

WISIONS Webinar Series | Webinar 5 | 15.11.2018

Alternative Financing Ideas for Small-scale Renewable Energy

Moderator: Molly Hurley Depret

Panelists:

- Zita de Pooter, Nexus for Development
- Rohit Sen, bettervest
- Badri Nath Baral, Winrock International Nepal
- Carmen Dienst, WISIONS coordinator, Wuppertal institute

Who's who?





Zita de Pooter Grants and Membership Manager





Rohit Sen Strategic Cooperation & Business Development Manager







Badri Nath Baral Director-REPSO Nepal



WISIONS background What is WISIONS initiative about?



www.wisions.net

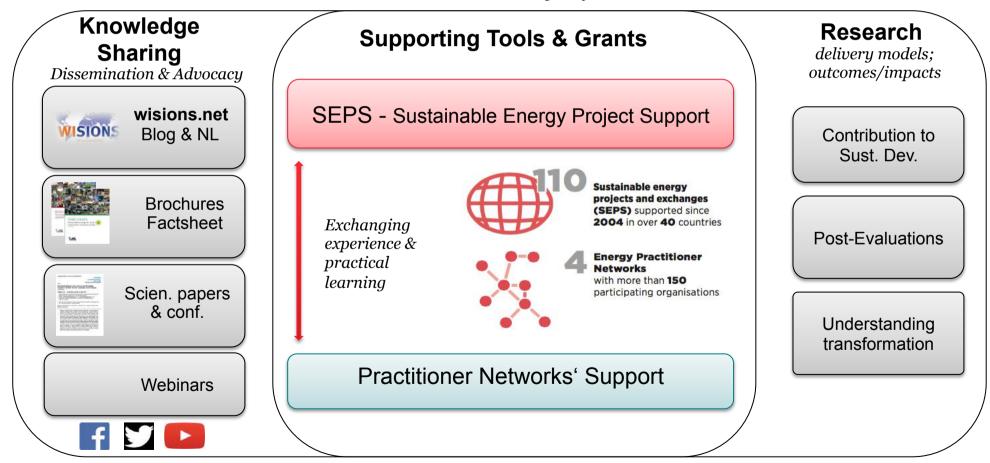
"WISIONS mission is

to **empower practitioners** and communities in the Global South to **transform** the production and use of **energy** so that it effectively **enables sustainable development**"

WISIONS structure



Wuppertal Institute Supervision Coordination - Strategic reflection



Alternative Financing Ideas for Small-scale Renewable Energy



Financing is a key topic for energy practitioners & practitioner networks Essential for achieving SDG7 and climate goals

- > What are key challenges energy practitioners face?
- > What are alternative solutions?
- > What can we learn from existing models and fresh ideas?



Thank you very much for your attention !

http://www.wisions.net/pages/wisions-webinar-series



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WISIONS on Facebook





Accelerating Access to Finance for Clean Energy Entrepreneurs in Southeast Asia

November 2018

Nexus for Development: who we are

Fund Manager

Climate Funds

- 4.4M tons of CO₂ avoided
- 590 million USD of positive co-benefits

Pioneer Facility blended finance vehicle providing working capital loans in Asia

Clean Energy Revolving Fund noncollateralized loans to farmers in Cambodia to adopt clean energy technologies

Network facilitator

Membership organization

- 20 social enterprises/NGOs active in clean energy/water/sanitation in Asia
- sharing knowledge + lessons learned on how to access finance and scale lowcarbon projects

Talking Finance

• Facilitate dialogues between entrepreneurs and financiers to help remove barriers for entrepreneurs



Barriers faced by entrepreneurs in Southeast Asia

Finance is expensive and inflexible

- Short-term loan tenures (debt) or payback periods (equity)
- High interest rates (debt) or return on investment expectations (equity) that are unrealistic
- Collateral required

