



**ISAP 2022**

International Forum for Sustainable Asia and the Pacific

**IGES**  
Institute for Global  
Environmental Strategies

# TT8: “India-Japan Environmental Cooperation for Realization of Net Zero Society in India (Toward India-Japan Environmental Week)”

**December 1, 2022**





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- 1. Japan-India Technology Matchmaking Platform (JITMAP)**
- 2. Examples of outcomes & issues of JITMAP activities**



**ISAP 2022**

持続可能なアジア太平洋に関する国際フォーラム

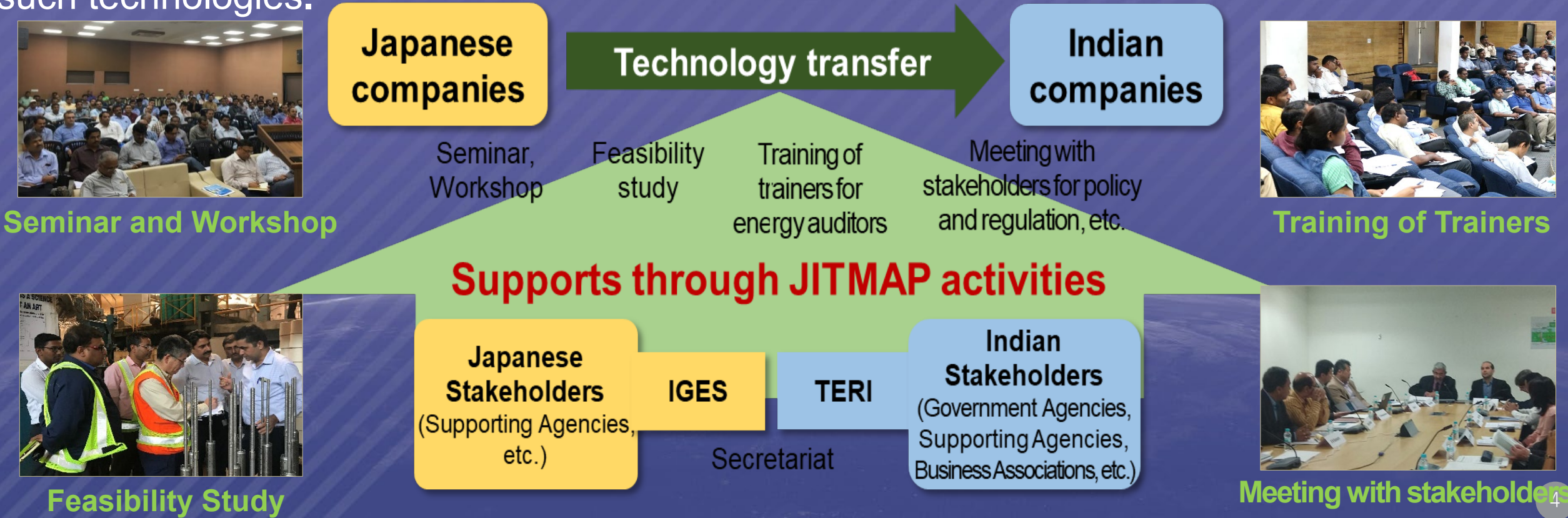
**IGES**  
公益財団法人  
地球環境戦略研究機関

# 1. Japan-India Technology Matchmaking Platform (JITMAP)



■ In order to promote low-carbon technology (LCT) transfer and diffusion in India, IGES and TERI jointly launched the Japan-India Technology Matchmaking Platform (JITMAP) in July 2016 with the support of the Ministry of the Environment of Japan.

■ JITMAP is a multi-stakeholder platform to match Japanese manufacturers of Environmental Technologies (ETs) including LCTs with Indian companies that are looking for such technologies.





