



SHRI

Sanitation and Health Rights in India





SHRI fights alongside communities to eliminate open defecation as a key step in the ongoing struggle for health equity and social and economic justice.

SUMMER 2010

First conversations with rural community in Bihar to investigate sanitation status.

SUMMER 2011

First toilets for school children at local tutoring center are built.

FALL 2010

Founders of SHRI commit to eliminating open defecation in rural Bihar. Idea to link community toilets to biogas digester is born.

SPRING 2013

Land is purchased where SHRI's pilot community sanitation complex will be constructed.

SUMMER 2012

Second place finish at the Dell Social Innovation Challenge grants SHRI with \$30,000.

SUMMER 2013

Designs for facility are drawn and finalized.

SUMMER 2014

Pilot facility opens July 10. Hundreds of community members begin using toilets.

SPRING 2015

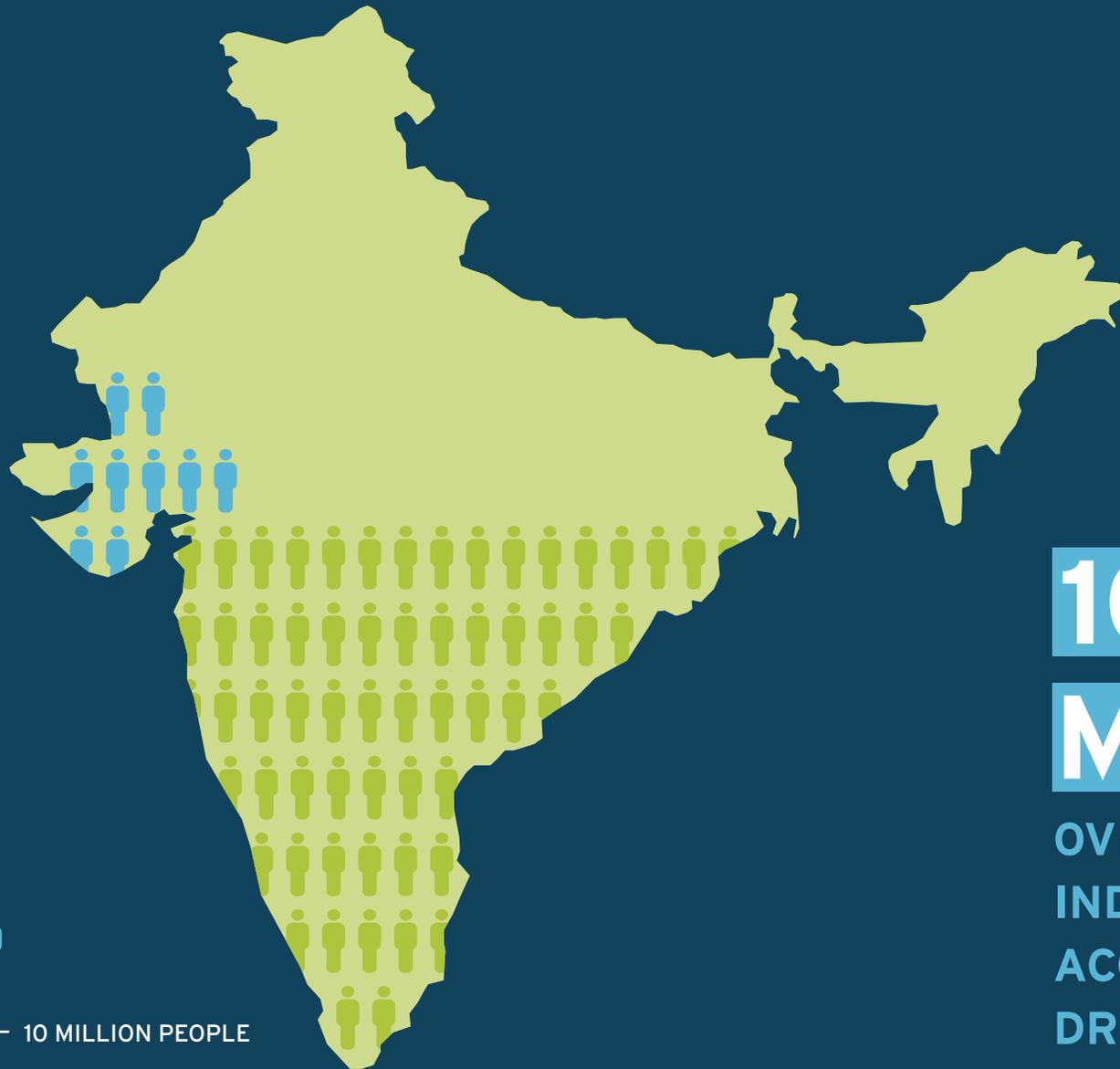
Water filtration plant is installed at site. Powered by the electricity generated from the biogas. SHRI begins selling safe drinking water to the community. Revenue used to offset maintenance costs.

