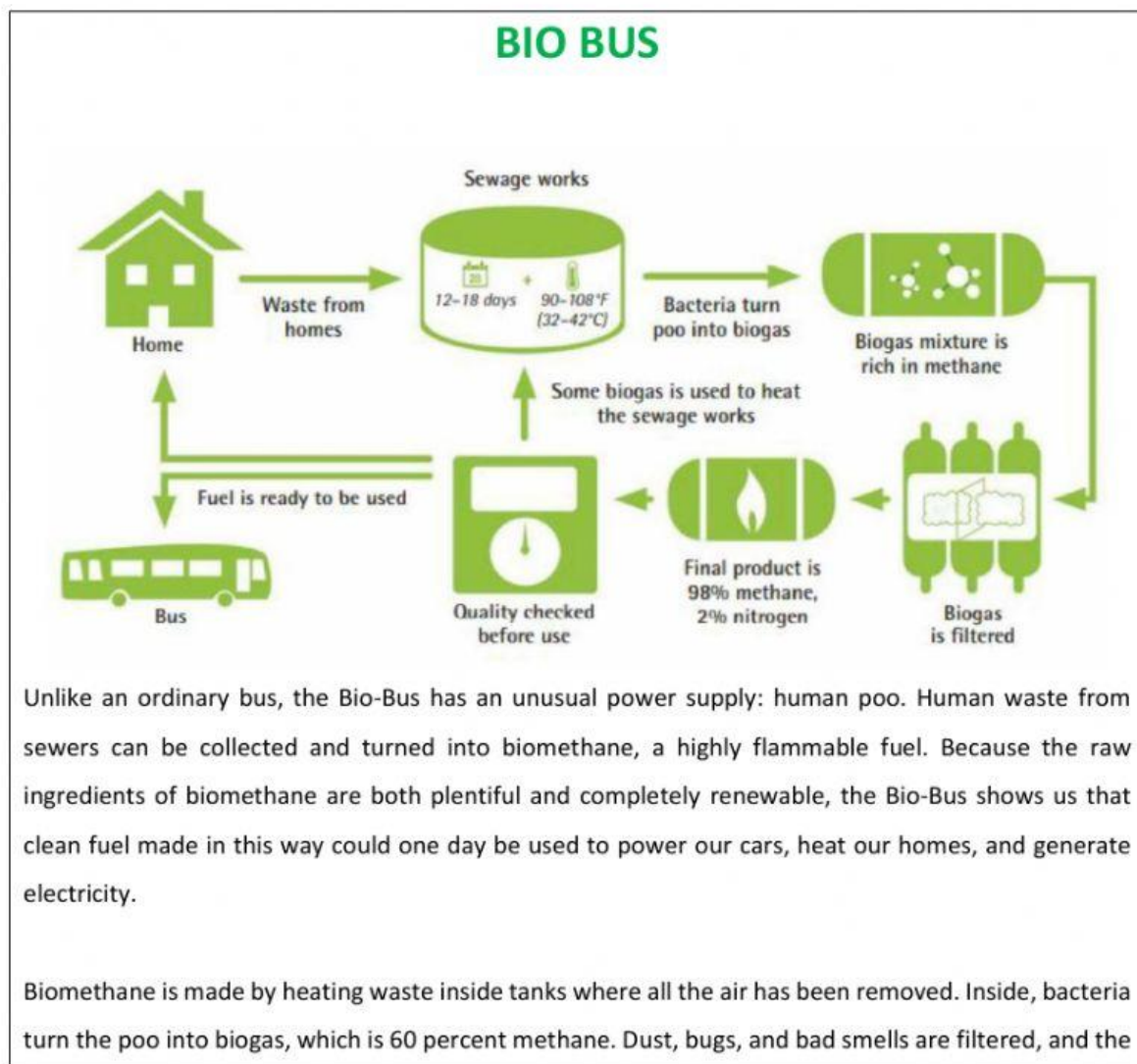


Reading 3

Skills:

- Details
- Understand vocabulary
- Look for synonyms

Getting started: Do you think human excrement can be useful to create energy?



biogas is then refined, so it is 98 percent methane, which can be used as fuel for vehicles, or even supplied to homes.

On the bus, the gas fuel is stored in a tank on the roof, compressed to 200 times the air pressure in the atmosphere. The exhaust emissions contain 97 percent less smoke and 90 percent less nitrogen oxide than diesel-powered buses.

The 40-seater bus can travel 186 miles (300 km) on a full tank of biogas. Actually, the Bio-Bus runs a regular public transportation service through Bristol, UK, powered by human sewage and food waste. After being processed at a biogas plant, these rotting materials become a super-clean, odor-free, and low-carbon fuel.

Other Alternative Energy Sources

One new source of oil fuel can be made with light. Tiny, plantlike algae use a source of bright light to grow inside an algal bioreactor, where they are kept free of impurities. The oils stored in the algae's cells are then refined into a fuel. Likewise, the trash cans of Copenhagen, Denmark, have become a source of power since the Amager Resource Center (ARC), an energy plant and sports facility, opened. This giant incinerator makes electricity from the heat of burning garbage.

**Adapted from How Super Cool Tech Works. DK Publishing.*

Note:

- Alga (singular) is pronounced /'ælgə/
- Algae (plural) is pronounced /'ældʒi:/

Read the following words and identify their synonyms in each paragraph:

- **Paragraph 1:** different, changed, abnormal, create, gathered
- **Paragraph 2:** odors, in, automobiles
- **Paragraph 3:** kept
- **Paragraph 4:** in fact, daily
- **Paragraph 5:** in the same way, trash, small, tins, huge

Match the concepts with the descriptions on the right.

- | | |
|---------------|---|
| 1. Bio-Bus | a. Place where energy is generated and people can exercise. |
| 2. Biomethane | b. Material no longer needed |
| 3. Waste | c. Plants, like seaweed, that grow in or near the water. |
| 4. Exhaust | d. System through which gases come out. |
| 5. Algae | e. A type of fuel |
| 6. ARC | f. Vehicle that runs on alternative fuel. |

What do you think?

Do you know of other projects/technology that involve using alternative fuels?