REPP

managed by camco clean energy

QUARTERLY IMPACT REPORT

Quarter 2 2021

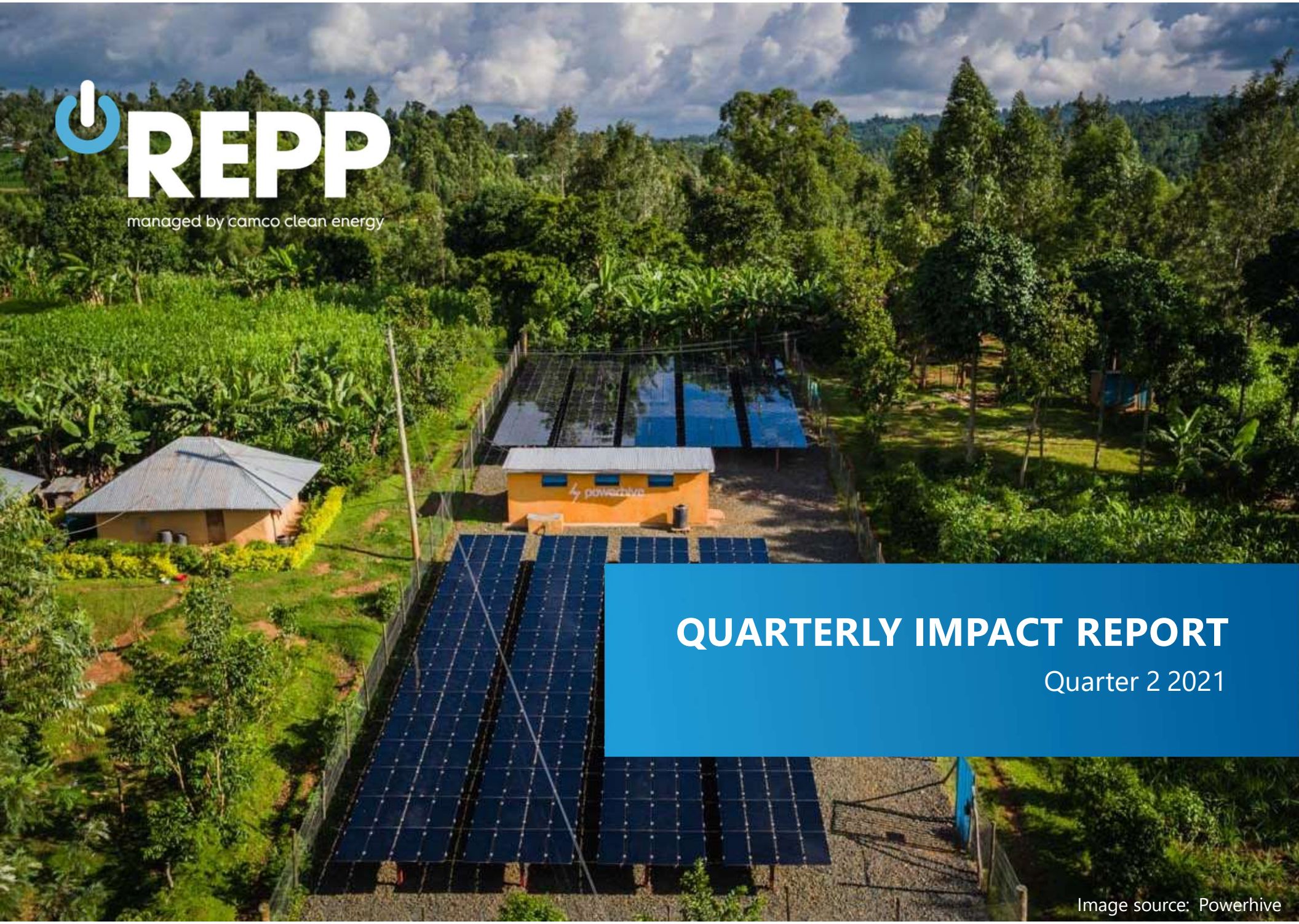


Image source: Powerhive

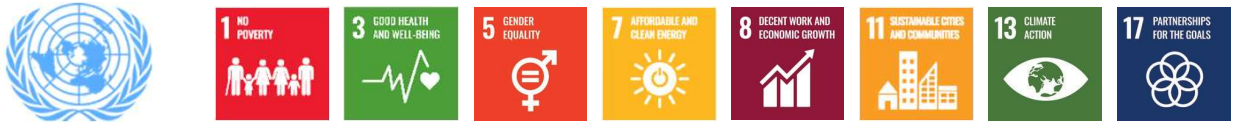
EXPECTED DEVELOPMENT AND CLIMATE RESULTS

