Energy Efficiency Hub

APEC Expert Group on Energy Efficiency & Conservation: EGEEC 60

15 March 2023

HUB AT A GLANCE

Fostering collaboration to enhance energy efficiency work globally

The Hub helps its 16 Member governments from across the globe:

- share information and best practices to help each other strengthen deployment of energy efficiency,
- give greater visibility and a stronger presence internationally to energy efficiency, and
- enhance Hub Members' collaboration with the International Energy Agency and other international organisations.

16 MEMBERS

Our Members

The Hub is a voluntary collaboration among 16 governments seeking to strengthen their effectiveness in deploying energy efficiency.


Argentina


Australia


Brazil


Canada


China


Denmark


European Commission

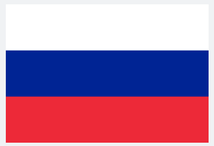

France


Germany


Japan


Korea


Luxembourg


Russia


Saudi Arabia


United Kingdom


United States

5 MEMBER-LED TASK GROUPS

Our Task Groups

The Hub takes on issues important to its Members through thematic Task Groups.

DWG
Digitalisation Working Group

SEAD
Super-Efficient Equipment & Appliances Deployment Initiative

EEB
Energy Efficiency in Buildings

EMAK
Energy Management Action Network

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

[DWG]

Digitalisation Working Group

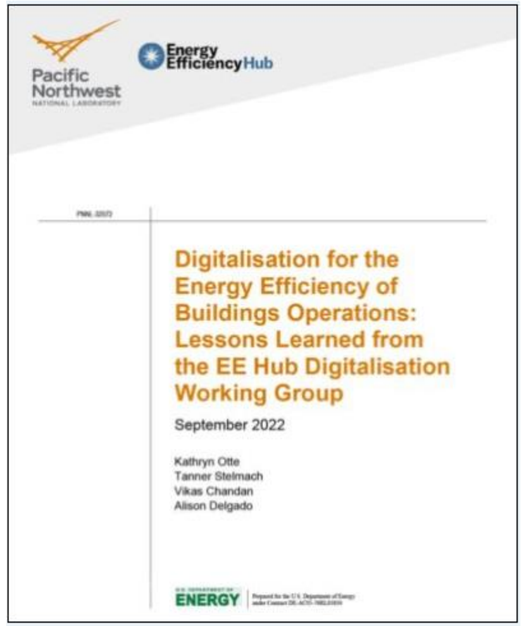
The Digitalisation Working Group informs and advances the digitalisation of energy-efficiency in end uses.

The Task Group is a platform for Hub Members to learn about each other's experiences with digitalisation and to understand key gaps, priority areas and effective approaches.

[DWG]

Digitalisation Working Group

- The Digitalisation Working Group (DWG) released its first report, Digitalisation for the Energy Efficiency of Buildings Operations, in September 2022.
- Building on this report, in November 2022 DWG published a roadmap on approaches and challenges in implementing digitalisation policies for energy efficiency.
- DWG also produced an article, Building Efficiency and Digitalisation: Industry Stakeholder Perspectives, that presents diverse insights from industry leaders.



Super-Efficient Equipment & Appliances Deployment Initiative

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

For over a decade, SEAD has helped the uptake of energy-efficient products, by supporting governments to implement ambitious policy packages and harmonising markets. SEAD is both a Task Group of the Hub and an Initiative of the Clean Energy Ministerial.

SEAD's *Product Efficiency Call to Action* aims to double the efficiency of four key products by 2030.

