



# Role of the Transport sector in Japanese Climate Policy

Dr. Kotaro Kawamata  
Counsellor, Embassy of Japan in Germany

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# Japanese Climate Change Policy

“The Plan for Global Warming Countermeasures”  
by Cabinet decision in May 2016

## <Japan's GHG reductions target and goal>

- Reduction of 26.0% by FY2030 compared to FY2013
- 80% reduction by 2050 as its long-term goal

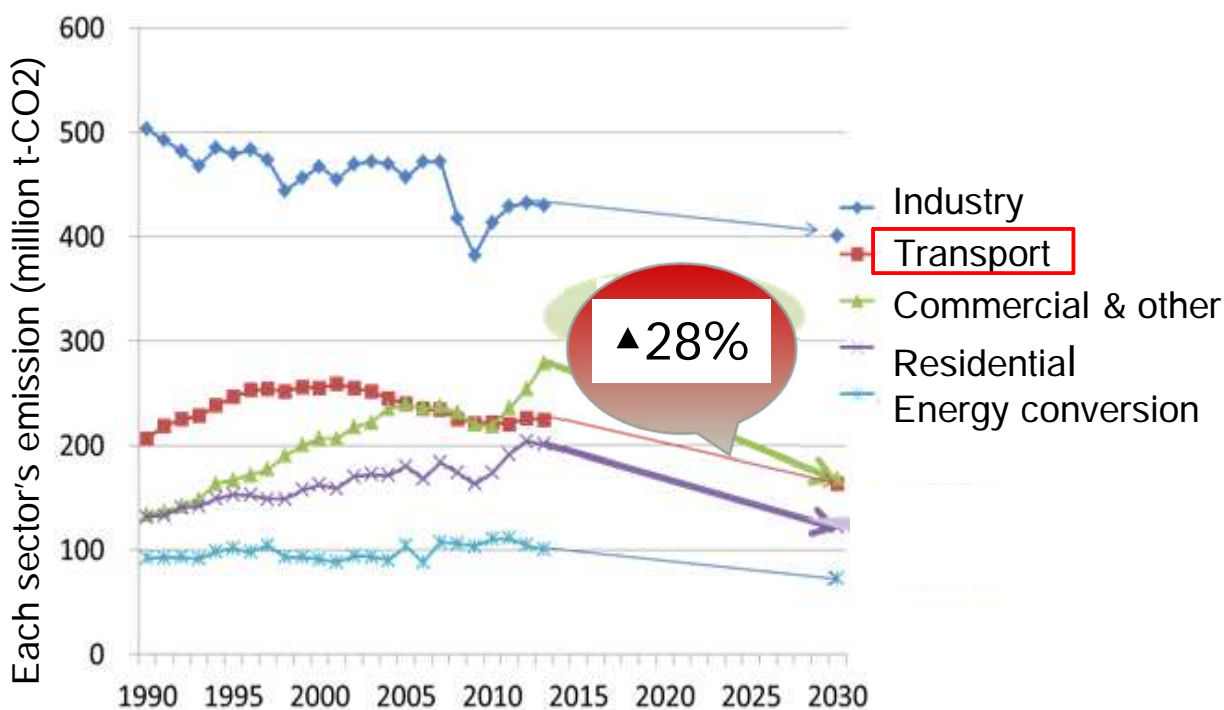
## <Progress Management of the Plan>

- Yearly progress review and revise the plan every 3 years

# Japan's GHG reduction target in each sector

- ◆ Achieve the level of a reduction of 26% by FY2030 compared to FY2013
- ◆ **Transport sector needs to be reduced by 28% by FY2030**

|   | Compared to FY2013 |
|---|--------------------|
| Energy-related CO <sub>2</sub>                  | ▲ 25. 0%           |
| Non energy-related CO <sub>2</sub>              | ▲ 6. 7%            |
| CH <sub>4</sub>                                 | ▲ 12. 3%           |
| N <sub>2</sub> O                                | ▲ 6. 1%            |
| HFCs, PFCs, SF <sub>6</sub> and NF <sub>3</sub> | ▲ 25. 1%           |
| Removals by ULUCF                               | ▲ 2. 6%            |
| <b>Greenhouse gas emission reduction</b>        | <b>▲ 26. 0%</b>    |



# Key Policies and Measures in Transport sector

## Introduction of Highly Energy-Efficient Vehicles



*Hybrid vehicles (HEV)*



*Electric vehicles (EV)*



*Fuel cell vehicles (FCV)*

### Share of next-generation vehicles in new car sales

**50 ~ 70 %** (by FY2030)

### Other measures

- Ø Promotion of public transport and modal shift
- Ø Formulate compact cities
- Ø Traffic flow improvement
- Ø Promotion of low-carbon logistics

