

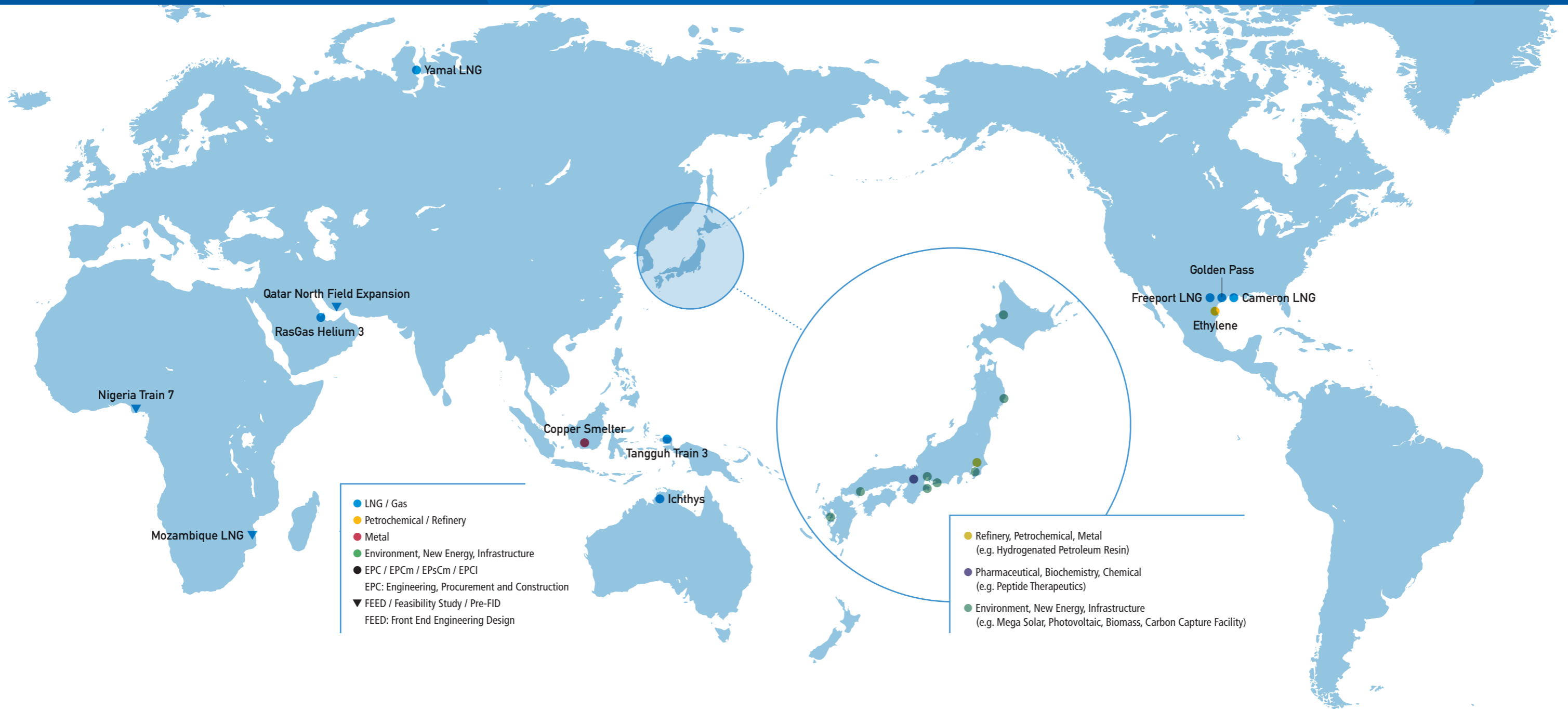
# INVESTOR'S BRIEF 2019

Mirai Engineering

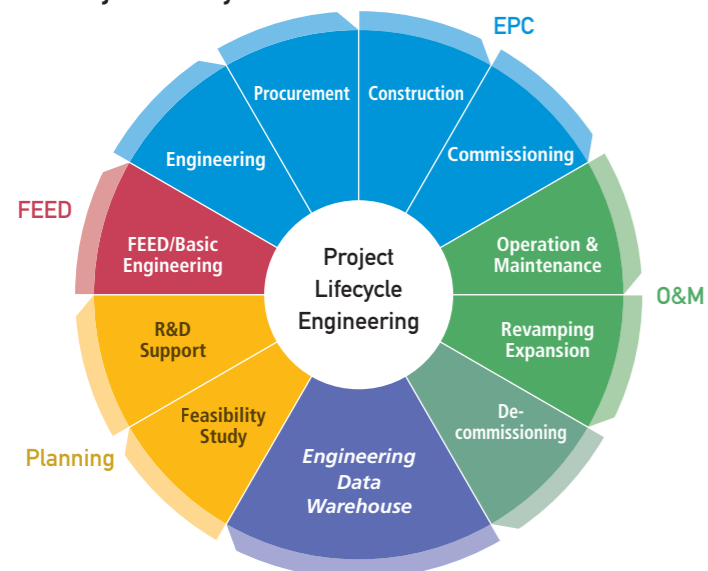
Chiyoda Corporation, one of the world-leading engineering companies, has wide-ranging business interests in fields such as energy, chemicals, petrochemicals, pharmaceuticals, environmental technology, social infrastructure and industrial facilities. Since its founding in 1948, Chiyoda has built various LNG plants and executed numerous projects in over 60 countries around the world.



