REPP

managed by camco CLEAN ENERGY

QUARTERLY IMPACT REPORT

Quarter 3 2020

Image source: Virunga Power

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 in West, Central, East and Southern Africa (typically up to 25MW).

REPP is managed by Camco Clean Energy 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 agreed contracts with 30 renewable energy projects across 14 countries, employing five different technologies (solar home systems, solar PV mini-grids, grid-connected solar PV, run-of-river hydro, and onshore wind).

Image source: PAS Solar Ltd

Image source: PowerGen

WELCOME

Welcome to REPP's first ever Quarterly Impact Report!

The purpose of these reports is to provide an overview of how REPP-supported projects are making a tangible impact over time.

Each quarter we will be looking at how **key performance indicators** are changing over time, including the number of people being connected to clean energy for the first time, MW renewable energy installed and greenhouse gases avoided. We will also be using the reports to highlight top stories, showcase individual projects in our ***In The Spotlight*** section and looking ahead to what the next three months and beyond have in store.

COVID-19 LATEST

REPP had received 10 applications for its COVID-19 support package as of 31 September. Two have so far been approved and the team is currently busy working through the other applications.

All REPP investees that have interest bearing loans were offered a three-month interest and capital moratorium.

Image source: Creative Commons

SOLAR PV PROJECT CREATING LOCAL JOBS

Twenty-one local people out of a total of 30 have been employed for the on-going construction of the Marco Borero solar PV plant in Nyeri County, Kenya. The project is vying to become the country's first privately owned grid-connected solar project to reach commercial operation.

Image source: Marco Borero Ltd

WIND FARM MAKES HISTORY IN TANZANIA

Tanzania reached a renewable energy milestone this summer as the country's first ever wind farm went online, providing power to a private rural grid network. See *In The Spotlight* on page 5 for more.

Image source: Rift Valley Energy

Image source: PEG Africa

BURUNDI'S FIRST SOLAR FARM STARTS TO TAKE SHAPE

Construction continues apace on the 8.67MWp Mubuga solar PV power plant, which is expected to reach commercial operation in March 2021. Once built, the plant will improve the energy supply of nearly 90,000 people. To date, the project has created 66 construction jobs of which 86% are local, 18% are held by women and 18% skilled.

Developer Gigawatt Global has distributed more than 200 handwashing stations to schools, churches, health clinics, marketplaces and other gathering places in the Mirama and Mubuga villages that are adjacent to the project site to improve protection against COVID-19.

Image source: Voltalia

INTL. DEVELOPMENT VETERAN JOINS REPP BOARD

Image source: BEIS

Ashufta Alam is a senior civil servant at UK Department for Business, Energy and Industrial Strategy (BEIS), where she oversees a £2.5 billion portfolio of international climate investments. Ashufta is also the Director (Chair) of UK Climate Investments LLP and the UK Alternate Board Member to the Green Climate Fund.

Find out more about REPP's Board here.

IN THE SPOTLIGHT

MWENGA WIND FARM

Image source: Rift Valley Energy

Image source: Rift Valley Energy

Tanzania's first ever wind farm is up and running after a US$1.2m mezzanine loan from REPP concluded the financial structure of the project and improved its overall commercial viability.

Completed in June, the 2.4MW wind farm is providing much-needed energy security to customers of a rapidly expanding private rural grid network developed and operated by project developer Rift Valley Energy Group (RVE).

Until the summer, the network had been powered by a 4MW hydropower plant, providing electricity to more than 4,500 homes and businesses across 32 villages. The wind farm is now enabling RVE to continue with its network expansion plans and connect an anticipated 1,500 more customers over the next two years, while also countering the hydro plant's varying output due to the region's seasonality of rainfall.

The project created 10 full-time construction jobs and a further eight full-time jobs during operation, with over 60% of the labour force from the local community.

COUNTRY POLICY ALIGNMENT

The Mwenga wind farm supports Tanzania's NDC (2015) targets to reduce GHG emissions by up to 20% by 2030 and promote rural electrification and diversification of energy system. Also supports the implementation of Tanzania's Vision 2025 and the National Five-Year Development Plan 2016-21 (2016) through the development of energy infrastructure.

LOCATION

Mufindi District, Iringa region, Tanzania

AT A GLANCE

Technology

On-shore wind

Project type

Grid-connected

Offtaker

Rural communities and semi-industrial clients

Supported SDGs

KPIs

Greenhouse gas emissions avoided: 3,526 tCO_2e per year

Improves access to grid

Installed capacity: 2.4MW

REPP'S REALISED IMPACT AT A GLANCE[1]

New connections surge by 29% as off-grid projects thrive

GHG AVOIDED

Year to date: 7,917 tCO^2e

For quarter: 4,436 tCO^2e

INSTALLED CAPACITY

To date: 6MW

For quarter: 0.7MW

Increase: 11%

NEW CONNECTIONS

To date: 372,445

For quarter: 107,533

Increase: 29%

FULL-TIME JOBS CREATED

Year to date: 1,353

COMMITTED CAPITAL BY REPP

To date: £30m

For quarter: £0.4m

Increase: 7%

ADDITIONAL FINANCE MOBILISED

To date: £86m

For quarter: £0m

Increase: 0%

[1] See page 12 for definitions for greenhouse gases (GHG) avoided, installed capacity, new connections and finance mobilised.