# Vision & Strategy for Transport sector

## Long-term low carbon vision 2050 by MoEJ (Mar 2017)

- Ø Promotion of compact cities and Modal shift
- Ø Cars; EV and FCV
- Ø Autonomous driving
- Ø Car sharing

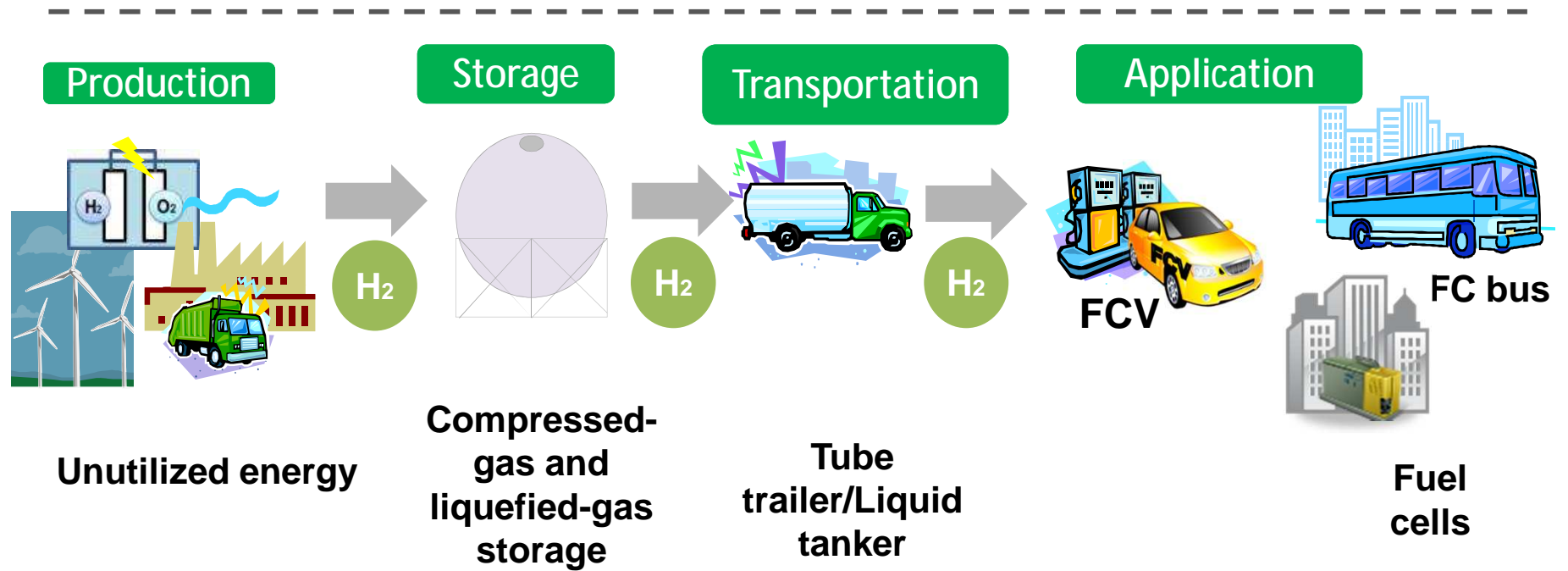


## Hydrogen society strategy by Ministerial commission (Dec 2017)

- Ø Promote various policies to establish Hydrogen society
- Ø Power to Gas
- Ø Target for FCV 40,000 by 2020 and 800,000 by 2030

# Low-Carbon Hydrogen Supply Chain Demonstration

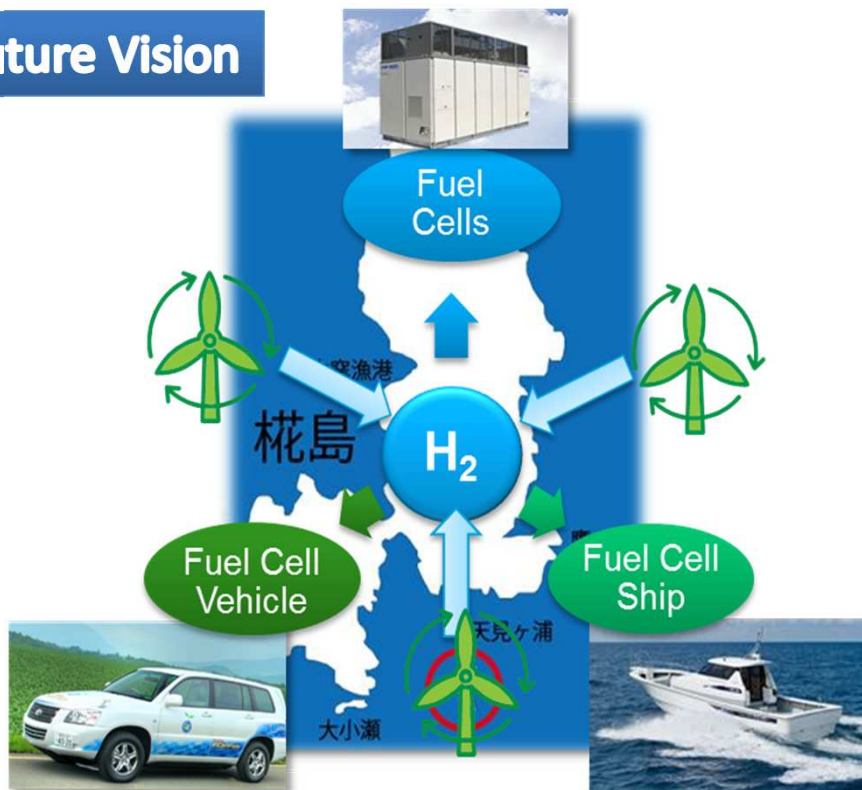
## Low-Carbon Hydrogen Supply Chain Image