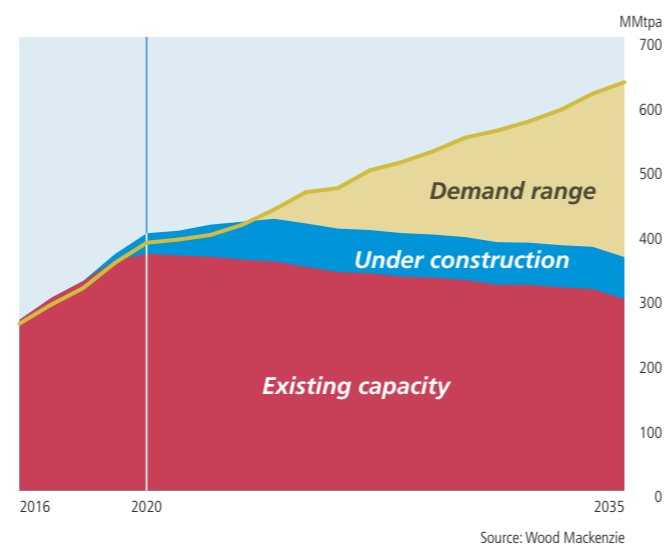
# Major Projects Under Execution



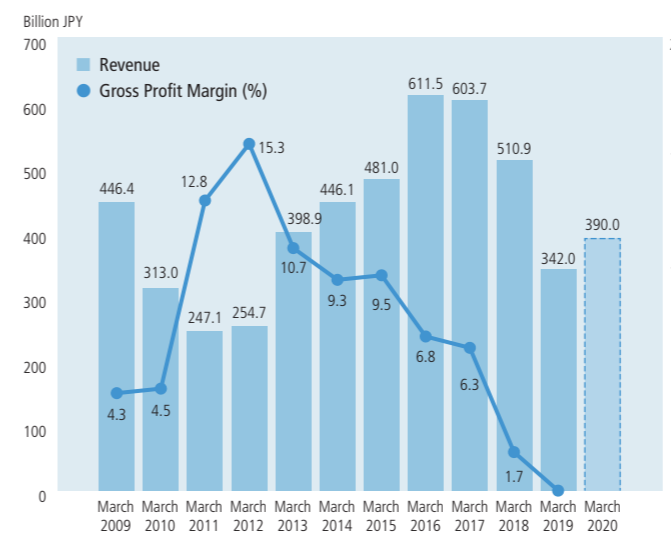
## Project Lifecycle



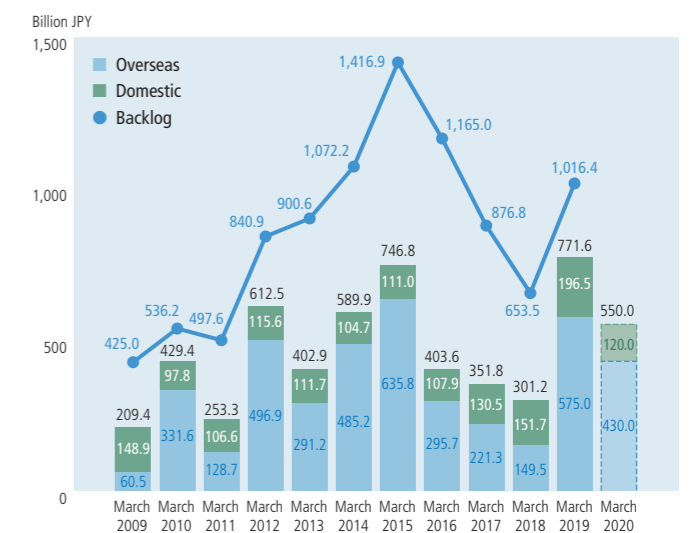
## LNG Demand / Supply Outlook



## Revenue & Gross Profit Margin



## New Order & Backlog



## AI Solution

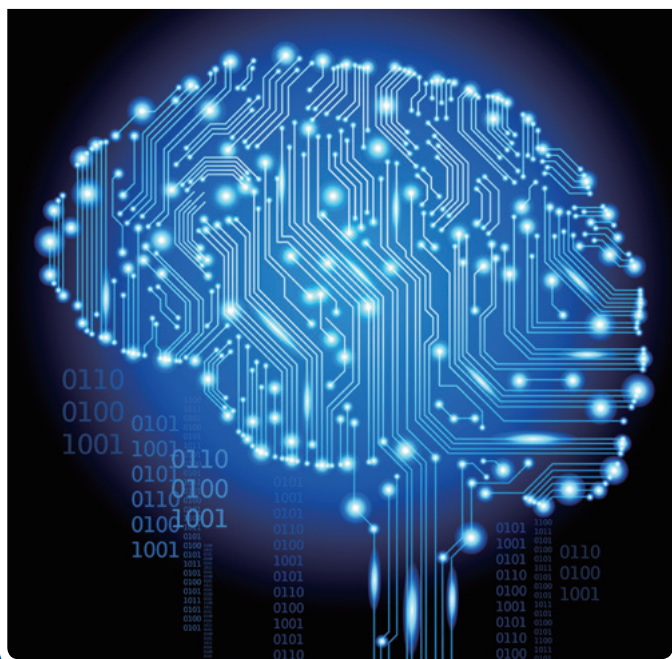
Chiyoda utilizes state-of-the-art AI technologies, not only to provide new services to customers, but also to further advance its engineering technologies and project execution and management abilities, which have already been deemed highly reliable by customers.

With the aim of optimizing plant operation and maintenance and improving production efficiency, Chiyoda started business development in the digital technology innovation field and accelerating digital strategy by providing AI/big data engineering services in addition to conventional consulting services.

Both plant engineering technologies and EPC experience are key, as well as our core competences of analyzing big data and providing clients with optimum proposals using AI predictions. Through new business developments using AI, Chiyoda contributes to clients by improving plant availability, maximizing asset value and increasing profits.



For more information please visit our website.  
<https://www.chiyodacorp.com/en/service/ai/>



## Hydrogen Supply Business

Chiyoda, along with several partners, established the Advanced Hydrogen Energy Chain Association for Technology Development "AHEAD" and launched the world's first Global Hydrogen Supply Chain Demonstration Project. In 2020, AHEAD will transport liquid hydrogen from Brunei Darussalam to Japan at an ambient temperature and pressure using Chiyoda's SPERA Hydrogen® technology.



SPERA HYDROGEN



### Hydrogenation Plant (Brunei Darussalam)

In the supply country, hydrogen, chemically fixed to toluene, is converted into methylcyclohexane (MCH) by hydrogenation reaction for storage and transport.



### Dehydrogenation Plant (Kawasaki, Japan)

In the consumer country, hydrogen gas extracted from the liquid by dehydrogenation reaction will be supplied to thermal power plants.



For more information please see our SPERA video.

This project is funded by the New Energy and Industrial Technology Development Organization (NEDO) and Ministry of Economy, Trade and Industry (METI).



## CORPORATE PHILOSOPHY

Enhance our business in aiming for harmony between energy and the environment, and contribute to the sustainable development of society as an integrated engineering company through the use of our collective wisdom and painstakingly developed technology.



## Chiyoda Corporation

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Please watch our "concept movie" (2 min) using this QR code.

