



A GoU Programme – **DINU** – funded by the EU

# Call for Concept Notes

## Development Initiative For Northern Uganda (DINU)

Information session

Presented by GIZ Energy – Pro Mini-Grids NU

Implemented by:

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH





# Overview of presentation

1. Key facts of the IP/Delegation Agreement
2. Brief description of Key Actions
3. Implementation modality and approach
4. Progress to date
5. Potential complementarities/synergies with DINU call
6. Suggested useful links/sources of additional information on the Partner intervention

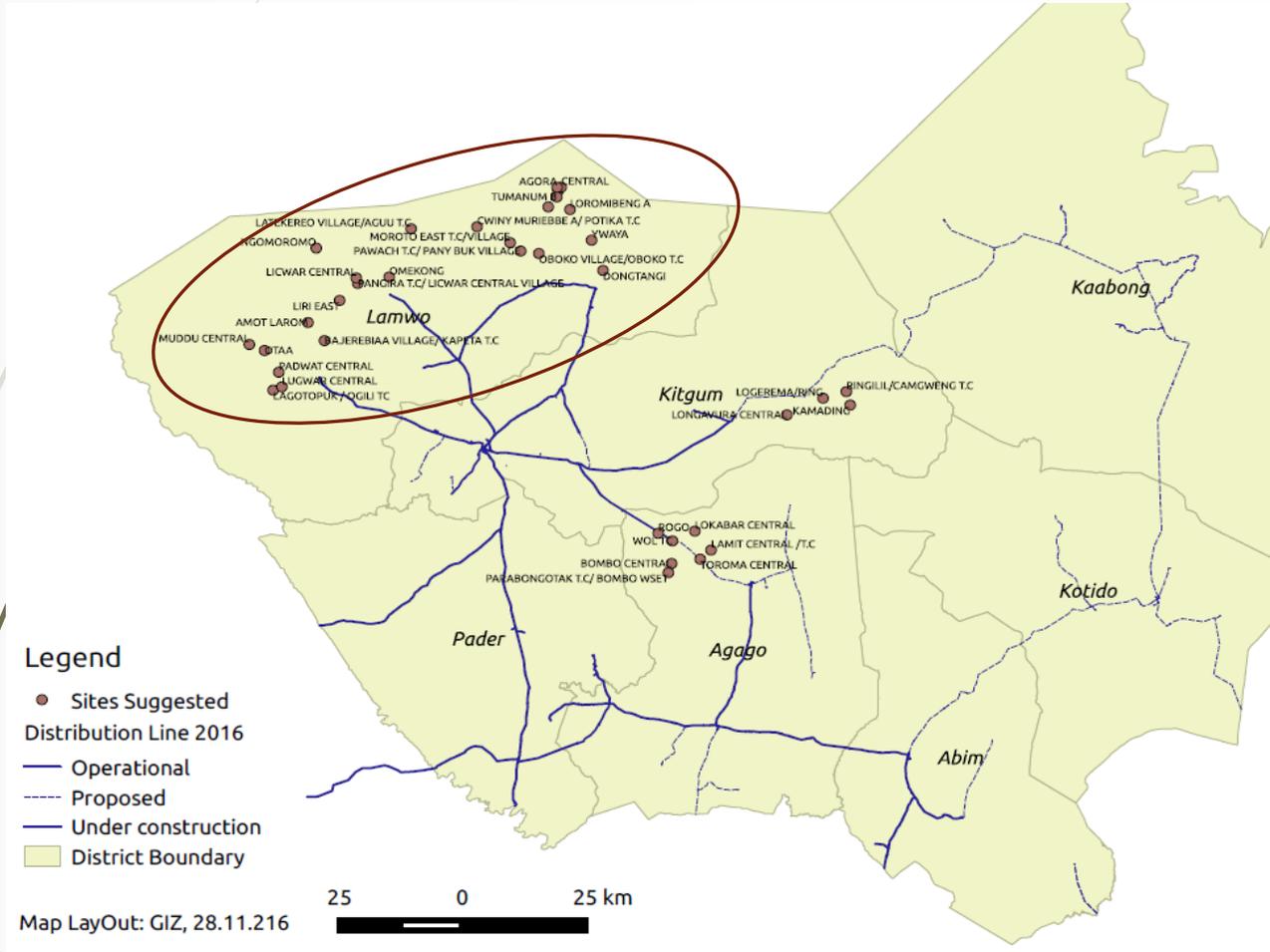


# Key Facts on Delegation Agreement

- **Name of action:** Promotion of Mini-Grids in Northern Uganda (Pro Mini-Grids NU)
- **Contract holder:** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- **Implementing partners:**
  - ❑ Ministry of Energy and Mineral Development (MEMD)
  - ❑ Rural Electrification Agency (REA)
  - ❑ Electricity Regulatory Authority (ERA)
- **Implementation duration:** July 2016 – June 2020
- **Expected beneficiaries/target groups:** Up to 25 villages in Lamwo district.

# Key Facts on Delegation Agreement

## ➤ Areas of Implementation: Lamwo District



NO.	VILLAGE NAME	SUB-COUNTY
1	Agoro (incl. Tumanum B)	Agoro
2	Paloga Central	Paloga
3	Ogili TC	Palabek Ogili
4	Pangira / Licwar Central	Lokung
5	Potika	Agoro
6	Ngomoromo	Lokung
7	Kapeta	Palabek-Kal
8	Apwoyo TC	Agoro
9	Oboko TC	Agoro
10	Loromibeng A + B	Agoro
11	Lelapwot West	Lokung
12	Opoki	Padibe West
13	Pany Buk East and West	Agoro