# ISAP 2022 JITMAP Activities (FY2016~FY2021)

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## Seminars and workshops:

**Total: 15**

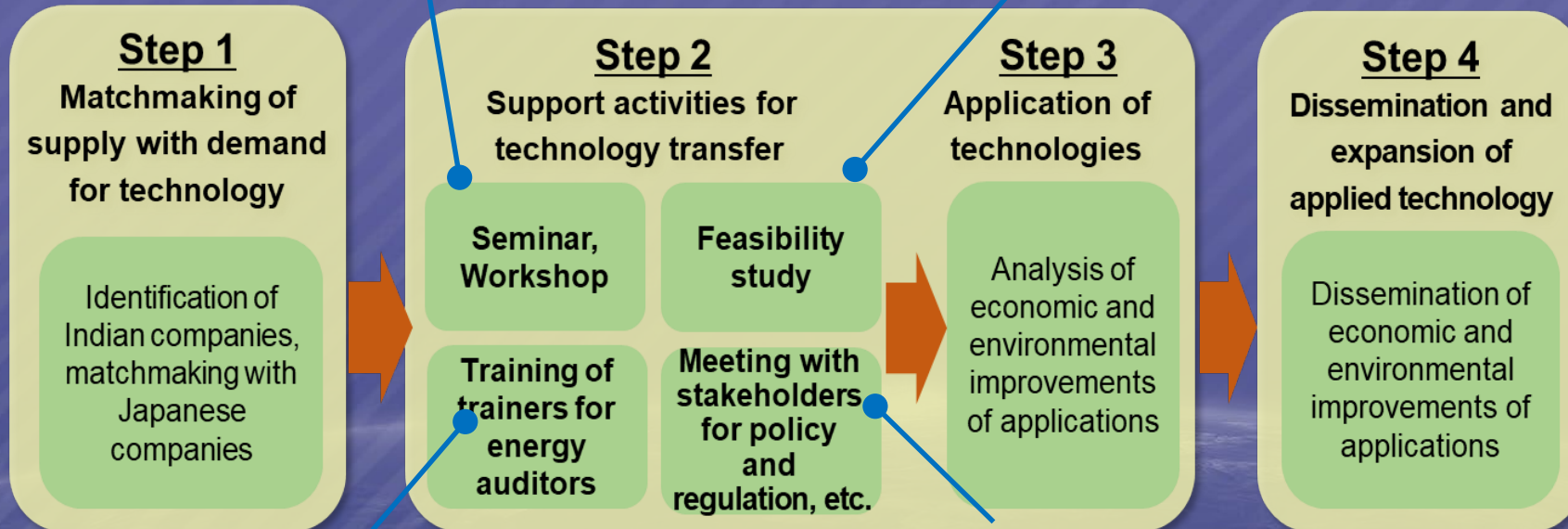
- Compressed air system: 5
- EHP/Refrigeration system: 2
- Steam management system: 4
- Energy-efficient belt: 1
- CEMS: 2
- General: 1



## Feasibility study (preliminary energy audit):

**Total: 54**

- Compressed air system: 21
- EHP/Refrigeration system: 13
- Steam management system: 14
- Energy-efficient belt: 6



