



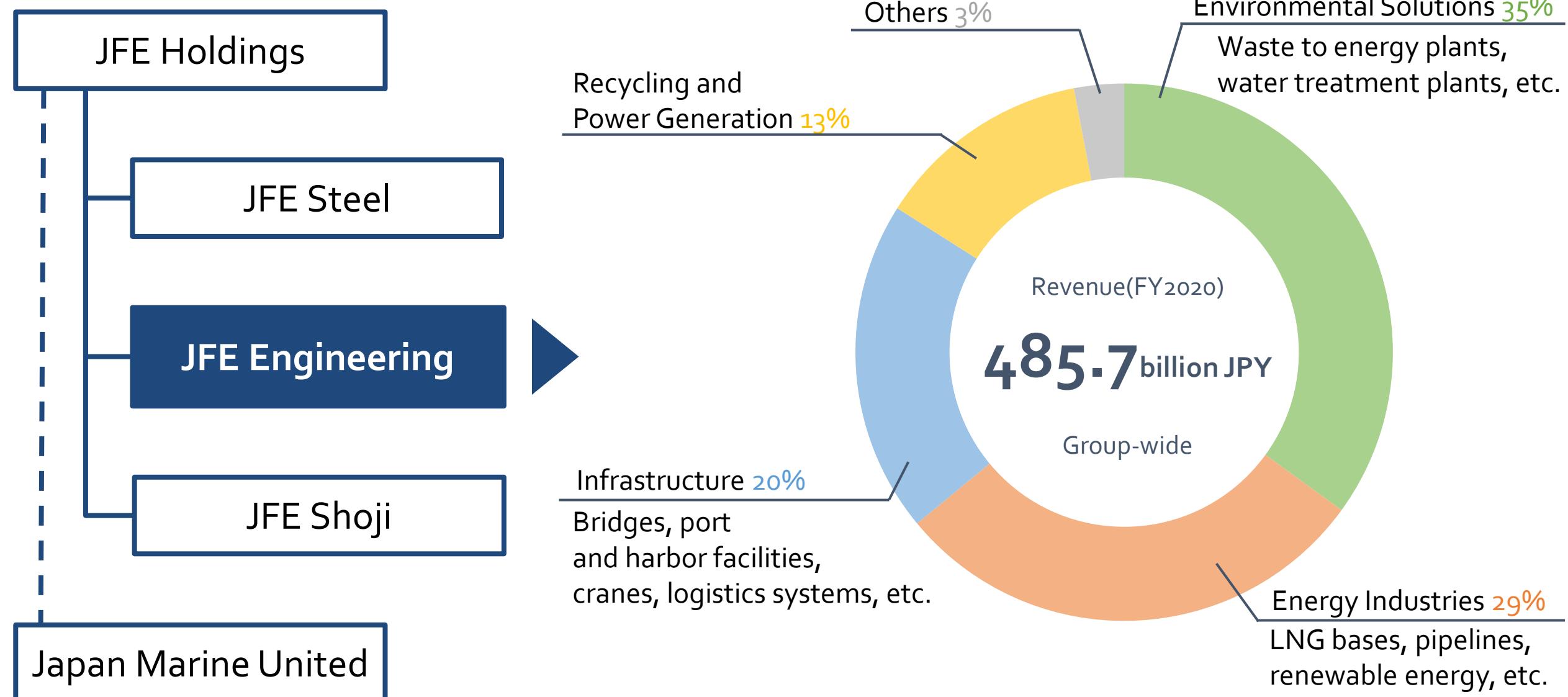
27<sup>th</sup> October, 2021

To achieve our Carbon neutral society