Financial language

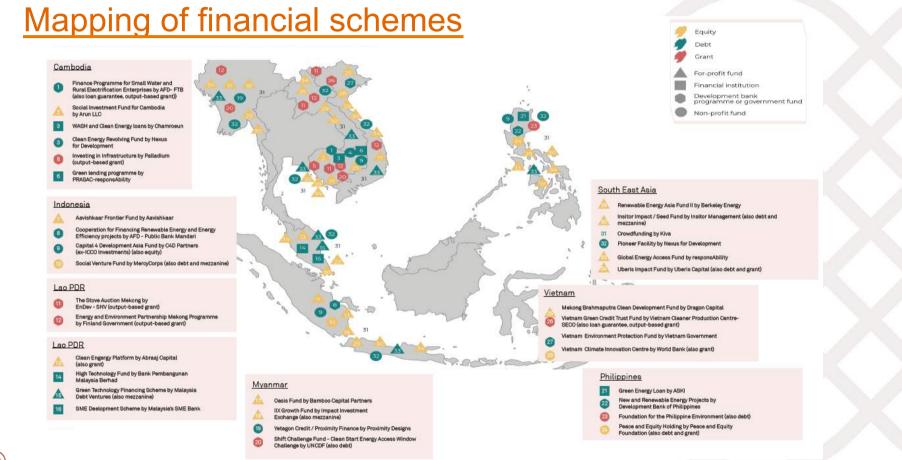
- Banks/investors assume high financial literacy but entrepreneurs have limited knowledge of key finance terms and alternative financing solutions (e.g. first-loss capital)
- Lack of documentation due to informal business practices

Perceived risk of renewable energy

- Lack of financing products dedicated to renewable energy projects



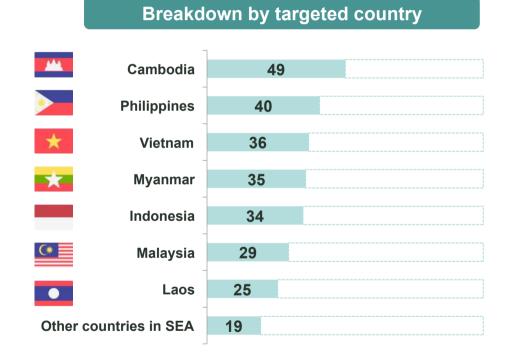
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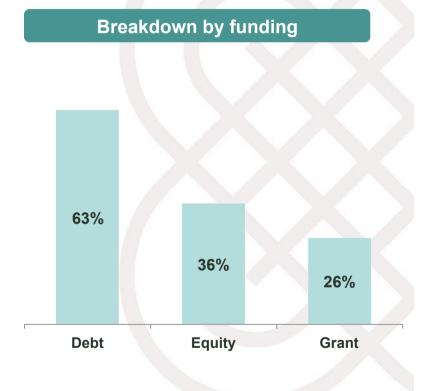




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Renewable energy financing landscape







Renewable energy financing landscape

Breakdown by financier				
Development bank programmes / Government funds	For-profit funds	Non-profit funds	Financial institutions	Crowdfunding
	UBERIS Capital			kiva
UN CDF	IN SIT <mark>orim pact</mark> fun d	pact building local promise.		INDIEGOGO
29%	28%	20%	[VAL	4%

Dialogue between entrepreneurs and financiers

- Foster mutual understanding and improved collaboration, exchange insights and experiences
- More than 90% of entrepreneurs feel they have been better at understanding the financing options available to develop their business.
- Over 70% of respondents have been in contact with a new connection made during the workshop and for 14% this has led to a specific collaboration.







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Renewable Energy Finance in Southeast Asia: 2019

2 day workshop in Yangon in February 2019

Peer-to-peer learning

- share best practices and work together on capacity-building, acting as mentors to each other
- thematic roundtable discussions in breakout groups

Advanced financial training

- led by expert coaches
- answer the needs of the entrepreneurs: e.g. financing options for end-users, cost/benefit analysis of different financing options, investment process from impact fund perspective

Online visualization of mapping

Including resources such as overview of financial tools, case studies, glossary, training materials



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Thank you

Access the report:

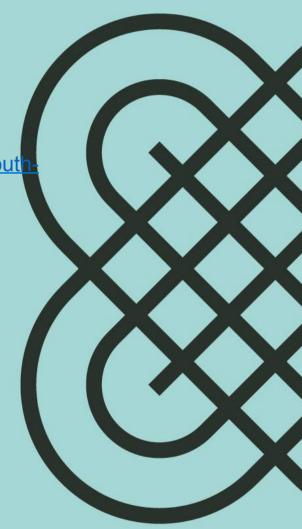
www.nexusfordevelopment.org/financing-renewable-energy-in-southeast-asia/

Want to be invited to the 2019 Yangon workshop?