Expected programme lifetime results of current project portfolio as of 30 June 2021

	% of 2023 target
16 Countries with NDCs supported	N/A
$90m Capital commited	72%
10,000 Jobs created	N/A
56MW New renewable capacity	45%
124,794 tCO_2e avoided per year	42%
1,700 Women hired from jobs created	N/A
30 Projects reaching financial close to date	70%
1.16m People provided first-time electricity access	121%
$ 512m Third-party funding mobilised	64%

ACTUAL DEVELOPMENT AND CLIMATE RESULTS

Actual out-turn as of 30 June 2021



	% of 2021 target
16 Countries with NDCs supported	N/A
$50.7m Capital commited	49%
2,856 Jobs created	N/A
20.8MW New renewable capacity	101%
32,305 tCO_2e avoided per year	58%
510 Women hired from jobs created	N/A
17 Projects reaching financial close to date	63%
719k People provided first-time electricity access	104%
$129m Third-party funding mobilised	26%

WELCOME

Solar PV mini-grids, solar home systems and other off-grid renewable energy solutions are continuing to establish themselves as a vital part of solving the energy access challenge that exists across Sub-Saharan Africa. Over the last three months alone, more than **138,000 people were connected to electricity for the first time** across the region through REPP-supported off-grid projects, bringing the total connected to date to over 719,000. This is testament to the hard work and innovative business models of REPP's investees, and we are expecting to see similar progress over the next quarter and beyond.

Far from just connecting homes to clean electricity, however, off-grid renewables also provide meaningful power to small businesses, thereby improving economic opportunities and livelihoods. This quarter we've put the **productive use of energy** into the spotlight (see page 6), and will be reporting regularly on progress made in this important area moving forward.

MAKING HISTORY IN LESOTHO

Lesotho's first ever private mini-grid has begun providing electricity to people for the first time on a pre-COD basis. So far, 164 households have been connected, with dozens more properties set to be onboarded on a rolling basis over the coming months.

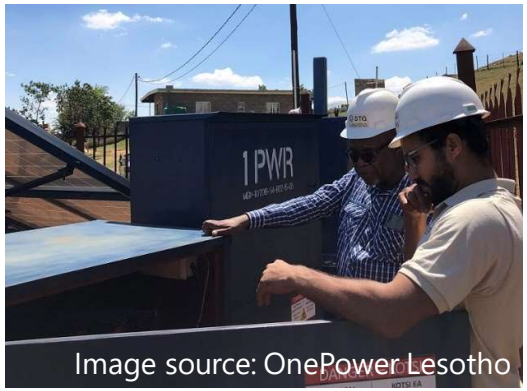


Image source: OnePower Lesotho

"BATTERY-AS-A-SERVICE" MODEL REACHES NIGERIA

Mobile Power has installed its first "MoPo" hub in Nigeria, enabling it to provide affordable energy access to low-income communities through its solar-powered battery rental service. The company also passed one million rentals in Sierra Leone in May, which equates to affordable power delivered across 11,000 customers.