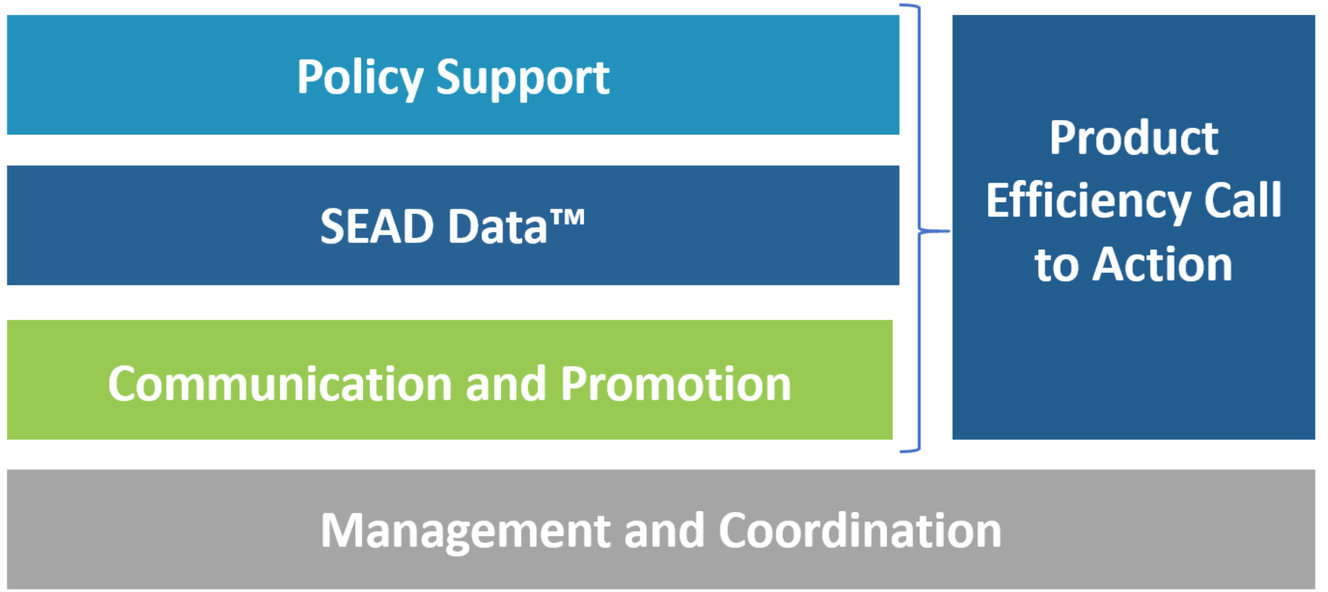
Energy Efficiency Hub

[SEAD] CLEAN ENERGY MINISTERIAL Advancing Clean Energy Together

Super-Efficient Equipment & Appliances Deployment Initiative

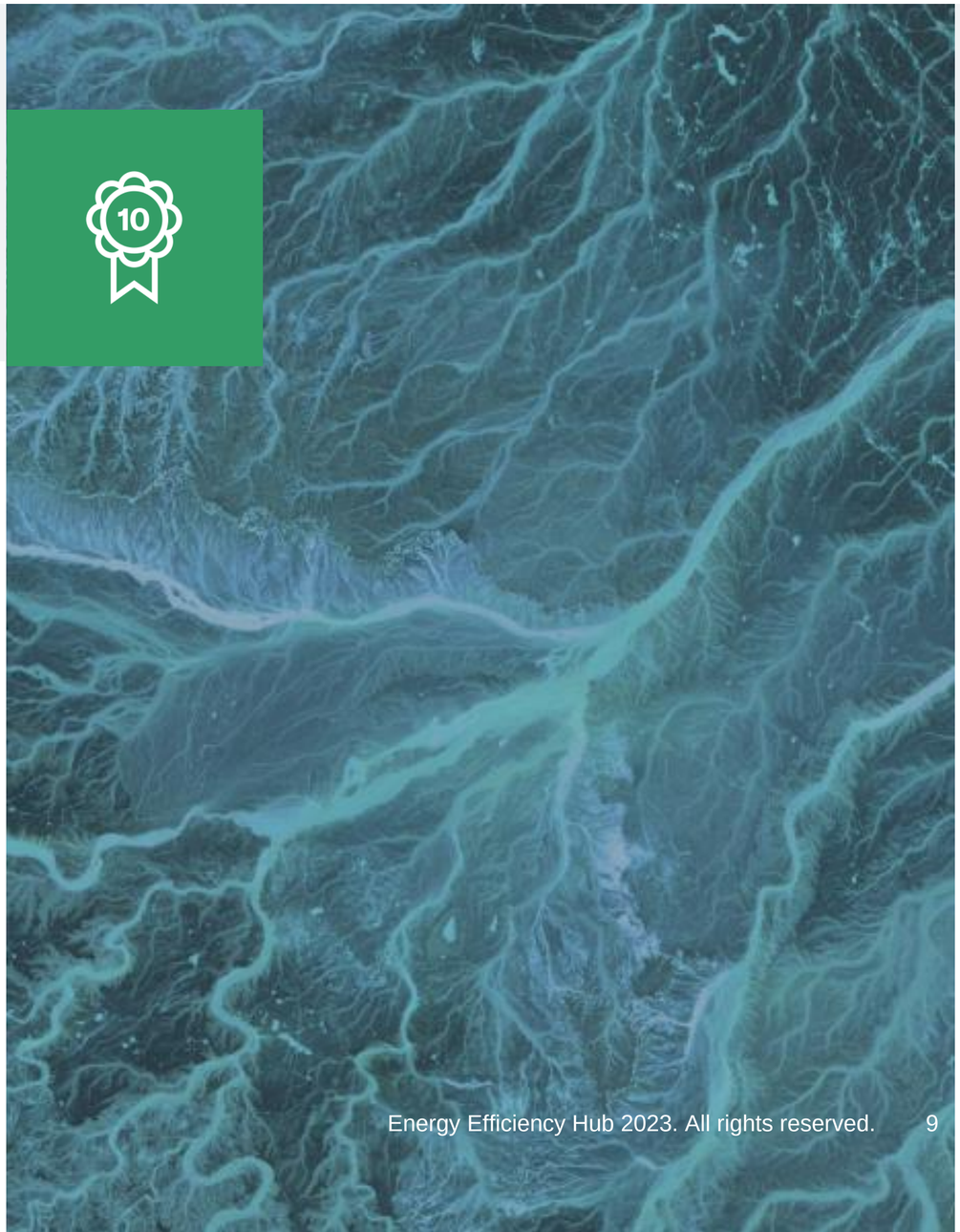
Work plan for 2023

- Continue policy support to participants, product & country-specific fact sheets.
- Engage Members on data & analysis, connecting technical assistance to national projects.
- Collaborate with Cool Coalition for COP28.
- Increase communication & promotion with public bodies and banks, promoting events.
- Strengthen resources and commitments to increase the scope of SEAD's activities.



[TOP TENS]

Ten Energy Efficiency Best Available Technologies and Best Practices



TOP TENs prepares lists of best energy-efficiency technologies and practices in key-consuming sectors that governments can promote through their policy measures.

Since China and Australia jointly established TOP TENs in 2013, the Task Group has published several national and international lists of technologies and best practices featuring cutting-edge approaches and case studies.

[TOP TENS]

Ten Energy Efficiency Best Available Technologies and Best Practices

- TOP TENs has published two sets of lists of technologies, in 2015 and in 2019.
- The Task Group produces two types of lists: international lists, applicable to most countries, and national lists, tailored to each of the participating countries.
- Task Group participants are currently preparing their third set of lists, to be released later in 2023.

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 NOx 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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[EMAK]

Energy Management Action Network

The Energy Management Action Network facilitates public-private exchanges on systems for raising energy efficiency in industry and buildings.

EMAK, was established in 2009 and led by Japan supports Hub Members to do better and shares best practices developed by Members with emerging economies.

[EMAK]

Energy Management Action Network

- EMAK has a long-running series of regional workshops on energy management systems.
- EMAK's 11th workshop on transition to net-zero buildings was held on February 2023 in Singapore.
- Session 1: Effective Policy Packages for Sustainable and Energy Efficient Building
- Session 2: Best Practice examples in the Building sector.
