

Membrane Technology for Carbon Neutrality

NGK Europe GmbH

Executive Director

Koichi Ito

¹ Company Overview



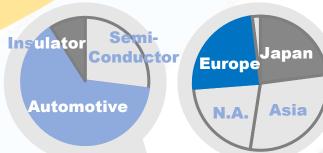






















to become

NGK

A Company to contribute to

Carbon Neutrality

& Digital Society with unique **Ceramic Technologies**

BORSIG to join NGK Group

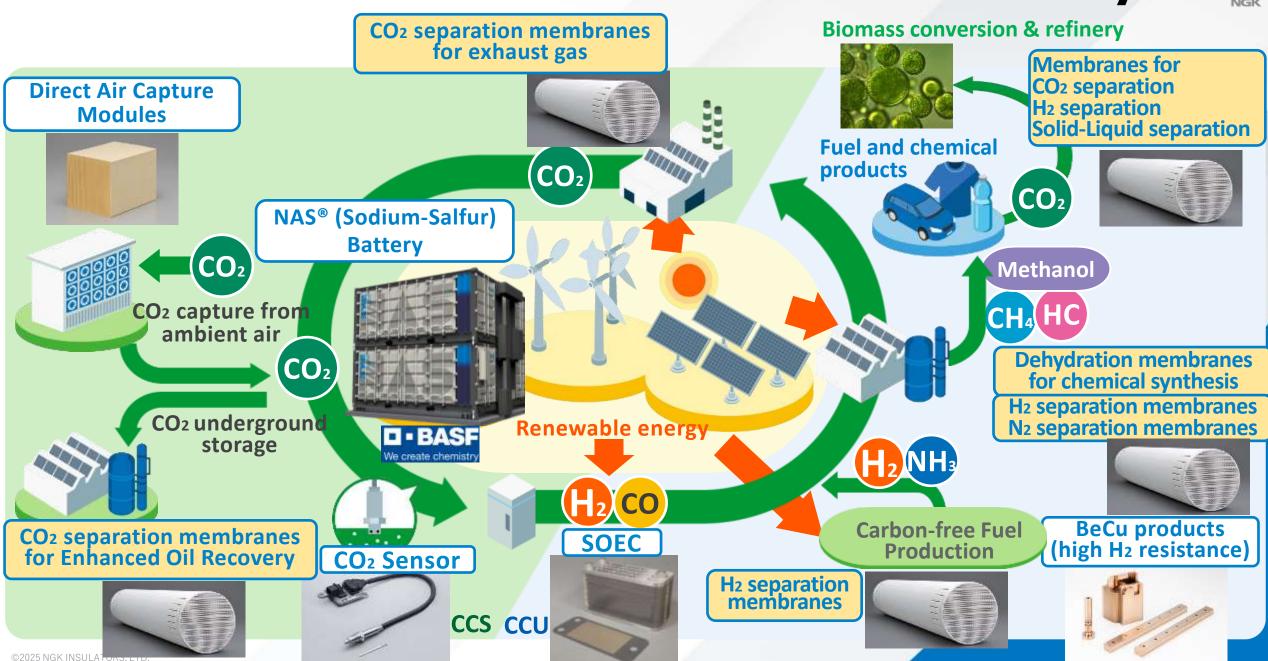




Founded in 1919 HQ in Nagoya, Japan €3.78bio Net Sales 20,000 Employees 47 Companies

Initiatives towards Carbon Neutrality

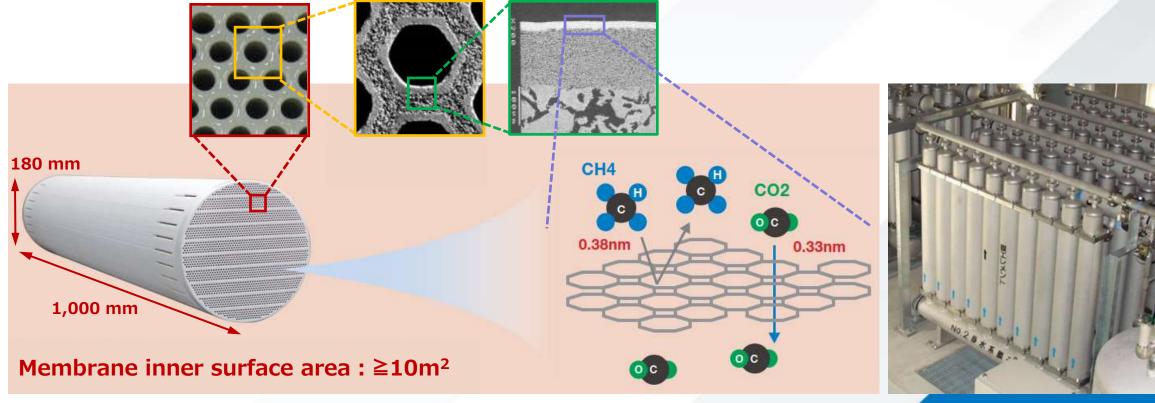




Sub-nano Ceramic Membrane



- > Uniform pores under 1-nanometer enable molecular-level separation.
- > Only NGK can make big monolith with low defect ratios and high throughput.
- ➤ Membrane separation: Most energy efficient.
- > Ceramic: Highly durable under pressure, resistant to head and corrosion.



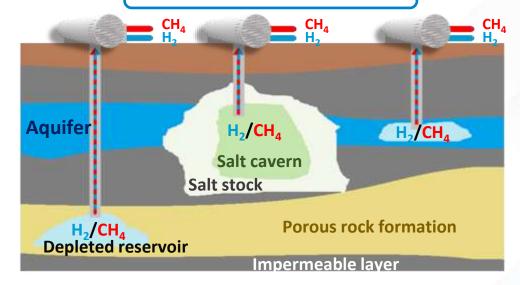


Solutions for Carbon Neutrality

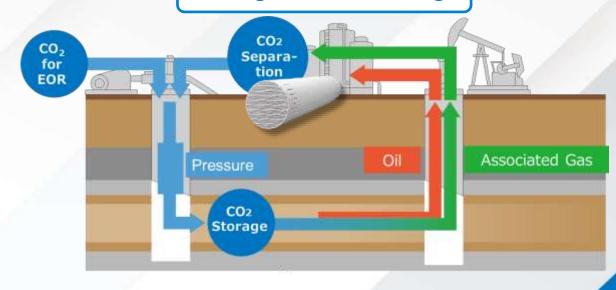


Terrific Separation Performance by High Selectivity!

Underground H2 Storage



Underground CO₂ Storage



H2 Blending in NG Pipelines



BLENDING



Pervaporation Dehydration



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Surprising Ceramics.





NGK Europe



Sub-nano Ceramic Membranes



NAS® Batteries

NGK Europe GmbH

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