Email me at_z.depooter@nexusfordevelopment.org

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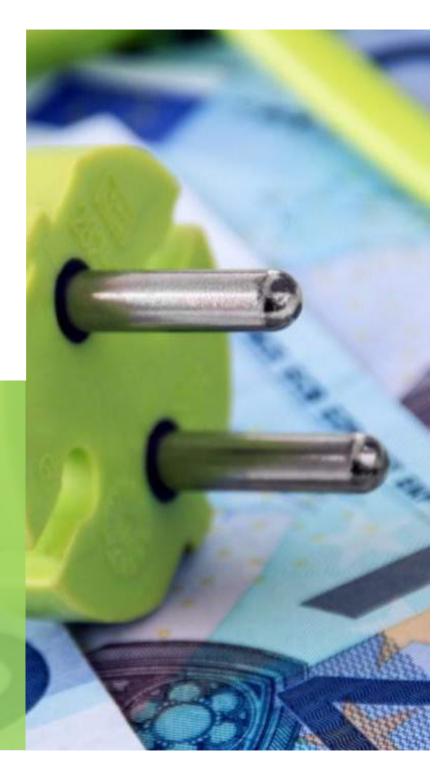


WISIONS Webinar

Alternative Financing Ideas for Small-scale Renewable Energy

Crowdfunding

November 2018



The Status Quo Energy Poverty and Climate Change

Take a look around you. Is there anything we can do without electricity? Be it lighting, education, healthcare, productive work of almost any kind - everything requires electricity.

1.1 billion people lack access to energy

95% live in Sub-Saharan Africa and Asia More than 50% of the energy we consume is wasted

Global atmospheric CO₂ levels hit **record high**

urces: Energy Access Outlook, IEA (2017); Deneff; The Greenhouse Gas Bulletin; the UN weather agency's annual flagship report.

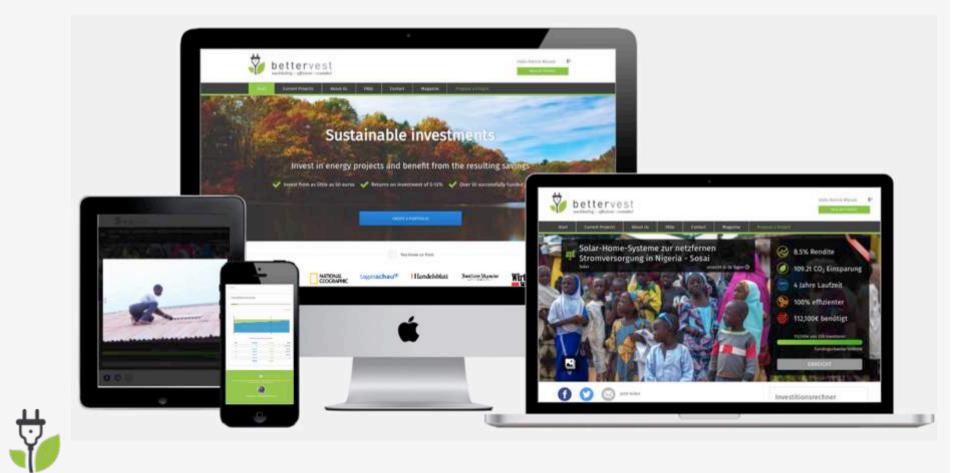
The Problem Financing the Gap

- Lack of capital
- High local interest rates
- Overemphasis on large-scale projects

