

Fecal Sludge to Biodiesel– Columbia University – Global Development



Estimated TRL when displayed at Fair - 4

Status: Lab-scale work in the United States and Ghana is ongoing. Construction of a pilot-plant in Ghana is nearly complete. In twelve months, we expect to be producing biodiesel at pilot-scale (10 m³ FS/d).

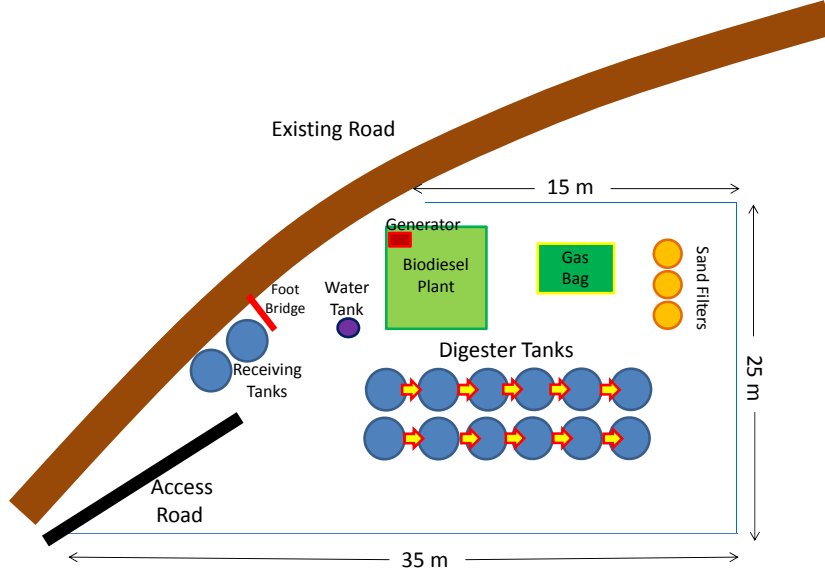
The overarching goal of this pilot-scale project (10 m³/d) is to develop an integrated biological and chemical process technology to convert fecal sludge primarily into biodiesel. Value added products include methane, methanol and fertilizer.

Current operating cost : \$0.68 /person /day.

Note: The process is being optimized to minimize these costs

Final products : Biodiesel, Nitrogen, Phosphorous, Methane energy

Cost recovered : \$0.04/person/day



Integrated biochemical conversion of fecal sludge to biodiesel