

Using sewage sludge as a raw material  
in the manufacture of fuel for natural gas vehicles

# Kobe Biogas

## Features

- The program manufactures 98% methane fuel gas by refining digestive gases consisting of 60% methane using the high-pressure water resorption method.
- The use of carbon-free fuels manufactured from sewage sludge, a biomass, helps reduce CO<sub>2</sub> emissions.
- Using the resulting methane to fuel natural gas vehicles, which generate clean emissions, helps prevent air pollution and reduces our dependence on fossil fuels.

## Overview

(Technical principles, actions, etc.)

Kobe Biogas, an energy source derived from sewage sludge generated by the city's residents, is manufactured by refining digestive gases consisting of 60% methane using the high-pressure water resorption method at the Higashinada Sewage Treatment Plant, yielding 98% methane gas that is used as fuel for natural gas vehicles. The environmentally friendly initiative, which seeks to reduce fossil fuel consumption and cut CO<sub>2</sub> emissions, is capable of supplying 2,000 cubic meters of gas each day for use in natural gas vehicles, the equivalent of fuel for 40 buses.



Refining equipment and gas tanks



Kobe Biogas Station

## Effects

- ◎ Supplying 2,000 cubic meters of Kobe Biogas each day is equivalent to cutting CO<sub>2</sub> emissions by 1,200 tons each year compared to using natural gas.

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