



**HPNET**  
HYDRO EMPOWERMENT NETWORK

**MINI-GRID SUSTAINABILITY  
TRANSITIONING TO  
SOCIAL ENTERPRISE FOR ENERGY  
AND ECONOMIC DEVELOPMENT**

*MINI GRIDS WEBINAR SERIES 2019*

**WEBINAR 3**

17 SEPTEMBER 2019

# MINI-GRID WEBINAR SERIES 2019

WEBINAR 1

**MINI-GRID RELIABILITY: THE ROLE OF TRAINING CENTERS FOR MICRO/MINI HYDROPOWER**  
*MARCH 2019*

WEBINAR 2

**MINI-GRID FINANCING: ENABLING THE ROLE OF LOCAL BANKS**  
*JUNE 2019*

WEBINAR 3

**MINI-GRID SUSTAINABILITY: TRANSITIONING TO SOCIAL ENTERPRISE FOR  
ENERGY AND ECONOMIC DEVELOPMENT (SEED)**  
*SEPTEMBER 2019*

WEBINAR 4

**MINI-GRID PLANNING: DATA MAPPING TOOLS FOR MULTI-ACTORS**  
*DECEMBER 2019*

# PARTNERS



## HYDRO EMPOWERMENT NETWORK

South-South knowledge exchange and advocacy platform to advance policy, technology, and socio-environmental aspects of small-scale hydro.



[www.wisions.net](http://www.wisions.net)

## WISIONS OF SUSTAINABILITY

Wisions promote the transition to sustainable energy systems in the global South.



## ENERGYEDIA

Wiki platform for collaborative knowledge exchange on renewable energy, energy access, and energy efficiency topics in developing countries

# PARTNERS



[www.wisions.net](http://www.wisions.net)

**WISIONS promotes the transition to sustainable energy systems in the global South. Its mission is to empower individuals and communities to transform the production and use of energy so that it effectively enables sustainable development.**

The initiative is run by the Wuppertal Institute, a German think tank, and has been supported by the Swiss-based foundation ProEvolution since its inception in 2004.

In addition to supporting HPNET, WISIONS has supported a multitude of pico and micro hydro projects and knowledge exchanges.

**More info here: <http://wisions.net/pages/seps-energy-projects>**

# PARTNERS



[www.energypedia.info](http://www.energypedia.info)

EnergyPedia UG is a non-profit organization that runs and maintains the wiki-based platform, [www.energypedia.info](http://www.energypedia.info).

**It is an online platform for collaborative knowledge exchange on renewable energy, energy efficiency and energy access in the context of development cooperation.**

You can access the following resources, developed in collaboration with HPNET, pertaining to small-scale hydropower:

