

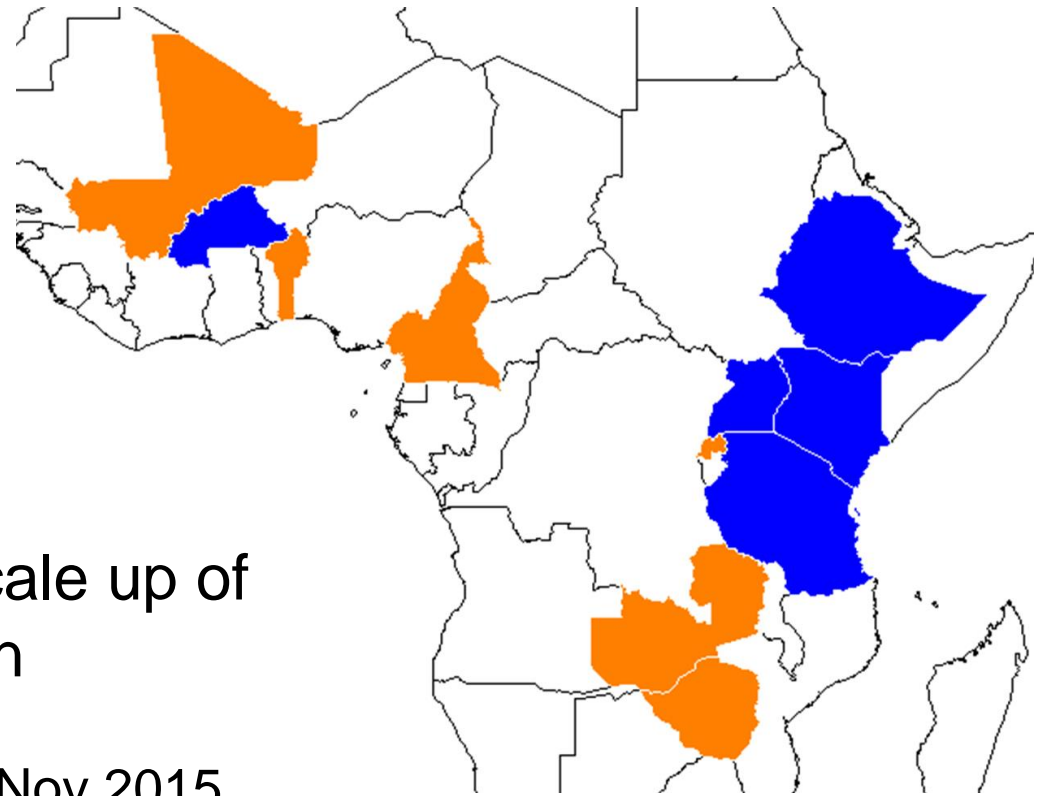
Scaling up Domestic Biogas in Africa



HIVOS
people unlimited

ABPP
Biogas, cleaner energy,
better lives

SNV
Connecting People's Capacities

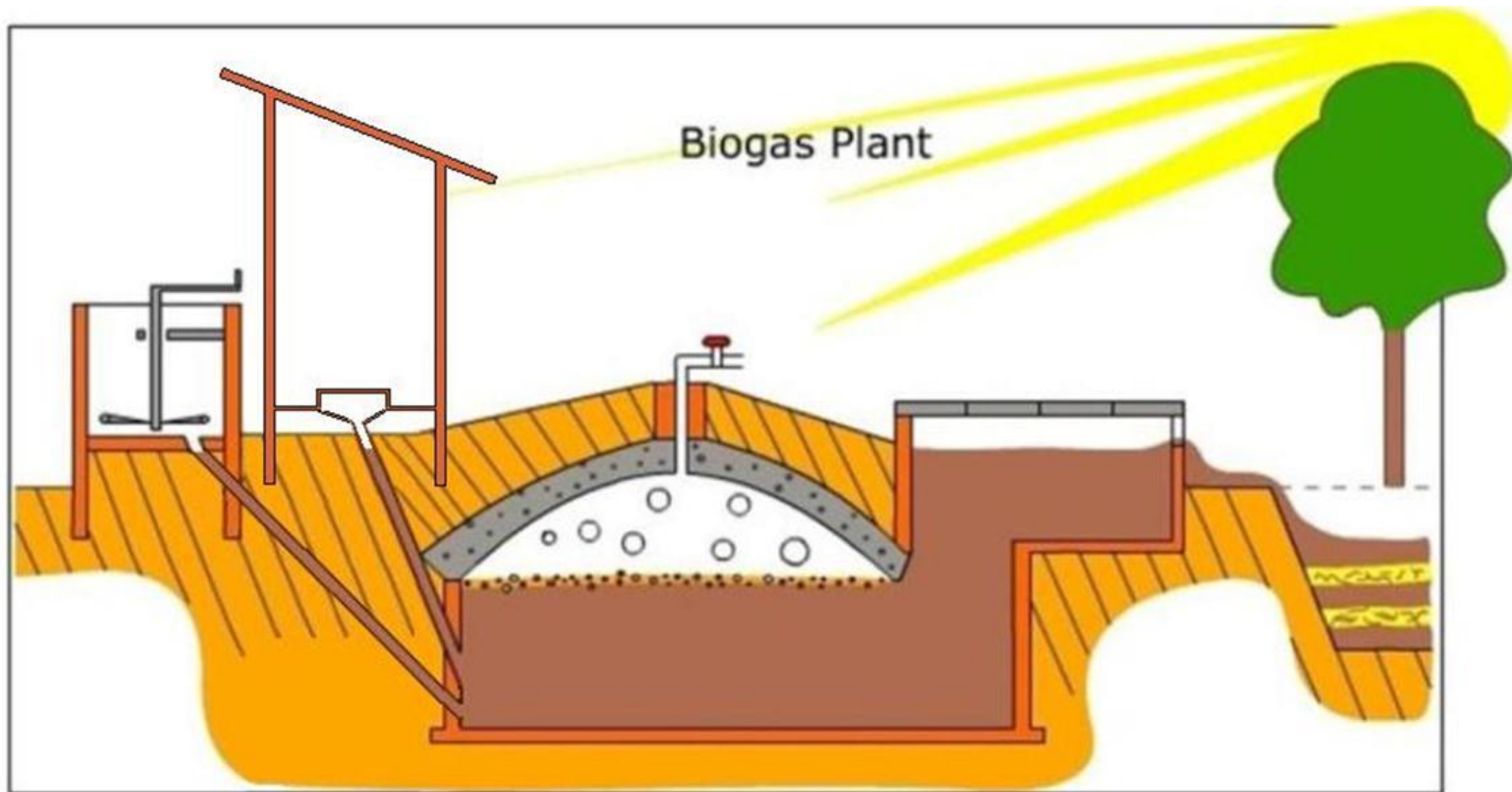


Sustainable Scale up of
Fuel Production

GACC Ghana 13 Nov 2015

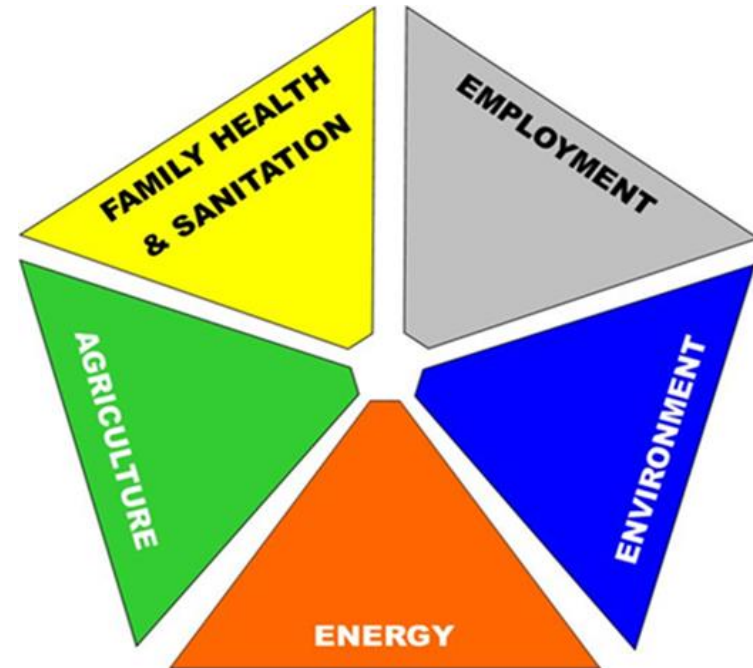
- **Public private partnership:** 5 Country Governments, HIVOS and SNV. Main financier: Government of The Netherlands (DGIS).
- **Our mission:** to contribute to the achievement of the SDGs through construction of bio-digesters as a local, renewable clean **energy** and **agricultural** solution
- **Our aim:** to develop **commercially viable** biogas sectors in Africa
- **Our target:** **125,000** bio-digesters by 2018
- **Achieved:** **51,000** bio-digesters installed (mid 2015)

- Biogas benefits households involved in integrate farming (livestock & agriculture) with access to dung and water
- Household investment: from \$500 per installation



Sustainability of biogas vs wood fuels

- Clean and renewable energy, elimination of IAP
- Improved ease of use and safety
- Affordability: pay back period 1 to 3 years
- Substitutes wood fuels, decreases forest degradation
- Reduction of Co2 emissions
- Durable solution: >15 year lifespan
- Time saving:
 - Reduced cooking time
 - Less time spent on fuelwood collection
- Bonus: bio-slurry for chemical fertiliser substitution and soil nutrification



- Cash payments from savings or informal credit (e.g. family members) plus -in some countries- Government investment incentives/rebates for end-user households
- Regular loans (Local banks / MFIs / SACCOs)