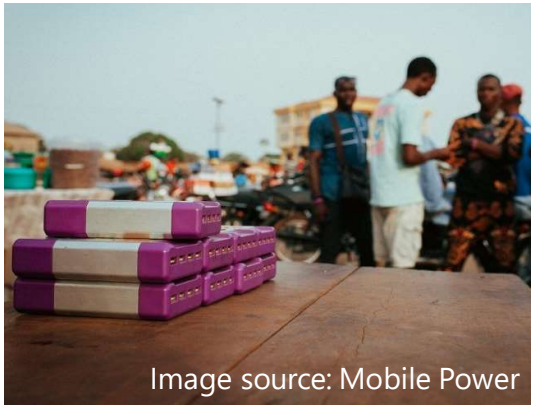


Image source: Mobile Power

POWERGEN POWERS UP TWO NEW MINI-GRIDS IN NIGERIA

Solar mini-grids developer PowerGen has confirmed commercial operation of two new sites at Maagi Bukun and Maagi Igenchi, bringing the total number of operational mini-grids in Nigeria to six. A total of 38,650 people and 1,100 microbusinesses have so far been connected to electricity for the first time through the project.

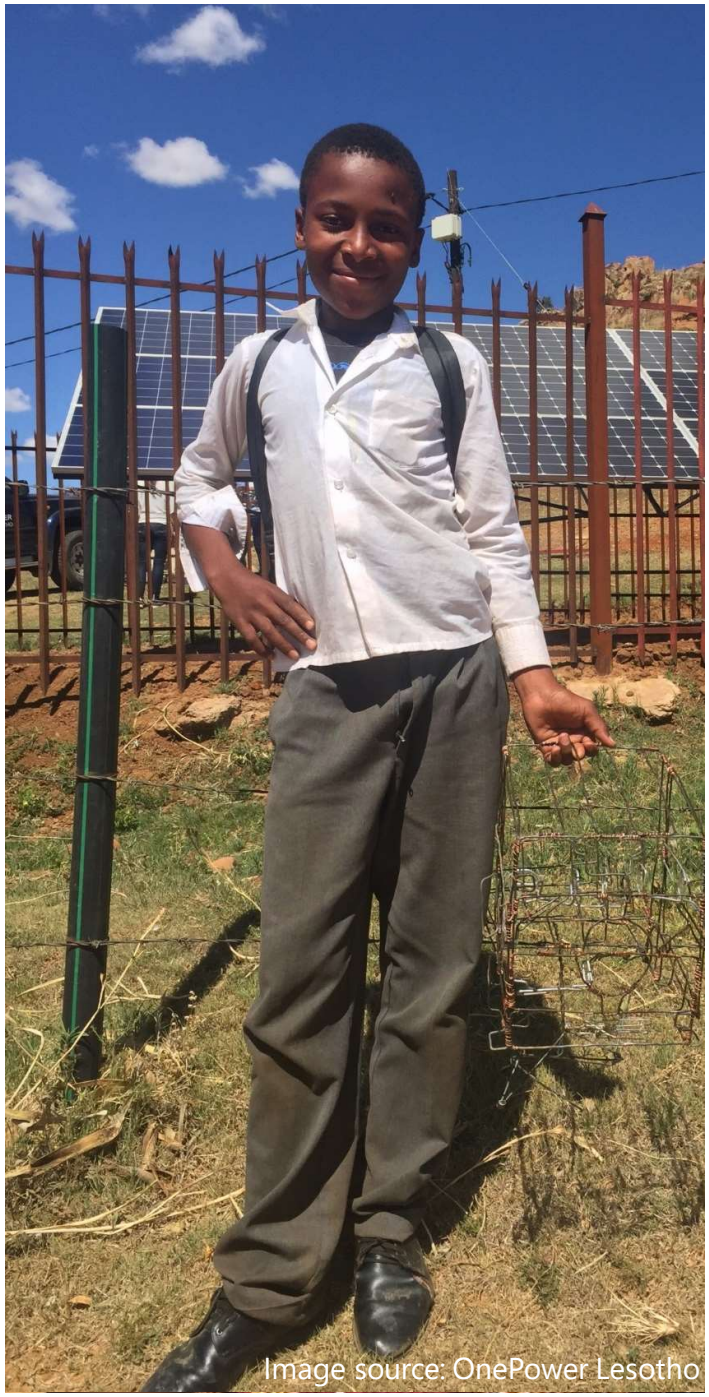


Image source: OnePower Lesotho

REPP INVESTEES RISING TO GENDER CHALLENGE

Fifty-two per cent of all REPP investments to date have been made to companies that meet 2X Challenge's criteria for gender-lens investing. The global gender finance initiative supports the empowerment of women in developing countries to access entrepreneurship and leadership opportunities, quality jobs, and products and services that enhance their economic participation.

