Third Hydrogen Energy Ministerial Meeting



SPERA HYDROGEN FOR THE FUTURE



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Masaji Santo President & COO Chiyoda Corporation October 14, 2020



Global hydrogen supply chain demonstration project

The world's first global hydrogen supply chain

connecting Brunei Darussalam and Japan

has been realized, this year, 2020

Transportation

Dehydrogenation

Power Generation



Hydrogenation plant, Brunei Darussalam



Dehydrogenation

Power Generation



SPERA Hydrogen is transported by ISO tank containers

Transportation

Dehydrogenation

Power Generation



using a commercial container vessel

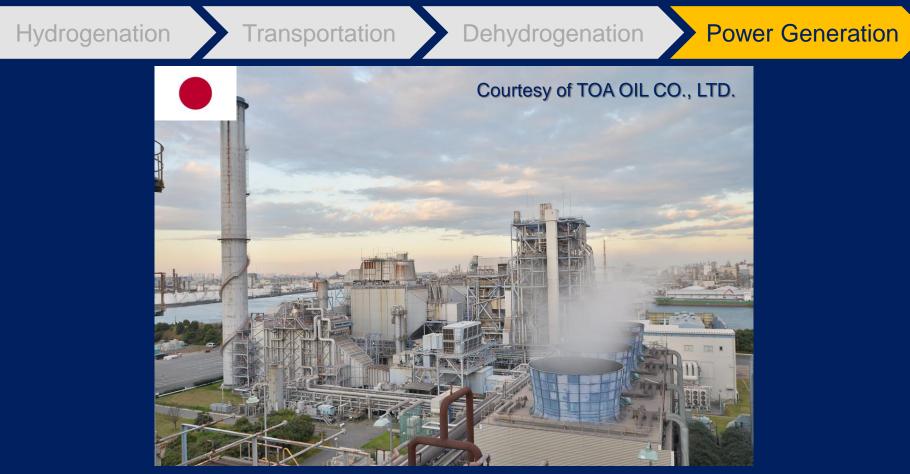
Transportation

Dehydrogenation

Power Generation



Dehydrogenation plant, Japan



Hydrogen is supplied to the gas turbines as a hydrogen-powered fuel

*Technology Development for the Realization of a Hydrogen Society: Project supported by NEDO, executed by AHEAD

Key Features of SPERA Hydrogen Technology

Liquid at ambient conditions

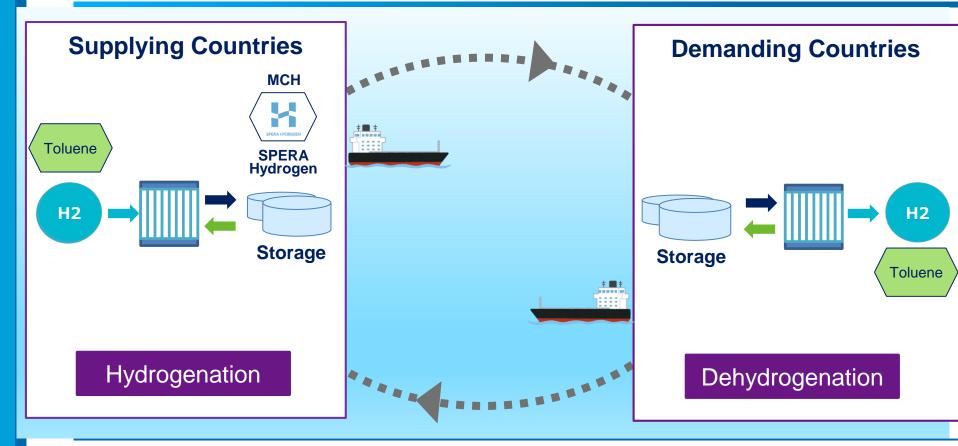
Safe and chemically stable

Able to use existing infrastructure (Oil tank, chemical tanker, etc.)

Competitive hydrogen can be supplied
Early implementation possible



SPERA Hydrogen System





Advancing a sustainable future towards Hydrogen Society





Changing energy into

"HOPE (SPERA)"

towards a Sustainable Society

SPERA HYDROGEN®

FOR THE FUTURE

Acknowledgements



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