MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

A decarbonized and sustainable Africa with Mitsubishi Heavy Industries Group

2022/08/28

MITSUBISHI HEAVY INDUSTRIES

Mitsubishi Heavy Industries Group at a Glance

1884 Foundation
over 130 years history

78,486 Employees
(Consolidated)

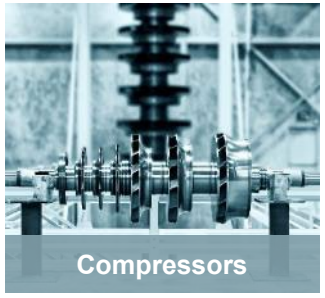
256 Group Companies
(Consolidated)

¥3.9TN ($35BN*) Revenue
(FY2021, consolidated)

Diverse **products**
On land, at sea, in the sky, in space

Note: The U.S. dollar revenue figure was converted from Japanese yen using the FY2021 average exchange rate, JPY 111.6/USD.


Gas turbines


Compressors


Aero engines

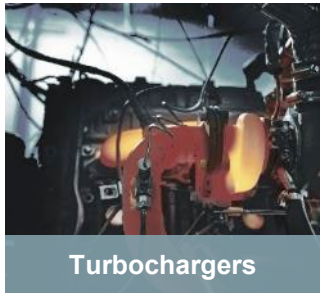

CO_2 capture plants

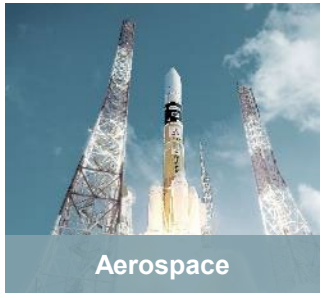

Metals machinery

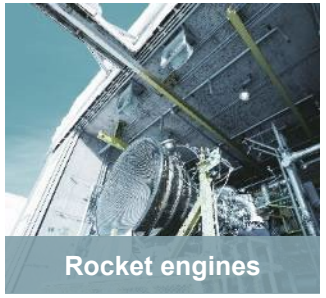

Chemical plants


Transportation


Waste-to-energy


Turbochargers


Aerospace


Rocket engines

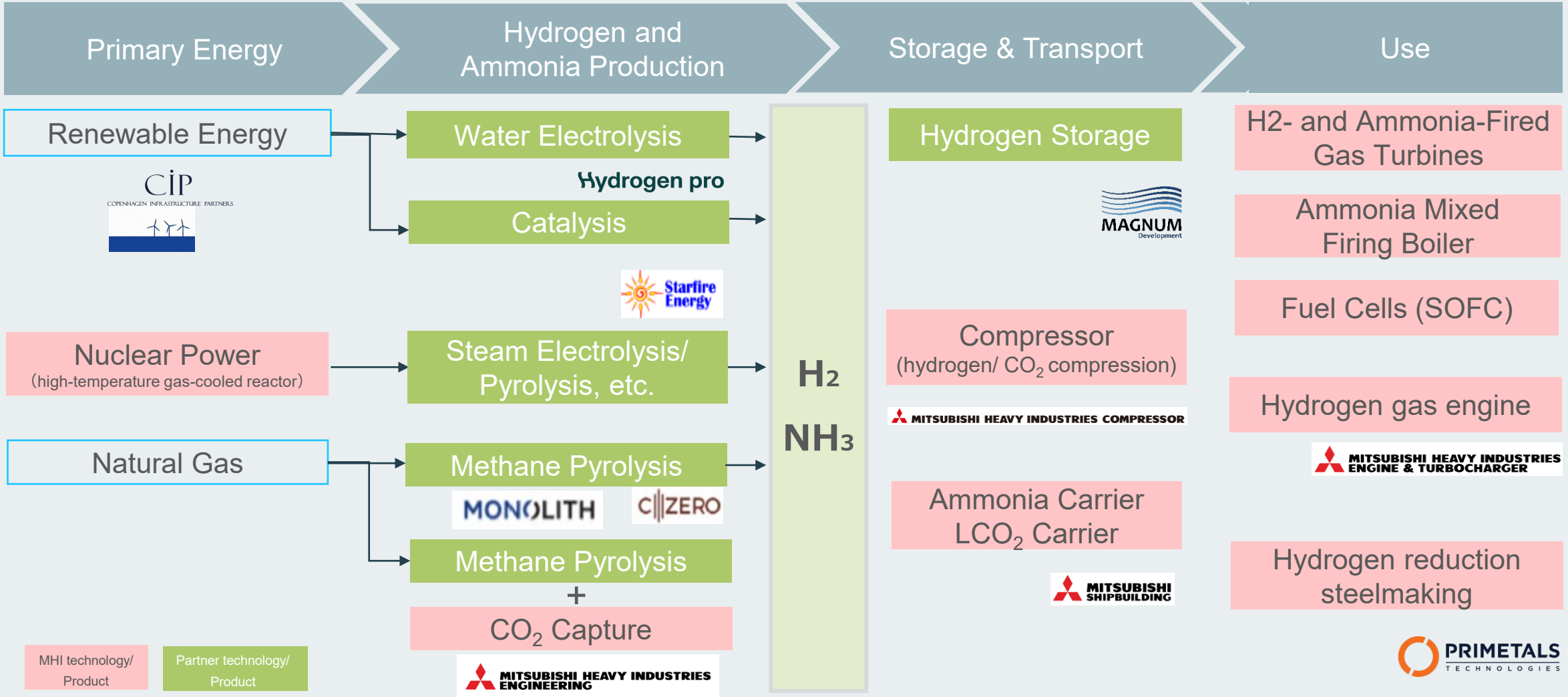

Defense

MHI Group Sustainability Initiatives

MHI Group aims to achieve a 50% reduction of CO_2 emission by 2030 and Net Zero by 2040 across MHI's value chain