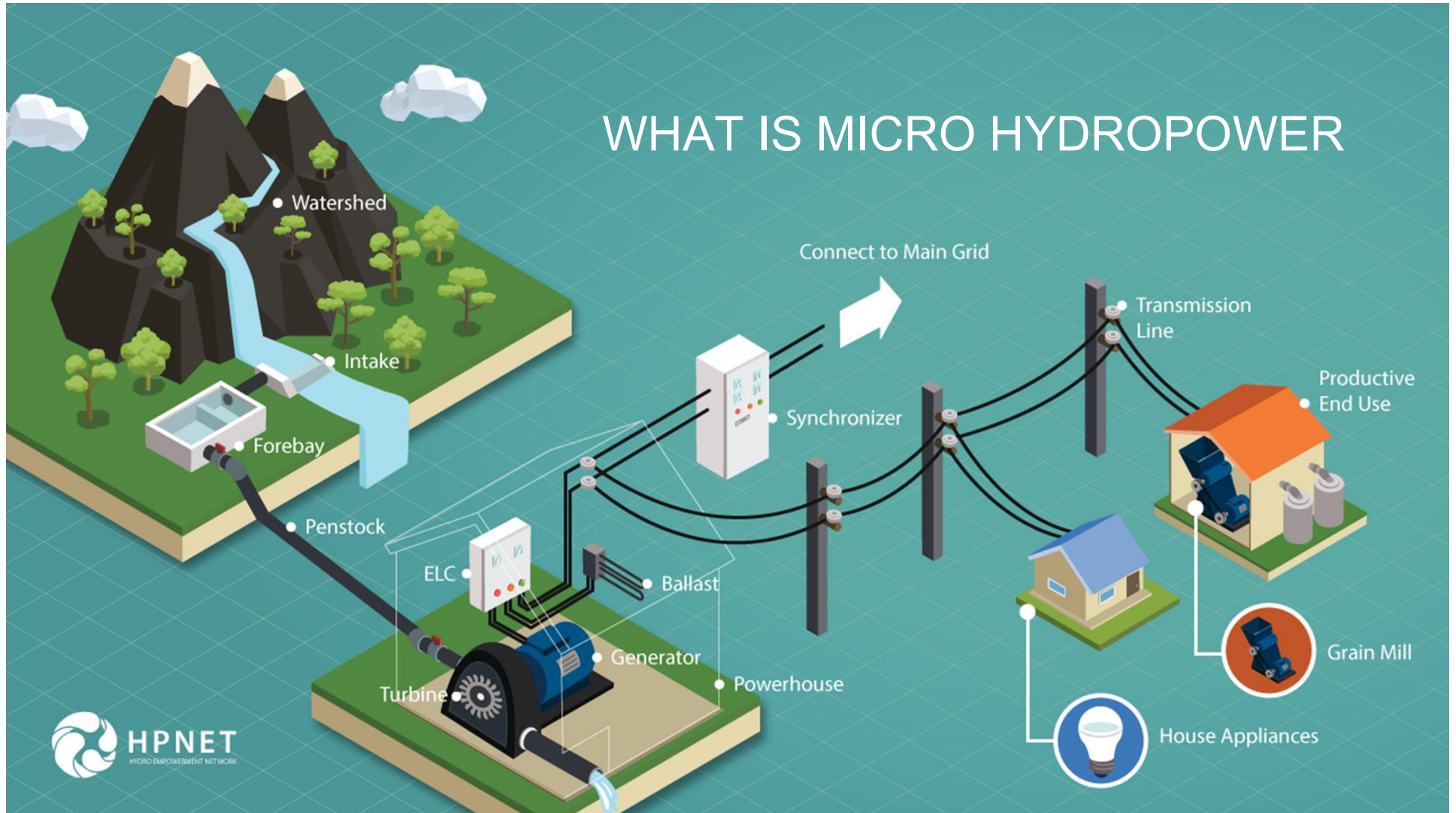
[Micro/Mini Hydropower Library \(MHL\)](#) – A collaborative, searchable repository of publications and multimedia on micro/mini hydropower for energy access around the globe.

[Mini-grid Webinar Series 2017](#) – Prequel to this webinar series, the 2017 series featured mini-grid **technology differentiation, grid-interconnection, and productive end use.**

[Hydro Portal on energypedia](#) – A gateway to all hydropower information on energypedia.

# Short Poll #1

# WHAT IS MICRO HYDROPOWER



# ROLES OF HPNET



## KNOWLEDGE EXCHANGE

Capacity building events (online and in-person)  
Knowledge exchange tools for multi-actors  
South-South and peer-to-peer exchange



## STRATEGY ADVOCACY

Platform for local practitioner voices  
Multi-stakeholder facilitation  
Data and mapping to quantify impact



## THEMATIC FOCUS AREAS

Technology and skills advancement  
Socio-environmental sustainability  
Enabling financing and policy for scalability