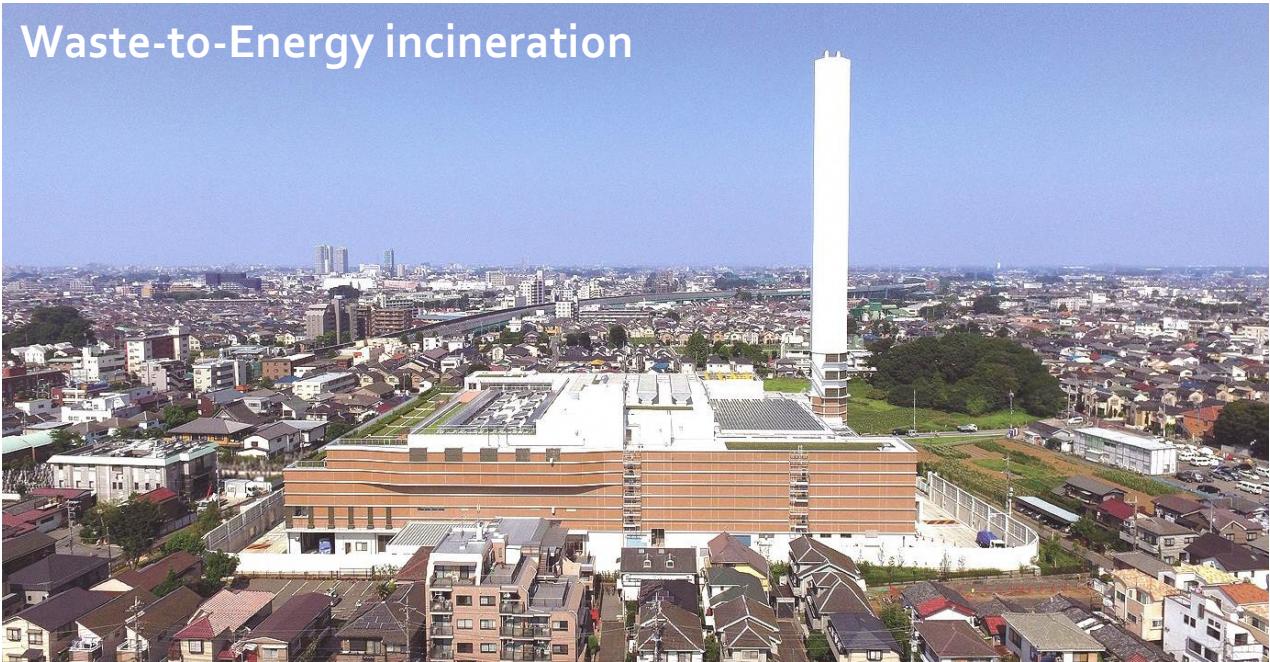
JFE Engineering Corporation  
Just For the Earth

