day. Three local graduates joined us at Malindi Solar for six-month internships, one of whom has now taken up a permanent role with us as a solar technician.

We held more than 40 meetings with the communities around Malindi Solar and invested in social and economic development projects tailored to their needs. We provided desks for 200 primary school students and 20 teachers, funded 10 scholarships for local students to attend secondary school and university, and installed solar power at a medical dispensary.

At Menengai, we joined a four-day community engagement workshop led by Geothermal Development Company and Power Africa.

Working in partnership

The Africa Energy Development Corporation retains 10% of Malindi Solar. Electricity is sold through a 20-year agreement with the national distribution company, Kenya Power and Lighting Company (KPLC). Our EPC contractor at Menengai is Toyota Tsusho Corporation. Steam for Menengai Geothermal Plant will be provided by the state-owned Geothermal Development Company (GDC) and the electricity it generates will be distributed by KPLC – both through 25-year agreements.

	2022	2023
POWERING DEVELOPMENT		
Operational power capacity (MW)	52	52
Average availability (%) [1]	99.8	100.0
Electricity generated (GWh)	101	96
Consumers reached by the electricity we produce [2]	138,900	153,700
Jobs indirectly supported through electricity generated [3]	5,207	3,380
HEALTH AND SAFETY		
Reportable incident rate [4]	0.00	0.00
Lost-time accidents	0	0
EMPLOYEES		
Number of employees	18	19
– Kenyan nationals (%)	94	95
– Women (%)	33	42
Women in senior management (%)	50	40
Women in management (excluding senior management) (%)	25	33
Employee engagement (score out of 10)	7.4	7.5
COMMUNITIES		
Total spend on socio-economic development (SED) projects (m KES)	4.9	3.6
Number of people reached by SED projects (estimated)	1,000	2,100
ENVIRONMENT		
Greenhouse gas emissions avoided from renewable power production (tonnes CO_2e) [5]	46,560	44,278
Greenhouse gas emissions generated (tonnes CO_2e)	97	81
Greenhouse gas intensity (tonnes CO_2e/GWh produced)	0.96	0.84
Water use (m^3)	1,746 [6]	671
Total waste generated (tonnes)	4	5
– Hazardous waste generated (tonnes)	0	0

1 Equivalent availability factor for solar calculated in the daytime from the first moment solar intensity exceeds 75W/m^2 until the last moment it falls below 75W/m^2.
2 Estimated based on actual project-level production and national per capita consumption.
3 Estimated indirect employment enabled by businesses using electricity generated, based on Joint Impact Model (used by BII).
4 Includes incidents resulting in lost time, medical treatment or work restriction. Rate based on OSHA definition (200,000 x reportable incidents/working hours).
5 Calculated based on actual energy generation and national grid factors.
6 Includes water use for non-routine post-construction panel washing.