# SEED

Social Enterprise for Energy and Economic Development



# SEED

Social Enterprise for Energy and  
Economic Development



Hydro Mini-Grid  
Sustainability

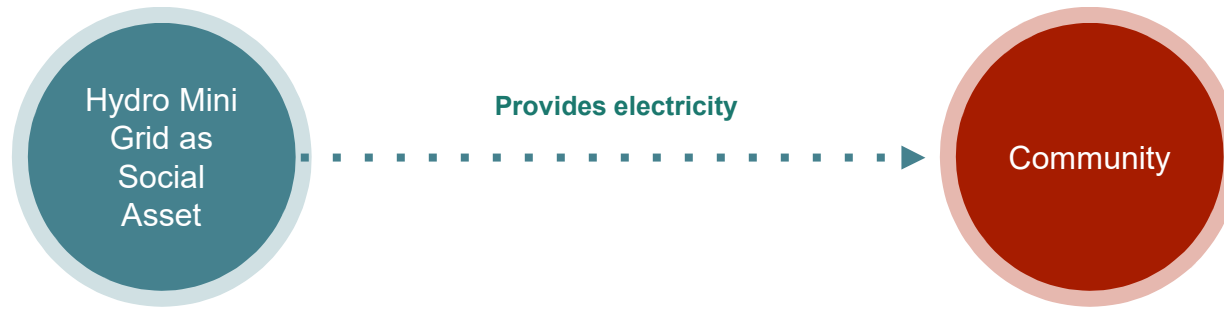