LOOKING AHEAD

With the impact of COVID-19 continuing to be felt across the world, considerable uncertainty still hangs over the renewable energy sector in countries in Africa, as it does across all areas of life.

Despite the pandemic, we are confident that numerous projects in the REPP portfolio will reach notable milestones over the next quarter and into early 2021. In Kenya, the Marco Borero solar PV plant is expected to be operational before the end of the year, adding 1.5MW of clean energy to the country's total installed capacity. Meanwhile, construction work continues on the 8.67MWp solar plant in Mubuga, Burundi, with eyes set on March next year for the start of commercial operations.

In the off-grid sector, we are expecting to see a continued rise in the number of new connections through existing projects, as well as the completion of the mini-grid installation at Ha Makebe, Lesotho, which should pave the way for up to 10 further mini-grids, eventually providing first-time clean energy access to more than 24,000 people. In Nigeria, the GVE solar mini-grids project has commissioned its first four grids and is looking to complete more sites before the end of this year as a direct result of REPP's investment.

Image source: OnePower Lesotho (Pty) Ltd


Image source: Camco Clean Energy

REPP'S IMPACT

PROJECT BY PROJECT[1]

ARC POWER
Mini-grids project, Rwanda

- 14 tCO^2e
- MW 0.06 MW
- 9,815 new connections

CBEA
Mini-grids project, Tanzania

- 14 tCO^2e
- MW 0.04 MW
- 4,235 new connections

Mwenga
On-shore wind project, Tanzania

- 461 tCO^2e
- MW 2.4 MW
- Improved access to grid

PAS Solar
Solar home systems project, Nigreria

- 430 tCO^2e
- MW 0.19 MW
- 19,130 new connections

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

- 4,157 tCO^2e
- MW 1.77 MW
- 184,755 new connections

PowerGen
Mini-grids project, Nigeria and Tanzania

- 160 tCO^2e
- MW 0.27 MW
- 16,140 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]

Powerhive
Mini-grids project, Kenya

25 tCO²e

0.67 MW

15,625 new connections

upOwa
Solar homes systems project, Cameroon

2,509 tCO²e

0.16 MW

111,520 new connections

Image source: PAS Solar Ltd

[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		Target		Data quality
		SDGs	Target		2018	2019	2020 (Oct 31)	2020	2023	2020	2023	
Economic growth	Number of projects supported by REPP	7 13	7.1, 7.2, 13.1		19	25	30	34	36	36	60	High. Measured.
	Number of projects reaching financial close	7 13	7.1, 7.2, 13.1		4	8	15	21	31	18	44	High. Measured.
	REPP funding committed in £m	17	17.3	OD5990	12	30	30	45	46	57	125	High. Measured.
	Finance mobilised in £m	17	17.3		38	48	86	289	289	274	615	High. Measured.
	Direct job creation in each year	1 8	1.2, 8.5	OI8869 OI9028	594	1366	1,928	MNT	MNT	MNT	MNT	High. Measured.
Environment and climate change	Installed renewable energy capacity in MW	1 7 8 13	1.5, 8.4, 7.1, 7.2, 13.1	PD1602	0.5	2.4	6.0	7.3	165.8	15.3	122.5	High. Measured.
	Number of countries whose NDCs are supported	13	13.2		N/A	N/A	14	MNT	MNT	MNT	MNT	High. Measured.
	Greenhouse gases avoided each year in tCO2e	13	13.1	PI2764	1,753	4,205	7,197	9,745	318,163	29,924	298,091	Medium to high.[1]
Social inclusion	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	60,105	174,220	372,445	608,677	3,738,841	44,397	356,579	Medium to high.[2]
	Number of households using products to support business / microbusiness	1 8	11.2, 8.5		-	-	4,489	MNT	MNT	MNT	MNT	High. Measured.
	Number of critical services supported*	1	1.4, 1.5	PI2822	-	-	433	MNT	MNT	MNT	MNT	High. Measured.
	Number of women in the workforce from direct jobs created.[3]	5		OI2444 OI6978	-	278	365.6	MNT	MNT	MNT	MNT	High. Measured.
	Investments aligned with X2 criteria (m£)	5	5.5	OI1571 OI8118 OI8709	-	-	4.8	MNT	MNT	MNT	MNT	High. Measured.

Note: MNT = Monitored. No Targets.

[1]Calculated from kWh produced and UNFCCC-approved country specific grid emission factor. For SHS projects, calculated based on sales and a conservative emission factor of 0.15 tCO2/SHS/year.

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

3 Agent jobs not included

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 (tCO2e), 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: Camco Clean Energy


Image source: PEG Africa

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