# **PIDG Pathfinder**



of the PIDG Pathfinder. As I reflect back on 2019, I would like to highlight the hard work and commitment by colleagues, partners and other stakeholders. The Development Impact strategy with its even stronger

Welcome to the second issue

alignment to both the climate and empowerment and equality agendas is just one example of this. This is clearly demonstrated in some of our most recent and innovative deals such as, Acorn affordable student housing in Kenya which will provide sustainable housing in six accommodation blocks for up to 5,000

students. We were privileged to have the Acorn CEO, Edward Kirathe, visit us in London, to tell us more about the growth prospects that affordable housing brings to Kenya and the transformative benefits of this project, from establishing a strong student community that can thrive academically and socially, to knowledge transfer to local businesses as well as long-term local job creation. Also, significant for its alignment with equality and empowerment, is Classic Fashion in Jordan, where our support to the country's leading garment manufacturer has resulted in jobs for Syrian refugees, migrant workers and also local young Jordanians. In this issue, Lorna McNae of InfraCo Africa shares the background to a powerful video of the *Chiansi* irrigation project which is a great example of the PIDG blended finance model being used to achieve scale and replication as well as the knowledge transfer necessary for smallholders to access the benefits of irrigation

recounts the challenges and eventual successful completion of the Ninh Thuan solar power plant in Vietnam, one of the country's first utility-scale solar power plants.

In our Talking point, Prabaljit Sarkar of InfraCo Asia,

enjoyed by commercial farms.

enable local commercial banks in Togo, to finance a natural gas-fired thermal plant and related infrastructure in the port area of Lomé. Our team has been contributing to our sector interests through trips to the UN General Assembly in New York, the IMF and World Bank meetings in Washington DC, and the Africa Investment Forum in Johannesburg.

We have also hosted interesting events in our international office locations recently. In Nairobi we held a high-level reception for local commercial, project and government partners to PIDG companies prior to our convening the last PIDG Board meeting

offices in Singapore's Manulife tower. Our successful project partnerships and capital markets innovations continue to reinforce PIDG's reputation as sector leader and is gratifying to see this model endorsed in a recent McKinsey report on unlocking private sector finance. I would like to send my warm wishes for the holiday season, and for the new year.

of 2019 and in October, we celebrated the official opening of the new InfraCo Asia and GuarantCo

Philippe Valahu, CEO

**Talking point** 

Notes from the field:

### When the Sunseap – InfraCo Asia Joint Venture that developed the recently commissioned 168MWp 168MWp Ninh Thuan Solar Power project achieved Ninh Thuan Solar Power project in Vietnam. Here, he financial close in the fourth quarter of 2018, I reflected shares his perspective on bringing one of the country's on how far Vietnam has come - and what it will take first utility-scale solar power plants to life. to mobilise the \$10 billion investment that's needed

By Prabaljit Sarkar,

Prabaljit Sarkar, Director of Business Development at InfraCo Asia, was an instrumental part of the team

**Director of Business** 

Development, InfraCo Asia

InfraCo Asia's Ninh Thuan Solar Power Project



large utility-scale solar project online in Vietnam Prior to my time at InfraCo Asia, I spent a significant period in Vietnam working to develop and raise debt finance for a 1,240MW power project in the northeastern part of the country. Coupled with InfraCo Asia's investment, development, and 2018 divestment of the 29.7MW Coc San Hydro Power project in Lao Cai Province, experience told me that financing the Ninh Thuan solar power project would also be an ambitious undertaking given Vietnam's limited access

to mainstream financing and high cost of capital due

Together with our partner Sunseap International,

Singapore's leading renewable energy company,

InfraCo Asia managed to overcome Vietnam's significant challenges and go on to create a project

that demonstrates how risks can be identified,

in the country's solar photovoltaic (PV) sector.

mitigated and managed in frontier markets and which

contributes to the recent crowding-in of private capital

Many factors contributed to the Ninh Thuan project's

success, including InfraCo Asia's work on the financing

InfraCo Asia projects endeavor to create development

impact for the local community. For the Ninh Thuan

community are protected, through the construction

of two rural roads around the project site to facilitate

the transport of agricultural livestock and produce for

project, this includes initiatives to ensure that the livelihoods of the people in the surrounding

to perceived sovereign risks.