- Cooperative loans (Agricultural Coops, repayment through revenue share of milk, coffee or other crops)
- PAYG: so far small pilots not (yet) very promising
- Credit for biogas construction enterprises/appliance dealers: incidental cases small pilots only (e.g. Asia/Nepal)

- Governments provide end user investment incentive:
 - Burkina Faso and Ethiopia since 2009
 - Kenya and Tanzania currently awaiting final approval
- Governments are represented in National Biogas Programme Steering Committees in all countries
- Legislation: Vietnam for proper disposal of pig waste
- Quality standards development (e.g. Kenya Bureau of Standards)
- Some countries: duty free importation of biogas appliances (pressure meters, stoves, gas lamps, sulphur meters)

- **Local ownership from the start**
 - Feasibility/baseline studies, design, management and implementation with local stakeholders in the driver's seat
- **Biogas Sectors are not built overnight**
 - Domestic bio-digesters provide solutions predominantly for rural farmer households; developing viable rural markets require long term commitment and investments
 - Demand-led market **pull** approaches can work; technology **push** approaches will not
 - **Multiple actor approaches** work best, allowing for competition leading to quality product and service provision
- **Household energy and health are interdependent**
 - Biogas helps securing families' energy requirements while at the same time addressing HAP attributed diseases (biogas use results in hardly any PM 2.5 and CO emissions)

THANK YOU



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