



**GreenOil Energy Sciences (Pvt.) Ltd.**  
New Delhi, India



**PROBLEM**

- 120 million hectares, over 36% of India’s landmass is classified as degraded, very often through overuse of chemical fertilisers
- Over 40% of India’s population lacks access to reliable electricity
- Both these combine to severely restrict long term livelihood opportunities and cause urban migration and protracted poverty

**SOLUTION**

- GreenOil Energy Sciences is a technology start-up setting up a chain of biomass power plants based on anaerobic digestion technology
- Using organic waste (fruit and vegetable waste, animal dung etc.) as input to produce electricity
- Not only is Renewable Energy produced, so is high quality bio-fertiliser that helps rejuvenate degraded land and reduce dependence on chemical fertilisers

**ENGAGEMENT OF LGT VENTURE PHILANTHROPY**

- GreenOil is part of LGT Venture Philanthropy's iCats programme
- GreenOil has access to LGT Venture Philanthropy's network and receives access to ongoing mentoring support



Growth after using GreenOil Bio-fertiliser

**IMPACT**

- Expected Management and processing of over 42’000 tons of waste per annum at 1 MW power generation capacity
- Production of 8.56 million units of electricity and 21’000 tons of natural fertilizer.

Impact	2010	2011	2012	2013	2014
Waste managed (in tons pa)	400	8’000	21’000	42’000	42’000
Renewable Energy supplied to grid (in million kWh pa)	-	1.63	4.28	8.56	8.56
Natural fertilizer sold (in tons pa)	-	320	3’240	10’800	21’600
Cumulative Land Area impacted (in Ha pa)	-	12’900	142’500	574’500	1’438’500