WOMEN-FOCUSED UPOWA PLOTS COURSE OF ACTION

Cameroon-based solar home systems provider, upOwa, finalised its first gender action plan in April. The plan is made up of 19 actions and 36 indicators and covers, among other things, gender equality and inclusive values in the company's policies and procedures, gender compliance analysis and women as managers, sales agents and customers.

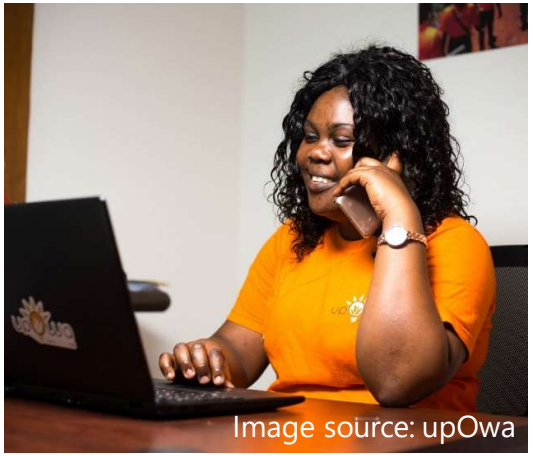


Image source: upOwa

NATIONAL POLICY ALIGNMENT FOCUS OF NEW REPP REPORT

On 3 June, REPP published its new report, *Advancing National Policy Agendas Through Responsible Investing*, which analyses how the programme's investments are aligned with the climate, energy and development priorities of the countries where it operates.

IN THE SPOTLIGHT

PRODUCTIVE USE OF ENERGY (PUE)

Image source: ARC Power

Image source: Powerhive

Access to renewable energy provides PUE opportunities and works as a driver for alternative economic opportunities by enabling diversification of livelihoods away from climate-vulnerable activities.

To date, REPP has invested more than GBP 18m in nine early-stage off-grid companies working to develop innovative and productive use applications for their customers in East and West Africa. Between them the companies are providing electricity to 7,379 micro/small businesses and over 390 critical services, including schools, health clinics and water pumping stations.

Powerhive's **KukuPoa initiative**, for example, has financed seven chicken brooders and built 25 brooder houses in partnership with a rural community in Kenya which are providing livelihood opportunities for approx. 130 people, generating a new income stream of USD 150-250 per person, per month.

ARC Power is operating a **solar business park** in Bugesera District, Rwanda, which works on a 'plug-and-play' business model that allows local entrepreneurs to pay for the power and space they use at an agreed rate. The company also hires out machinery, enabling customers to build their businesses without being faced with prohibitively expensive set-up costs.

REPP investee Rift Valley Energy's **private distribution network** currently has 5,100 customer connections, including two tea factories, a dairy farm, two sawmills, 40 primary and secondary schools as well as 44 village and ward offices. It also provides clean energy to dozens of small business workshops using more than 400 productive use of energy appliances, and eight water pumps supplying clean water to 3,000 households.

