



January ,2025

Waste-to-Energy -Waste Management & Energy Recovery for the Philippines

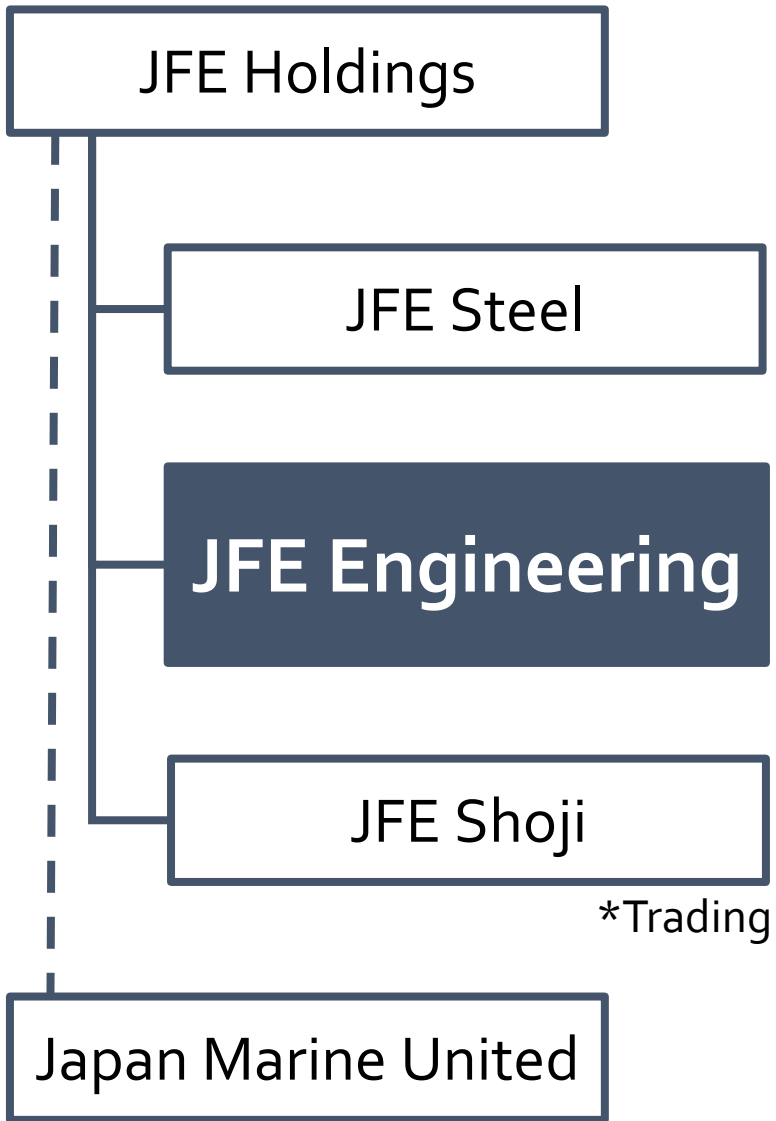


JFE Engineering Corporation



JFE Engineering Corporation at a glance

JFE for sustainable cities and communities



Power Producer and Supplier Business

7.7%

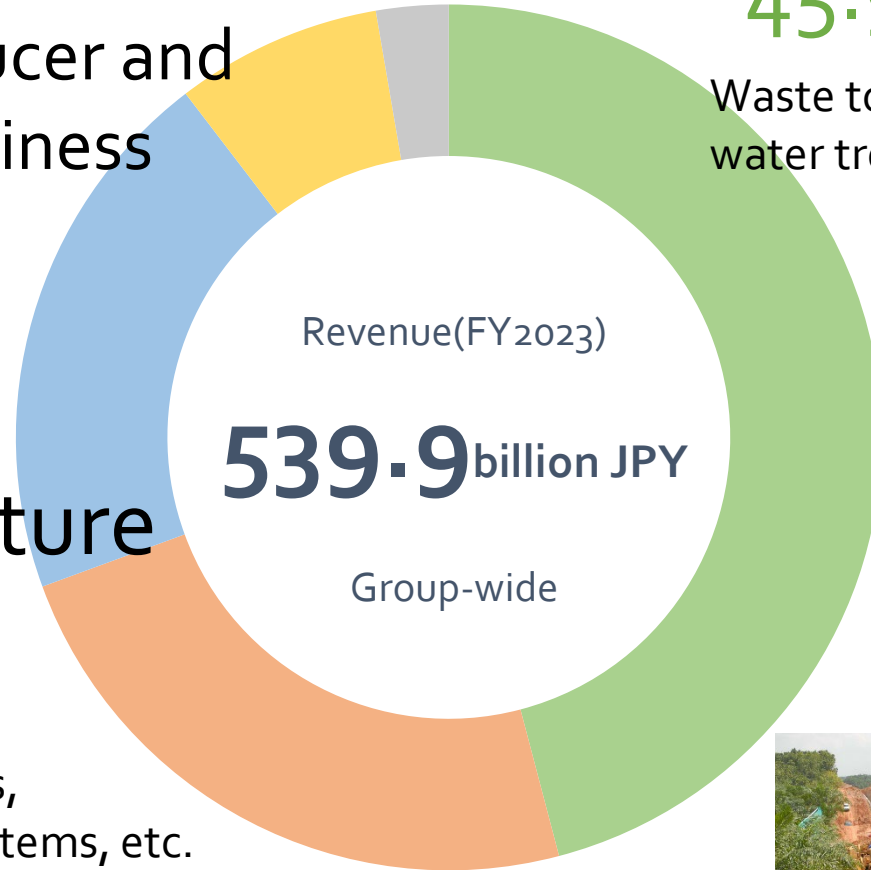
Infrastructure

20.2%

Bridges, port and harbor facilities, cranes, logistics systems, etc.



Others 2.7%



Environment

45.9%

Waste to energy plants, water treatment plants, etc.



Energy

23.5%

LNG terminal, pipelines, renewable energy, etc.



■ For the people of the Philippines



Subic-Clark-Tarlac Expressway



Tarayan Wastewater Treatment Plant



Parañaque Wastewater Treatment Plant



La Mesa Water Treatment Plant¹



Camana Wastewater Treatment Plant





Global experience of Waste-to-Energy

Waste to Energy Reference



75 EUROPE



Japan



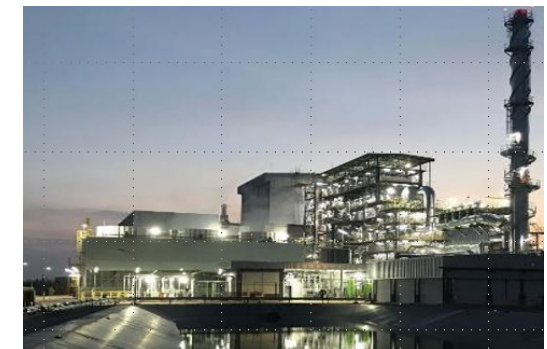
Technology Provider/EPC
over **184** Plants since 1968

