

Suitability and Ecosystem: Micro grids and Individual systems



Overview

- Background
- Suitability Factors and Ecosystem Technical, Operational, Financial, Impact
- Recommendations



Common notions

- 1. Either micro grids or individual systems are better or more suitable than their counterpart
- 2. Micro grids support livelihoods
- 3. Questions around sustainable business models in micro grids



Categorization

Micro Grid (solar PV):

➢ Power system (200W – 10kW) → fed into a small distribution network
➢ Systems catering to up to 100 households.
➢ Usually on a pay per use model

Individual Systems:

Stand-alone systems without a transmission network
Energy for households, institutions and powering equipments
Usually ownership based



Mangalore, Micro grid





Ecosystem factors and Suitability



Technical: Flexibility for End User, Energy efficiency, Scope for Grid Integration



Operational: Skilled resources, Ownership, Collections



Financial: End User and Entrepreneur Financing



Impact: Costs, Livelihoods



Monthly cost for the end user





Costs for the end user (annual)







• Livelihoods:

Existing livelihoods, Energy efficient technology, finance for innovations

• Policy:

- District level planning for Decentralized Energy integration, Combination of models, Skill development
- Financial institutions and Funders:
 - Consideration of Transaction costs, Anchor load technology support, Micro entrepreneurship financing