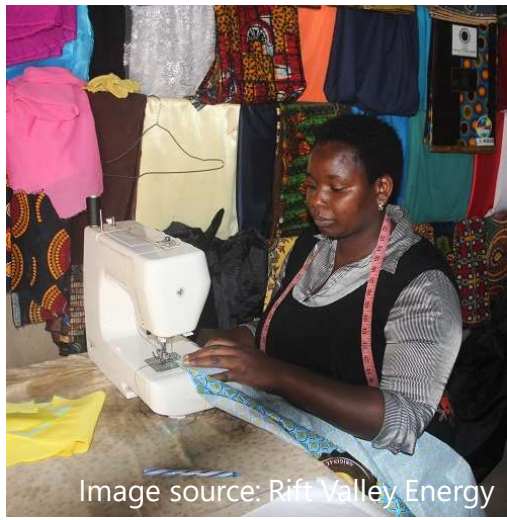


Image source: Rift Valley Energy

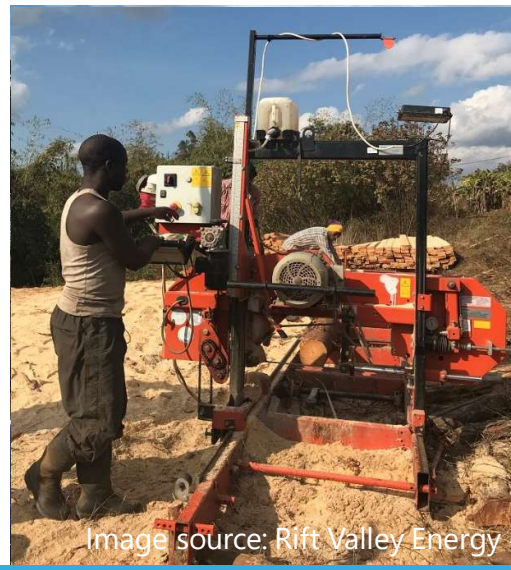


Image source: Rift Valley Energy

REPP'S REALISED IMPACT AT A GLANCE[1]

GHG AVOIDED

Year to date: 10,252 tCO_2e

For quarter: 5,919 tCO_2e

Increase: 137%

INSTALLED CAPACITY

MW

To date: 20.8MW

For quarter: 3.4MW

Increase: 20%

NEW CONNECTIONS[2]

To date: 719,865

For quarter: 78,625

Increase: 12%

FULL-TIME JOBS CREATED

Year to date: 2,837

COMMITTED CAPITAL BY REPP

To date: USD 51 m

For quarter: USD 4 m

Increase: 8%

ADDITIONAL FINANCE MOBILISED

To date: USD 129 m

For quarter: USD 15m

Increase: 14%

[1] See page 13 for definitions for greenhouse gases (GHG) avoided, installed capacity, new connections and finance mobilised.

[2] Refers to number of people connected to electricity for the first time .

REPP'S IMPACT

PROJECT BY PROJECT[1]

ARC Power
Mini-grids project, Rwanda

- 15 tCO_2e
- 0.07 MW
- 7,075 new connections

CBEA
Mini-grids project, Tanzania

- 5 tCO_2e
- 0.04 MW
- 4,660 new connections

GVE
Mini-grids project, Nigeria

- 59 tCO_2e
- 0.43 MW
- 22,282 new connections

Ha Makebe
Mini-grids project, Lesotho

- 5 tCO_2e
- 0.06 MW
- 820 new connections

Malile
Solar PV hybridisation projects, Madagascar

- 972 tCO_2e
- 3.25 MW
- Improves stability of grid supply

Mobile Power
Solar-powered battery hubs project, West Africa

- 25 tCO_2e
- 0.17 MW
- 61,180 new connections

[1] Figures shown for the number of new connections and installed capacity reflect total performance to date. Figures for GHG avoided are for the year to date..

REPP'S IMPACT

PROJECT BY PROJECT[1]

Mwenga
On-shore wind project, Tanzania

- 682 tCO_2e
- 2.4 MW
- Improves stability of grid supply

PAS Solar
Solar home systems project, Nigeria

- 329 tCO_2e
- 0.20 MW
- 21,910 new connections

PEG Africa
Solar home systems project, Cote d'Ivoire, Ghana and Senegal

- 5,884 tCO_2e
- 2.0 MW
- 392,225 new connections

PowerGen
Mini-grids project, Nigeria and Tanzania

- 48 tCO_2e
- 1.8 MW
- 38,650 new connections

Powerhive
Mini-grids project, Kenya

- 90 tCO_2e
- 0.75 MW
- 25,402 new connections

upOwa
Solar homes systems project, Cameroon

- 1,993 tCO_2e
- 0.33 MW
- 132,890 new connections

[1] Figures shown for the number of new connections and installed capacity reflect total performance to date. Figures for GHG avoided are for the year to date..