Lifting up the local community

Financing one of the first: What it takes to bring a

nearby farms. The project also created up to 2,000 short-term jobs during construction, which provided farmers with employment during low harvest season. In operations, the project has also created long-term employment

Working in partnership to grow Zambia's future June 2019

Lorna McNae,

InfraCo Africa

Almost 70% of the food consumed in the world is

produced by smallholder and subsistence farmers

across Asia and Africa. Yet the effects of climate

In 2006, a group of smallholders in Chanyanya,

southern Zambia, decided that access to irrigation

supplies and provide their families with year-round

income. They sought support from InfraCo Africa.

was essential if they were to safeguard their own food

The company worked with Chanyanya's smallholders to

transforming dry earth into fertile market gardens and

develop an innovative cooperative irrigation scheme,

In August of this year, I was privileged to accompany

a two-person film crew to capture the experience

of those pioneering farmers, their neighbours and

a number of the many stakeholders involved in the

project since its inception. Our visit occurred at a

change on rainfall patterns are making such farming methods increasingly precarious. Without water, crops

fail, food supplies dry up, and prospects for economic

Communications Manager,

Ninh Thuan Solar Power Project of the project. We spent a significant amount of time working with international banks as well as

local Vietnamese financial institutions to unpack

some of the 'non-bankable' terms in the Power

Purchase Agreements (PPAs) so that they would

parties involved.

have the comfort level needed to finance on a non-

recourse basis. We also offered up innovative credit

enhancement solutions aimed at balancing risk for all

Ultimately – and alongside the project development

instilled confidence in potential lenders, culminating in the provision of limited-recourse project financing

explored the possibility of funding such a large-scale

On 15 June 2019 – two weeks ahead of schedule – the

reliably since. Along with being one of the first utility-

project was commissioned and has been operating

scale solar power projects in the country, the Ninh Thuan project is also one of only a handful of large-

scale solar projects (above 100MW) in Vietnam that

was financed with 100% foreign equity investment.

opportunities for skilled local workers who look after the operation and maintenance of the solar farm,

which generates enough clean energy to power

up to 192,000 people in Vietnam.

renewable energy project in Vietnam.

by a regional bank which, prior to this project, had not

work we undertook with Sunseap – these actions

and gas. Increasing demand for electricity has led the

country to be a net importer of coal since 2015. What's

more, despite tremendous renewable energy potential,

renewable power generation has traditionally been low, with under 4% of power generation coming from

each year until 2030 to fulfill the country's energy

demand.

renewable sources (mainly hydro) as of 2015.

The project partners have also donated bicycles to schools, providing the schoolchildren with a more efficient means of transport between school and the rural areas where most students reside. We at InfraCo Asia look forward to developing more projects like Ninh Thuan – projects that demonstrate a sector's potential in balance with the needs of communities, and in turn encourage greater private sector participation in the markets that need it most.

that, "This project could not have come at a more appropriate time with regards to the threat of climate change...it is affecting livelihoods and the productivity of the agricultural sector. The impact of climate change

This was a view echoed by those we spoke with in

the following days. Smallholders blamed climate change for recent droughts and shifting seasons, even

the strong winds that buffeted our microphone and

camera as we filmed- were occurring a month later

The film shoot was not without its challenges! Power

on an almost hourly basis, but with support from the project team on the ground, we captured some

failed, drone batteries went flat and plans were shifted

stunning footage and fascinating stories to share; and

my overriding sense, when standing among fields of

sweet potato leaves with Chanyanya's smallholders

and with the community in dry Demu South, Chiansi,

future. There is a strong desire to educate and provide

was one of self-determination and ambition for the

jobs for young people, and on several occasions we

heard people say, "With water, anything is possible!"

Mary Robinson, former President of the Republic of

wrote in her book, Climate Justice, "We need to create

Ireland and UN Special Envoy on Climate Change,

a "people-first" platform for those on the margins

in any future climate change negotiations."2

suffering the worst effects of climate change, and to

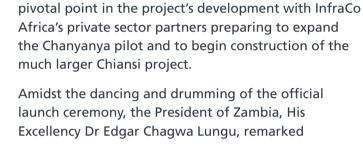
amplify their voices to ensure them a seat at the table

is real and is a cause for decisive action."

than usual.

development suffer.

a profitable commercial farm.