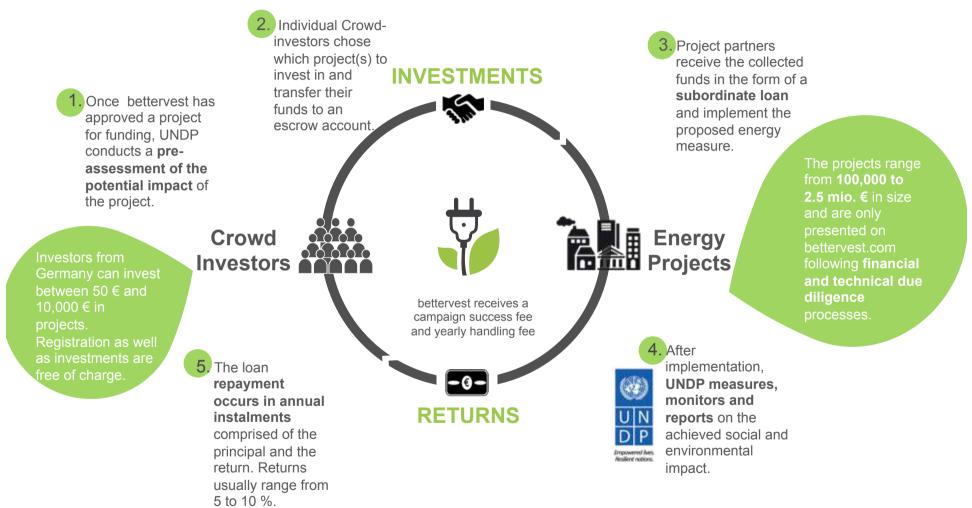


The Solution Power to the people

Crowdfunding the Global Energy Transition

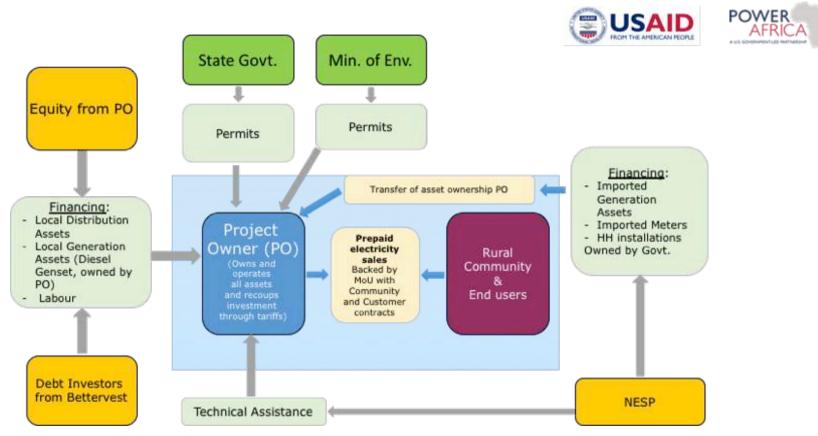


bettervest Business Model How it works



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NESP Cooperation Nigerian Energy Support Programme



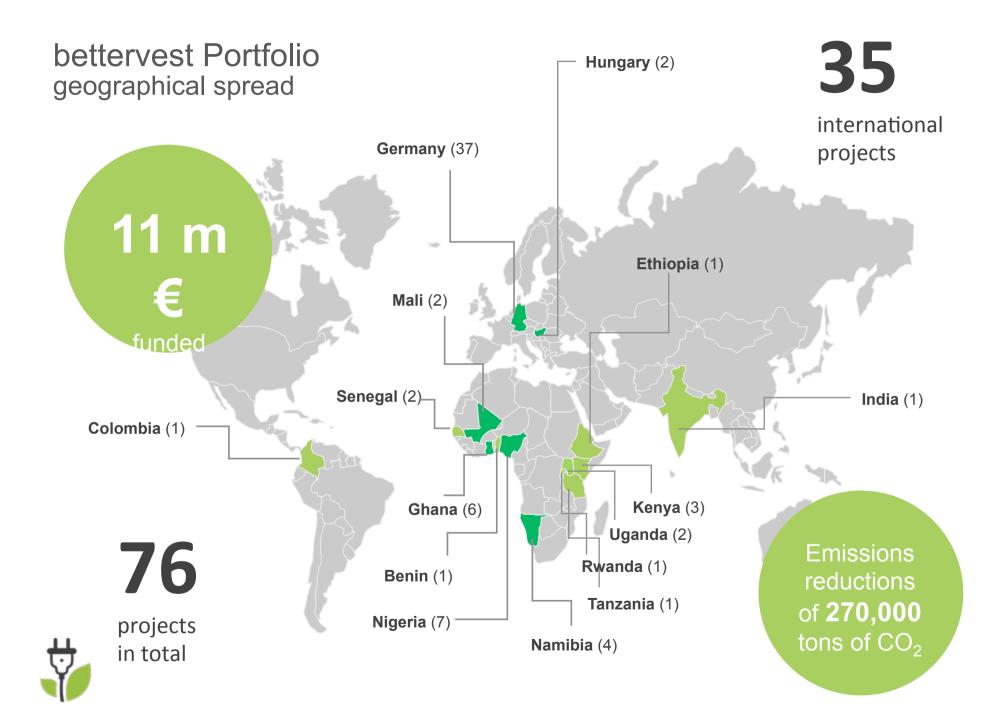
german

European Union

The NESP is a **technical assistance programme**, promoting investments in RE, EE and rural electrification. It is...