14	Muddu Central	Palabek-Ogili
15	Moroto East	Agoro
16	Otaa	Palabek-Ogili
17	Ywaya	Agoro
18	Aweno Olwi	Lokung
19	Ayuu Alali	Palabek Kal
20	Logwak	Lokung
21	Lapidiyenyi	Paloga
22	Pawena TC	Palabek Gem
23	Apyetta TC	Palabek Ogili
24	Apyetta West	Palabek Ogili
25	Labayango	Padibe East

# Brief description of the actions

## Outline of key result areas and actions

**Result 1:** Reliable electricity is provided by privately operated mini-grids in up to 25 villages in Northern Uganda.

### Outputs/Activities:

- 25 appropriate villages are selected for mini-grid electrification.
- Tender is published.
- Eligible companies are preselected through EoI, to implement the project.
- Up to 25 solar PV generation and storage systems are installed.
- A participatory planning approach with the community is ensured.



Aerial view of Agoro Subcounty, one of the villages to be electrified. The yellow line shows the proposed electricity grid distribution structure, connecting all building with in reach of the grid.

# Brief description of the actions

## Outline of key result areas and actions

**Result 2:** Productive use of electricity is promoted in order to ensure affordability & improved standards of living through increased incomes and production

### Outputs/Activities:

- ▶ Communities use of electricity increases both living standards and incomes.
- ▶ Equipment such as mills, pumps and irrigation systems are used to improve production.
- ▶ Solar Photovoltaic Technicians trainings.
- ▶ Monitoring of the mini-grid systems.