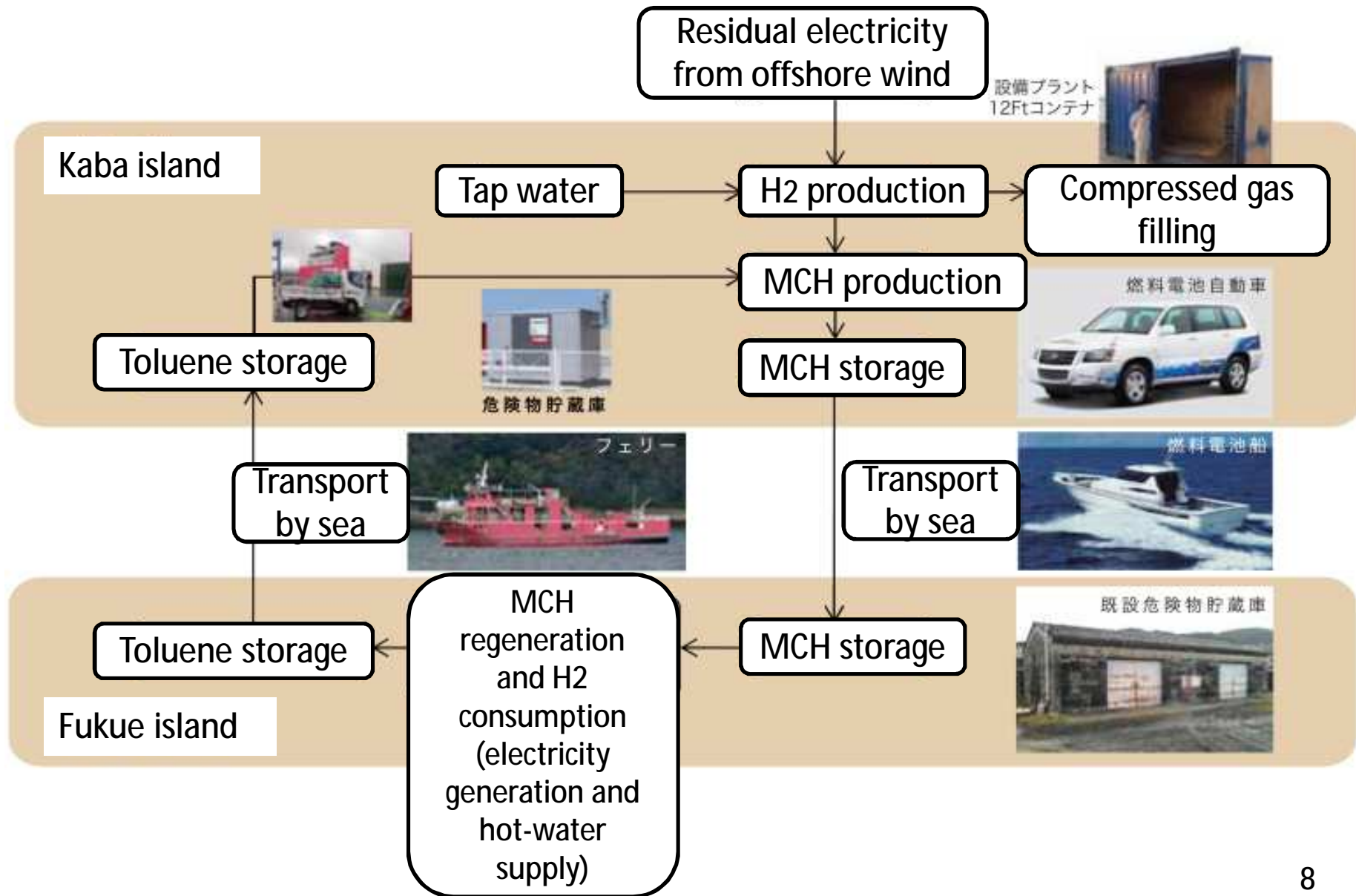
# Hydrogen supply chain project with floating offshore wind