O&M

Maintenance over **120** Plants
Operation over **100** Plants

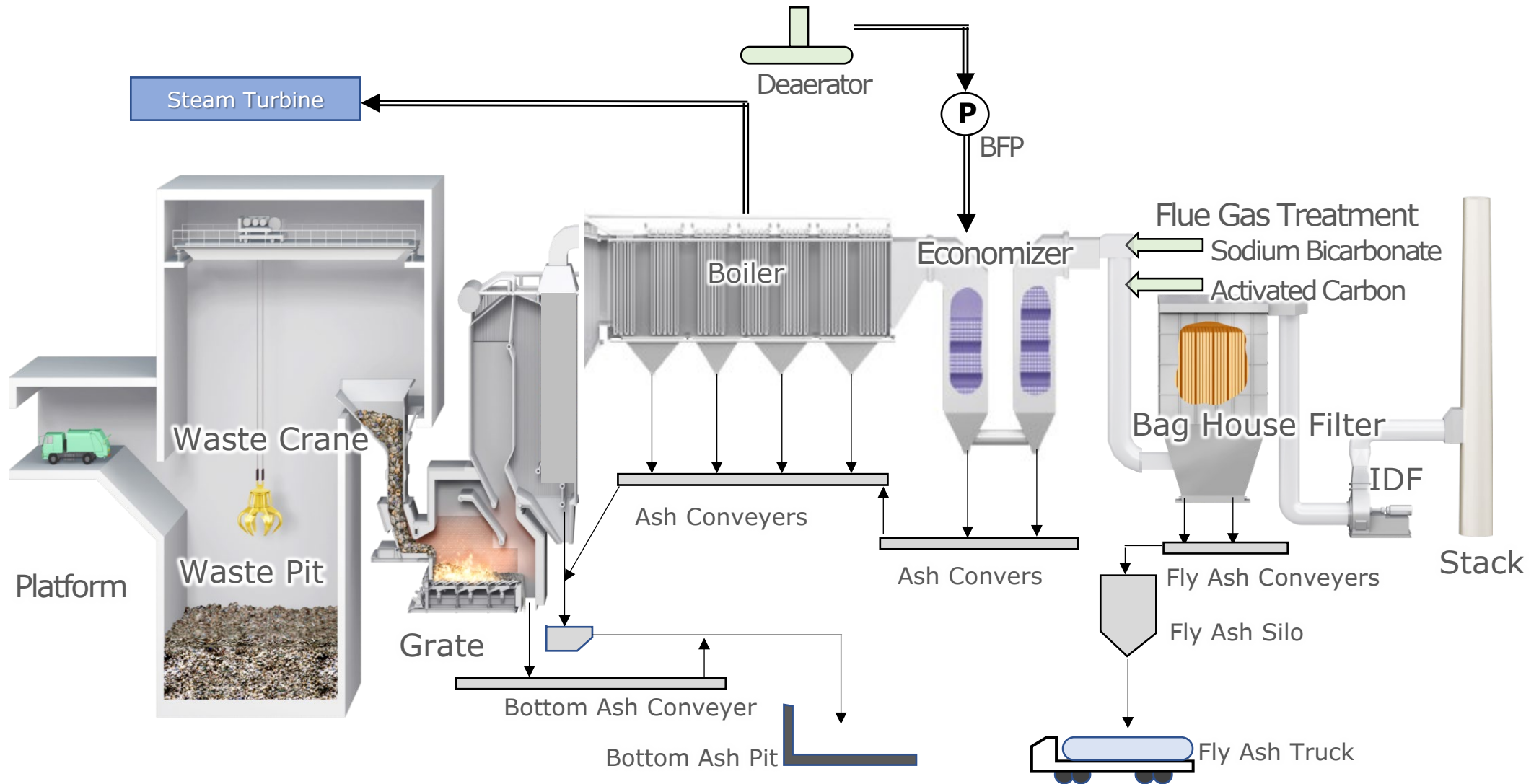
ASIA

10



JFE's Grate Firing Technology

- Conventional and Reliable for *Municipal Solid waste*



“Overall Package” approach to WtE project



EPC

- Appropriate designing & costing
- Establishing ideal construction team



O&M

- Maximizing Operation Days
- Planning appropriate maintenance



 J&T Recycling Corporation
JFE

Investment

- Business Planning
- Financing
- EPC
- Operation & Maintenance
- Total Project Management





Waste to Energy project in Bac Ninh Province

[Expected GHG Emission Reductions] 41,805 tCO₂/year (average)

[Capacity] 500 ton/day (MSW+ISW), 11.6 MW



Ministry of the Environment

JCM subsidy



Equity(55%)



Equity(45%)



IFC Loan
+ Finland-IFC Blended
Finance for Climate Program



Ready to participate in WTE project in the Philippines

Progress of discussion for PPP agreement (no clear progress)



JCM Model project

investment

LGUs

PPP

Waste supply with Tipping fee

SPC <WTE>

PPA

Electricity purchaser



Electricity sales price is crucial Key factor to develop a WTE project.

Difficulty in finding out "off-taker" to make WTE (direct combustion) project happen.



Just For the Earth