- Co-funded by the EU and the German government
- Jointly implemented by Nigerian Federal Ministry (FMPWH) and GIZ
- Supported by REEEP, funded by USAID and implemented by Winrock International







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Horizon 2020 European Union Funding for Research & Innovation



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Alternative Financing Ideas for Small-scale Renewable Energy

Badri Nath Baral Director – REPSO 15 November, 2018



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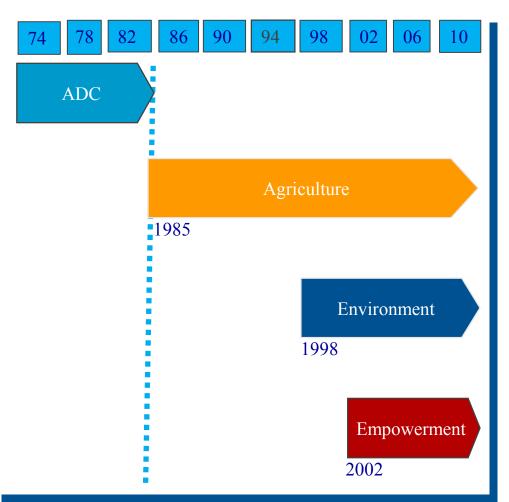
Winrock in Nepal

- ADC Scholars in Nepal: 61 Masters, 5 PhDs
- Agriculture:

Livestock Development; Ag Policy; Farmer to Farmer; Specialty Products; Smallholder Irrigation....

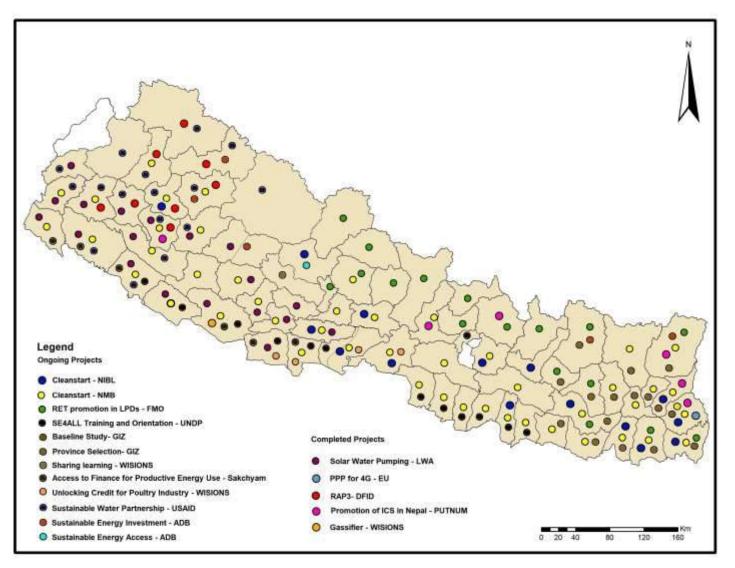
- Environment: Community Forestry; Renewable and Rural Energy; Electric Vehicles
- Empowerment:

Civil Society & Women in Democracy, CIRCLE, Education for Income Generation





Winrock's Presence in Nepal





Network and Partnerships



Donors

- USAID
- DFID
- European Union
- Ford Foundation
- ADB, WB, IFC
- UNDP/UNCDF
- FMO
- Wisions
- ✤ GIZ
- Putnam
 Foundation &
 more



BFIs

- Commercial A class banks
- D Class-MFIs Banks
- 500+
 cooperatives



Private Sectors

- Manufacturers
- Suppliers
- Investors
- Service providers
- ✤ MSMEs
- FNCCI/Industr ies