- Private and the public sector participants discussed challenges and practical ways forward.

[EEB]

Energy Efficiency in Buildings

Energy Efficiency in Buildings is a platform for Member exchanges on improving policy practice to raise energy efficiency in buildings. The Task Group's Members:

- discuss challenges and share lessons to address the issues that are most pressing to them,
- foster development of policies to improve implementation of buildings energy efficiency measures.

[EEB]

Energy Efficiency in Buildings

The Task Group held its kick-off meeting in February 2023.

The focus in 2023 is on:

- **Short-term actions**, such as heat pump deployment, energy poverty alleviation, awareness campaigns and funding programs among others.
- **Life Cycle Perspective**, including policy approaches, methodologies and software tools.
- **Deep Retrofit Models**, including enabling policies, financing models, skills and replicability.

6-8 JUNE 2023, PARIS

8th Global Conference on Energy Efficiency- Overview

Strong focus on learning from the global crisis while getting on track for net zero.

Co-hosted by IEA Executive Director and Minister of the Energy Transition of France and held in partnership with Schneider Electric. Attendance is by invitation only.

Pre-conference day: Side events and welcome reception

Main conference day: High-level panel discussions and VIP Gala Dinner

Ministerial day: Closed-door discussion; separate CEO roundtable

Energy Efficiency Hub side event: Lessons from Addressing the Energy Crisis through Energy Efficiency Measures

BECOMING A MEMBER

Membership

Membership presents an opportunity for governments to learn from each other about how to design and implement energy efficiency policy and overcome common challenges.

The Hub offers informal work processes, lively exchanges, and opportunities to interact with other policy practitioners and experts with wide ranges of experience. Hub discussions are topical and apolitical, with a focus on what works in practice.

Governments interested in joining the Hub are invited to contact us at secretariat@energyefficiencyhub.org.

Energy Efficiency Hub

Contact us at:
secretariat@energyefficiencyhub.org

9 rue de la Fédération
75015 Paris, France

energyefficiencyhub.org

Twitter - @EEHubOrg

linkedin.com/company/eehub/

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