Relevant links: <sup>1</sup>Karla D. Maass Wolfenson, "Coping with the Food and Agriculture Challenge: Smallholders' Agenda," Natural Resources Management and

Publishing, London. www.cleancookingalliance.org

**Sharing knowledge** 

**Investor funds well spent in Ghana** 

Emilio Cattaneo, Executive

Africa Infrastructure Fund.

reports on his recent visit to

Director, the Emerging

two projects in Ghana

One of my prime duties is to represent the

EAIF has supported two big infrastructure projects of

Tema industrial zone close to Ghana's capital of Accra.

a 350MW Combined Cycle Gas Turbine power station.

Recently completed, it is expected to supply around

13% of Ghana's current electricity demand capacity

Natural gas from Ghana's own offshore gas industry

is growing in importance as a fuel to help meet the

strategy is our second project, Quantum Terminals,

a Liquified Petroleum Gas (LPG) storage facility now

nearing completion at Tema. LPG has substantially

coal and biomass. EAIF has loaned US\$10 million to

the Quantum Terminals development. GuarantCo

lower CO<sup>2</sup> emissions per kilowatt hour than oil,

increasing demand for energy to help sustain growth in the economy. A core component of the natural gas

national strategic importance to Ghana's economic

development. The first is Cenpower, located in the

I hope that this film helps to amplify some of those important voices. I also hope that it demonstrates how establishing partnerships between smallholders and commercial farmers, the local chiefdom, government, investors and the private sector can deliver positive development impact.

Environment Department. Food and Agriculture Organisation of the United Nations, prepared April 2013, revised July 2013, www.fao.org/ fileadmin/templates/nr/sustainability pathways/docs/Coping with food and agriculture challenge Smallholder s agenda Final.pdf <sup>2</sup>Mary Robinson with Caitríona Palmer. Climate Justice: Hope, Resilience and the Fight for a Sustainable Future. 2018. Bloomsbury

> provided a guarantee for a US\$10m corporate local currency bond to the same project, which was the first

Ghanaian corporate bond issue to be listed on the

What struck me most, is the size of these projects,

the engineering and technical complexity of them

and the quality of the people building and operating them. Both would represent significant industrial

infrastructure in any type of economy, even the most

that they have the capacity to build more sustainable

advanced. To see such giants in Ghana and to know

foundations for the competitiveness, stability and

The energy market in Ghana faces significant

rates in Africa. In 2016, over 82% of Ghana's

population of 30 million had access to electricity.

challenges the energy sector faces, meeting the

electricity needs of the 18% of people without

In addition to rising to the structural and financial

electricity, is likely to see diversification into increased

solar energy. EAIF stands ready to support qualifying developers of solar, as it has other sectors of the

The UK delegation included Parliamentary Under

Secretary of State at the Department for International

Development (DFID), Baroness Sugg, and Conservative

Member of Parliament, Adam Afriyie, led by Nick Dyer,

the Director General for Economic Development at

infrastructure, structural and political challenges. The government and energy industry are in talks

about how to resolve these matters. But Ghana has

succeeded in having one of the highest electrification

success of the Ghanaian economy

is to see investor funds well spent.

London market.

energy industry.

DFID.

Cenpower

## interests of EAIF's stakeholders, which include both our government owners as well as private and development finance lenders to the fund. Occasionally, my role as an ambassador for EAIF allows me to visit projects to see progress for myself and, in early October, I was invited to accompany a high-level British delegation on a visit to Ghana

and to our projects.

when fully operational.

**Devex live, London, October 2019** In October, Philippe Valahu, PIDG CEO, spoke at the

On the circuit

Devex Live event, on a panel titled:

Mobilising billions to trillions: Can we seize

opportunities through smart business growth?

Jules Samain of GuarantCo presented on a panel at the Africa investment Forum – Johannesburg. Jules offered his views on local currency solutions in a discussion about scaling up risk mitigation around the co-guarantee platform and African infrastructure

PIDG has enjoyed coverage in the corporate

publication, KPMG Insights where Philippe Valahu,

Cattaneo of EAIF contributed their thoughts to a

PIDG CEO, Janice Kotut-Sang of GuarantCo and Emilio

guarantee mechanism.

Africa Investment Forum, Johannesburg, 11-13 November 2019

**KPMG Insights, 'Watering the green shoots'** 

markets are evolving and local capabilities are rapidly

improving, while the infrastructure investment gap

continues to grow.

He was joined by speakers from Standard Chartered,

the World Bank group, DFID, Convergence, and the event was chaired by the Devex journalist Adva

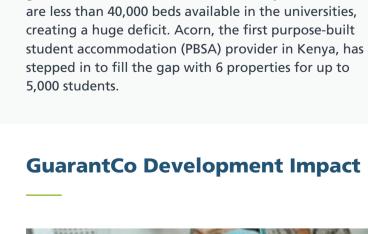
Saldinger, Devex.