SUMMER 2015

Second community obtains government land, which is handed over to SHRI for the construction of another community sanitation complex.

Construction of this facility is completed and 1,500 additional people gain access to toilets and safe drinking water.

the problem



600

MILLION

INDIANS DEFECCATE
IN THE OPEN

100

MILLION

OVER 100 MILLION
INDIANS LACK
ACCESS TO SAFE
DRINKING WATER.

 10 MILLION PEOPLE



health

800,000 NEW CASES OF WATERBORNE DISEASES ARE REPORTED EVERY YEAR IN THE REGION WHERE SHRI OPERATES.

500,000 INDIANS DIE FROM THESE WATERBORNE DISEASES AS A RESULT OF CONSUMING FOOD AND WATER CONTAMINATED WITH DANGEROUS FECAL WASTE.

society

WOMEN AND GIRLS ARE EXPOSED TO SEXUAL ASSAULT AND RAPE AS THEY WALK TO THE FIELDS ALONE TO RELIEVE THEMSELVES.

40% OF FEMALE SCHOOL DROPOUTS CITE THE LACK OF SCHOOL TOILETS AS THE REASON.

economy

\$34 BILLION IS SPENT EVERY YEAR ON HEALTH CARE COSTS STEMMING FROM THE LACK OF TOILETS.

6% OF INDIA'S GDP IS SPENT ON THE NEGATIVE CONSEQUENCES ASSOCIATED WITH OUTDOOR DEFECACTION.

