WASTE-TO-ENERGY

A look at the potential impact of using fuel cells to turn organic waste into ultra-clean energy

ANIMAL WASTE

In the US, large dairy and swine farms produce enough methane to generate **2,100 megawatts (MW)** of renewable energy each year, Enough to power **1.75 million** homes.

WASTE WATER

Only 10% of America's large scale wastewater treatment plants utilize on-site biogas, literally flushing almost **1,500 MW** of renewable fuel cell energy down the drain, which could be used to power over **1.2 million** homes

FOOD WASTE

If half of the food waste generated each year in the US was converted to biogas and used to generate electricity, it would power over **2.5 million homes**

RELIABLE

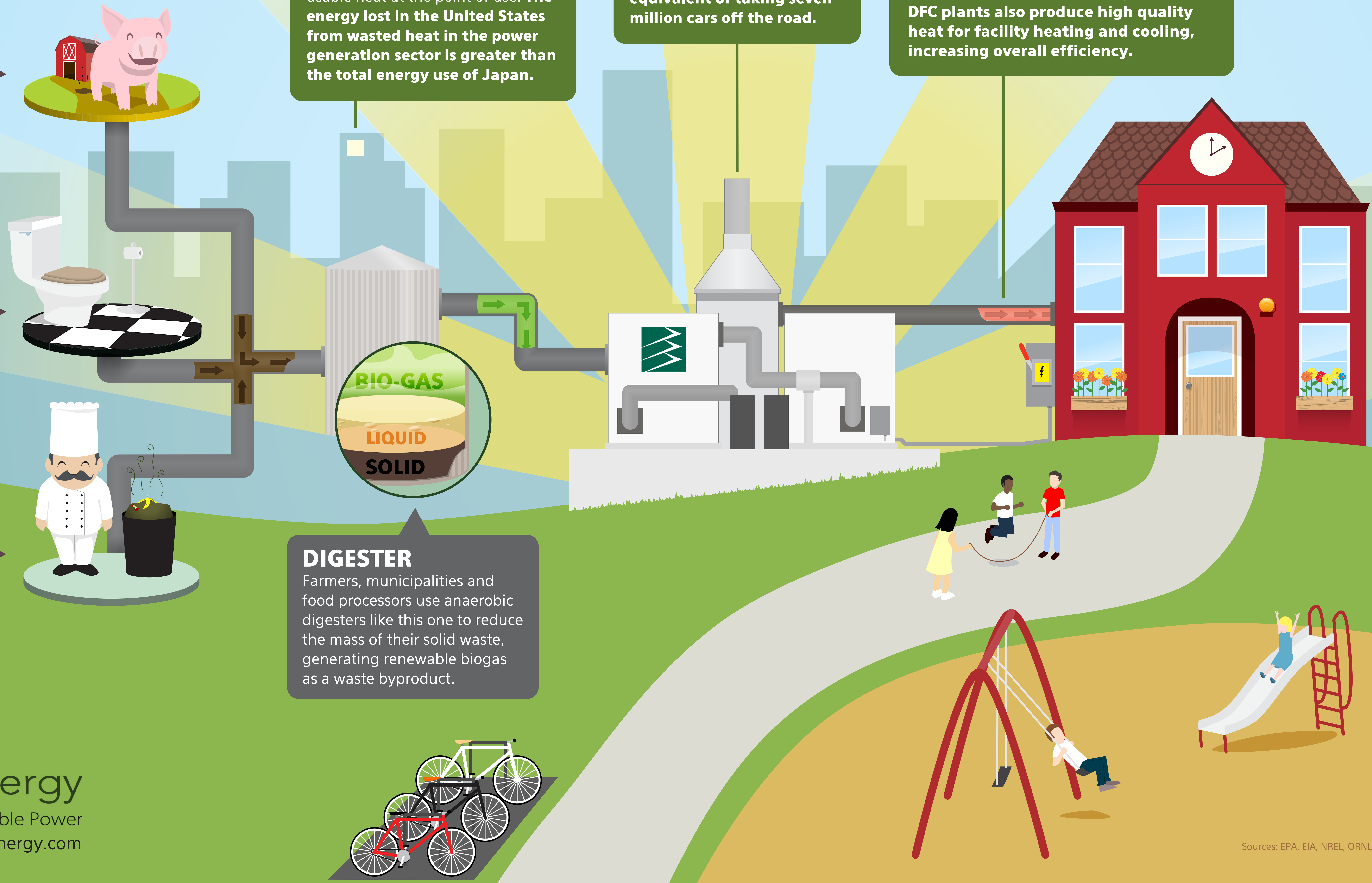
Fuel cells operate continuously, providing reliable baseload power and usable heat at the point of use. **The energy lost in the United States from wasted heat in the power generation sector is greater than the total energy use of Japan.**

ULTRA-CLEAN

Using biogas to generate ultra-clean power with fuel cells would eliminate almost half a million tons of pollutants and 40 million tons of greenhouse gas emissions, per year: **the equivalent of taking seven million cars off the road.**

EFFICIENT

Direct fuel cells generate about a 1/3 more electricity from a given unit of fuel than the less efficient transmission grid. **DFC plants also produce high quality heat for facility heating and cooling, increasing overall efficiency.**



DIGESTER

Farmers, municipalities and food processors use anaerobic digesters like this one to reduce the mass of their solid waste, generating renewable biogas as a waste byproduct.

FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

For more information visit www.fuelcellenergy.com

Sources: EPA, EIA, NREL, ORNL