WHAT					HOW MUCH							
Focus area	Performance indicators	Link to SDGs		Align-ment with IRIS+	Achieved			Forecast[1]		Target		Data quality
		SDGs	Target		2019	2020	2021	2021	2023	2021	2023	
Prosperity	Number of projects supported by REPP	7 13	7.1, 7.2, 13.1		25	27	30	40	43	44	60	High. Measured.
	Number of projects reaching financial close	7 13	7.1, 7.2, 13.1		8	16	17	25	38	27	44	High. Measured.
	REPP funding committed in USD	17	17.3	OD5990	24	47	51	80	80	113	176	High. Measured.
	Finance mobilised in USD	17	17.3		61	114	129	605	605	548	870	High. Measured.
	Direct job creation in each year[2]	1 8	1.2, 8.5	OI8869 OI9028	1,512	2,104	2,837	MNT	MNT	MNT	MNT	High. Measured.
Planet	Installed renewable energy capacity in MW	1 7 8 13	1.5, 8.4, 7.1, 7.2, 13.1	PD1602	2.4	8.4	20.8	24.1	128.4	20.7	122.5	High. Measured.
	Number of countries whose NDCs are supported	13	13.2		-	14	15	MNT	MNT	MNT	MNT	High. Measured.
	Greenhouse gases avoided in tCO_2e	13	13.1	PI2764	5,958	22,053	32,305	46,129	315,112	55,766	298,091	Medium to high.[3]
	Number of people with first-time access to clean energy	1 3 7 11	1.4, 1.5, 3.4, 7.1, 7.2, 11.1	PI2822	174,220	581,400	719,865	803,540	1.16M	694,948	960,645	Medium to high.[4]
People	Number of households using products to support business / microbusiness	1 8	11.2, 8.5		-	9,509	8,488	MNT	MNT	MNT	MNT	High. Measured.
	Number of critical services supported[5]	1	1.4, 1.5	PI2822	-	371	430	MNT	MNT	MNT	MNT	High. Measured.
	Number of women in the workforce from direct jobs created[6]	5	5.5	OI2444 OI6978	278	501	515	MNT	MNT	MNT	MNT	High. Measured.
	Investments aligned with X2 criteria (USD)	5	5.5	OI1571 OI8118 OI8709	-	18	27	MNT	MNT	MNT	MNT	High. Measured.

MNT = Monitored. No Targets.

[1] Risk-adjusted pipeline includes committed projects and projects in advanced pipeline.

[2] 2020 job figures have been rectified.

[3] Calculated from kWh produced and UNFCCC-approved country specific grid emission factor. For SHS projects, calculated based on sales and a con

[4] Calculated based on sales / customers and conservative average household size of 5 people.

[5] Refers to schools, clinics, hospitals, waterworks and water-pumping stations that have received electricity through the projects.

[6] Agent jobs not included

LOOKING AHEAD

As the countdown to COP26 ticks away, the pressure on countries to up their ambition on climate action is growing day by day. And for the private sector and financial world it is no different. The renewable energy sector might be able to operate without the same intense glare of public scrutiny as the energy incumbents, but as a burgeoning industry with a central role in addressing the climate crisis, we need to scale up much faster than the already very rapid pace of growth and innovate continuously to provide affordable, reliable and sustainable energy for all.

On their part, REPP's investees are rising to that challenge every day and, despite the many set-backs due to the pandemic, continue to make steady progress. In the off-grid sector all operational REPP-supported projects are expected to continue to grow over the next quarter, connecting several thousand more people to clean energy for the first time. **PowerGen**, for example, is expecting to achieve COD on 21 new mini-grid sites in Kenya. COD is also imminent on **Lesotho's first-ever private mini-grid**, which as reported earlier in this report has started providing electricity to homes on a pre-COD basis; Lesotho Electricity Company has inspected the facility and the owner's engineer's review is the final step outstanding.

In the on-grid sector, the 5.7MW first phase of the **42MW Malile project** to hybridise three existing heavy fuel oil plants with solar PV in Madagascar continues to press ahead. The third of three sites is expected to reach commercial operation in Q3, after the first site was inaugurated by the President of the Republic at the start of 2021 and the second site achieved COD in Q2. A number of other grid-connected projects are advancing through the pipeline, and we look forward to announcing those deals soon.