1. First national demonstration of commercial-sized floating offshore wind (2MW)
2. Demonstration system that utilizes hydrogen produced by residual energy from it

## Future Vision



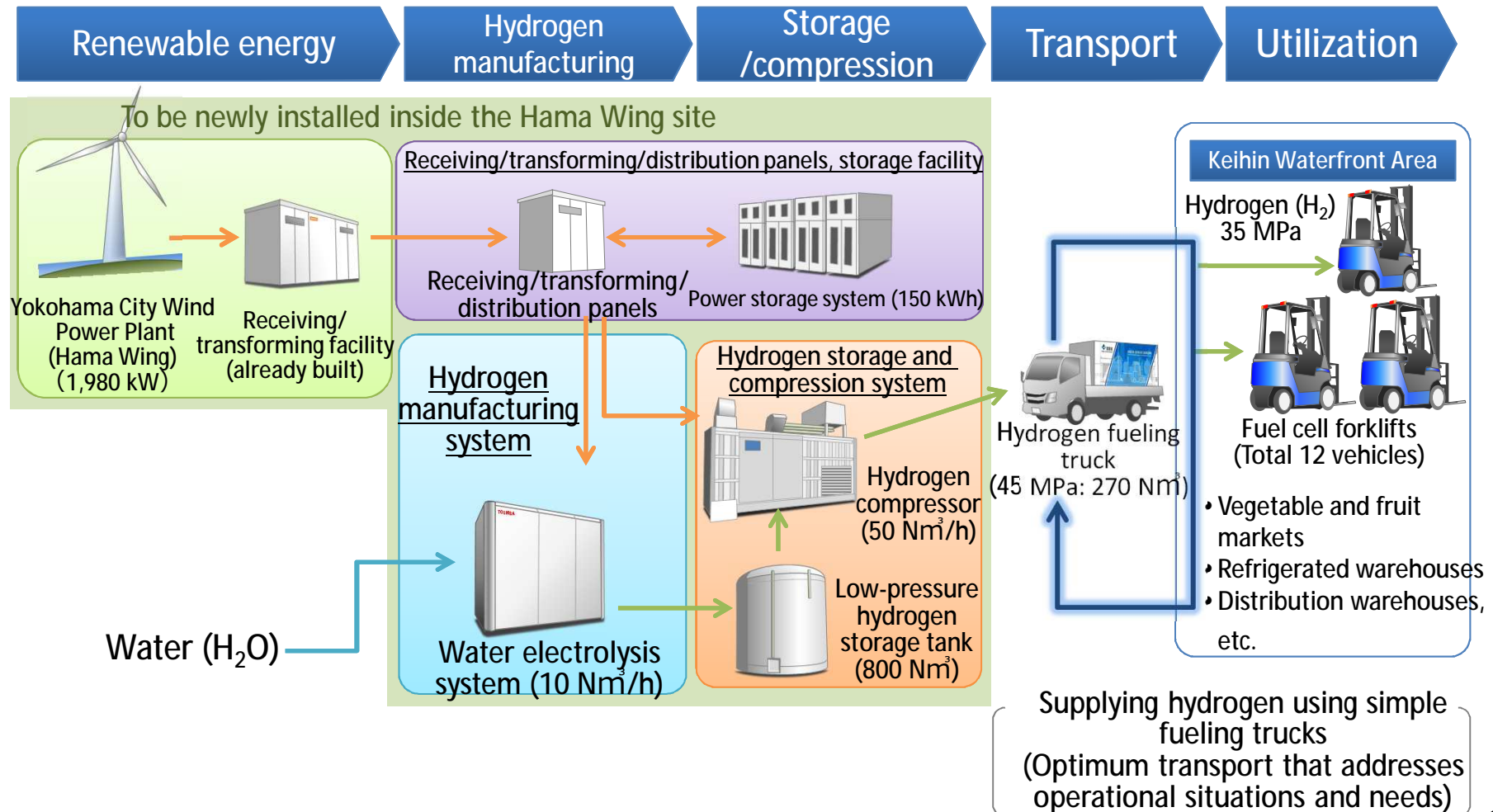
# Hydrogen supply chain project with floating offshore wind





# Toyota Project Overview with wind power

## System flow of the entire project



**Thank you for your attention!**

Contact:

[kotaro.kawamata@mofa.go.jp](mailto:kotaro.kawamata@mofa.go.jp)