

Japan's Biofuel Policy

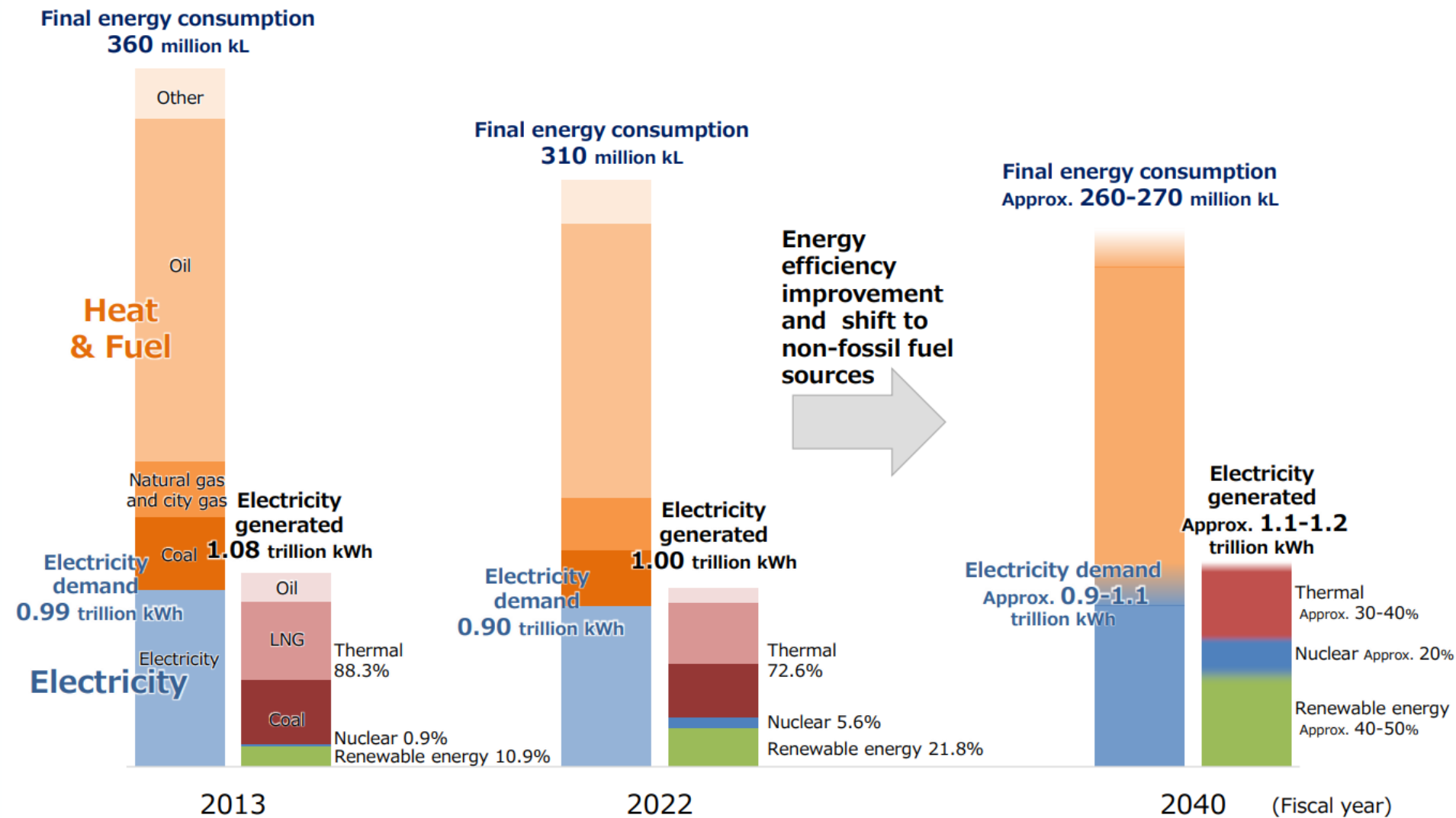
Oct. 17, 2025

Ministry of Economy, Trade and Industry, Japan

Yoshiko MAEJIMA

Outlook for Energy Supply and Demand (2040)

- Fuel continues to be essential in Japan's energy mix.