Hydro Mini-Grid Social-  
Economic Impact



Empowerment  
Beyond Kilowatts

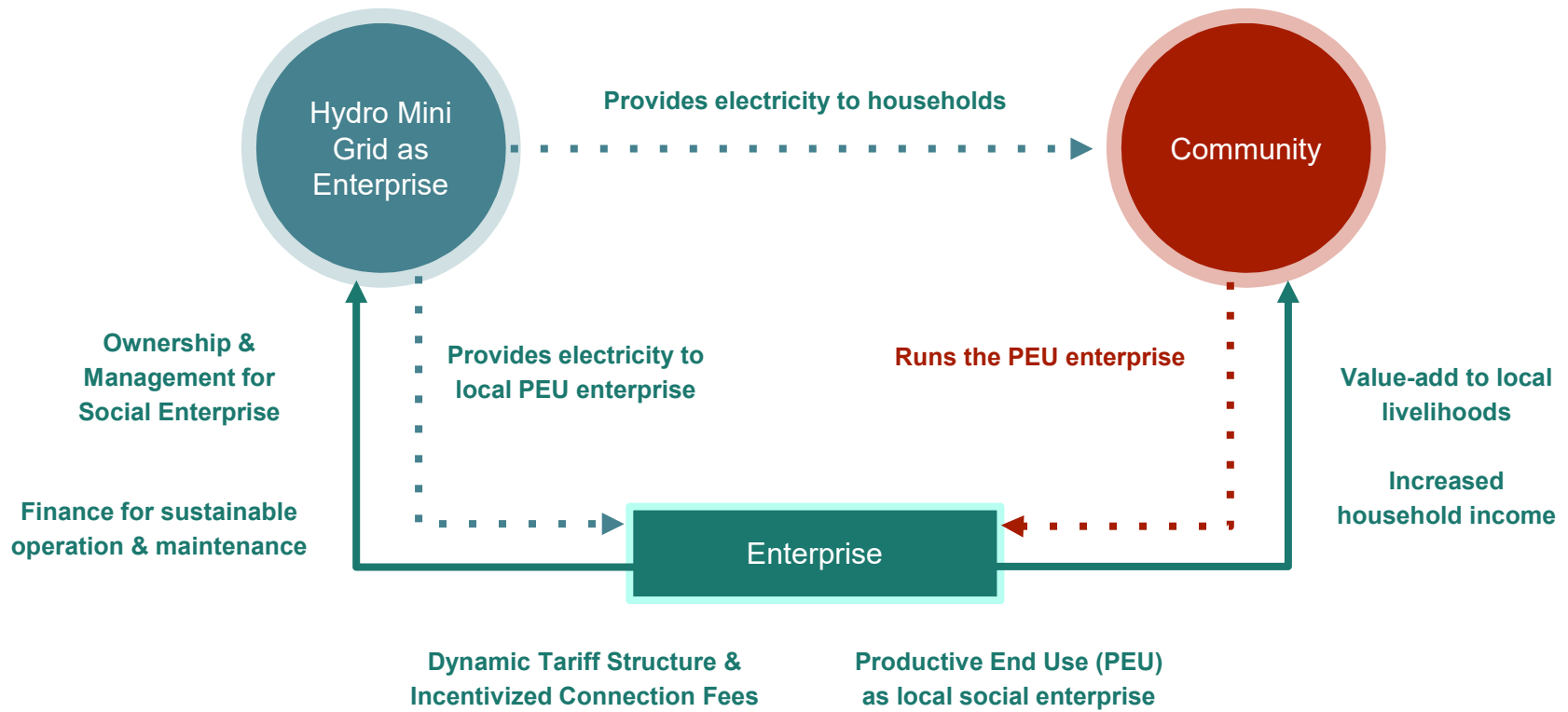
## How SEED Works



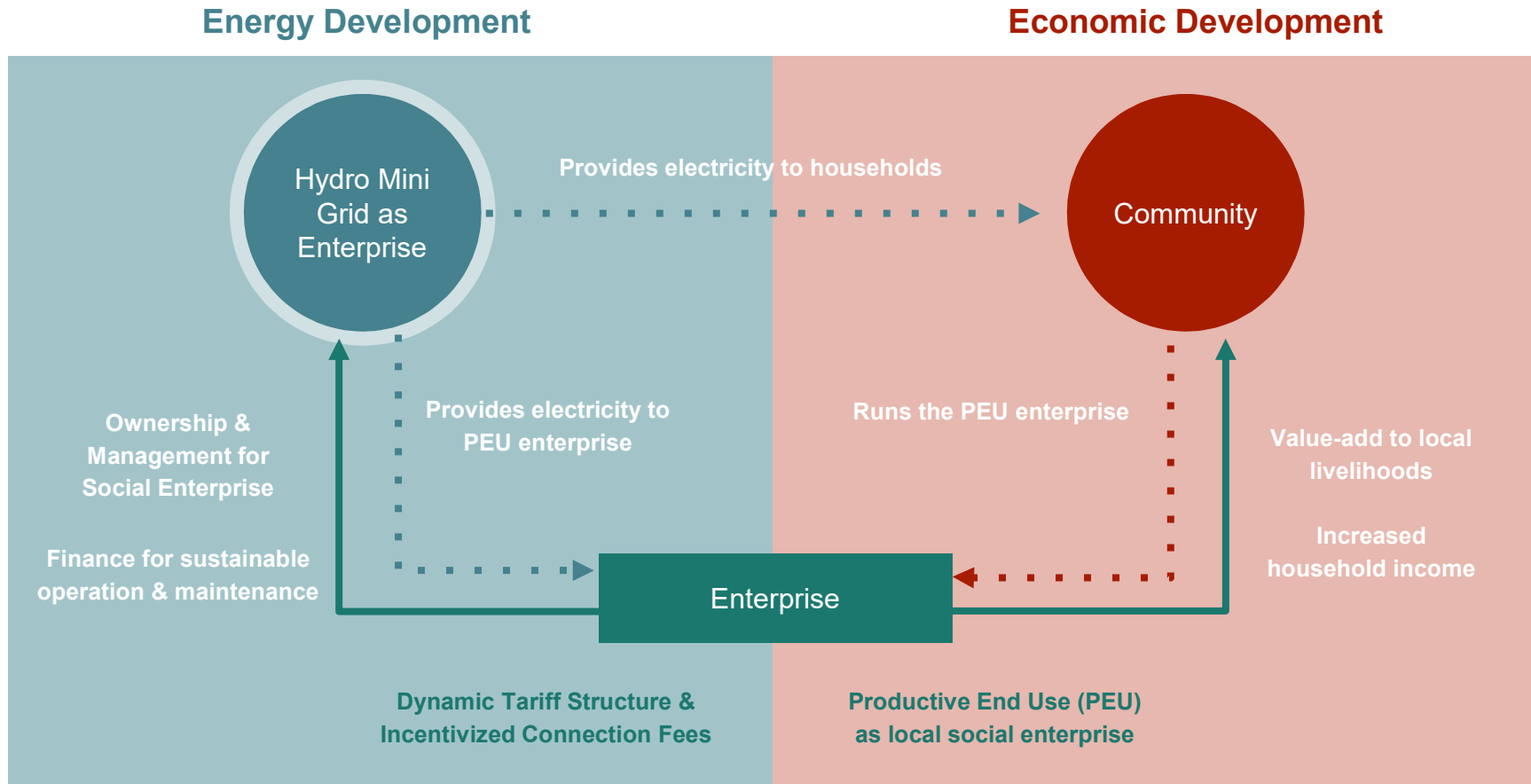
### Social Asset Only:

- Operates only few hours per day (i.e. evening only)
- Low power factors / no productive end use loads
- Irregular tariff collection / No energy meters
- Minimum cash flow
- Not enough funds for maintenance and repair
- Weak management

## How SEED Works

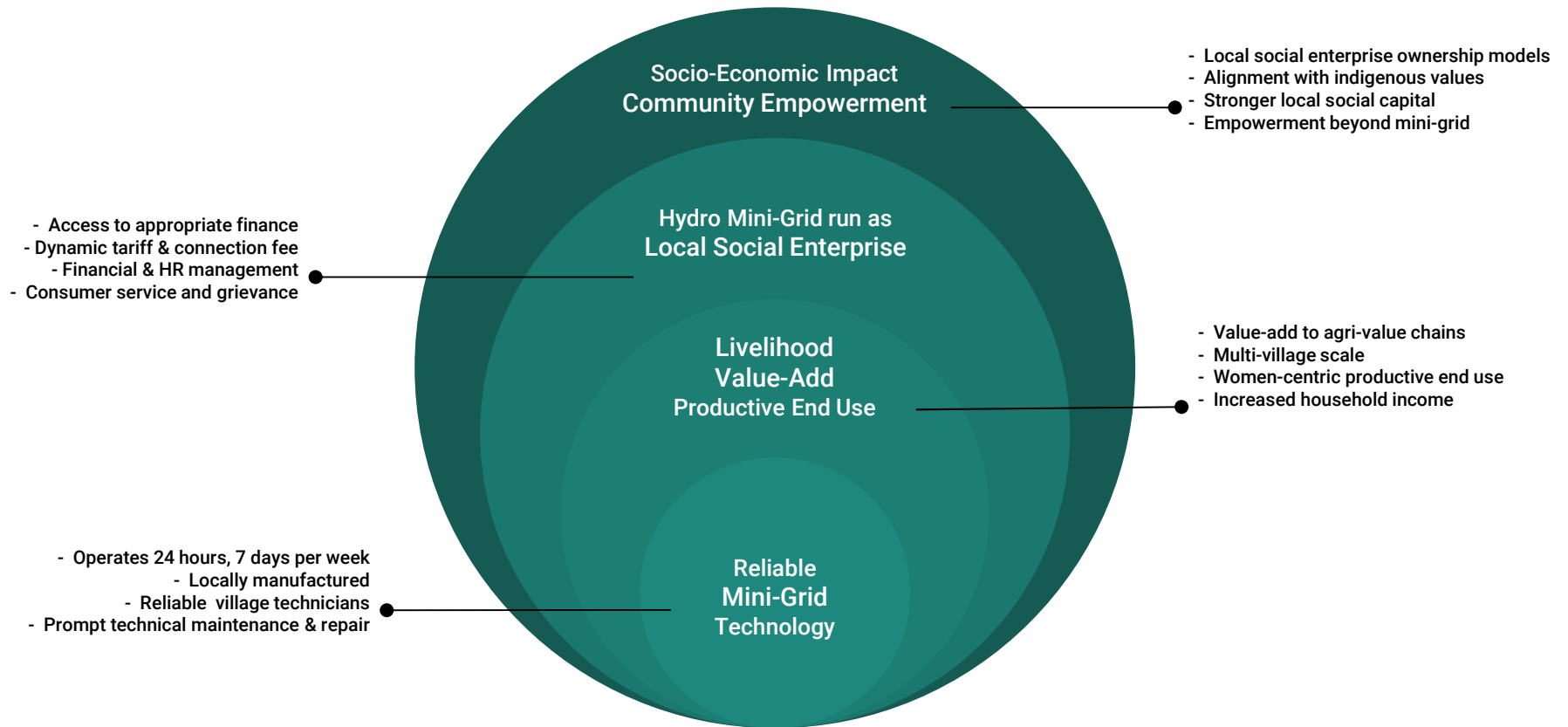


## How SEED Works



## Required Elements for SEED

Based on HPNET members experiences



## Knowledge Exchange for Impact

HPNET approach to knowledge exchange

### Collate Best Practices

Identify experienced practitioners and best practices to longer-lived and high impact mini-grids anchored in social enterprise.

