



CZECH REPUBLIC
DEVELOPMENT COOPERATION



Demand side capacity building: Biogas User Network (BUN) Development



Background

- **NBP is a joint programme of MAFF and SNV, which aims:**
 - to establish a permanent domestic biodigester sector on a commercial, market oriented basis.
- **Phase I (2006-2012) targeting:**
 - Installation 18,600 digesters by 2012; expectation 21,000 plants
- **Potential for household biogas in Cambodia**
 - 25% of rural population \approx 500,000 households
- **Carbon finance**
 - **GS VERs was issued on 11.11.11!** for the monitoring period of 24 May 2009-31 August 2010 (34,112 tons CO₂)
- **Achievement by Oct 2011:**
 - 14, 314 plants built (70% are loan plants)
 - 43 Biogas Construction Companies
 - 600 skilled masons, 120 technicians, 1000 MFIs staff are involved in the programme.

NBP-PIN cooperation

- **People in Need (PIN) is a Czech INGO with farmer livelihood development expertise.**
- **BUN are developed under the NBP-PIN cooperation agreement with PIN acting as capacity builder, adviser and supervisor for BUN development.**
- **25 Biodigester User Networks (BUNs) will be established in Takeo in 2011.**

Why BUN

2010 Biogas User Survey showed that:

- **Problem with after sale services- provided not on time or inadequate quality**
- **Problem with the accessibility of spare parts**
- **Problem with lacking user's knowledge on plant operation and maintenance**
- **Problem with lacking user's knowledge on the use and management of bioslurry**

The objectives of BUN

To enable biodigester users to:

- have proper plant operation and maintenance,**
- gain full economical benefits from using their biodigesters**
- facilitate the access to the technology for all villagers with biodigester potential.**
- increase the participation and ownership of biogas users in the development of demand and supply-based biodigester sector**

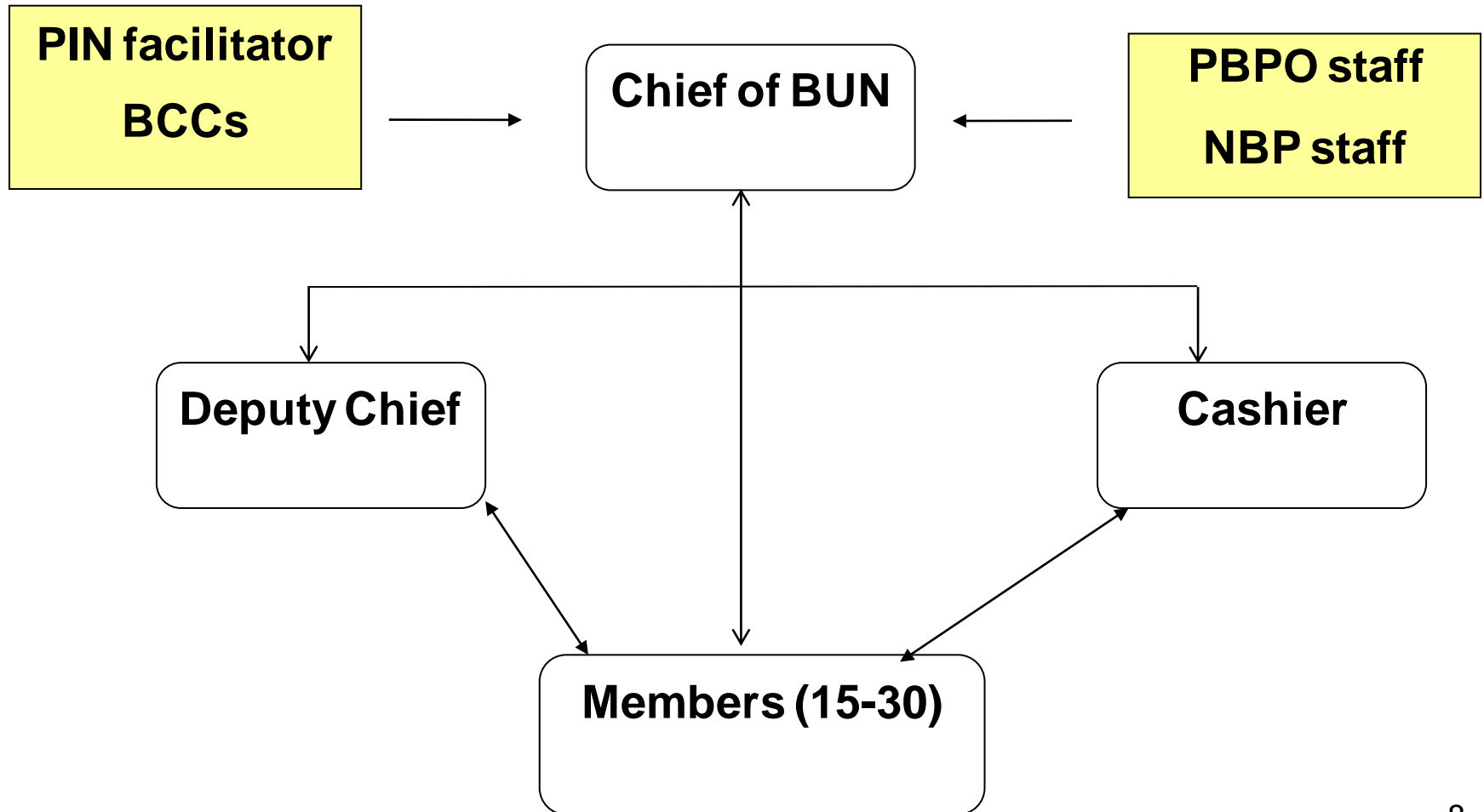
BUN Development

- 1. Start with villages have cluster plants Find out the willingness of biogas users towards BUN (via initial meetings)**
- 2. Explain biogas owners why BUN, its formulation, selection of leaders, cashiers, TOT, spare-part sellers etc. to formulate BUN**
- 3. Dissemination of BUN Operational Manual (via workshop with BUN management teams)**
- 4. Provide Training on plant operation and maintenance, Bio slurry training**
- 5. Facilitate spare parts depots**
- 6. Facilitate peer-to-peer learning**
- 7. Encourage User-driven promotion of biodigesters**

Takeo Map of Pilot BUN establishment



BUN Structure



Achievements so far

- **Operational Manual for BUN was developed (BUN roles, responsibilities, membership criteria, mandate of BUN members, BUN activities, financing of BUN and their sustainability etc.)**
- **17 BUN were established with over 500 biogas owners joining the networks.**
- **7 Spare- part depots were established**
- **10 biogas user were identified as TOT on plant user training**
- **5 Biogas users were identified as TOT on Bio Slurry Extension**

Way forwards

- **Capacity building for BUN**
- **Mentoring BUN activities**
- **BUN functioning and financing**
 - **Initial start-up capital**
 - **Membership fee**
 - **Income from organization of trainings**
 - **Income from a payment for establishment of a model farm**
 - **Promotion fees**
- **75 BUNs will be established in 2 more provinces in 2012**
- **500 BUNs by 2016.**

BUN leaders and cashiers attending workshop on 'Participatory development and dissemination of BUN Operational Manual'



BUN Leaders received safety box and start up capital from PIN



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Workshop on Dissemination of Operational Manual for
Biodigester Users Network (BUN)
Taken Province October 2011

Thank you