Image source: Marco Borero

ABOUT REPP

The Renewable Energy Performance Platform (REPP) works to mobilise private sector development activity – and investment – in small to medium-sized renewable energy projects (typically up to 25MW) in West, Central, East and Southern Africa to ensure access to clean energy for all and mitigate greenhouse gas emissions (GHG) in line with SDG 7 and SDG 13 and the Paris Agreement.

REPP is managed by Camco Clean Energy, a leading fund management company, and is supported with £148m funding from the UK's International Climate Finance through the Department for Business, Energy and Industrial Strategy (BEIS).

To date, REPP has financing agreements with **30 projects** or companies spread across **17 countries** and employing **7 different technologies** (grid-connected solar PV, run-of-river hydro, on-shore wind, solar PV mini-grids, solar home systems, solar PV-powered batteries, geothermal).1 A total of **£40m** has been contracted through these projects and a further **£70m** committed to projects in the pipeline.

[1] Five earlier projects were terminated.

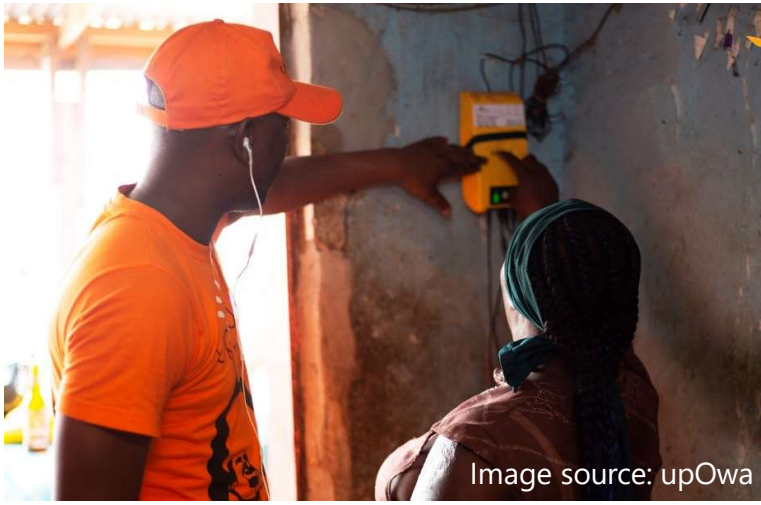


Image source: upOwa


Image source: ARC Power

HOW CAN REPP HELP?

DEVELOPMENT PHASE CAPITAL AND SUPPORT

REPP provides loans for selected third-party development expenses (such as feasibility studies, environmental and social impact assessments, legal advice etc.), financial structuring support, general project guidance and, in selected cases, developer capital.

TECHNICAL ASSISTANCE

REPP supports developers with business planning, training, workshops and seminars, and facilitates learning and exchange between developers.

GAP FINANCING

REPP helps to bring projects to financial close by providing funding using a range of finance products, from equity to senior debt.

ACCESS TO RISK MITIGATION INSTRUMENTS

REPP helps projects and developers to access appropriate risk mitigation instruments provided by third-party providers. These instruments typically focus on risks that cannot be cost-effectively managed by the private sector - in particular, political, regulatory, currency and offtaker risk. REPP also works with governments and other stakeholders on regulatory improvements to reduce risk in the long-term.

ACCESS TO LONG-TERM CAPITAL

REPP helps developers to structure project finances in the right way, and to secure finance from REPP partners and other sources of capital - both private and public. It also works with lenders and risk mitigation instrument providers to coordinate their approval and due diligence requirements so that the funding process is simplified for developers.

DEFINITIONS

Finance mobilised - financial resources committed by third parties to a project being supported by REPP.

Greenhouse gases (GHG) avoided - the amount of emissions, in tonnes of carbon di-oxide equivalent (tCO_2e), which would have been created to generate the same amount of electricity produced by a REPP-financed renewable energy project if fossil fuels had been used.

Installed capacity - the rated power output, in MW, of a power plant or other electricity generator when operational. Also known as nameplate capacity and rated capacity.

