



JFE's Waste-to-Chemical technology

~Last mile for circular economy~

16, October 2025

FUKAI Hajime

Director

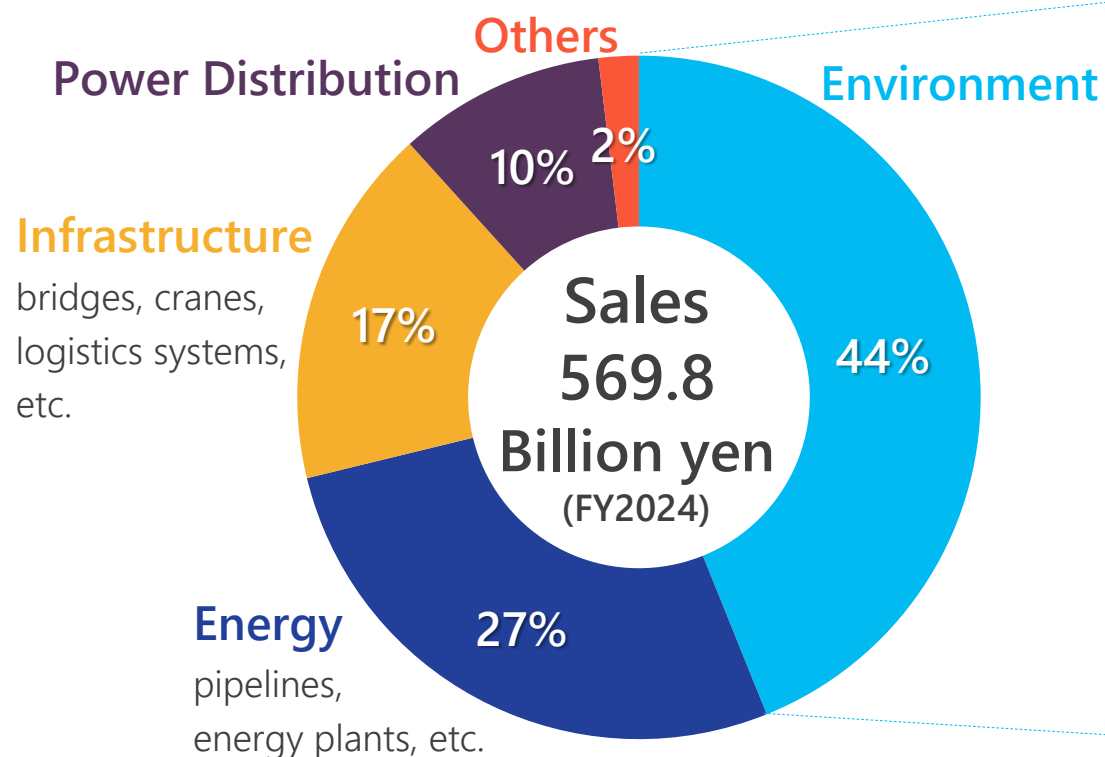
Innovation Center,

Environmental Solutions Sector



About JFE Group and JFE Engineering Corporation

- JFE Group Revenue: **33 billion USD+** (FY24)
- JFE Engineering is **Leading Company in Environmental** Facility Engineering and Business



JFE's C-PhoeniX Process ~ Essential for Chemical Recycling

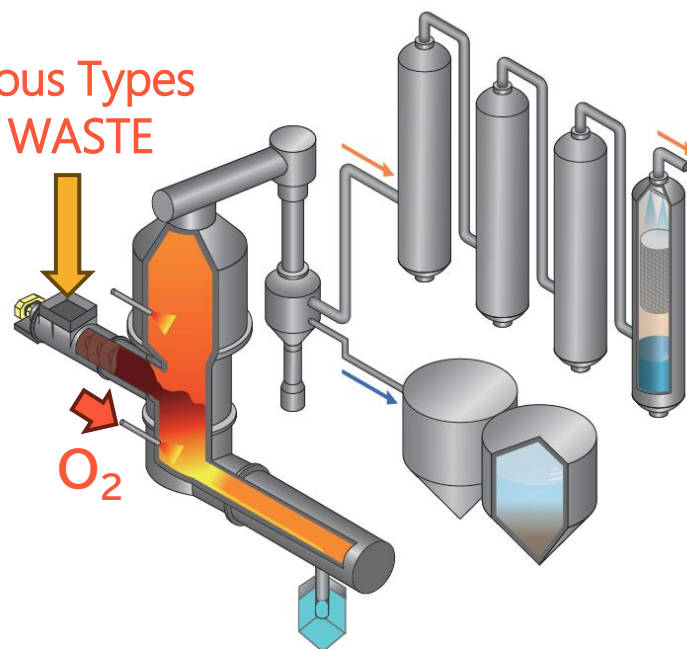


C-PhoeniX Process

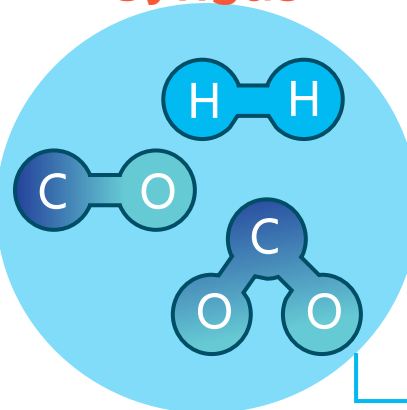
Only 1 proven technology
From Mixed Waste to Syngas