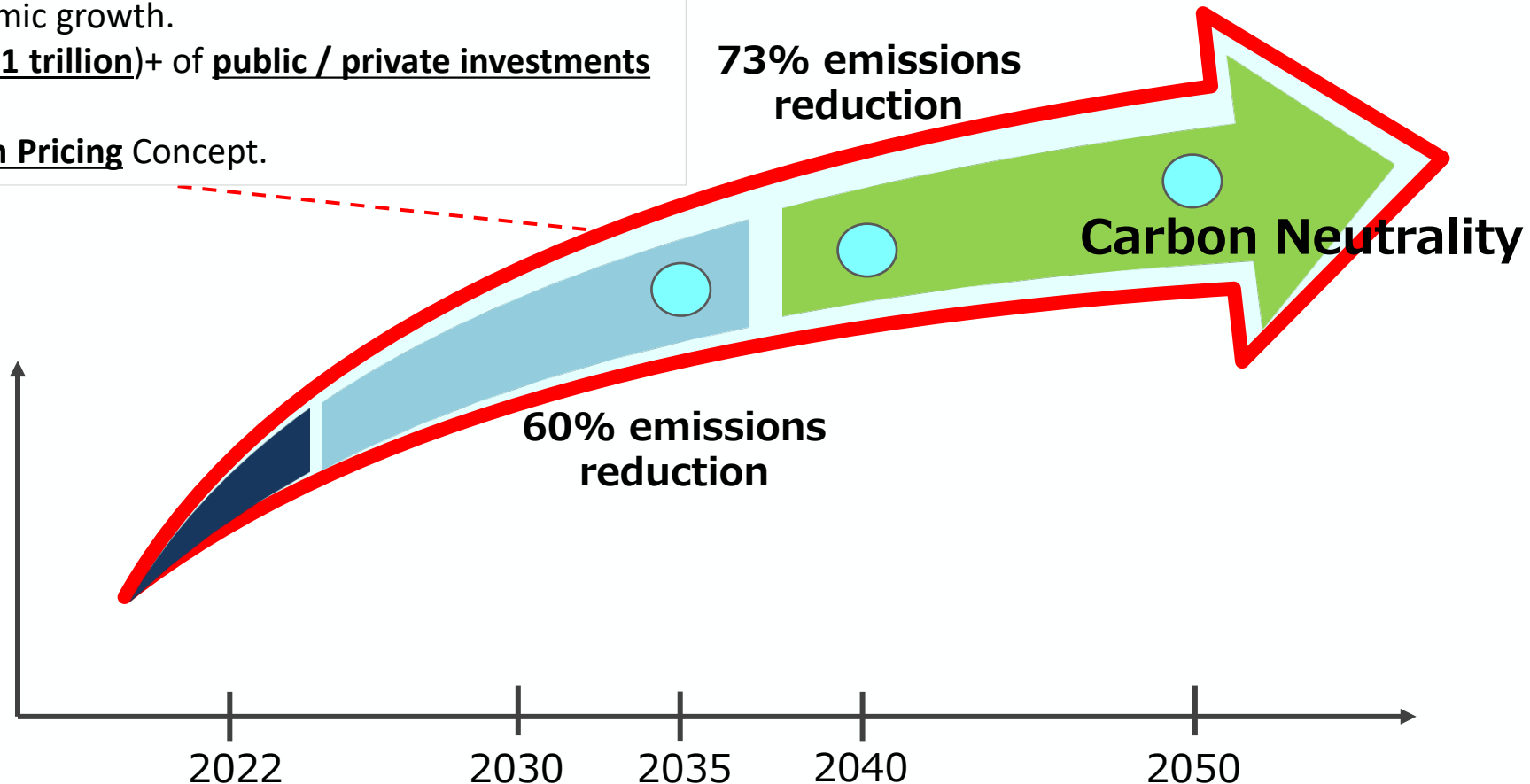


Japan's major energy-climate policy packages

GX delivers both emission reduction, economic growth and energy security.

'Basic Policy' for the Realization of GX, 2023

- Create new demand & markets in stable energy supply and decarbonization, leading to improved competitiveness of industries & economic growth.
- \150 trillion (≒USD1 trillion)+ of public / private investments over next decade
- Pro Growth Carbon Pricing Concept.