our solution

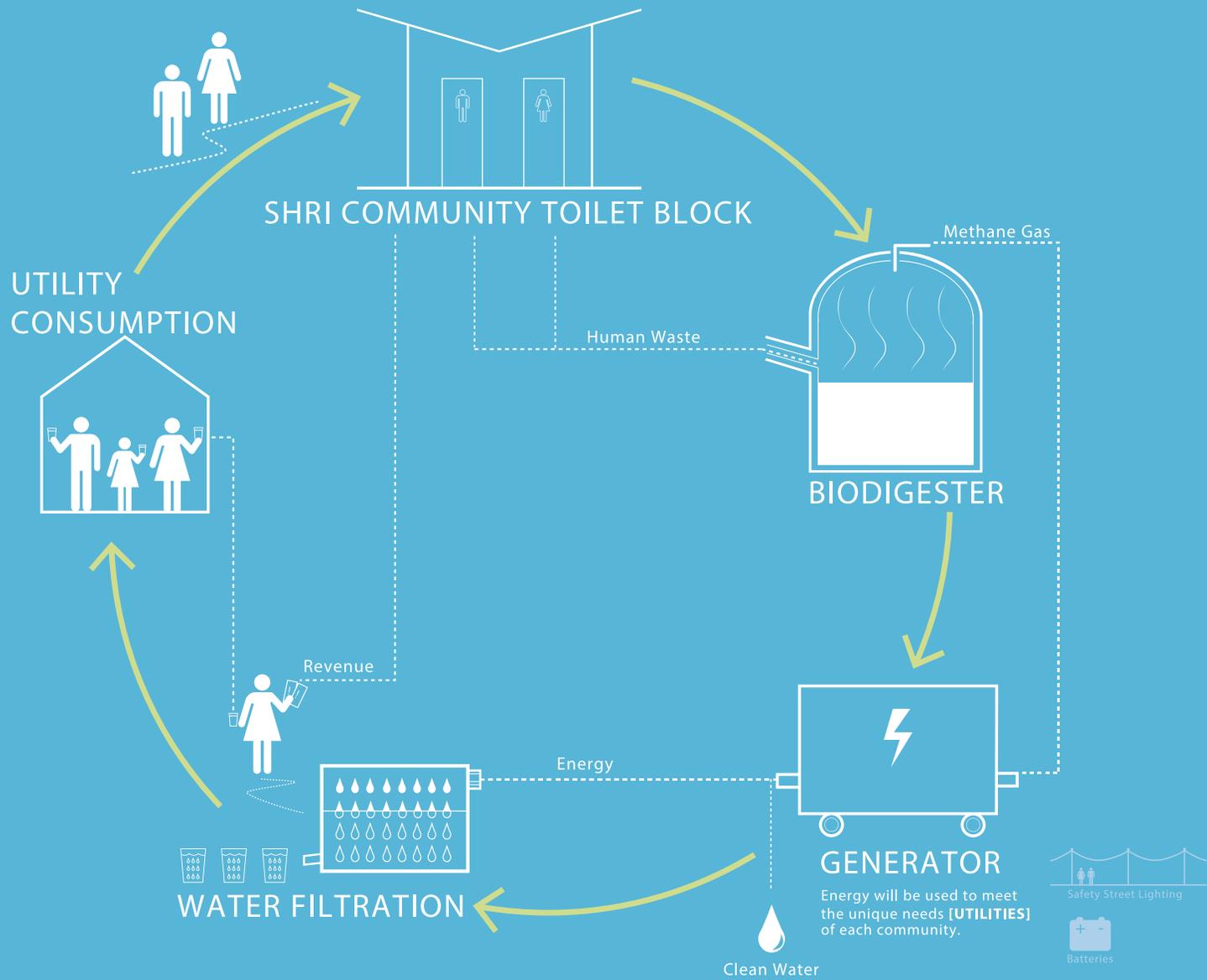
toilets

water

maintenance

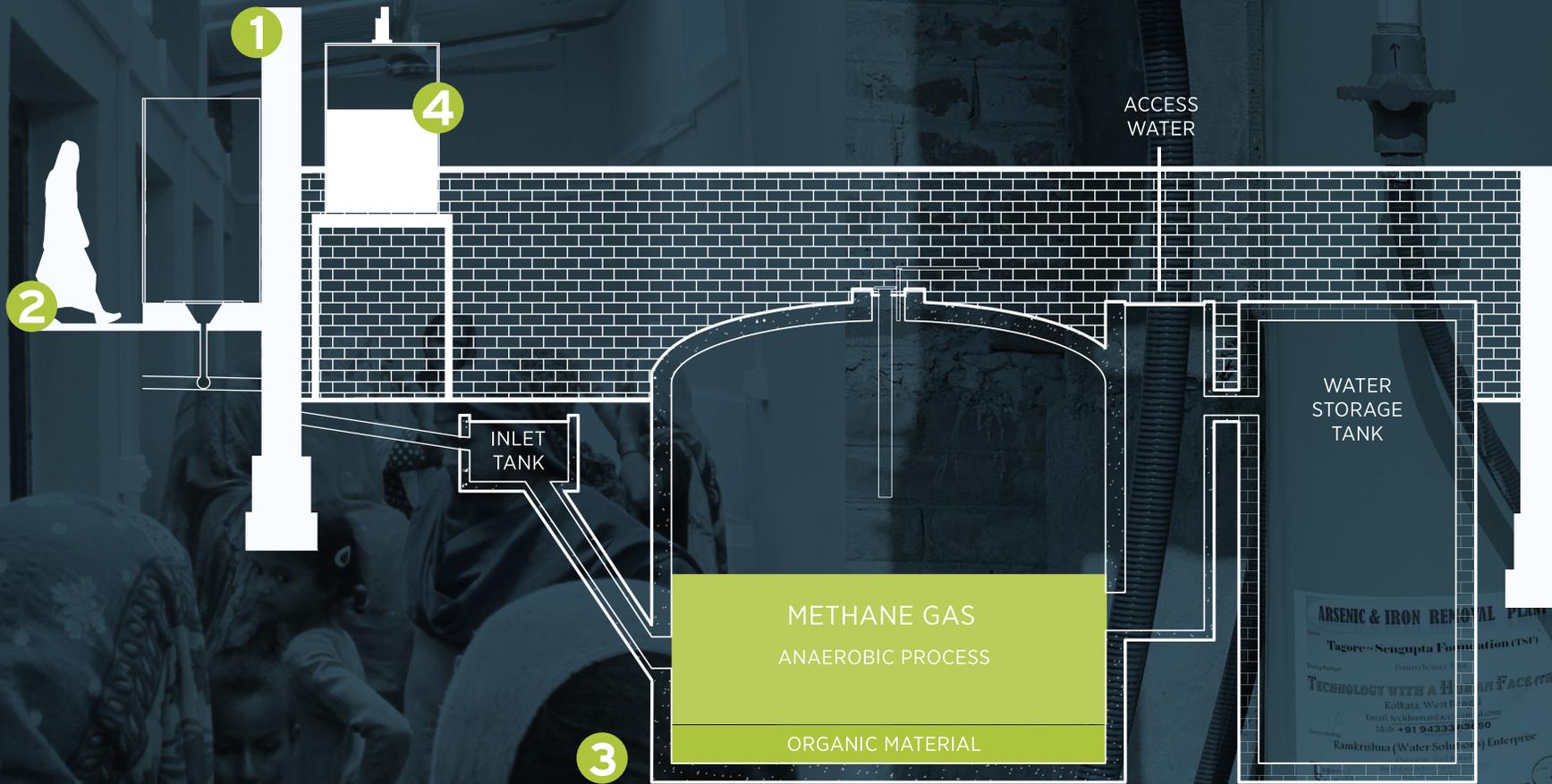
community





THE SHRI SYSTEM

our toilets



BIOGAS DIGESTOR



1

TOILET CONSTRUCTION

SHRI constructs toilet facilities on government land for \$30,000. This cost includes 8 toilets for men, 8 for women, plumbing, 10 hand washing stations, an office, a supply room, and the biogas digester (where waste decomposes to produce methane gas).

2

FREE TO USE

The toilet facilities are always free to use in order to encourage consistent use by community members of all ages and levels of incomes.

3

WASTE COLLECTION

Human waste is disposed of hygienically. In the biogas digester, anaerobic digestion produces methane gas.

4

METHANE GAS AS ENERGY

Methane gas is used as energy to run a generator which is used to power the water filtration and distribution system.



CUSTOMERS

SHRI registers water customers from the same catchment area as the toilet facility. The water filtration and distribution system also has the capacity to provide hundreds of families beyond this immediate community with safe drinking water.

SAFE

SHRI's water filtration system is installed through a partnership with DrinkWell Systems. It is World Health Organization certified and removes arsenic, fluoride, iron, and bacteria from water, making it safe to drink.

REVENUE

SHRI needs to register approximately 250 water customers to generate \$900 per month in order to cover the operation and maintenance costs of its toilet facilities.

safe drinking water