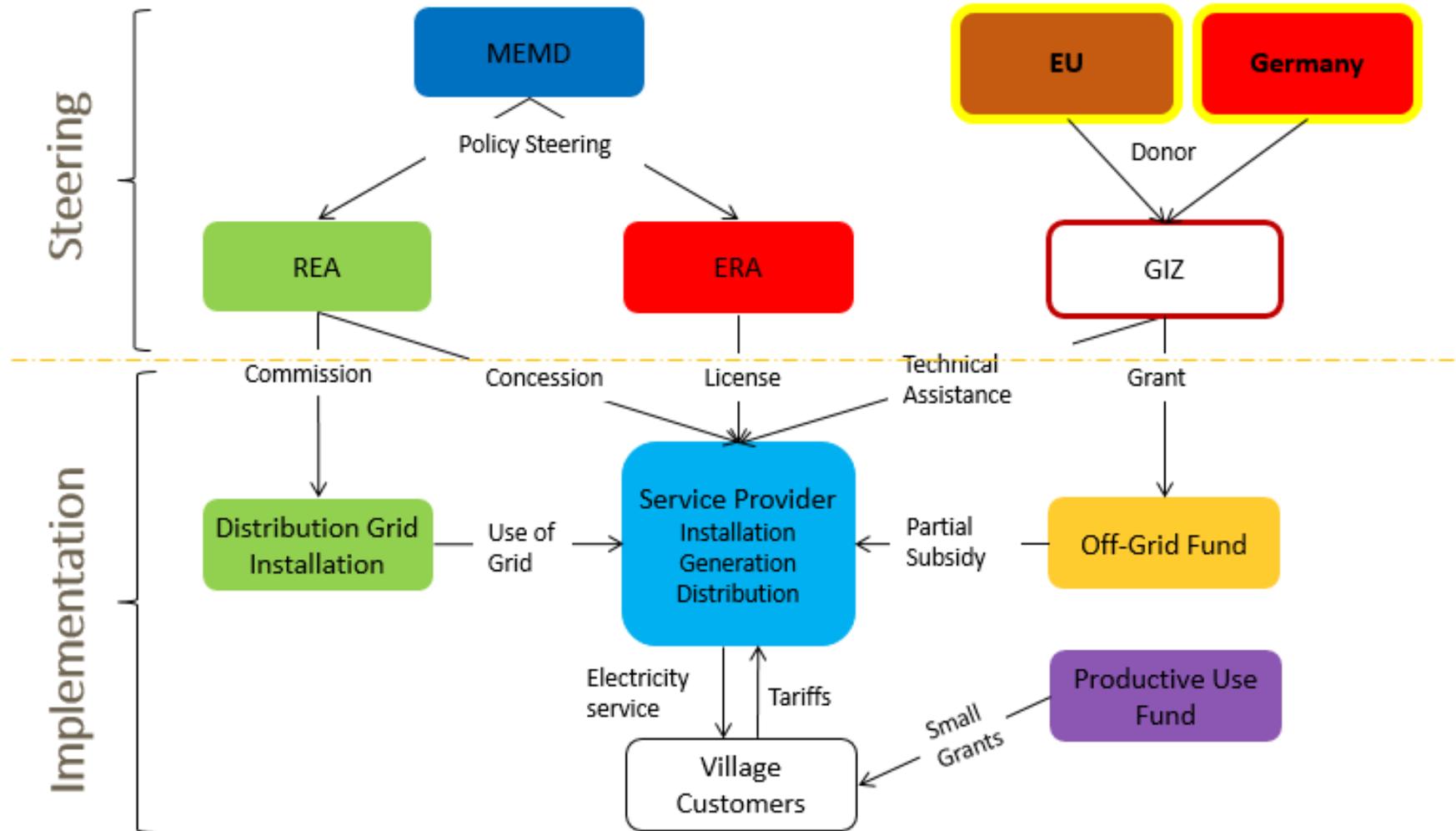


*Grain milling business in one of the villages to be electrified.*



# Implementation modality and approach

## Result 1:





# implementation modality and approach

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Goal



Approach



Activities



Instrument



## Result 2:

Impact of the electrification is maximized by supporting local industry to make use of electricity