New connections - the number of people connected to an off-grid renewable energy project. It is calculated as the number of customers served by the project multiplied by the average number of people per household, which is deemed to be five persons.

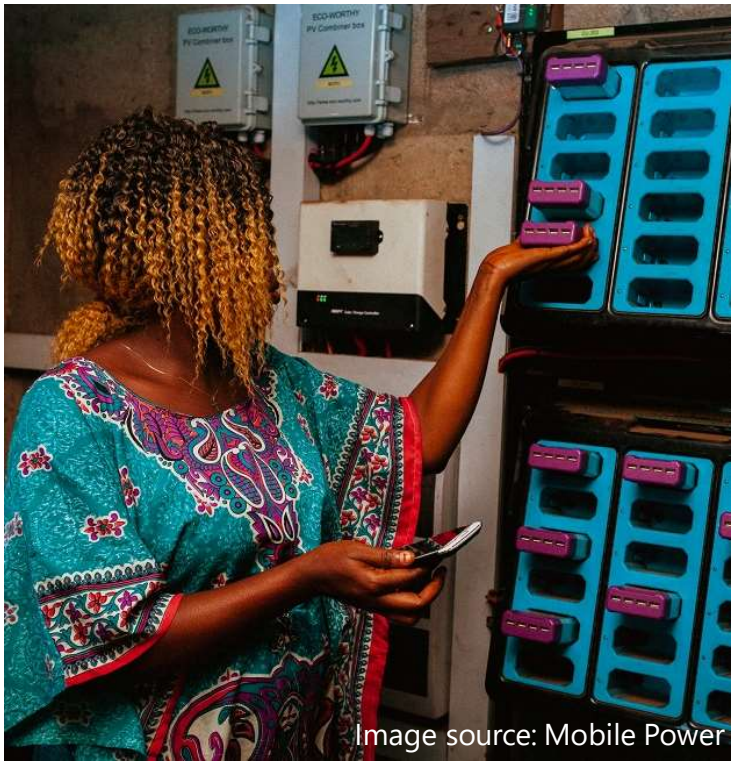


Image source: Mobile Power

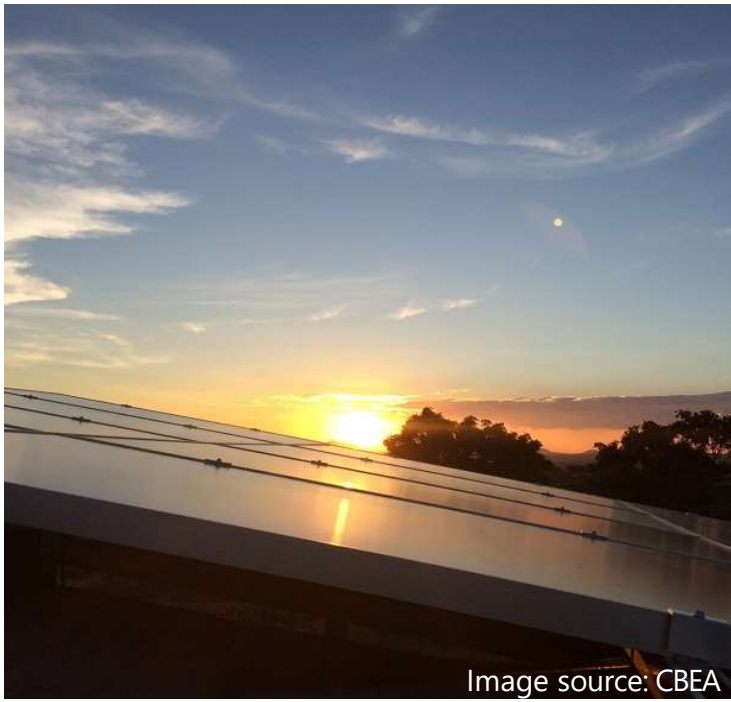


Image source: CBEA

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FOR MORE INFORMATION, PLEASE CONTACT:

Renewable Energy Performance Platform
28 St John's Square
London EC1M 4DN
United Kingdom


repp.energy


+44 (0) 207 121 6101


info@repp.energy

REPP
managed by camco clean energy