# JFE for sustainable cities and communities



# Environment solutions

Waste-to-Energy incineration



Wastewater treatment



Waste heat recovery

# Renewable energy

Biomass



Solar



Wind



Geothermal

## ■ Yangon Waste to Energy plant (JCM Registered Project )

[Expected GHG Emission Reductions] **4,067 tCO<sub>2</sub>/year (average)**

[Location] Shwe Pyi Thar Township, Yangon City

[Project participant (Myanmar)] Yangon City Development Committee

[Project participant (Japan)] JFE Engineering Corporation

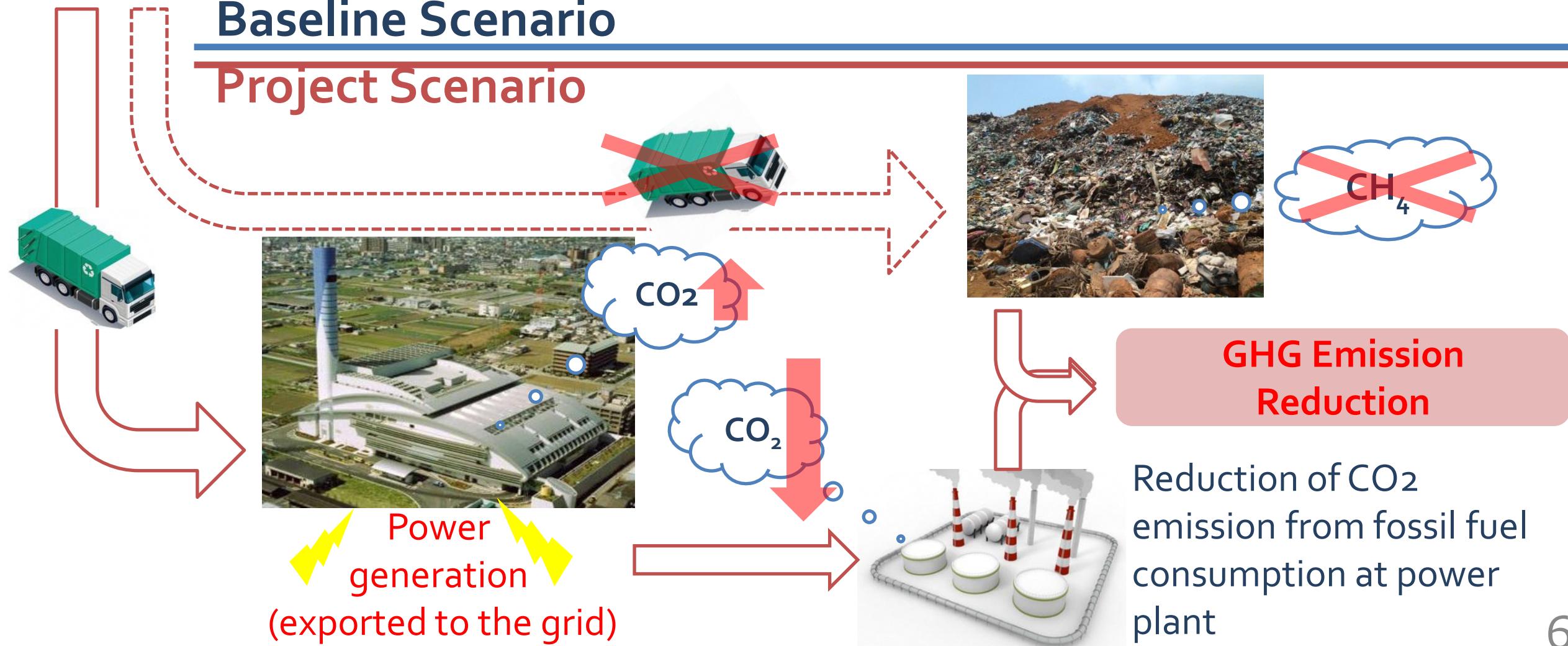




## Baseline Scenario

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## Project Scenario



— 01 Jun. 2017 Starting date of project operation

— 16 Jan. 2020 Registration of the project

### Estimated emission reductions in each year

**-1,933 (in 2017)**

**-1,853 (in 2018)**

**262 (in 2019)**

**1,833 (in 2020)**

**3,030 (in 2021)**

**3,970 (in 2022)**

**4,728 (in 2023)**

**5,359 (in 2024)**

**5,897 (in 2025)**

**6,367 (in 2026)**

**6,785 (in 2027)**

**7,163 (in 2028)**

**7,509 (in 2029)**

**7,829 (in 2030)**

— Expected operational lifetime of project: 15 years

### Reference emissions

Decomposition of waste at a SWDS*	CH <sub>4</sub>
Electricity generation	CO <sub>2</sub>

### Project emissions

Combustion of fossil carbon contained in waste	CO <sub>2</sub>
Incineration of waste	N <sub>2</sub> O
Electricity use by the project facility	CO <sub>2</sub>
Consumption of auxiliary fossil fuels needed to be added into incinerator	CO <sub>2</sub>

### Monitoring parameters

- ✓ Quantity of MSW fed into incinerator (wet basis)
- ✓ Quantity of electricity generated by the project facility
- ✓ Quantity of electricity consumed by the project facility
- ✓ Quantity of auxiliary fossil fuel consumed