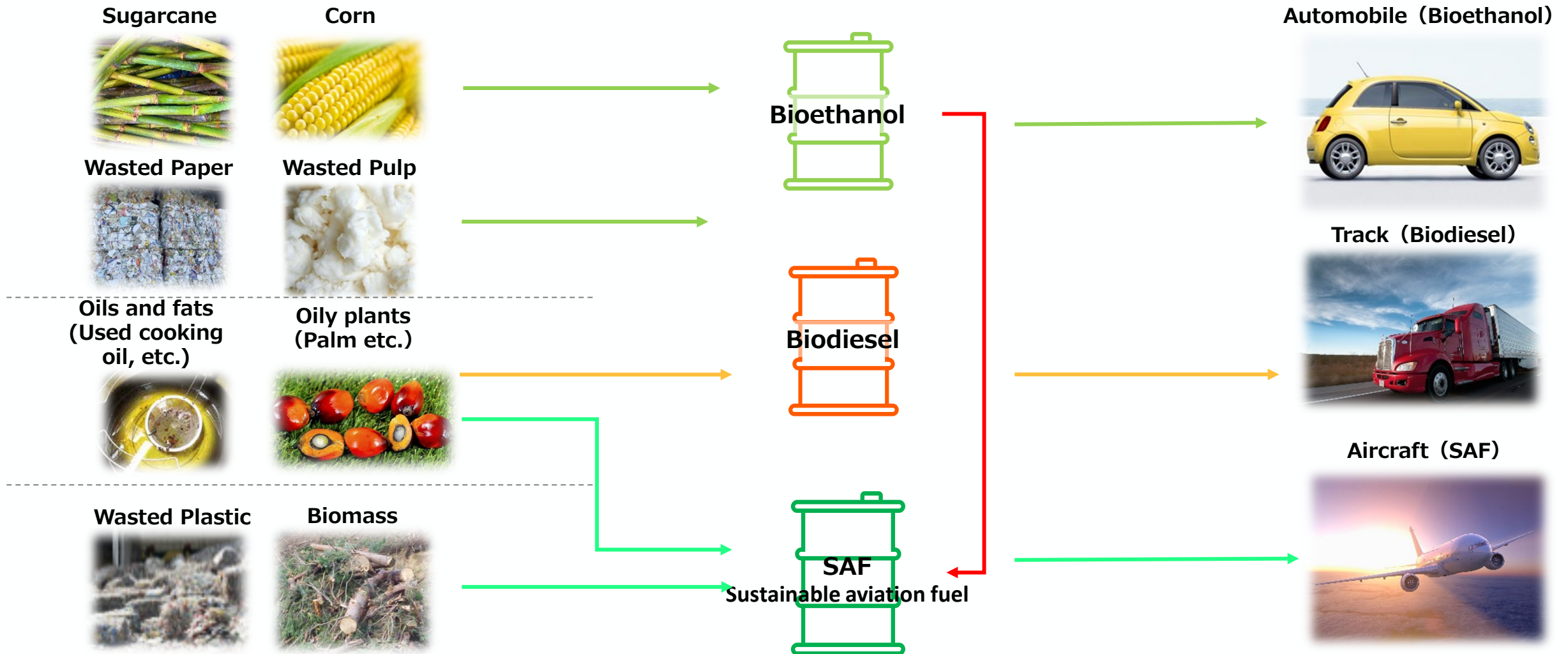
Transition to Carbon Neutrality

We need to promote further decarbonization through practical energy transitions that allow various pathways depending on the circumstances of each country.



What will likely expand in the near future?

- Expectations for biofuels for aircraft and automobile



SAF Projects in Japan

- First commercial SAF plant started operation in April 2025.
- Several projects in the pipeline.



