

# Partnerships for the hydrogen future ~with a bit of Japanese flavour~

Marubeni Europower  
CEO - Tomoki Nishino



(\* Source : Fukushima Offshore Wind Consortium)

# Who we are

## Marubeni Europower

Marubeni Europower Ltd. is a 100% subsidiary of Marubeni Corporation, operating in the United Kingdom since 1991.

## Marubeni

Founded	May 1858
Net Income (FY2021)	JPY 424.3 billion GBP 2.65 billion*1
Credit Rating	BBB+ (S&P)
Branches	132 branches 119 overseas branches
Employees	4,379, as Marubeni Group 46,100
Business Range	<ul style="list-style-type: none"><li>• Infrastructure Projects</li><li>• ICT business &amp; Logistics</li><li>• Leasing</li><li>• Mobility</li><li>• Metal, Petroleum &amp; Gas</li><li>• Food &amp; Agriculture</li><li>• Chemicals</li><li>• Aerospace &amp; Ship</li><li>• Real Estate construction</li><li>• Clothing &amp; Fashion, etc.</li></ul>

As of March 31, 2022

(\*1) Exchange rate : 160 JPY/GBP



### Renewable Energy

- Project finance and Green bond for **one of the largest solar power plant (1,177MW) in the world**



### Power Trading

- SmartestEnergy is the UK's leading company of Aggregation Business & Retail Business  
- **No.7 supply volume for retail power sale (Renewable Aggregation, Trading & Retail sale of green power)**



### Green Hydrogen

- Developing **H2 production projects in Wales and Scotland**  
- **MOU with Bridgend County Borough Council for development of H2 project in Wales**  
- **Grant on H2 production project from UK and Japan**

# ○ Case Studies : Scotland × Japan Collaboration



## ScotWind : SSER × CIP × Marubeni

- Development of up to 3.6GW floating offshore wind power with SSER and CIP
- Will provide power equivalent to 6mil households and offset around 7.5 million tonnes of harmful carbon emissions

(\*) Source : Fukushima Offshore Wind Consortium



## Glasgow × Marubeni

- Contribution to decarbonisation of Glasgow, the host city of COP26
- Will be utilising Scottish Gov. fund and Japanese Gov. fund
- Collaborating with Japanese technology (Toray, Yamanashi Hydrogen Company)

ossian

The quest for net zero  
on an epic scale

Site dimension  
**858 km<sup>2</sup>**

Homes powered up to  
**6 million**

Estimated\* carbon emissions offset up to  
**7.5 million tonnes**

Ossian wind farm

# Case Studies : Wales × Japan Collaboration



## Bridgend × Marubeni

- A model for local authority decarbonisation
- Signed a collaborative MoU with Bridgend County Borough Council
- Utilising Welsh Gov. fund and Japanese Gov. fund
- Collaborating with Japanese technology (Yokogawa)

(\* ) Artists impression for illustrative purposes only



## Industrial sector × Marubeni

- A study for decarbonisation on industries with CO2 emission challenges
- Utilising UK Gov. fund



## What's next

- Development of hydrogen supply chain in Wales
- Collaborating and utilising with Japanese funds and technologies to contribute decarbonisation in Wales



# Global Hydrogen Case Studies



## Chile × Marubeni

- Gasvalpo, a Chilean gas distribution and retail company in which Marubeni has a majority stake, began a pilot project which runs producing green hydrogen, injecting it into a natural gas grid, and distributing it to customers



## Australia × Marubeni

- Pilot project of Liquified Hydrogen carrier from Australia to Japan
- Partners are AGL Energy Limited, Kawasaki Heavy Industries, Ltd, Electric Power Development Co., Ltd., Iwatani Corporation, etc.



## Abu Dhabi × Marubeni

- A Hydrogen and SAF Production Project with Abu Dhabi Gov., Masdar, Etihad Airways, Lufthansa Group, Siemens Energy, etc.
- Utilising Japanese Gov. fund

# ○ Takeaways

- Marubeni is actively creating partnerships in various themes.
- We look forward to creating more “UK-Japan” partnership.



## With Governments

- Government co-funding (e.g. NEDO and Welsh Govt's) for green H2 project
- Partnership MOU with the Scottish Government



## With Private Companies

- ScotWind with SSER and CIP
- Japanese offshore wind with bp
- Inter-state (Australia·Japan) H2 transport project amongst Japanese consortium members



## With Academia

- Working with UK universities (Cambridge, Strathclyde, Cardiff, South Wales) on H2 and offshore wind



## Marrying the technologies

- Yokogawa's EMS with local renewables and electrolyser
- Toray's membrane into Siemens electrolyser