MHI Group approach to a Hydrogen

MHI Group is creating a value chain through our unique technologies and active partnerships with innovative companies



MHI Group approach to CCUS Value Chain

MHI Group is helping to establish a robust value chain by offering a wide variety of CCUS-related technologies

Example: Fertilizer plant

For Stable Growth in Africa

MHI Group has been responding to Africa's growing power demand and stable food supply through highly advanced technologies

Tunisia

Gas-fired Power plant (Rades-C)
(Just started operation in June 2022)

Kenya

Geothermal Power Plant

KenGen's 105MW Olkaria II Geothermal Power Plant.
Source: Kenya Electricity Generating Company (KenGen) PLC.

Egypt

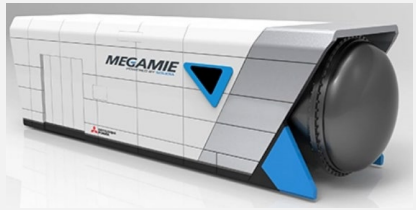
Gas-fired Power plant
(Cairo North)

Growing together with Africa

MHI Group is a solution technology provider for sustainable development of Africa

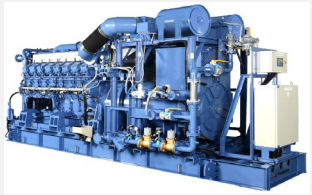
Energy

Solid Oxide Fuel Cells



Organic Rankine Cycle

Engine



"EBLOX"
Triple Hybrid
Power Generation System

Industrial and Urban

Logistics & e-commerce
(Forklift Trucks) (Box Making Machine)

MITSUBISHI FORKLIFT TRUCKS
CAT Lift Trucks
TCM
UNICARRIERS

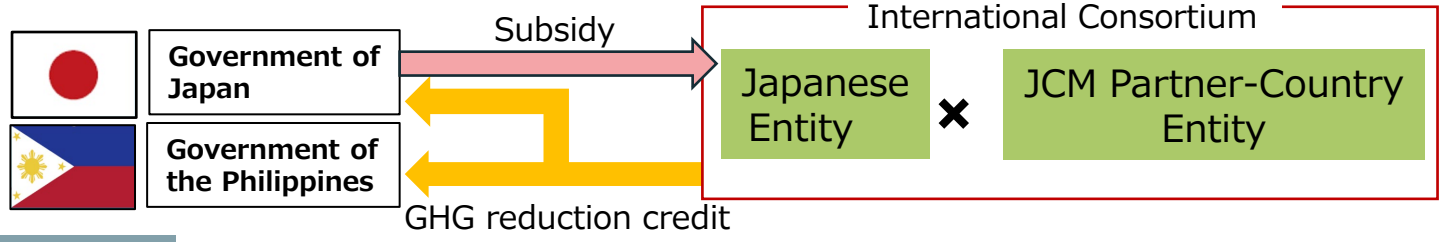
Data Center

※Under developing

Transportation

Binary Power Plant Project in Philippines by support of JCM

JCM (Joint Credit Mechanism) is a financing support from Government of Japan.



ORC system by Turboden

Project Outline

✓**29 MW Palayan binary geothermal power plant** with the Organic Rankine Cycle (ORC) system to the existing 120MW flash type geothermal power plant owned and operated by Bac-Man Geothermal Inc.

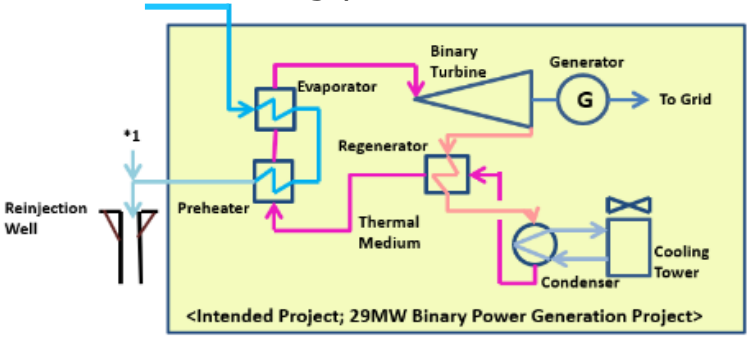
✓ Effectively use exhausted hot water of low enthalpy from the existing flash geothermal power plant without exploring new geothermal well and producing hazardous gasses.

✓ Replaces the grid power produced by fossil fuel with renewable energy.

✓ Expected GHG Reduction: 72,200 tCO_2/Year, Expected COD: April 2023

System Configurations

Exhausted hot water from the existing plant

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