E-fuels as opportunity to transport Chile's wind to Europe

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New Energy Business, Siemens Energy

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HYLAND, 1.Fachworkshop

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How to harvest one of the best wind locations worldwide?

1 Fraunhofer IEE – Windmonitor: ca. 1800 FLH in 2018

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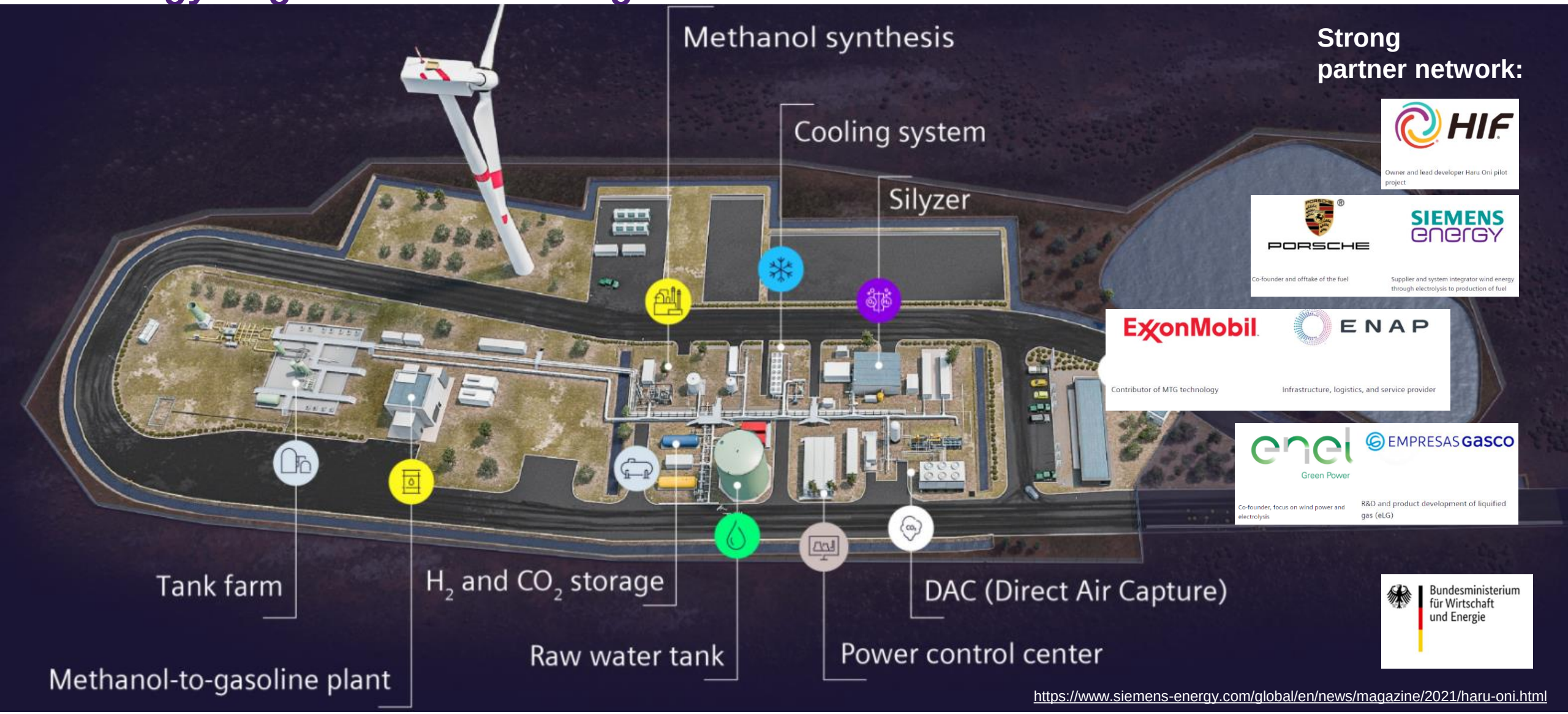
Project Haru Oni in Chile: the full value chain from wind energy to green methanol & gasoline



Strong partner network:

HIF
Owner and lead developer Haru Oni pilot project

PORSCHE — Co-founder and offtake of the fuel

SIEMENS energy — Supplier and system integrator wind energy through electrolysis to production of fuel

ExxonMobil — Contributor of MTG technology

ENAP — Infrastructure, logistics, and service provider

enel Green Power — Co-founder, focus on wind power and electrolysis

EMPRESAS gasco — R&D and product development of liquified gas (eLG)

Bundesministerium für Wirtschaft und Energie

https://www.siemens-energy.com/global/en/news/magazine/2021/haru-oni.html

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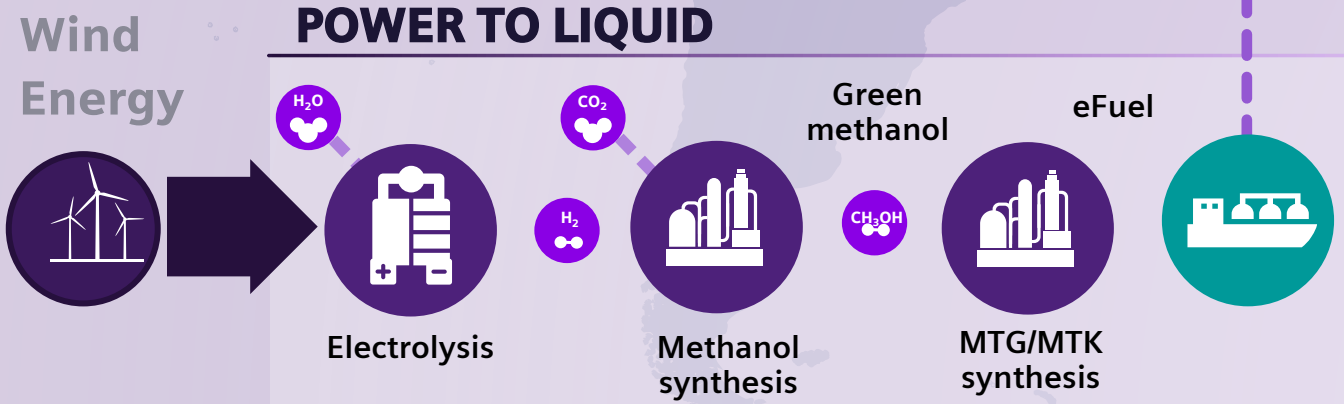
Project Haru Oni: area allows for significant scale and impact