Awareness & Sensitization	Business Incubation	Community Business Ventures	Solar Trainings
<p>Energy Awareness Campaigns (Load mgt, EE and safety)</p> <p>PUE mobile demonstrations (demo appliances and solar truck)</p> <p>Customer service orientation</p> <p>M &amp;E system on electricity usage date.</p> <p>Communication on tariff and price incentives.</p> <p><i>Service Contracts</i></p>	<p>Business trainings &amp; startup tool kits.</p> <p>T.A for equipment conversion, selection &amp; purchase, O&amp;M</p> <p>Cost sharing grant for investment in PUE equipment and appliances</p> <p>Financial literacy for rural social lending structures</p> <p><i>Grant Financing Agreements with CSO's, SACCO's &amp; Farmer group</i></p>	<p>PUE for village Institutions (HC's, Sch, public markets and streets)</p> <p>Water for Production (irrigation &amp; domestic use)</p> <p>On farm energy usage (Post-harvest handling, Argo processing, production &amp; storage)</p> <p>Skills &amp; Employment training hubs ( local VTI's &amp; social betterment programs)</p> <p><i>Grant Financing Agreements with CSO's, CBO's &amp; Farmer groups</i></p>	<p>Certified Solar PV Training Curriculums ( SHS &amp; Mini-grids), Implemented with a local VTI.</p> <p>Solar PV Electrician Trainings</p> <p>Solar PV Mobile Trainings</p> <p>Establishment of a Renewable Energy Training Center (RETC)</p> <p><i>MoU's &amp; Financing Agreements with Local VTI's, Trainer of Trainers &amp; Skills Exchange programs</i></p>

Mainstreaming issues: Gender, Health, Education, Agriculture



# Progress to date

- 25 mini-grid sites selected, demand & prefeasibility studies completed.
- Open tender published, EoI and Rfp evaluations completed and final bidder selected.
- All contract and tender documents have been developed and approved.
- On going participatory planning with the districts and communities.
- Ongoing contract negotiations with selected bidder.
- A multi-level Solar PV training curriculum has been developed ( in partnership with NVTI and HWK) and certified by the Directorate of Industrial Training.
- A state of the art Renewable Energy Training center is currently being set up at the Nakawa Vocational Training Institute (NVTI).
- Solar PV Trainer of Trainers and skills exchange programs have been conducted.
- State of the art solar PV lab training equipment and or modules have been procured.
- On going solar PV short course trainings and Mobile trainings.
- PUE village social economic assessments and feasibility studies to be commissioned this month.



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# Potential complementarities/Synergies with DINU Call

DINU components	Activities	Potential synergies
LOT 1: <b>Food production, value chain and land registration for farming</b>	<b>Activity 1.1.1</b> _ facilitate the adoption and production of diverse food crops and animal products	Water for production- Solar water pumping for irrigation and domestic uses in mini-grid villages
	<b>Activity 1.1.3</b> _ train farmer groups and other small market operators along the value chain in community saving and credit schemes	Implementation of a Cost sharing grant scheme for purchase of electric appliances & or equipment through local FO's( I,e mills, water pumps, freezers, etc
LOT 1: <b>Market Accessibility, Market Opportunities, Niches for Agricultural Products; Support to Agri-Business and Value-Chain</b>	<b>Activity 1.2.1</b> -foster linkages between smallholder farmers, agro-processors and market operators:	Productive use of electricity trainings for small holder farmers on value addition i.e. efficient processing, storage, packaging, operation and maintenance of equipment/ machinery. Business incubation trainings for Local 'SME'
	<b>Activity 1.2.4</b> _ Assess and identify market opportunities and product niches along the stages of the value chain and facilitate market exchanges and contractual agreements	Strategic alliances & Contractual agreements with Bulk buyers. (Processors are only interesting if they are willing to set up shop in our villages as anchor clients)



# Suggested useful links/Sources of additional information on the Partner intervention

Documents	Link
DINU Factsheets	To be circulated during the workshop
Additional Information	<a href="#">Pro-Mini-Grids-Factsheet. 2018.pdf</a> <a href="#">Challenges-and-solutions-in-the-ugandan-mini-grid-market/_Case for Pro Mini-grids_Sunconnect New</a> <a href="#">Mini-Grid developers Workshop_Final Report</a> <a href="#">ERA Regulation for Solar PV_Mini-grids.pdf</a> <a href="#">Tender Framework and Procurement Process</a> <a href="#">PPT Project opportunities in Off-Grid Renewable Energy</a> <a href="#">Technical Data</a>
For more Information	Contact Email: <a href="mailto:moses.kakooza@giz.de">moses.kakooza@giz.de</a>