

What is “Fukuoka Method”?

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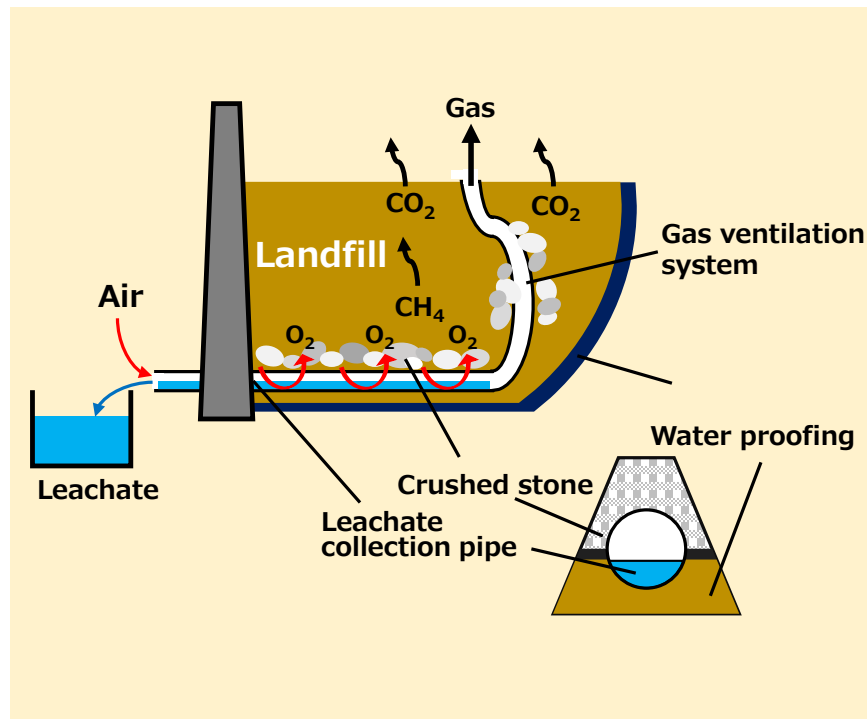
■ Challenges of open dump landfill site

- **Greenhouse gas (GHG) emissions**

Methane (CH_4), produced from organic waste in the absence of oxygen, can cause fires.

- Unsafe structures with steep slopes
- Soil and water pollution due to the infiltration of untreated leachate

■ Advantages of Fukuoka Method (Semi-aerobic landfill structure)



Fukuoka Method is a controlled landfill method that introduces airflow into landfill layers through natural aeration, and thereby promoting aerobic decomposition of landfilled waste.

In 2011, **this Method was certified as an innovative method of Clean Development Mechanism (CDM)**, which is stipulated in the UNFCCC.

- **Reduction of GHG emissions**
- A safe and more hygienic landfill with fast stabilization
- Applicable to both existing and new landfill sites
- Low cost without having to rely on specific machinery and equipment

- 17 lives were lost in February 2018 when the Hulene landfill site in the capital city of Maputo, Mozambique, collapsed due to heavy rains.
- A project for **the safe closure of the Hulene landfill site**, based on the application of the **Fukuoka Method**, started in November 2019 and was completed in August 2020 with funding from Japan.
- **MOEJ** has been **continuously providing technical supports** on the application of the Fukuoka Method from the construction planning stage up to the present.
- A new landfill site is planned to start operation in 2025 with funding from the World Bank.



Before construction



Under construction



After construction