

Clean Dispatchable Power with CCS

EPRI – DOE Workshop:

Reducing Data Center Carbon Footprint with CCS


Palo Alto, CA

July 9 – 10, 2025

Mike Fowler, Vice President, Business Development, Engineered Systems Division

Mitsubishi Heavy Industries America, Inc.


Mitsubishi Heavy Industries Group Profile



1884


Foundation

140 years history



Diverse Products


on Land, at Sea, in the Sky, in Space



77,000

Employees


(Consolidated)



250+

Group Companies


(Consolidated)



28.0 bil. USD

Revenue

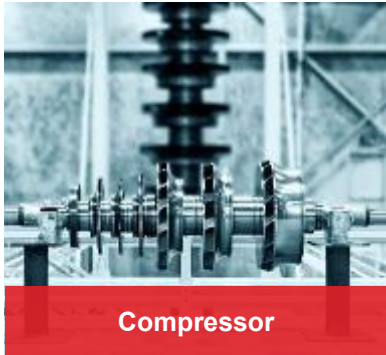
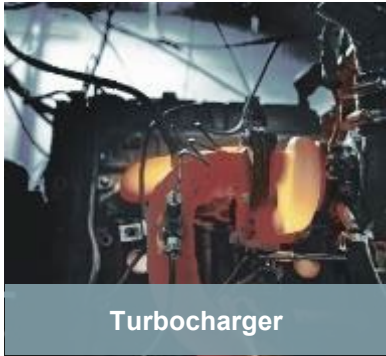
(FY2023, Consolidated)



41.7 bil. USD Assets

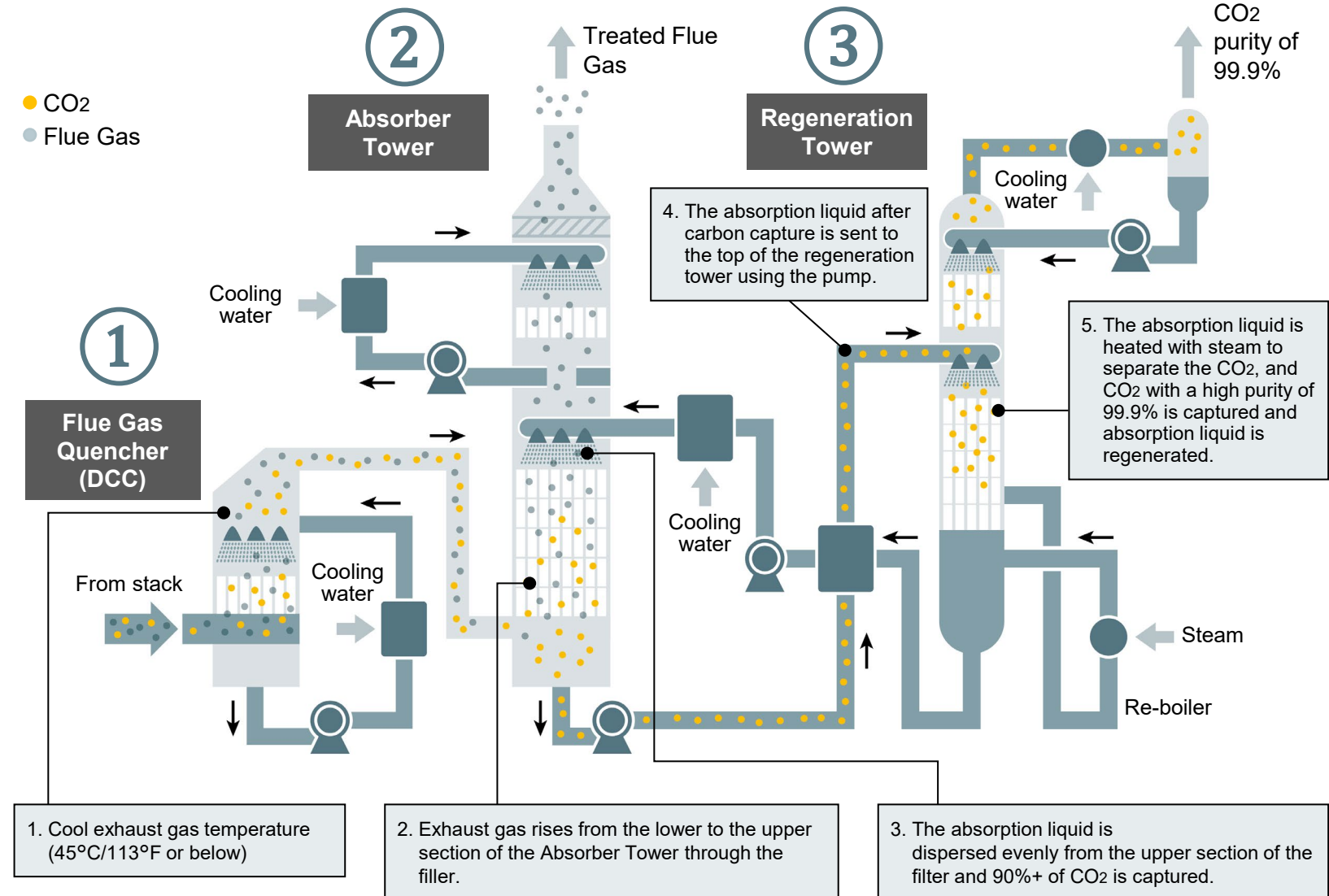
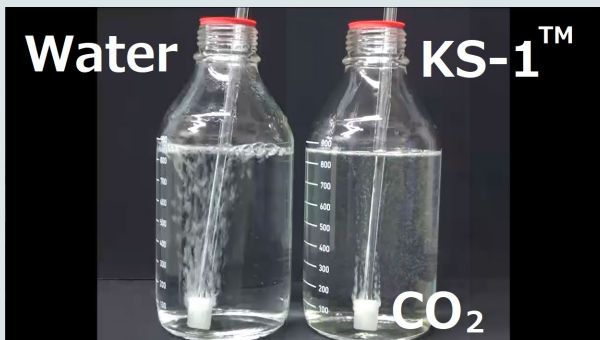
(FY2023, Consolidated)