**Project round-up** 

Classic Fashion, Jordan

decades.

PIDG Chair, Andrew Bainbridge, gave an interview to the Winter 2019 issue of Spear's wealth management magazine on how PIDG has evolved in nearly two



GuarantCo with Standard Chartered Bank to provide a **US\$ 50 million dual currency guarantee backed loan for K-Electric, Pakistan** 

Kékéli Efficient Power Project, Togo, west Africa

Fashion to employ and train around 1,000 Syrian refugees, as well as Jordanian youth and migrant workers living in Jordan, over the next four years. First affordable housing project in Kenya

> GuarantCo have launched their new Development Impact page where you can view online and video stories by the individuals and communities

benefitting from our projects.

## GuarantCo is supporting K-Electric (KE), a Pakistani investor-owned electricity supply company, with a local currency and US dollar denominated partial guarantee

GuarantCo has provided a XOF 14.2 billion (USD 23.8 million) Liquidity Extension Guarantee (LEG) to enable local commercial banks in Togo, including Orabank, to provide a 14 year tenor loan to Eranove. The LEG

will finance the construction of a 65MW natural gasfired thermal plant and related infrastructure in the port area of Lomé (Kékéli Efficient Power Project), the

capital of Togo, providing electricity to nearly 20 percent (1.5 million people) of the population

This transaction is GuarantCo's first guarantee in Togo and the first LEG to extend the maturity of a transaction with a 7-year tenor for local commercial banks to 14 years. It is also the first infrastructure

in the country.

In addition, GuarantCo, through the PIDG Technical Assistance Facility, will co-finance workshops raising awareness about the hazards of illegal electricity infrastructure. This project will also focus on high risk communities through women and children focused awareness sessions; the training will be rolled out by

to finance aerial bundled cable roll-out, smart grid solutions and additional distribution network maintenance. The project will improve the reliability of KE's network and through the roll-out of the insulated cables decrease theft and safety related risks, such as electrocution. This will both directly benefit the citizens of Karachi and enhance KE's capability.

written panel discussion on how Africa's PPP Invest Africa Ltd 'How to tackle Africa's infrastructure challenge' Emilio Cattaneo for EAIF and Gilles Vaes for InfraCo pathfinder role in addressing the gaps in infrastructure Africa interviewed for the Invest Africa Ltd newsletter investment and provision that results in high on The Private Infrastructure Development Group's development impact. Why blended finance is the best way to do good with private capital

> GuarantCo has provided a USD 42.5 million guarantee to support Classic Fashion Apparel Industry (Classic Fashion), Jordan's largest garment manufacturer. The proceeds of the loan will be used for the construction of a textile processing mill, a centralised cloth cutting station, new laundry facility, and a carton and poly bag factory. The guarantee will enable Classic

## PIDG companies, GuarantCo and the Emerging Africa Investment Fund (EAIF) have joined forces to support the provision of much needed student accommodation in Nairobi. Kenya currently faces a chronic shortage of student accommodation as university enrolment in Kenya has grown to around 550,000 students today whilst there

for PIDG companies October 2019



**Energising a community:** 

In September 2019, InfraCo Asia hosted the

inauguration of its Philippines Smart Solar Network

The Philippines Smart Solar Network project

women giving it a female empowerment angle.

transaction to be financed mainly in local currency, which in combination with the extended tenor enabled by the LEG, helps to provide a competitive electricity tariff for the local population.

The Private Infrastructure Development Group Ltd. ("PIDG") is a private limited company incorporated in England and Wales, whose registered office is at 6 Bevis Marks, London, EC3A 7BA. Tel: +44 (0) 203 848 6740 | www.pidg.org | Communications@PIDG.org Company number: 11265124 | VAT number: 296085564

In **Sharing knowledge**, Emilio Cattaneo of EAIF, reflects on his recent visit to Ghana with a high-level UK government delegation to see the progress of two of our projects, Cenpower and Quantum Terminals. I was delighted to be invited, along with representatives from across the PIDG group, to visit Togo, West Africa. We met with the President and ministers to learn more about the government's fiveyear national development plan, which comprises a number of sectors and projects, including agribusiness, irrigation, aquaculture, mini-grids being primed for private investment. As a result of ensuing talks, PIDG is now providing a liquidity extension guarantee to