## Training of trainers:

**Total: 6**

- Compressed air system: 5
- Steam management system: 1



## Meeting with stakeholders:

**Total: 5**

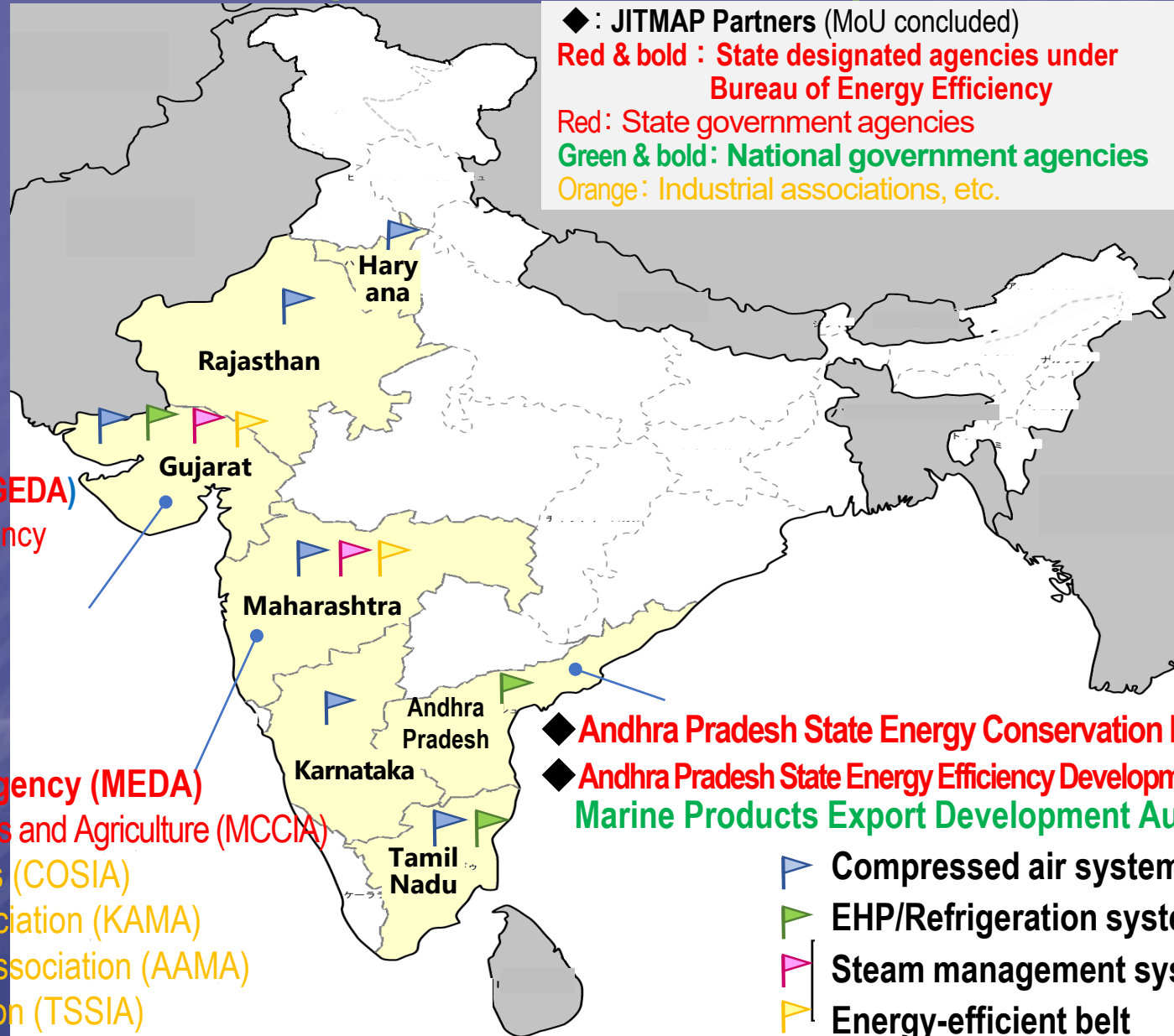
- Compressed air system: 2
- EHP/Refrigeration system: 2
- Energy-efficient belt: 1







# JITMAP Partners & Locations of the Activities (FY2016~FY2019)



■ No on-site activities were conducted in FY2020~FY2021 due to COVID19.

- ◆ **Gujarat Energy Development Agency (GEDA)**
- ◆ Gujarat Industrial and Technical Consultancy Organisation Limited (GITCO)
- Ankleshwar Industries Association (AIA)
- Dahej Industries Association (DIA)
- Vapi Industries Association (VIA)

- ◆ **Maharashtra Energy Development Agency (MEDA)**
- ◆ Mahratta Chamber of Commerce, Industries and Agriculture (MCCIA)
- Chamber of Small Industry Associations (COSIA)
- Kalyan Ambernath Manufacturers Association (KAMA)
- Additional Ambernath Manufacturer's Association (AAMA)
- Thane Small Scale Industries Association (TSSIA)

- ◆ **Andhra Pradesh State Energy Conservation Mission (APSECM)**
- ◆ **Andhra Pradesh State Energy Efficiency Development Corporation (APSEEDCO)**
- Marine Products Export Development Authority (MPEDA)**