# ■ Waste to Energy project in Bac Ninh Province

*Selected as a JCM Model Projects in FY2021 (1st Selection)*

Image



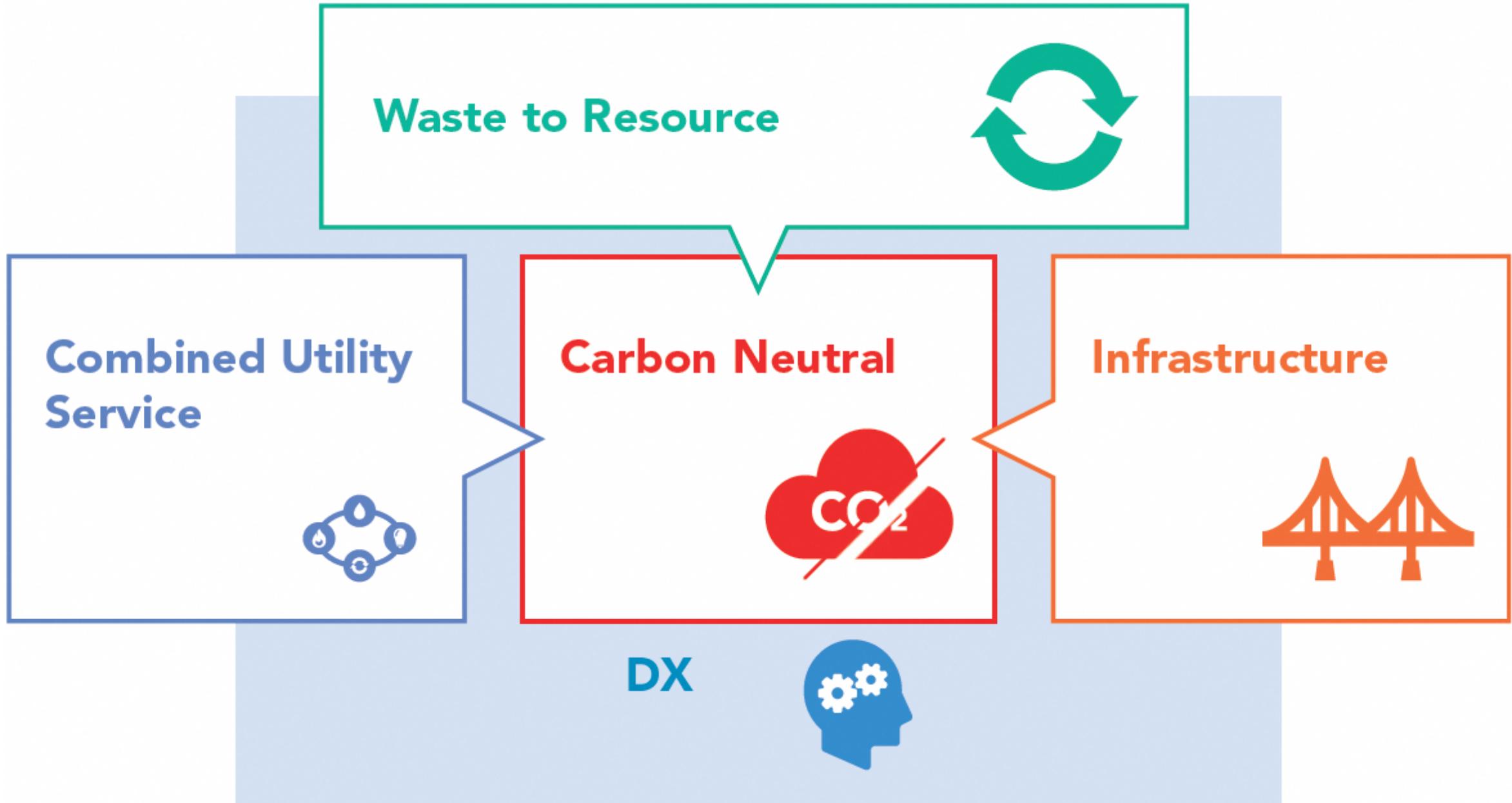
[Expected GHG Emission Reductions] **41,805 tCO<sub>2</sub>/year (average)**