③ ENEOS

- Wakayama
- HEFA
- 400k KL/yr



① Cosmo

- Osaka
- HEFA
- 30k KL/yr
- ※In operation



⑤ Cosmo

- Kagawa
- ATJ
- 150k KL/yr



② Idemitsu

- Chiba
- ATJ
- 100k KL/yr



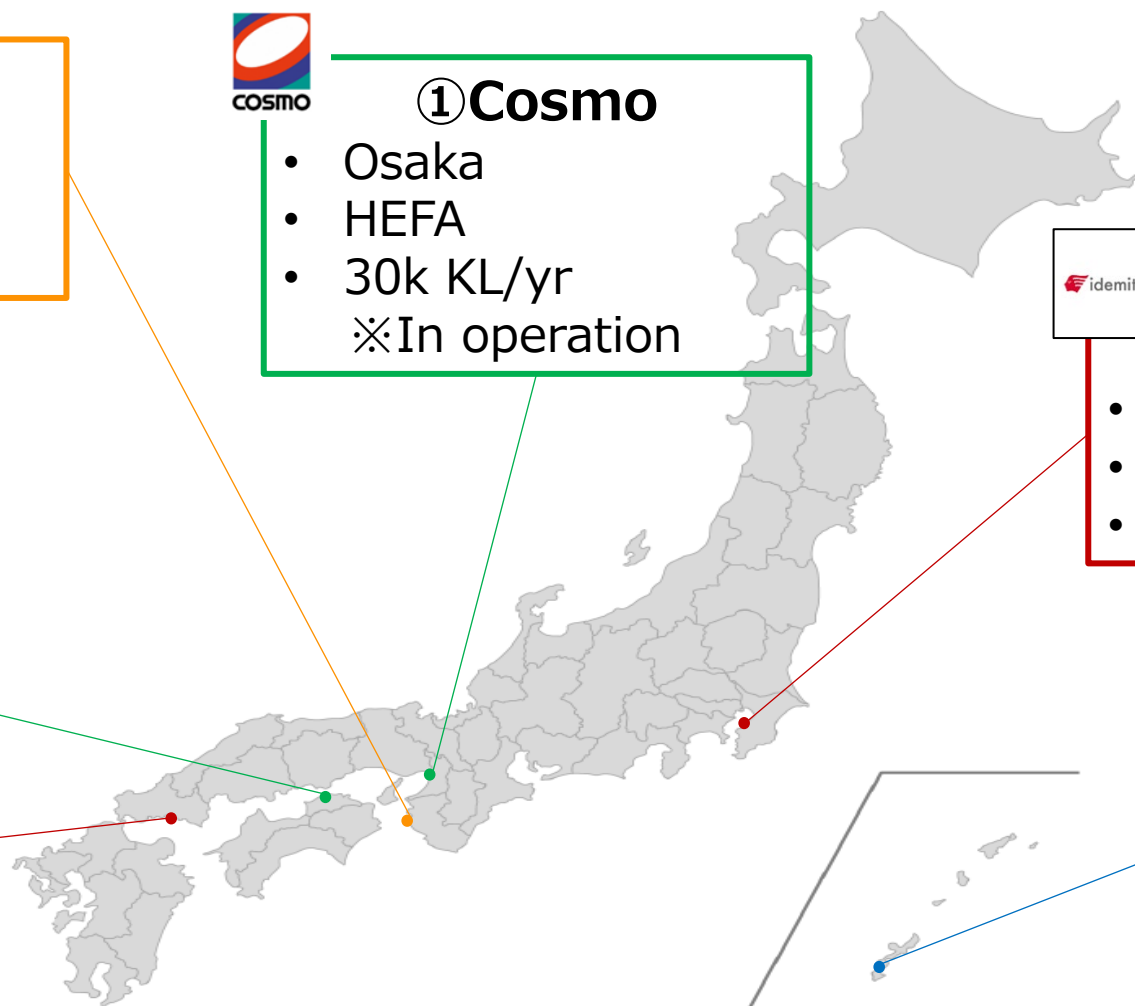
④ Idemitsu

- Yamaguchi
- HEFA
- 250k KL/yr



⑥ Taiyo

- Okinawa
- ATJ
- 200k KL/yr



Japan's SAF Policy: Combining “Carrot and Stick”

- Japan set a target of 10% SAF adoption by 2030.
- “Carrot (support)” and “Stick (regulations)” to incentivize SAF deployment.

Support Measures

- Capital investment support for installation of large-scale SAF production facilities (approx. 300 billion yen), using GX Economic Transition Bonds.
- 30 yen/L of SAF tax credit for domestic production and sales through “Taxation for Promoting Domestic Production in Strategic Areas”.
- Support for the establishment of a secure and stable feedstocks supply chain.
- Support for technological development, demonstration, and certification of non-food derived SAF.

Regulations/Legislations

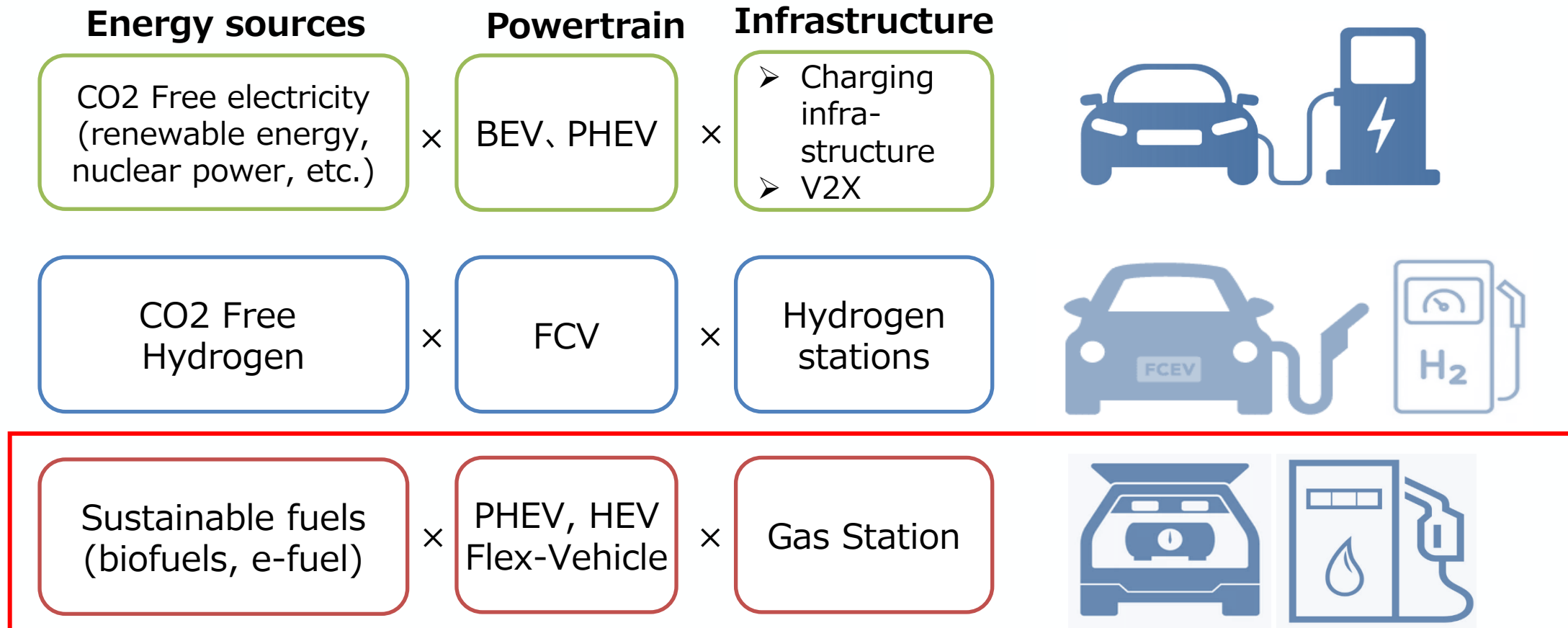
- In “the Act on Sophistication of Energy Supply Structure,” a 5% carbon reduction (=10% SAF mix*50% CI reduction) supply target for jet fuels in 2030 will be established. (Supply side)
- Japanese airlines are required to set the target volume of SAF use in 2030 via “Decarbonization Promotion Plan,” to be submitted under the Civil Aeronautics Act. (Demand side)
- “Visualize” Scope 3 efforts for passengers and cargo users (shippers) of aviation.