Time	Activity
May, 2022	Consultative (online) meeting on Japanese low carbon technologies for foundry and textile sectors: Opportunities, barriers & remedial actions <b>(Completed)</b> .
Nov. 2022 -Jun. 2023	Situational Analysis and Needs Assessment on the National Clean Air Programme in India in cooperation with MOEJ, Japan Embassy in India & JETA.
Jan. 2023	Seminar on Initiatives and Issues on Transfer of Japanese Environmental Technology in India through JITMAP Activities in India-Japan Environmental Week.
Feb. 2023	Seminar on Progress and Challenges of India's NCAP and Potential for India-Japan Cooperation (Tentative).



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## 2. Examples of outcomes & issues of JITMAP activities





## 【Case 1】 Awareness raising of steam management system in a seminar of the state government

- Date: Feb. 2020 · Location: Gujarat
- Activity: Introduction of **Steam Management System of TLV International, Inc.** in a seminar of the state government.
- Implementing Partners:
  - 1) **Gujarat Energy Development Agency (GEDA)**
  - 2) **National Productivity Council (NPC)**
- Participants: **About 120 BEE Certified Energy Auditors and Energy Managers.**
- Outputs: Possibility of energy saving by using the steam valves and traps was explained based on results of feasibility studies in Indian industries.



## 【Case 2】 30% energy saving by improving the operating practices

- Activity:
  - Feasibility study** (Sep.2017)
  - Follow-up survey** (Jan.2020)
- Location: Maharashtra
- Target industry: Automobile parts
- Recommendations on the FS by the expert of compressed air system :
  - 1) **To adopt an energy-efficient inverter type compressor.**
  - 2) To improve the **operating practices** such as reducing the air leakage.
- Outcomes of the follow-up survey:  
By implementing most of the recommendations, **the annual power consumption was reduced by about 1.8 million kWh (about INR16 million).**





## 【Case 3】 Energy efficient transmission belt (EETB) (In cooperation with Bando Chemical Industries, Ltd.)

· Period: August-September 2018 · Location: Gujarat

· Activities:

- 1) **Seminar on the EETB** for the Ankeshwar Industries Association.
- 2) **FSs** at local companies which expressed an interest in its application.

· Outcomes:

- 1) As a result of the seminar, **awareness of about 110 participants on the EETB was raised**, and **5 local companies adopted the EETB**.
- 2) As results of the FSs, **energy-saving potentials of about 5 to 15% were identified**, while it was found that **much of the equipment used at companies is of European standards**.  
Therefore, **two companies were proposed to replace both the belt and pulley and adopted them**.
- 3) As a result of a follow-up survey in FY2020, it was confirmed **the EETBs were introduced in 6 local SMEs and 5 large enterprises**.





## Issues

1. Necessity of JITMAP activities to enhance the understanding of various Indian stakeholders, especially SMEs on Japanese Low Carbon and Environmental Technologies.

2. Necessity of strengthening the organization and activities of the JITMAP.

## Way forward

**Continuous implementation of JITMAP activities especially for SMEs** in cooperation with the Japanese & Indian stakeholders including the MOEJ, the Embassy of Japan in India and private companies.

2-1. Expansion of target technologies including **environmental technologies** and **collaborations with Japan Platform for Redesign: Sustainable Infrastructure (JPRSI), the Blue Sky Initiatives, Japan Environmental Technology Association (JETA), The Energy Conservation Center, Japan (ECCJ), etc.**





## Issues

## Way forward

2. Necessity of strengthening the organization and activities of the JITMAP.

2-2. Situational Analysis and Needs Assessment on the National Clean Air Programme in India (On-going).

3. Improving the sustainability of JITMAP activities.

3-1. **Formation of model clusters for technology transfer through intensive implementation of JITMAP activities.**

3-2. **Seeking and establishing deeper cooperation with the local JITMAP Partners** in implementing the JITMAP activities for their own energy efficient programs (e.g. Demonstration Projects, Training for Energy Auditors and Managers).

**ご清聴ありがとうございました。**  
Thank you very much for your attention.