

Transforming the Energy Landscape: Driving Bio Circular Economy with Clean Energy Technology and AI driven Energy Efficiency

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The "Belem 4X Pledge on Sustainable Fuels" at COP30

- COP30 , Brazil, Japan, and Italy jointly proposed and launched a pledge regarding sustainable fuels such as biofuels, synthetic fuels, and synthetic methane .
- This pledge aims to translate the outcomes of the first-ever **Ministerial Meeting on Sustainable Fuels** held in Osaka in September by Japan and Brazil into concrete actions, committing to necessary initiatives and international cooperation towards the goal of "increasing demand for sustainable fuels by at least four times compared to 2024 levels by 2035 " (*). In particular, it emphasizes the importance of promoting decarbonization in the road transport sector through the combination of sustainable fuels and high-performance mobility equipment such as hybrid engines .
- It was launched at the Pre-COP on October 14 , officially announced by President Lula at the COP Summit on November 7 , and a ministerial-level event was held on November 14 .
- As of November 14th , 23 countries and regions have expressed their support. They will continue to seek more supporting countries after the COP .

(*) Targets based on the IEA report "Sustainable Fuels – A Path to 2035" (2025)



President Lula's announcement at the Summit on November 7th



Statement of support by Ambassador Takahashi of the Ministry of Foreign Affairs for Climate Change at the November 7 Summit.



Scenes from the ministerial-level event on November 14th

Current situation and future plans for expanding the introduction of next-generation fuels

Bio ethanol

- In the automotive sector, the 7th Strategic Energy Plan **aims to begin supplying low-carbon gasoline with a maximum concentration of 10 % in some areas by fiscal year 2030 , and with a maximum concentration of 20 % from fiscal year 2040.** In June of last year, **an "Action Plan for Expanding the Introduction of Bioethanol into Gasoline" was compiled .**
- In **order to identify the challenges for full-scale implementation, a pilot program is being conducted in some regions with a target date of 2028 , and Okinawa was selected in November of last year .**
- Moving forward, we will proceed with preparations for pilot implementation, including equipment preparation at supply bases and gas stations , and consideration of the supply chain. Furthermore, in preparation for full-scale implementation, we will conduct initial studies on the scope and volume of expansion, etc., during fiscal year

SAF

- Under the Public-Private Council for SAF , a **"Task Force for Considering Further Measures to Promote SAF Adoption" has been established, and discussions are underway with industry associations, companies, and relevant government agencies .**
- Based on overseas examples (such as incentives and mixed obligations), we will compile a list **of possible measures to promote implementation by this year, and then** continue discussions on further details of the system.

synthetic fuel

- Aiming for commercialization by the early 2030s , **we will proceed with initiatives such as manufacturing technology development and demonstration, and regulatory review, based on the "Roadmap for the Commercialization of Synthetic Fuels" revised in June 2023 .**
- December of last year , we revised our roadmap and decided to **aim for the early establishment of synthetic fuel manufacturing technology, including not only synthetic fuels based on renewable energy but also more economically bio-based synthetic fuels .**

Thank you for your kind attention.