(150JPY/USD)

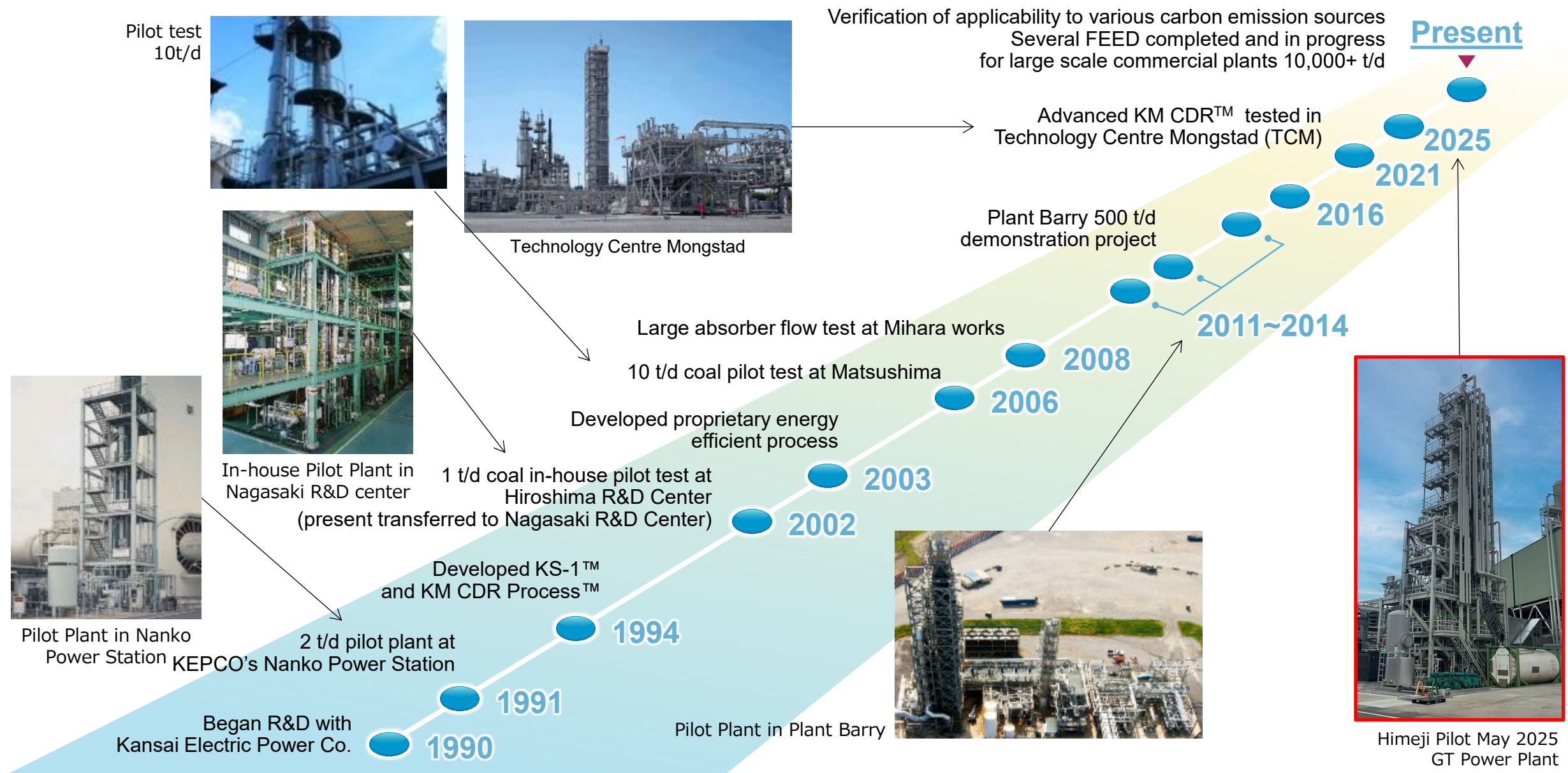


KM CDR Process™

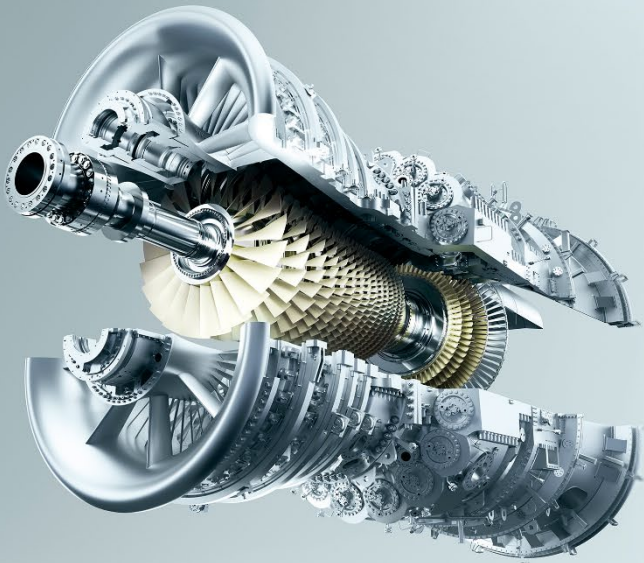
- KM CDR Process™ = **Kansai Mitsubishi Carbon Dioxide Recovery Process**
- Amine-based technology
- Proprietary solvent; **KS-1™ / KS-21™**
- Capable of capturing 95+% CO₂ from combustion gas (depending on source)
- An industry-leading carbon capture rate **99.8%** was achieved under modified operating conditions (then absorber outlet CO₂ % is lower than CO₂ content in air)



MHI History of Carbon Capture Technology Development



J-Class Experience Exceeds
2,700,000 Operating Hours



75
Units in Commercial
Operation

153
Units Ordered

62
Units Exceeding 8,000
Hours

*Data as of December 2024

MHI has been enhancing our capabilities
to capture CO₂ for more than 30 years



1	1999 Malaysia 210 Mt/d	10	2012 India (Vijaipur) 450 Mt/d
2	2005 Japan 330 Mt/d	11	2014 Qatar 500 Mt/d
3	2006 India (Aonla) 450 Mt/d	12	2016 USA (Petra Nova) 4,776 Mt/d
4	2006 India (Phulpur) 450 Mt/d	13	2017 Japan 283 Mt/d
5	2009 India (Kakinada) 450 Mt/d	14	2022 Japan 0.3 Mt/d
6	2009 Bahrain 450 Mt/d	15	2022 Russia 1,200 Mt/d
7	2010 UAE 400 Mt/d	16	2023 Japan 0.3 Mt/d
8	2010 Vietnam 240 Mt/d	17	2024 Bangladesh 240 Mt/d
9	2011 Pakistan 340 Mt/d	18	2024 Italy 89 Mt/d

Commercial Deployment of the KM CDR Process™

Plant handed over

Plant under construction

Customer Pilot Plant