(By JFE)

Various Types
of WASTE

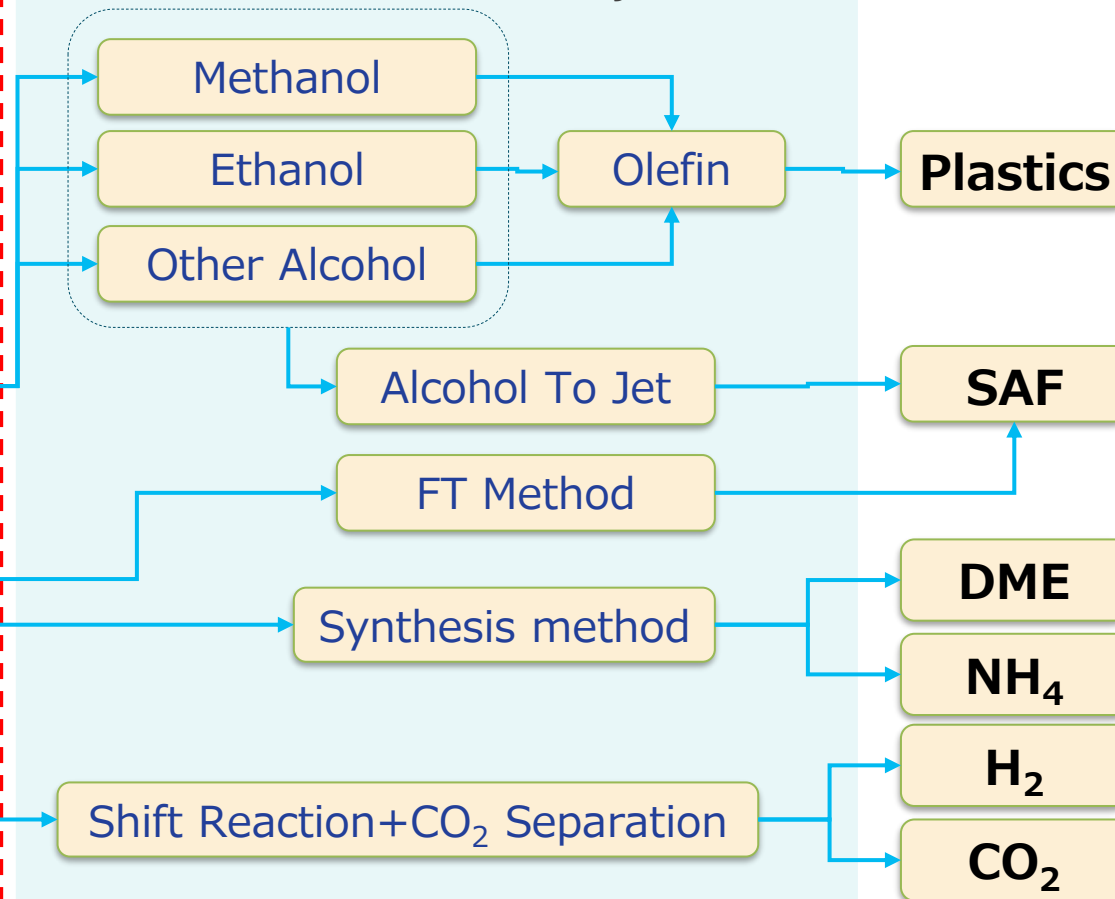


Syngas



Base technology has run 20+years.

Chemical Refining Technology (By others)



Pioneering a Circular Future

We believe this solution "**C-PhoeniX Process**" answers a global imperative. JFE Engineering stands ready with proven technology to transform waste into synthesis gas—the foundation of a new resource paradigm.

By forging strategic partnerships with organizations that can convert this waste-derived syngas into valuable resources, we're not just managing waste—we're redefining it.

Together, we will build the circular economy that our planet demands and future generations deserve.

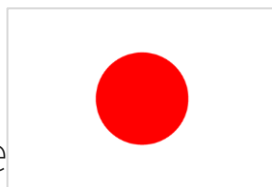


The C-PhoeniX Process has been selected for **NEDO's Green Innovation Fund** Projects, where we are actively developing commercial-scale production of **Green Ethanol**.

Our pilot demonstration facility will be completed in December 2025, initiating comprehensive verification testing to gather the essential data required for commercial-scale design and implementation.

This milestone represents a significant step forward in our commitment to sustainable chemical solutions.

Foundations of Life Just For the Earth



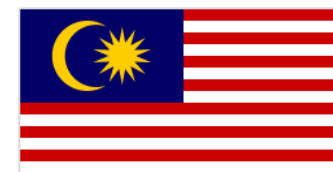
[Yokohama Head Office]

2-1, Suehiro-cho, Tsurumi-ku,
Yokohama 230-8611, JAPAN

[Tokyo Head Office]

Hibiya Kokusai Building,
2-2-3 Uchisaiwaicho,
Chiyoda-ku, Tokyo 100-0011, Japan

 [Web Site : JFE Engineering Corporation](http://www.jfe-engineering.com)



[MALAYSIA]

JFE Engineering (M) Sdn. Bhd.

Suite 9.01 & 9.02, 9th Floor, Menara JH
No. 282, Jalan Raja Laut,
50350 Kuala Lumpur, MALAYSIA
TEL : +60-3-2202-7272
FAX : +60-3-2202-8363

 [Web Site : JFE Engineering Malaysia](http://www.jfe-engineering.com)

