## **Dung Management by Adopting** Integrated Renewable Energy and Sustainable Agriculture (IRESA)

## **Dung management**

- Proper manure utilization through Biogas Digesters
- Bio PROM (Phosphate Rich Organic Manure) production
- Vermicomposting
- Adopting proper composting methods



18% of gross national emissions from livestock and agriculture

58% of GHG emissions from the livestock: Cattle & buffalo highest source

**Need Statement** 

20.5 million farmers dependent on livestock for income

Low quantity and quality of milk production

Constraint in feeding, breeding, health & management of cattle

IRESA – An Integrated renewable energy and sustainable Agriculture system (per unit)



2.65 Tons Firewood Saved per year

2 Tons of Vermicompost per year

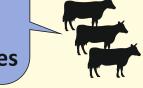
f 1 Farming House

**40** Liter Water

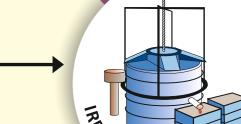
Per day



40 kg of cowdung per day from 3 milking Cattles







8



10,000

Liters of soil beneficial microbial liquid drip per year leads to improved soil health

CO2

4 MT CO<sub>2</sub>e per year



14.6 Tons Cowdung captured per year

**Reduce Indoor Pollution** 

**Drudgery** Reduction **Contributes to Circular** Economy

**Impacted SDGs** 

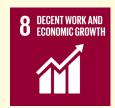




















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