Future-Oriented Co-Creation Projects with the Global South by Japan

事業者	国	概要
 Sojitz Corporation	 Thailand	Aiming for the production of SAF in the collaboration with local refineries in Thailand to building a supply chain in Asia
 Green Power Development Corporation of Japan	 Indonesia	Establishing a traceability system of non-standard coconut as a SAF feedstock
 Chodai Co., Ltd.	 Philippines	Feasibility study of coconut oil extraction
 Nippon Biofuel Co., Ltd.	 Mozambique	Feasibility study of jatropha biofuel
 Euglena Co., Ltd.	 Bangladesh	Feasibility study of UCO recovery and oilseed cultivation for SAF feedstock on underutilized land or during fallow periods
 Toray	 Thailand	Feasibility study of supply chain establishment for biochemicals production from non-edible biomass
 Four Pride Japan Co., Ltd.	 Indonesia	Demonstration project for advanced pongamia nursery facility
 Hanwa Co., Ltd.	 Malaysia	Expanding the plantation project of pongamia

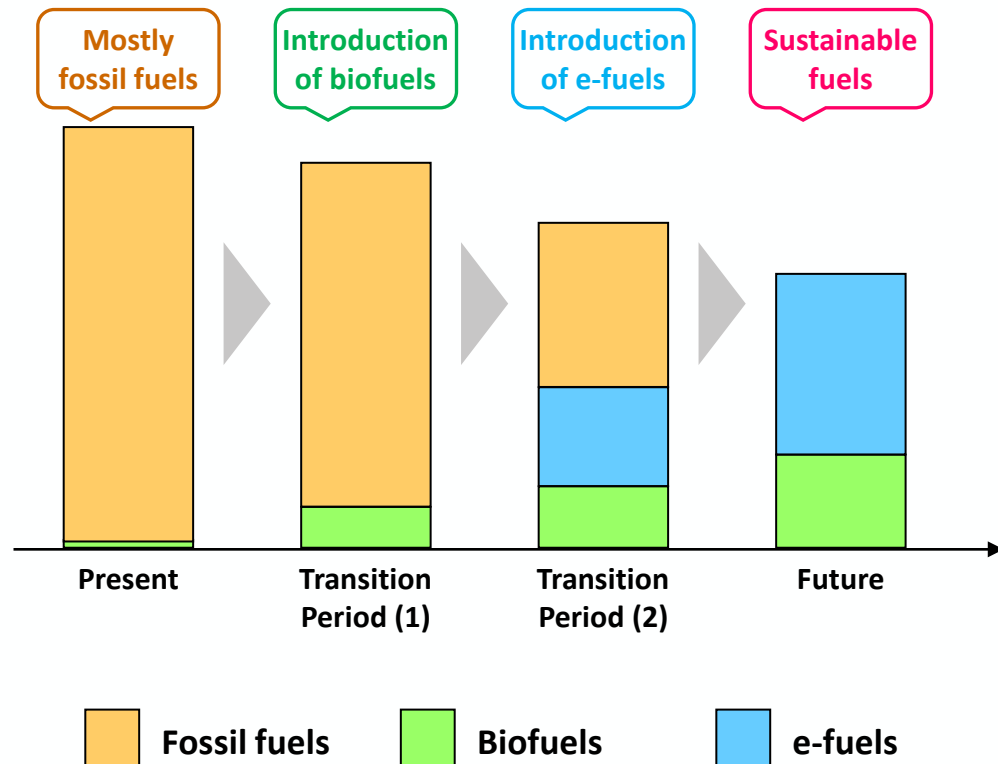
Road Transport Sector: A Range of Pathways

- To achieve carbon neutrality in the road sector, it is important to pursue **a range of pathways**.
- It is necessary to advance **the combination of high-performance various equipment and sustainable fuels such as biofuels and e-fuels** as well as electrification, depending on the circumstances of each country and region.