[Location] Bac Ninh province, Vietnam

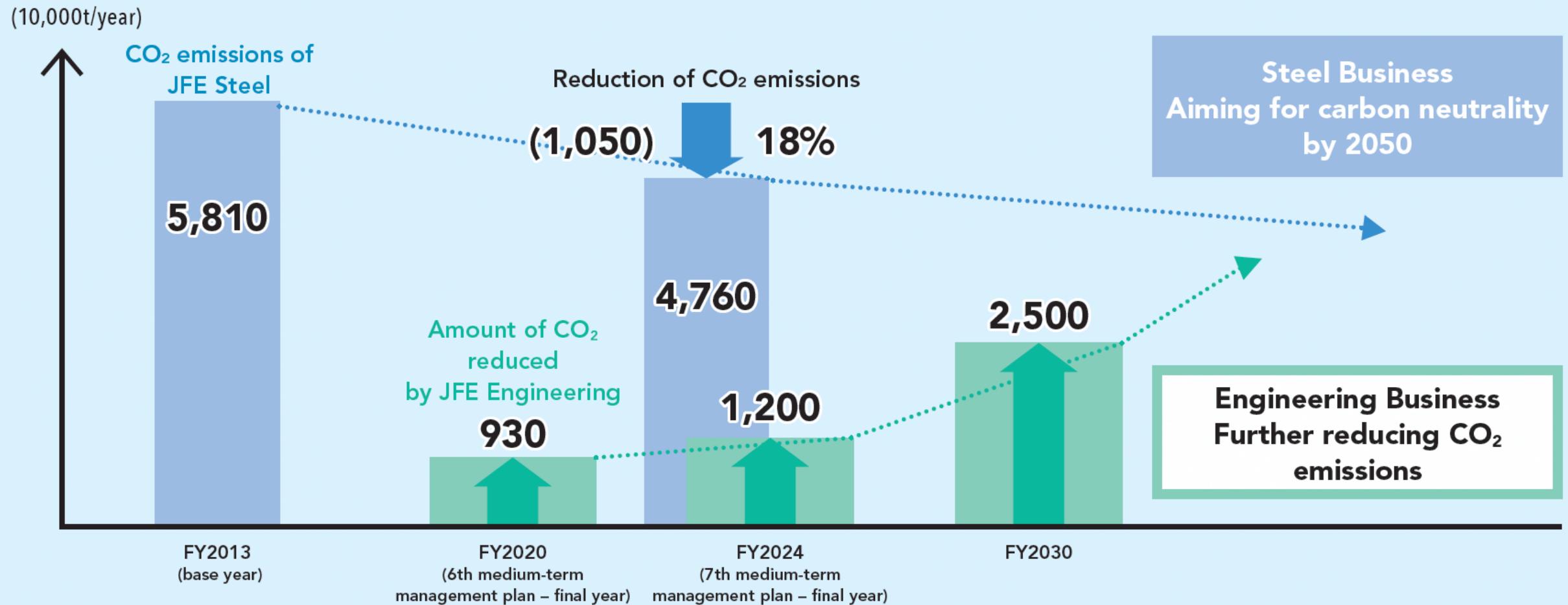
[Project participant (Vietnam)] T&J Green Energy Company Limited

[Project participant (Japan)] JFE Engineering Corporation

# ■ Five Initiatives for 2030 - Focusing on the Circular Economy



# ■ Initiatives in Carbon Neutrality (JFE Group Environmental Vision for 2050)



[https://www.jfe-eng.co.jp/en/360\\_jfe\\_engineering/](https://www.jfe-eng.co.jp/en/360_jfe_engineering/)



Yokohama HQ



# Just For the Earth



6  
CLEAN WATER  
AND SANITATION



7  
AFFORDABLE AND  
CLEAN ENERGY



9  
INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



11  
SUSTAINABLE CITIES  
AND COMMUNITIES



12  
RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



13  
CLIMATE ACTION



14  
LIFE BELOW WATER

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