















Vermi Composting Research & Demonstration at Horticulture Centre













financial support from municipalities for scaling up

Central Compost Plant with PSP

- Proposals called and MOU signed with private party twice but the process has not moved any further
- Advantage
 - Reduction in environmental impacts of landfilling
 - Reduction in cost of landfilling
 - Private sector investment could reduce investment requirement and risk to government

 - CKV estimated investment cost to be Rs. 220 M; private sector proposal in 2000: Rs. 100 M
 - Possible for Carbon financing
 - Increase life of landfill
 - Low lead time required
- Disadvantage or Risk
 - Need land for compost plant Need to find private party



Marketing of Compost



- Potentially a large market, but marketing is a major challenge Need an effective marketing
- strategy for different segments Product: quality, packaging, branding
- Price: Current price: Rs. 10-15/kg
- Place: A good distribution network is often missing
- Promotion: Targeted campaigns for brand awareness & sale promotion
- Although some efforts have been made to market compost in Nepal, it is often the most neglected part of composting projects ENPH











Household biogas in urban areas is feasible but price is a bit high (Rs. 30.000 for ARTI model)

Legal, Policy & Institutional Framework

- Central National SWM Policy, 1996 is not being implemented
- SWMRMC's role is not yet clear
- A new SWM Act is in the process of being formed Good system for promoting dung based biogas plants, but nothing for municipal waste based biogas
- Agricultural Policy, 2061 promotes organic agriculture but no standards

Municipalities

- Often too busy in crisis management
- Limited resources, especially in smaller municipalities Some good initiatives
- Lack of political leadership decision making and coordination difficult

Private Sector & NGOs

Providing waste collection services to about 50% of households in KTM

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- Some are involved in recycling and public education Need coordination and support from municipalities
- Potential for expanding their roles is very high
- ENPHO

Conclusions

- Need to consider waste as a resource, particularly organic waste
- Some successful pilot projects on composting and biogas but there is a need to address challenges such as operation & maintenance, sustainability and scaling up of these technologies
- Waste separation at source needs to be implemented
- Household based composting & biogas can be scaled up with increased awareness, technical assistance and incentives
- Community based composting is possible where land is available, but marketing and sustainability needs to be ensured
- Biogas could be appropriate for vegetable market or food waste
- Need to strengthen local governments .
- Partnership with private sector and local communities is important

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