Energy Efficiency Hub
2026 Update

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Head of Secretariat

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MISSION

Fostering collaboration to enhance energy efficiency work globally

The Hub has 17 Member governments from across the globe who:

- share information and best practices with each other,
- give greater visibility and a stronger presence internationally to energy efficiency, and
- collaborate with the International Energy Agency, other international organisations, and businesses.

The Hub’s Secretariat is hosted at the IEA.

17 MEMBERS

Our Members

The Hub is a voluntary collaboration among 17 governments, who together account for 67% of global final energy use, seeking to strengthen their effectiveness in deploying energy efficiency.


Argentina


Australia


Brazil


Canada


China


Denmark


European Commission


France


Germany


India


Japan


Korea


Luxembourg


Russia


Saudi Arabia


United Kingdom


United States

4 MEMBER-LED TASK GROUPS

Our Task Groups

Hub Members take on issues important to them through thematic Task Groups.

DWG
Digitalisation Working Group

EEB
Energy Efficiency in Buildings

TOP TENs
Top Ten Energy Efficiency Best-Available Technologies and Practices

SEAD
Super-Efficient Equipment & Appliances Deployment Initiative

[DWG]

Digitalisation Working Group

The Digitalisation Working Group informs and advances the digitalisation of energy-efficient technologies. Led by China, the DWG aims to exploring how to:

- improve the energy efficiency and carbon footprint of digital technologies and
- harness digital technologies to enable energy efficiency improvements and GHG reductions in end uses.

In 2026, **the Task Group** is focusing on **data centres, smart appliances and demand flexibility, smart EV charging infrastructure and grid interaction.** China is planning to perform a literature review and collects insights from Members through a survey.

[EEB]

Energy Efficiency in Buildings

EEB is a platform for Member exchanges on improving policy practice for energy efficiency in buildings. In 2025, the EEB held a series of exchanges on the topic of financing building energy retrofits. The insights from webinars and in-person events were gathered and on a public webpage.

In 2026, the emphasis is on **Life Cycle Perspectives** for Energy Efficiency in Buildings, and on **National Planning and Regulatory Tools** for buildings decarbonization.

For the latter, EEB is planning to perform deep dive interviews and targeted workshops to improve knowledge and share existing practices, with a focus on existing buildings.

SEAD SUPER-EFFICIENT EQUIPMENT & APPLIANCE DEPLOYMENT

Active since 2009, SEAD is a collaboration among governments to promote the manufacture, purchase, and use of efficient appliances, lighting, and equipment worldwide.

- **Peer-to-peer learning and community of practice**: thematic workshops on demand-response, cost vs efficiency, product registries, etc.
- **Capacity training**: SEAD is featured in the IEA's Energy Efficiency Policy Training weeks, Appliances Stream. Next editions in Mexico (04/2026) and South Africa (10/2026).
- **Keeping energy efficiency in the agenda of international collaboration**: At COP30, SEAD became one of the "Cooperative Climate Initiative" registered in the UNFCC database.

[TOP TENS]

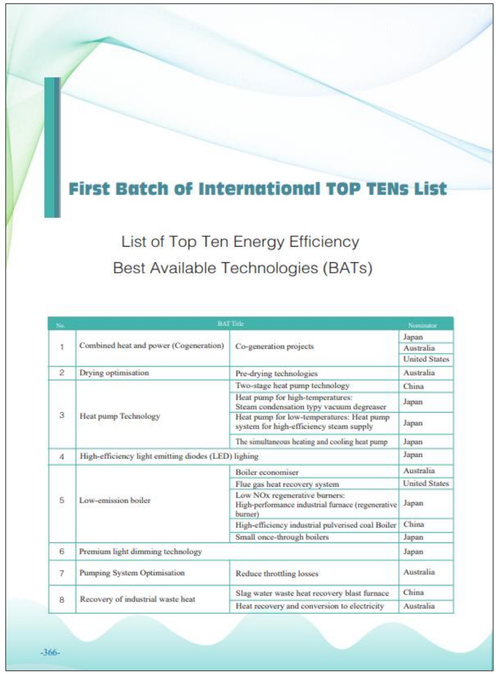
Ten Energy Efficiency Best Available Technologies and Best Practices

TOP TENs, established in 2013 and led by China, has published two sets of lists of technologies, in 2015 and in 2019. In 2024, 150 technologies and 161 practices, utilised in industry, transport, buildings, and the public sector have been selected for consideration for China's third TOP TENs list.

Germany has produced its own selection of best available technologies and best practices in 2025.

The operating agent, the China Quality Certification Center, has begun exchanges with Kazakhstan about its potential interest in observing the work of TOP TENs.

Ongoing discussions on potential contribution from and collaboration with the Denmark.



First Batch of International TOP TENs List

List of Top Ten Energy Efficiency Best Available Technologies (BATs)

No.	BAT Title		Nominator
1	Combined heat and power (Cogeneration)	Co-generation projects	Japan
			Australia
			United States
2	Drying optimisation	Pre-drying technologies	Australia
3	Heat pump Technology	Two-stage heat pump technology	China
		Heat pump for high-temperatures: Steam condensation typy vacuum degreaser	Japan
		Heat pump for low-temperatures: Heat pump system for high-efficiency steam supply	Japan
		The simultaneous heating and cooling heat pump	Japan
4	High-efficiency light emitting diodes (LED) lighing		Japan
5	Low-emission boiler	Boiler economiser	Australia
		Flue gas heat recovery system	United States
		Low NO_x regenerative burners: High-performance industrial furnace (regenerative burner)	Japan
		High-efficiency industrial pulverised coal Boiler	China
		Small once-through boilers	Japan
6	Premium light dimming technology		Japan
7	Pumping System Optimisation	Reduce throttling losses	Australia
8	Recovery of industrial waste heat	Slag water waste heat recovery blast furnace	China
		Heat recovery and conversion to electricity	Australia

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Top Ten Energy Efficiency Best Available Technologies (BATs) and Best Practices (BPs)

Second Batch of International TOP TENs List

List of Top Ten Energy Efficiency Best Available Technologies(BATs)

Industrial Sector

No.	BAT Title	Nominator
1	Energy-saving control chip technology on body voltage sensor	China
2	Energy saving technology based on three-phase sampling and fast response	China
3	Heat, cold and electricity generation by tri-generation	France
4	High-strength and low thermal conductivity heat insulating materials "ROSLIM™ Board GH"	Japan
5	Infrared technologies for drying and baking thin products or coating	France
6	Matrix Converter U1000	Japan
7	Optimum control of high efficiency inverter centrifugal chillers using a heat source integrated control system	Japan
8	Selective and mass heating by microwaves	France
9	The high-effective energy-conservation recovery technology of the excavator's potential energy	China
10	Variable speed drives (VSD) applied to centrifugal and other dynamic machine (pumps,fans, compressors)	France

Note: the list is alphabetically ordered.

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INFORMAL COLLABORATION

Buildings and Industry Exchanges

Complementing the Task Groups, Hub Members also share policy best practices during **Policy Exchange Workshops**.

10 February	**Energy-Efficient Appliances and Equipment – Designing for longevity: Repairability indices and labels**	Shared experiences in promoting the adoption of long-lasting, repairable, and energy-efficient appliances through standards and labels in China, the EU, France and Saudi Arabia.
April (upcoming)	**Effective public-private financing instruments to support industrial energy efficiency**	Aimed at exchanging experiences on effective tools that leverage public and private financing for industrial energy efficiency.

Energy Efficiency Hub

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