

Belém 4X Pledge & TAFF Roadmap

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IEA Bioenergy Task 39 Webinar



Bioenergy
Accelerating to Net Zero

**Sustainable Fuels for Land Transportation: Technical
Conclusions from the Industry Hearing**

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International Regime and Climate Ambition

- There is no specific multilateral regime for “energy”
- Three-quarters of global greenhouse gas (GHG) emissions come from energy production and consumption
- **First Global Stocktake (GST) of the Paris Agreement:**
 - Tripling **renewable energy capacity** globally and doubling the average annual rate of improvement in **energy efficiency**;
 - Accelerating efforts globally towards net-zero emission energy systems, utilizing **zero- and low-carbon fuels**;
 - and Carrying out a **transition away from fossil fuels** in energy systems, in a fair, orderly, and equitable manner.

Energy Security

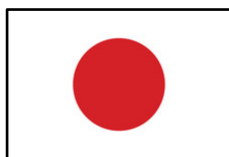
- Fuels supply of 90% of global energy today
- Almost 80% of total oil production in 2024 came from just ten countries
- Fossil fuels remain dominant in sectors such as transport (95% of energy demand) and chemical feedstocks
- Recurring disruptions in the oil and gas markets → need to develop alternatives to reduce dependence on fossil fuel imports and diversify our energy sources and supply chains

Sustainable Development

- Sustainable Development Goals
- Linkage between areas – improvement in energy access and market development supports economic growth and reduced inequalities
- Balance between economic growth, social inclusion and environmental protection
- Global South countries face limited access to energy services and infrastructure challenges, but represent the greatest potential for growth and transformation

Belém 4X Pledge on Sustainable Fuels

- Expand **sustainable fuels use globally by at least FOUR times by 2035**, from 2024 levels
- **Liquid and gaseous biofuels**, low-emission hydrogen and hydrogen-based fuels
- Adopt **ambitious national policies**
- Ensure sustainable fuels are scaled up in an **environmentally and socially responsible manner**
- Strengthen **international collaboration:**



Key Actions

- Strengthen **trade and market conditions and investment frameworks**
- **Reduce the cost of capital** in the Global South
- Promote aligned, interoperable, coherent and transparent **carbon accounting principals and sustainability standards**
- Adopt **drop-in solutions** and equipment
- Enhance **technical support and capacity building**
- Collaborate on **research, development and demonstration**
- Widen adoption of **sustainable agricultural practices** for food, feed and fuel production and biodiversity conservation
- Establish and improve **international regulation**

Implementation

Ongoing Activities

- IEA monitoring
- CEM Future Fuels Action Plan (COP30 Action Agenda PAS)
- Biofuture Platform Action Plan 2025-2027
- CEM Hubs
- Panamerican Coalition of Liquid Biofuels
- IRENA-Brazil-Japan cooperation
- GBEP Webinar Series
- Bilateral/plurilateral technical cooperation
- Coordinated action in international fora

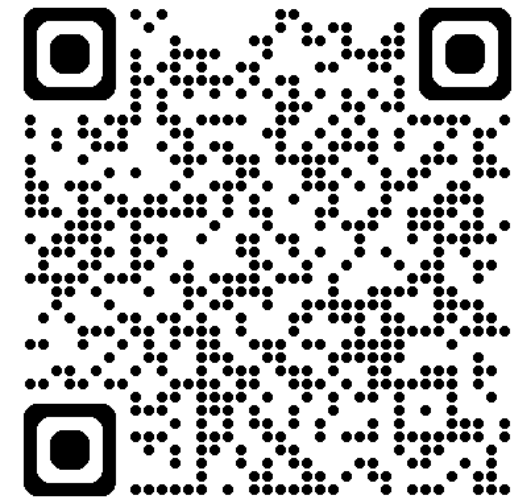
Milestones/Events

- Bioethanol Book
- COP30 Presidency Roundtable
- Public-Private High-Level Dialogues on Future Fuels and Shipping
- IEA Workshop
- CEM Senior Officials Meeting
- SB64 Event @ Bonn
- GBEP 13th Bioenergy Week
- HLPF
- Panamerican Liquid Biofuels Summit
- CEM17
- IEA Bioenergy Industry Hearing on Biofuels for Decarbonization of Land Transport

Priority Policy Areas

1. Establish **roadmaps**, targets and support policies
2. Increase and align **demand and supply** of sustainable fuels
3. Work towards **common sustainability criteria**
4. Support **innovation** to narrow cost gaps
5. Develop **supply chains** and foster trade
6. Make **financing** more accessible, especially in the EMDEs

IEA Report
Delivering Sustainable Fuels:
Pathways to 2035



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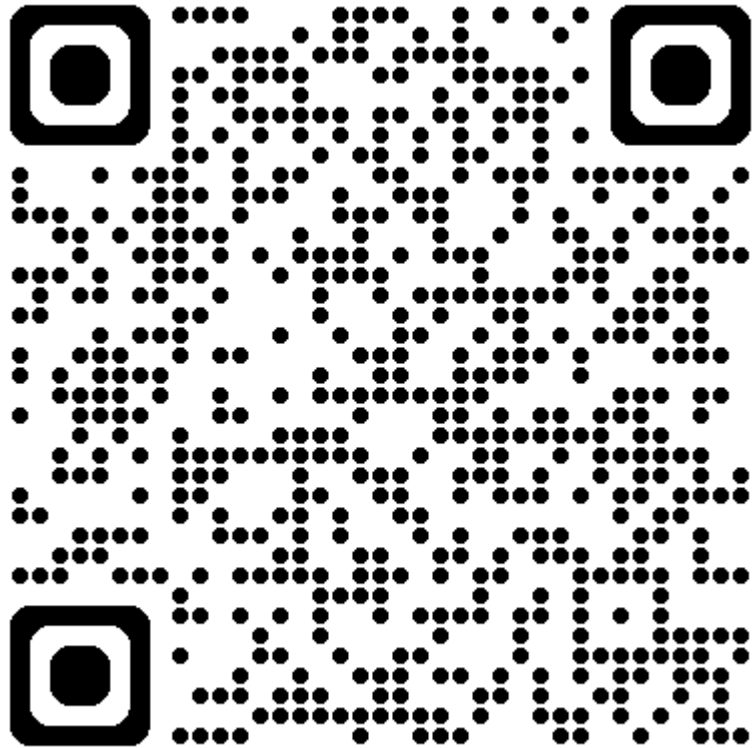
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Takeaway messages

- Build an international, multi-sector community to complement and strengthen efforts to accelerate sustainable fuels across all technology pathways.
- Support national ambitions on sustainable fuels by removing barriers to sustainable fuels deployment, including biofuels.
- Advance the adoption of transparent, comparable, coherent and science-based LCA and sustainability criteria of biofuels by producing and importing countries.
- Amplify the impact and insights of multisectoral stakeholders within a broader community of key partner organisations through ongoing international collaboration and dialogue.
- Support progress in regulation of hard-to-abate sectors (aviation, shipping, road transport and industry).

Belém 4X Pledge on Sustainable Fuels



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