### Strategize & Advocate

Support local practitioners to identify and establish partnerships to carry forward their transition to SEED hydro mini-grids.



### Groundtruth

Facilitate local practitioners to examine their potential to transition to local social enterprise, e.g. social capital and value-adding end uses.

### Exchange

Coordinate dialogue -- among south-south practitioners and among local stakeholders -- to design transition to SEED hydro mini-grids.

Short Poll  
#2



# SPEAKER 1

**RESHA PIYA**  
WINROCK INTERNATIONAL



**RESHA PIYA** is a Program Specialist at Winrock International, based in Nepal. She has more than 18 years' experience in promoting and developing Renewable Energy sectors. She has extensive experience in the planning, design, implementation and providing technical backstopping, coordination, monitoring and the evaluation of various renewable and rural energy projects and water projects involving solar home systems, institutional solar home system, solar water pumping systems, mini/micro hydro power, biomass technologies and on the productive use of energy for enhancing sustainable rural livelihoods, economic growth and poverty reduction. Ms. Piya has worked for Government of Nepal - Alternative Energy Promotion Centre (AEPC) and its programs, Helvetas, Practical Action South Asia Regional office and Asian Development Bank. Ms. Piya is proficient in technical, administrative and managerial function and has a good knowledge and understanding of development issues. She is an Electrical and Electronic Engineer with MSc. in Renewable Energy and Master of Engineering in Energy and Environmental Management.

## SPEAKER 2

**AYU ABDULLAH**  
ENERGY ACTION PARTNERS



**AYU ABDULLAH** is co-founder and Regional Director for Southeast Asia at Energy Action Partners, an international nonprofit organization that focuses on capacity building and community development through collaborative and sustainable energy access programs. Ayu has almost a decade of experience working as a researcher and practitioner in sustainable energy and community development. She was previously at the Masdar Institute of Science and Technology in Abu Dhabi working on energy access, energy transition, sustainable energy policy and sustainable development. She has Bachelor's and Master's degrees in Aerospace Engineering from Purdue University, and a Master's in Engineering Systems and Management from the Masdar Institute of Science and Technology.

## SPEAKER 3

**ISKANDAR KUNTOADJI**  
IBEKA - PEOPLE CENTERED  
BUSINESS AND ECONOMIC INSTITUTE



**ISKANDAR KUNTOADJI** is the founder of IBEKA, the People Centered Business and Economic Institute, based in Indonesia. A unique pioneer in people-centered development and social entrepreneur, Iskandar founded IBEKA, the recipient of the prestigious Ashden and Ramon Magsaysay Awards for its community micro hydro work in Indonesia. He has led micro hydro missions in Philippines and Rwanda, with the efforts of the Japan International Cooperation Agency (JICA). Now IBEKA is a social business entity with a strong engineering background, using a mixture of appropriate technology and sociology to empower communities and marginal groups in urban area, not only to increase the welfare but also drive the community to be self-reliant and reach the economic freedom stage. Various renewable energy interventions are used as an entry point to organize the local community and nurture further empowerment programs, such as village coop extension, farming extension, house hold enterprise extension, small manufacturer, and local workshop extension. Iskandar also focuses on bringing young urban-based engineers up-to-speed on how their skills can contribute to community development work.

# TRANSITION TO **SEED** – KEY TAKE AWAYS



## **WINROCK IN NEPAL**

- 10 areas of work to change mindset and establish skillsets
- Innovative peer-to-peer process
- Tangible benefits from the process



## **ENACT IN MALAYSIA**

- Importance of community facilitation process
- Mini-Grid Game as a tool for reflection tool
- MHP inspires other enterprise



## **IBEKA IN INDONESIA**

- Mini-grids are indeed more than kW!
- Key elements of social enterprise: Social Capital and Empathy

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*EARLY DECEMBER 2019*



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