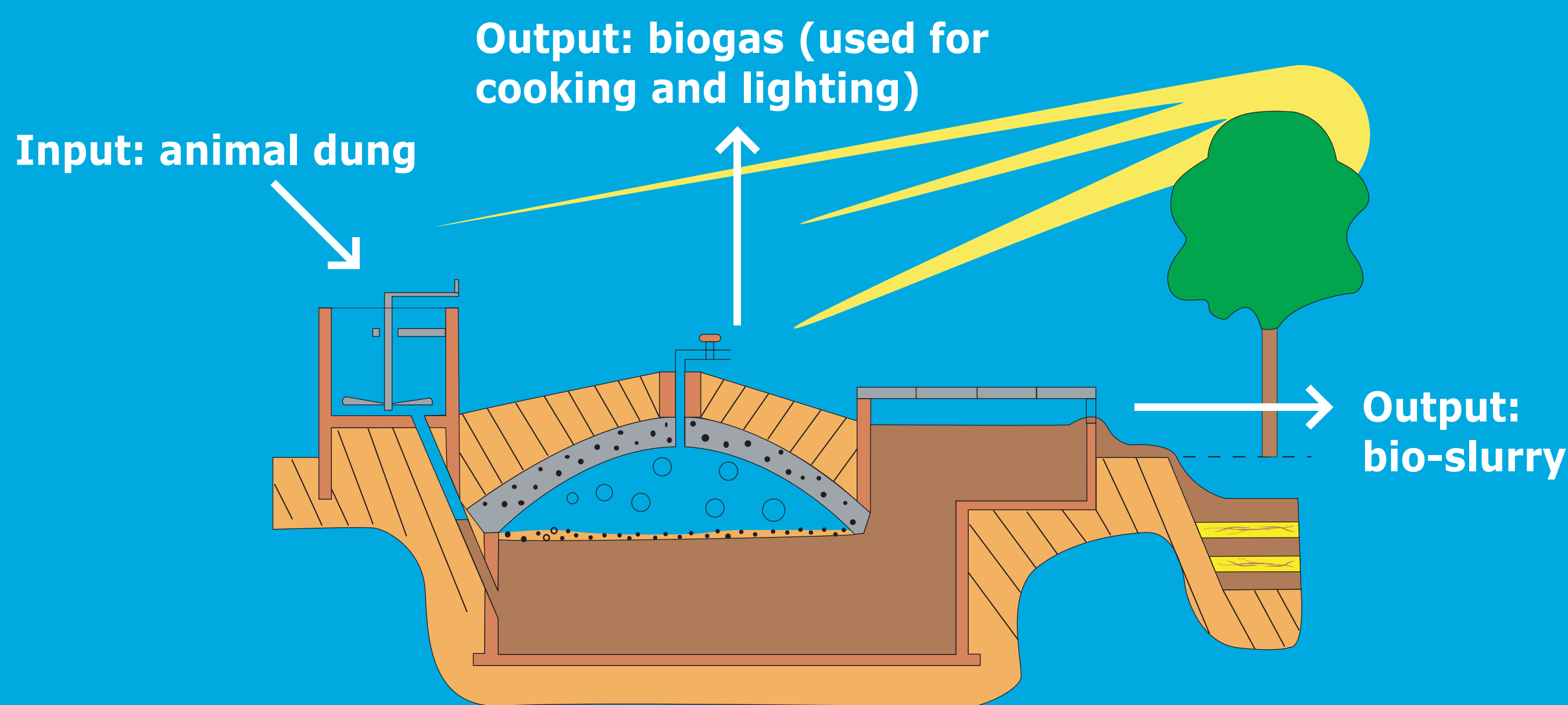


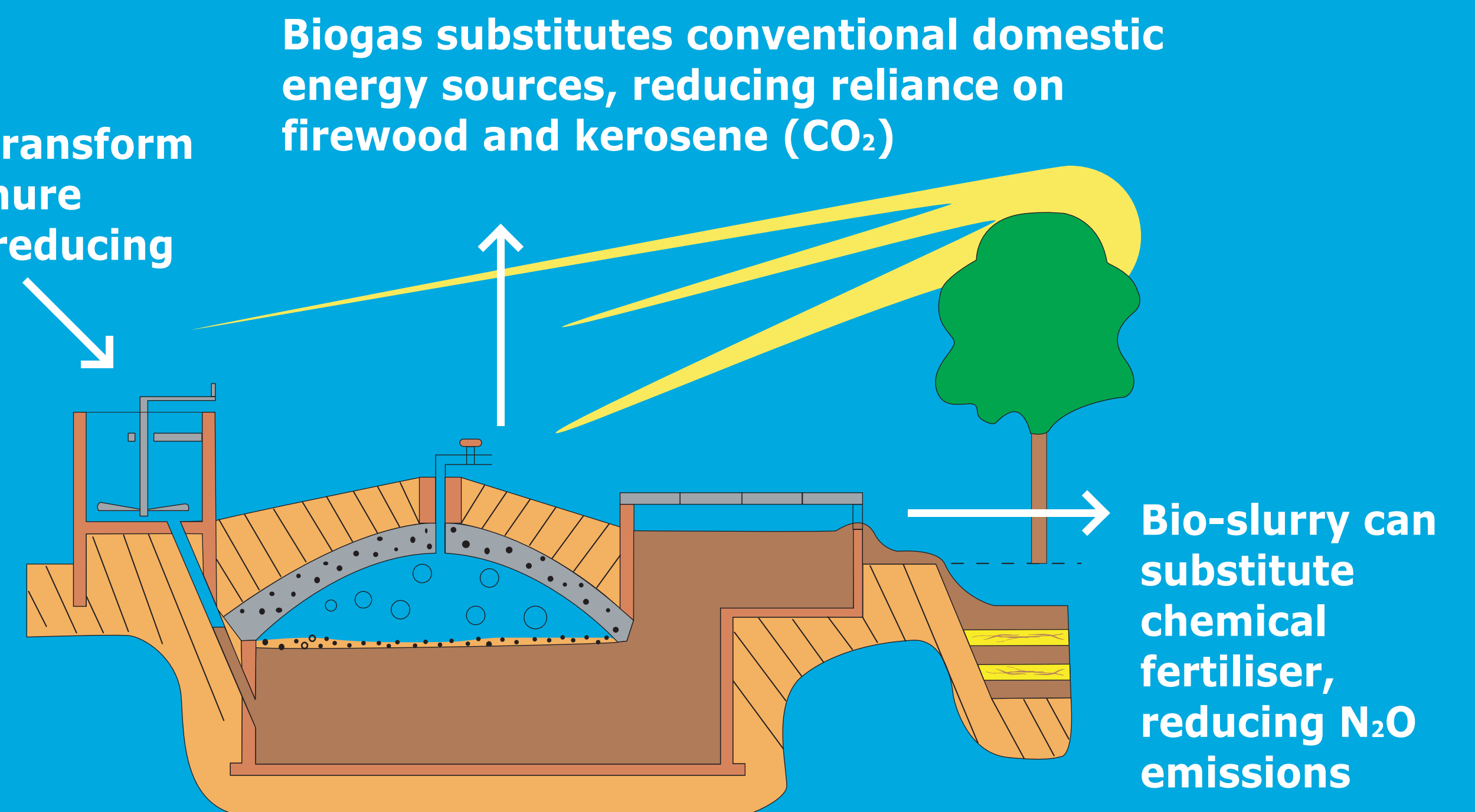
## Biogas programmes in Vietnam, Nepal, Cambodia, Lao PDR, Bangladesh and Rwanda supported by SNV Netherlands Development Organisation

### Biogas technology



### Greenhouse gas reductions: 5 tons CO<sub>2</sub>-eq/plant/year

Biogas plants transform traditional manure management, reducing CH<sub>4</sub> emissions



## The Millennium Development Goals...

1) Eradicate extreme poverty and hunger

3) Promote gender equality and empower women

4) Combat HIV/AIDS, malaria and other diseases

7) Ensure environmental stability

## ...and how biogas contributes to achieving them

- provides cooking energy (saving of traditional cooking fuels)
- increases agricultural yields
- generates rural employment (construction)
- reduces workload of women and children (2-3 hours per day)
- lighting (increases opportunity for economic activity, education)
- reduces indoor smoke pollution and related health risks;
- improves sanitation, lowering infections
- reduces consumption of firewood (prevention of deforestation)
- reduces GHG emissions
- reduces need for chemical fertiliser

## Threats and challenges for biogas programmes and CDM:

- Deletion of reference to non-renewable biomass for small scale CDM projects
- Project size limitations (< 15 MW)
- Higher transaction costs due to new inflexible bundling rulings
- Limitations of CDM in reducing up-front investments
- Limitations of first commitment period
- Complicated verification and monitoring mechanism

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