Passenger Vehicle Policy: Expanding Bioethanol use

Transition to sustainable fuels



Expansion of Biofuel Adoption

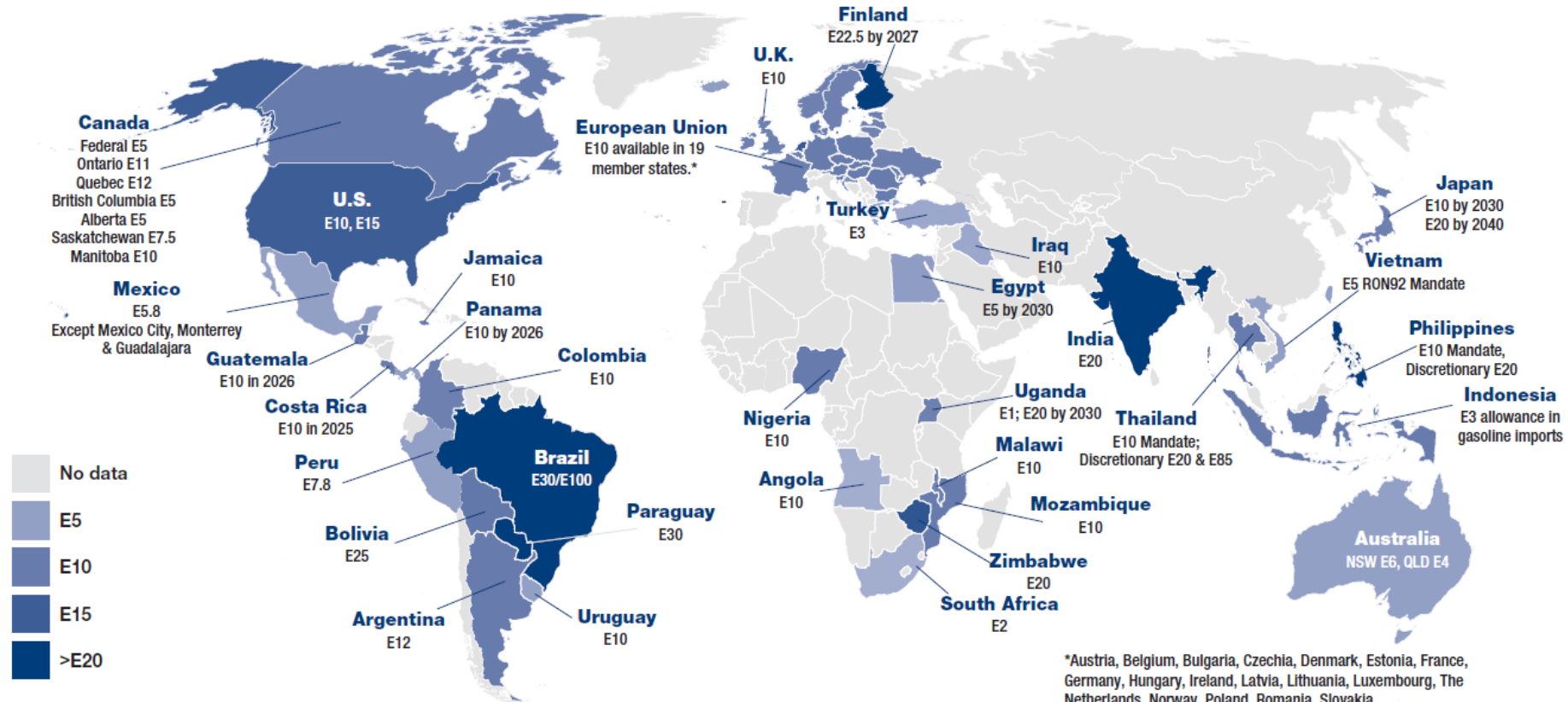
- In the 7th Strategic Energy Plan (February 2025), Japan set a new target to expand biofuel use.
 - Start 10% direct bioethanol blending (E10) by 2030
 - Start 20% direct bioethanol blending (E20) by 2040
- To complement these targets, Japan will aim to start supplying 100% E20-compatible vehicles in new passenger car sales by the early 2030s.

(c.f.) Expanding Bioethanol use in ASEAN Countries

ASEAN countries are also promoting bioethanol blending into gasoline.