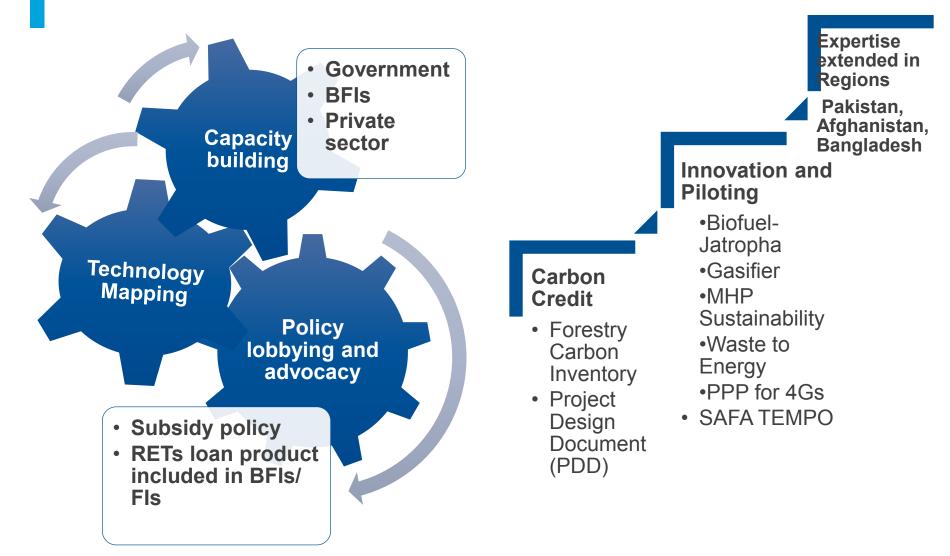


GoN

- ✤ MoEP
- ✤ MOE
- ✤ MOFSC
- ✤ MOFALD
- ✤ MOWCSE
- ✤ MOF
- ✤ Line
 - Department
- ✤ AEPC,
 - MUAN, DoFSC



Approach and Scope





Fundamentals of Energy Financing

- Enhancing Affordability
- Ensuring Sustainability and Scaleup
- Ensuring Partnership for Ownership
- Wholesale Lending
 - Loan from Large Commercial Banks to LFI/MFI
- Retail Financing Models
 - Direct Credit to Consumers/Entrepreneurs
 - Rent to Own / Lease to Own / Pay as you Go
 - SPV Model
 - Pay for Service



Few Examples



Youngster from Jhapa, Mr. Khadka almost heading to Middle East for livelihood earning, come across energy and enterprise financing program, started with mere NPR 10,000 MF loan and now turned himself with successful poultry farming earning more than NPR 500,000 and giving employment to 5 people



Poorly educated, disadvantage community 26 HHs from Teai (Plain) in Sunsari, just 3 km away from major highway and National TL, were in Dark until Sahar MF educated them, included as members and provided MF loan for small (20 Wp) solar home systems. Otherwise had to travel 1 km and pay NPR 10 per mobile charge. Solar loan was entry point. They are turning into entrepreneurs now.



Pratima Bajgain from Jhapa was able to irrigate her land for off seasonal vegetable farming at commercial scale once the affordable solar pumping for irrigation solution was structured through financing of the system by one of the local financial institution with repayment of loan in 24 installments

Few Examples



Ms. Budhini Chaudhary of Chitwan was able to replace diesel pump set for fish farming with 750Wp solar water pump. This was able to save monthly operating cost by NPR 8,500.00 The upfront installation cost of solar pumps were brought down by Lease to Own model promoted by Sun Farmer (Local private company promoting solar pumps) with EMI of approx. NPR 4,000.00

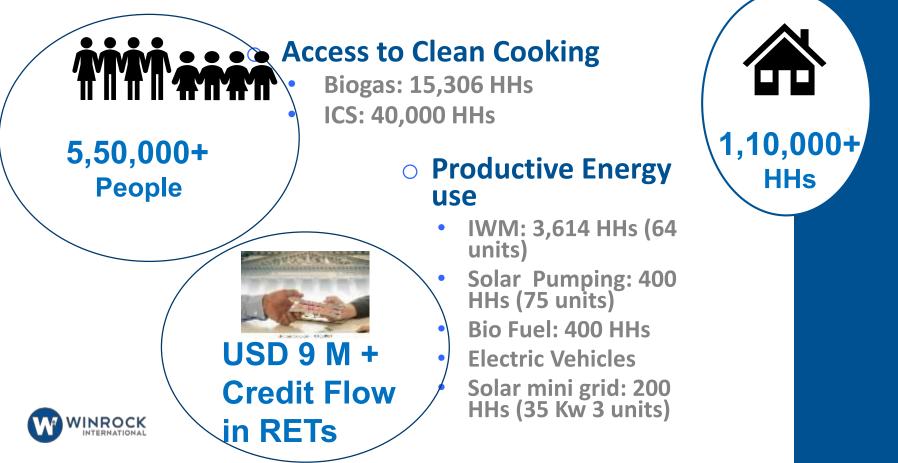


Gham Power Pvt. Ltd and HHs created a SPV for installation and operation of the Solar Minigrid System in Okaldhunga/Khotang. SPV arranged the funding mix (Grant, Loan, and Equity) Gham Power took the responsibility for the installation and O & M of the system. Community took the responsibility to fee collection and O & M service fee payment.

Energy Access

Access to Electricity

- SHS: 47,720 HHs
- MHP: 3,490 HHs (232 kW)
- Rural Electrification: 2,700 HHs



THANK YOU

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