

# Domestic Biogas: Capturing the Market

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## **Overview**

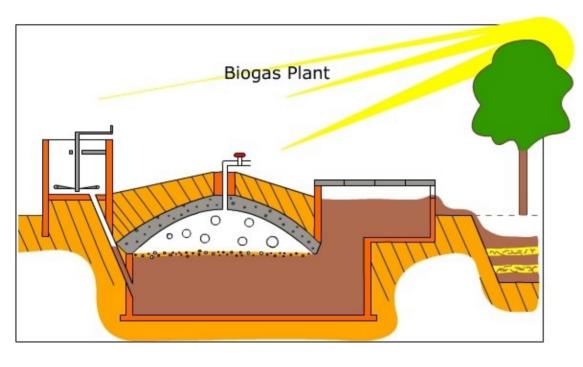




- About biogas
- Benefits
- The Nepal experience
- Policies for success
- Potential in Asia

## The technology





#### **Specifications:**

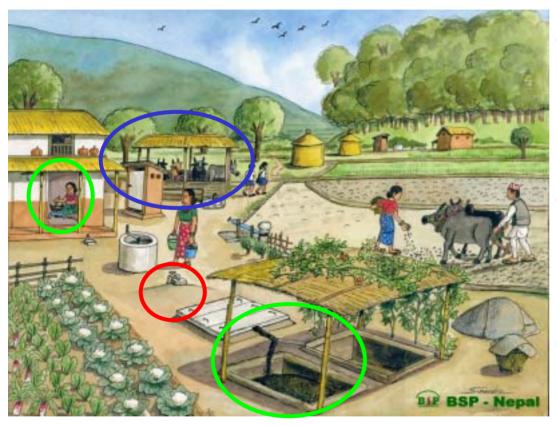
- •Family use,
- •> 2 cattle / 7 pigs
- •Cost Euro 200-300.
- •Life > 15 years.

#### Used for:

- Cooking
- Lighting

## **How does it work**





#### Input:

Organic material (animal dung & night soil)

#### • Process:

Anaerobic fermentation

#### • Output:

Biogas + Slurry

### **Benefits**

- Energy
- Environment
- Health
- Agriculture



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- Riedaring plestore stairpall ution
- Russbandy Sakts emissions
  - Kerosene

# 



#### MDG/WSSD goals:

Eradicate extreme poverty and hunger

Promote gender equality, women's empowerment

Combat HIV/AIDS, malaria, other diseases

Ensure environmental sustainability

#### Biogas...

provides cooking energy; increases agricultural yields

reduces workload for women and children

reduces indoor air pollution; improves sanitation

reduces consumption of firewood, GHG emissions

# **Biogas Sector Partnership Nepal**

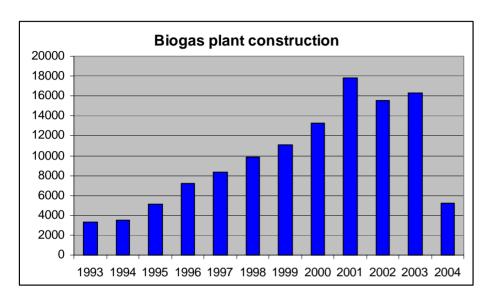




ISO 9001-2000

- Independent Nepali NGO
- •Implementation > 1992
- Advisory support: SNV
- •Funding by:
  - •DGIS the Netherlands
  - •KfW & BMZ Germany
  - •HMG Nepal

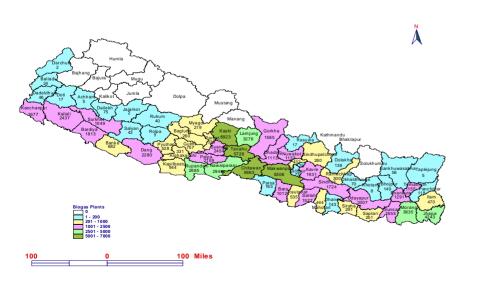
### **Achievements**





- •115,000 plants
- •95% in operation

Biogas Plants constructed under BSP



44 private companies

15 applicance workshops

80 MFIs (credit)

36 NGOs (promotion)

## **Policies for success**



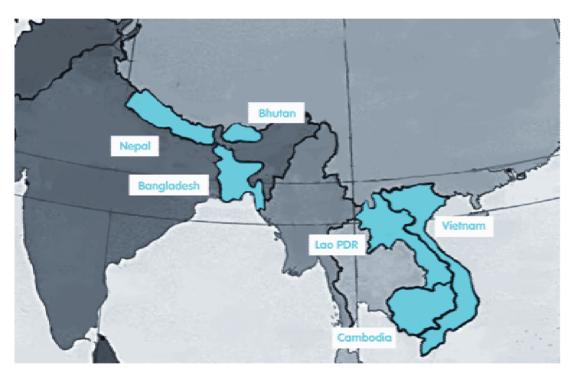
- Policy commitment by Nepali Government
- Focus on dissemination
- •Put quality first!
- Investment support
- Long term support

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## Regional scope

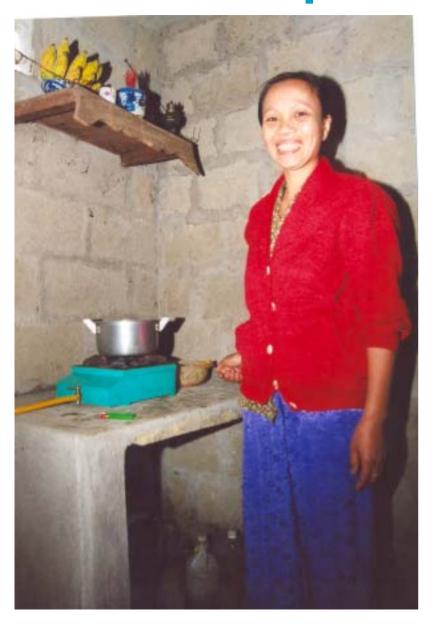




- •260 million people
- •35% below poverty line
- •low HDI
- declining natural resources
- large agricultural sector

## **Estimated potential**





## **Ten million**

domestic biogas plants:

- reach ~ 50 million rural people
- 3,500 MW<sub>eff</sub> installed
- reduce 42 million T CO<sub>2</sub>eq
  / year

## Conclusion





#### Partnership!

- •R & D
- Finance
- Advocacy
- Implementation
- Knowledge transfer

## Thank you for your attention



# Any questions?

Visit us at our stand opposite the press room for further information



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