Global Bioethanol Blending Policies Map

Current and anticipated country-specific mandates and policies



*Austria, Belgium, Bulgaria, Czechia, Denmark, Estonia, France, Germany, Hungary, Ireland, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Romania, Slovakia

Sources: Lieberz, Sabine, and Antonia Rudolf. Biofuel Mandates in the EU by Member State – 2024. United States Department of Agriculture, Foreign Agricultural Service, 27 June 2024, Report No. E42024-0016. <https://apps.fas.usda.gov/ePure>. Overview of biofuels policies and markets for road transport across the EU. June 2024
SGS Inspire. Ethanol Mandates and Average Content in Gasoline. Jan. 2025.

(c.f.) Initiative for Sustainable Fuels and Mobility (ISFM)

- To reduce emissions and encourage just and inclusive energy transitions by expanding the use of sustainable fuels and high-performance mobility equipment, Brazil and Japan launched a new collaborative framework called the Initiative for Sustainable Fuels and Mobility (ISFM) at the summit meeting in May 2024.
- Through mutual collaboration and leadership, both countries will work together to create momentum towards COP30 and mainstream sustainable fuels.

Key Concept of ISFM



Sustainable Fuels
(e.g. Biofuels, E-fuels)

✓ Increase supply and demand of sustainable fuels



High-performance Mobility
(e.g. Hybrids, Flex-fuel engines,
Next-generation aircraft)

✓ Improve energy efficiency



Key Events (2025)



Ministerial Meeting on Sustainable Fuels

- The meeting was held **for the first time on September 15th in Osaka, Japan, co-hosted by Japan and Brazil** based on the "Initiative for Sustainable Fuels and Mobility (ISFM)*".
- Participants from **34 countries and organizations** discussed **the importance of expanding the production and utilization of sustainable fuels** as well as **the necessity of international and public-private cooperations**. The Co-hosts issued a **Chairs' Summary** as an outcome, which will lead to **COP30**.
- As an opportunity to **experience the societal implementation of sustainable fuels** in Japan, the meeting **provided an excursion** including a ride on a e-fuel bus and a visit to the Gas Pavillion in collaboration with Osaka Kansai World Expo. The meeting also **held an exhibition** related to sustainable fuels.

Overview of the Meeting

- Date : Monday, September 15
- Venue : Hilton Osaka
- Hosts : Japan and Brazil
- Participants : 34 countries and organizations
- Timeline
 - > 10:00-10:05 : Opening Remarks
 - > 10:05-11:00 : Presentations from Organizations (IEA, IRENA, Biofuture Platform, Biofuture Council, JAMA)
 - > 11:00-11:55 : Remarks from Participants
 - > 11:55-12:00 : Closing Remarks
 - > 15:00-19:30 : Excursion

Major Outcomes

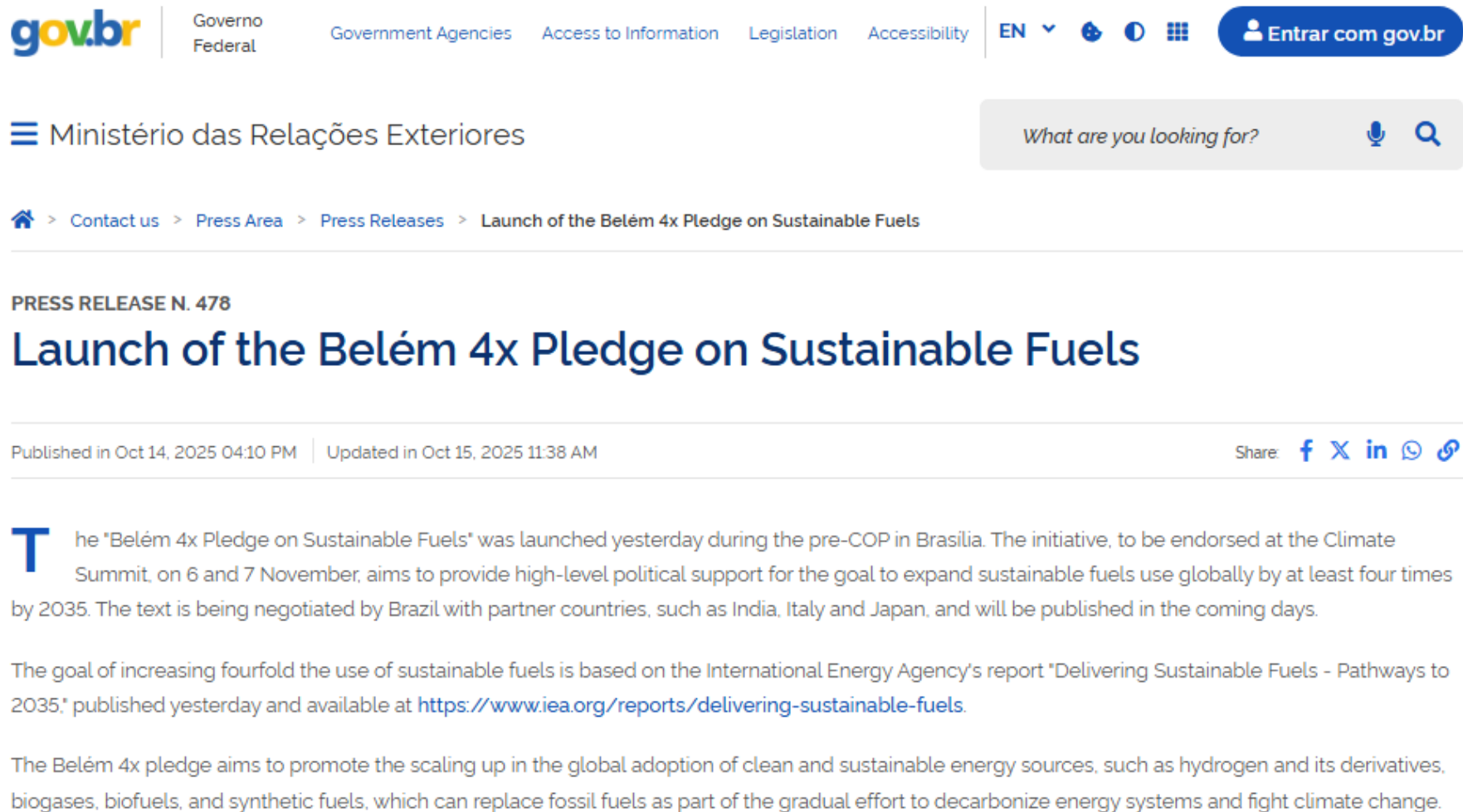
- **Discussed necessary efforts and cooperation towards the expansion of sustainable fuels**, based on an outlook presented by the IEA that **the production and use of sustainable fuels will expand by at least four times by 2035 from 2024 levels**
- **Shared the importance of sustainable fuels** such as biofuels, e-fuels and e-methane in a "multi-pathway" approach towards carbon neutrality and **recognized the necessity of international and public-private cooperation**
- Recognized the importance of **the decarbonization in road transport sector by combining sustainable fuels and high-performance mobility equipment** such as hybrid engines



