3rd International Conference

1619

Energy for a New Era

hermal power

lar power

on Fuel Ammonia September 29, 2023

Battery storage

Hisahide Okuda President, Director, CEO and COO JERA Co., Inc.

JERA takes on the challenge of Zero CO₂ emissions by 2050

• JERA's mission is to provide cutting-edge solutions to the world's energy issues.

The Three Approaches of JERA Zero CO2 Emissions 2050

JELA



¹ JERA Zero CO₂ Emissions 2050 is premised on the continual development of decarbonization technology, economic rationality, and consistency with government policy. JERA is continuing to develop original decarbonization technologies and is taking the initiative to ensure economic rationality.

JERA Environmental Target 2035

JERA aims to reduce CO2 emissions from our operations in Japan by at least 60%* by 2035 through the following:

(relative to FY 2013)

- > JERA strives to develop and adopt renewable energy.
- > JERA works to reduce carbon emission intensity from thermal power generation by hydrogen and ammonia.

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JERA's Zero Emission Technologies' Development Timeline

- Demonstration of 20% ammonia power generation will start in FY2023 at Hekinan Power Plant.
 Demonstration of over 50% substitution to ammonia will be conducted by FY2028 at Hekinan and other Power Plants.
- Commercial operation will start after the construction of the facilities for full operations.



Jera

Leading the early building ammonia supply chains



Hydrogen/Ammonia Supply Chain

- Several large-scale hydrogen/Ammonia production projects from renewable energy and natural gas are being developed around the world.
- Ammonia is expected to be used as a hydrogen energy carrier and Ammonia cracking technology is developed for supplying hydrogen around the world.



JEIA

