# Case Study 2 India’s powerful toilets

The idea

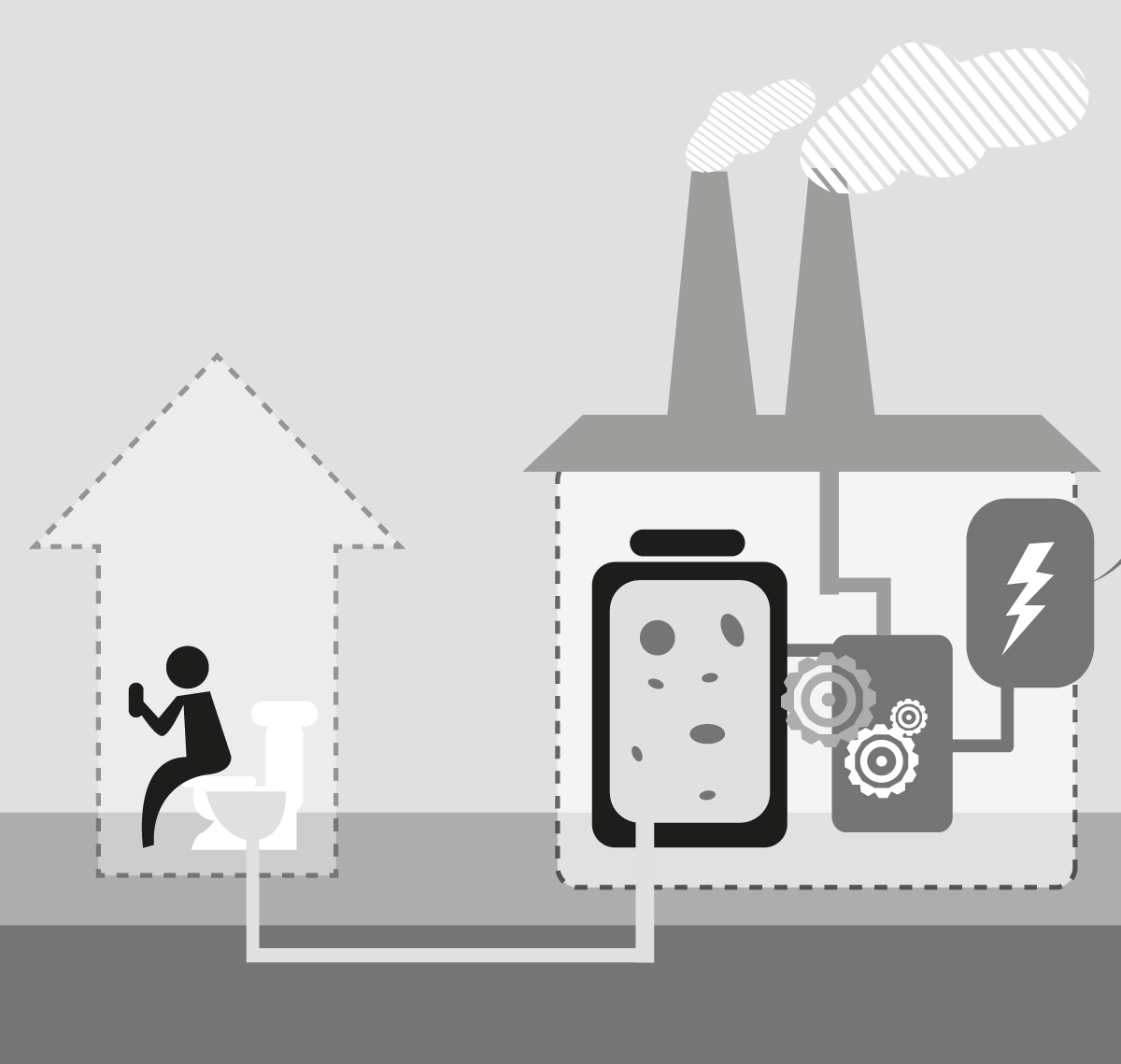
There are two problems for rural communities in India that these biogas factories could help solve.

600 million people do not have clean safe places to go to the toilet, particularly in rural communities. This caused problems for people who felt unsafe when going into the forests alone at night to use the toilet, and also led to the spread of disease.

100 million people do not have access to safe drinking water.

## How does it work?

1. Toilet blocks are constructed including toilet stalls, hand washing stations and a biogas factory.
2. Human waste, generated when people use the toilet, drops into the feedstock tank. The bacteria in the feedstock tank digest the waste and produce biogas.
3. The biogas is used to fuel a generator to generate electricity.
4. This electricity is used to filter water. This safe water is sold back to the community.
5. The income from this water is used to maintain the toilets and biogas factory.



**4 Electricity used to filter water**

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**5 Safe water sold to the community**

**6 Income used to maintain toilets and biogas factory**

## Facts

Feedstock – human waste, faeces and urine

Power – water filtration system

Initial Cost - £30000 to build a toilet block

## Find out more

You can find videos and more information on [www.sanrights.org](http://www.sanrights.org), one of the organisations who build these toilet blocks.