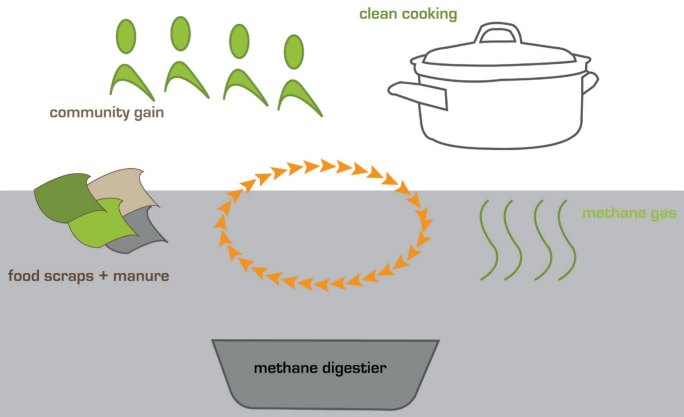
technology

Bio- Energy:
The technology involved in providing bio-energy is a growing demand worldwide. Bioenergy however requires specific products methane gas for example requires the design specific burner design due to its low gas pressure properties. In this instance it has been used to provide a unique sustainable fuel system and a safe use for this energy for cooking with the fortué™ stove.

Methane Gas:
The fuel technology solution for the fortue stove is methane gas,. methane is one of the cleanest gases, it is produced from waste from humans and animals and is therefore a great economical solution for developing communities who do not have extra money to spend on fuel for cooking energy. For countries such as Indonesia, the humid climate provides a perfect environment for production of methane. In the community of Tongging where there is a lot of farming, there is enough organic matter plus animal waste to provide enough methane for the population of the whole community.

Biomass Pellets:
Whilst biomass is known to create IAP, it is mostly the lack of appropriate technology that makes it so toxic. The appropriate gasification can offer sustainable us e of biomass, both by compressing biomass pellets and providing an appropriate burner. Whilst it is not as effective as methane in reducing IAP or as sustainable, it still reduced the emission of particulate matter by 50 - 70%.



these two diagrams offer a simple explanation of how the use of methane or biomass can create a cycle of economic and wellbeing sustainability for developing communities. The diagram above shows the main solution of methane gas and the one below shows the secondary solution of biomass gasification solution.