***Initiative for Sustainable Fuels and Mobility (ISFM)** : An initiative launched at the Japan-Brazil Summit Meeting in May 2024, to lead global decarbonization efforts in road transport sector by combining sustainable fuels such as biofuels and e-fuels with high-performance mobility equipment including hybrid engines

Action towards COP30

- **"Belém 4X Pledge on Sustainable Fuels"** has been announced at Pre-COP on Oct. 14 by Brazil, the Chair of COP30.



The screenshot shows the official website of the Brazilian Government (gov.br). The header includes the gov.br logo, the text 'Governo Federal', and navigation links for 'Government Agencies', 'Access to Information', 'Legislation', and 'Accessibility'. There is also a language selector set to 'EN' and a button to 'Entrar com gov.br'. Below the header, the page is identified as belonging to the 'Ministério das Relações Exteriores'. A breadcrumb trail shows the path: Home > Contact us > Press Area > Press Releases > Launch of the Belém 4x Pledge on Sustainable Fuels. The main heading of the page is 'Launch of the Belém 4x Pledge on Sustainable Fuels', preceded by 'PRESS RELEASE N. 478'. Below the heading, it states the release was published on Oct 14, 2025 at 04:10 PM and updated on Oct 15, 2025 at 11:38 AM. Social media sharing icons for Facebook, X, LinkedIn, WhatsApp, and Email are present. The main text begins with 'The "Belém 4x Pledge on Sustainable Fuels" was launched yesterday during the pre-COP in Brasília. The initiative, to be endorsed at the Climate Summit, on 6 and 7 November, aims to provide high-level political support for the goal to expand sustainable fuels use globally by at least four times by 2035. The text is being negotiated by Brazil with partner countries, such as India, Italy and Japan, and will be published in the coming days.' A subsequent paragraph explains that the goal is based on an IEA report and provides a link to it. The final paragraph states that the pledge aims to promote the scaling up of clean and sustainable energy sources like hydrogen, biogases, biofuels, and synthetic fuels to replace fossil fuels.

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Ministério das Relações Exteriores

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PRESS RELEASE N. 478

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Published in Oct 14, 2025 04:10 PM | Updated in Oct 15, 2025 11:38 AM

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The goal of increasing fourfold the use of sustainable fuels is based on the International Energy Agency's report "Delivering Sustainable Fuels - Pathways to 2035," published yesterday and available at <https://www.iea.org/reports/delivering-sustainable-fuels>.

The Belém 4x pledge aims to promote the scaling up in the global adoption of clean and sustainable energy sources, such as hydrogen and its derivatives, biogases, biofuels, and synthetic fuels, which can replace fossil fuels as part of the gradual effort to decarbonize energy systems and fight climate change.