Market

	Target applications	Wind power installation	Electrolysis capacity	CO_2 savings (ton per year)
Pilot phase until 2022	▪ e-fuel for Porsche cars	3.4 MW	1.25 MW	~900
1st phase until 2024	▪ e-fuel (road) ▪ e-kerosene (aviation) ▪ e-methanol (ship)	280 MW	175 MW	~0.15 million
2nd phase until 2026	▪ e-fuel (road) ▪ e-kerosene (aviation) ▪ e-methanol (ship)	**~2.5 GW**	**~2 GW**	**~1.7 million**



Sep 10, 2021
Construction begins on world's first integrated commercial plant

https://www.siemens-energy.com/global/en/news/magazine/2021/haru-oni.html

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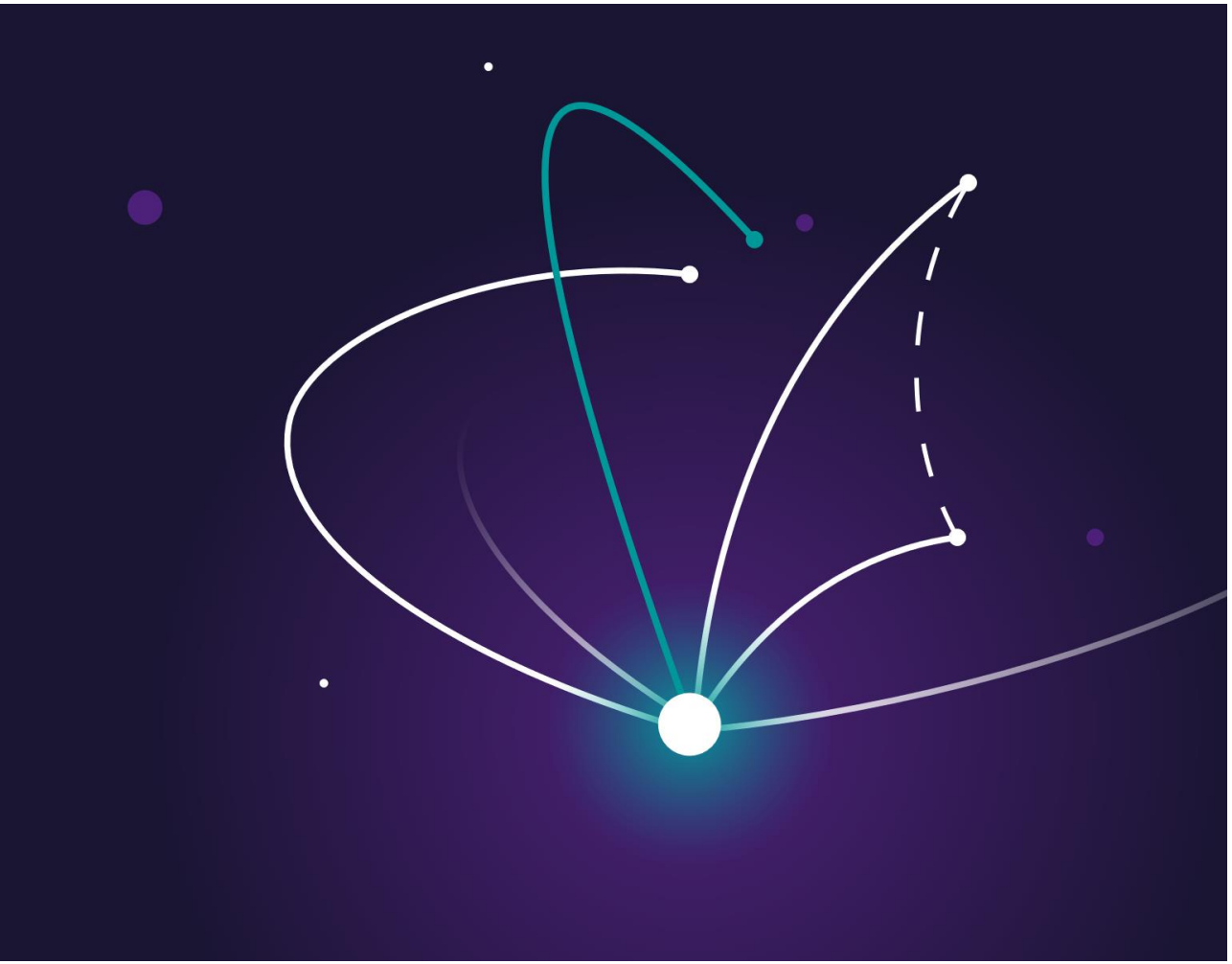
Silyzer 300
Impression from the pilot plant in Linz

Thank you for your kind attention!



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