MAINTENANCE

\$900/MONTH

This includes salaries for 6 staff, who track toilet attendance and ensure the facility is kept clean at all times. It also includes all cleaning supplies and extra diesel for the generator to supplement energy demands not met by the methane gas.

By utilizing the revenue from water sales to offset this monthly cost, SHRI's community sanitation facilities are self-sustaining.

facility maintenance



FREE TO USE

SHRI's toilets are free to use to motivate consistent use by community members.

RURAL ACCESS

SHRI is uniquely working to bring toilets to last mile communities in rural India because 90% of India's population that defecates outside does so in rural areas.

WATER FILTRATION

SHRI is the only organization harnessing anaerobically produced methane gas to power a water filtration system. We are committed to giving communities access to both toilets and safe drinking water.

our advantage



OUR COMMUNITIES

SHRI fights alongside communities

meaning that partnership with local leaders and community members is essential to our success.

Namely, these citizens petition their local government to hand over government land for SHRI to use for construction. This early investment in the project ensures that community members have agency in the process from the beginning stages and have an investment in working with us to ensure that the facility is utilized and maintained.

community



mc mass
CHALLENGE

verbu

**GLOBAL
CITIZEN**



 **Microsoft**

our supporters

**SHRI fights to make
WASH services a right,
not just a privilege.**



