

Report on activities of Japan-India Technology Matchmaking Platform (JITMAP)

(IGES-TERI efforts to promote environmental technologies & better operational practices in India)

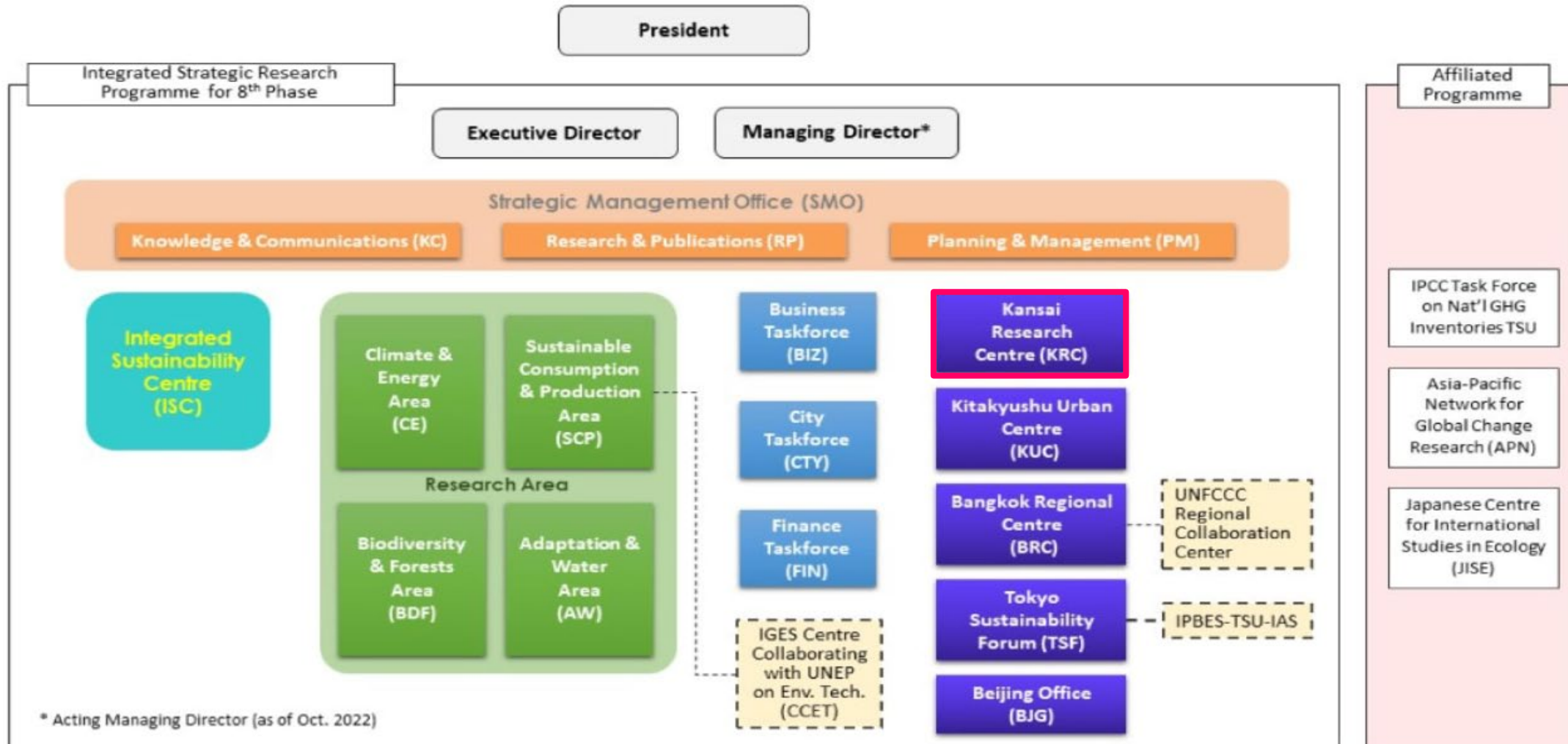
1. Introduction of Japan-India Technology Matchmaking Platform (JITMAP)

Profile of Institute for Global Environmental Strategies (IGES)

Established: March 1998

Aims: Bringing about a transition to a sustainable, resilient, shared & inclusive Asia-Pacific region & the world through:

- Acting as an Agent of Change
- Conducting strategic research to generate collective impact generation with key stakeholders (co-design & co-production)



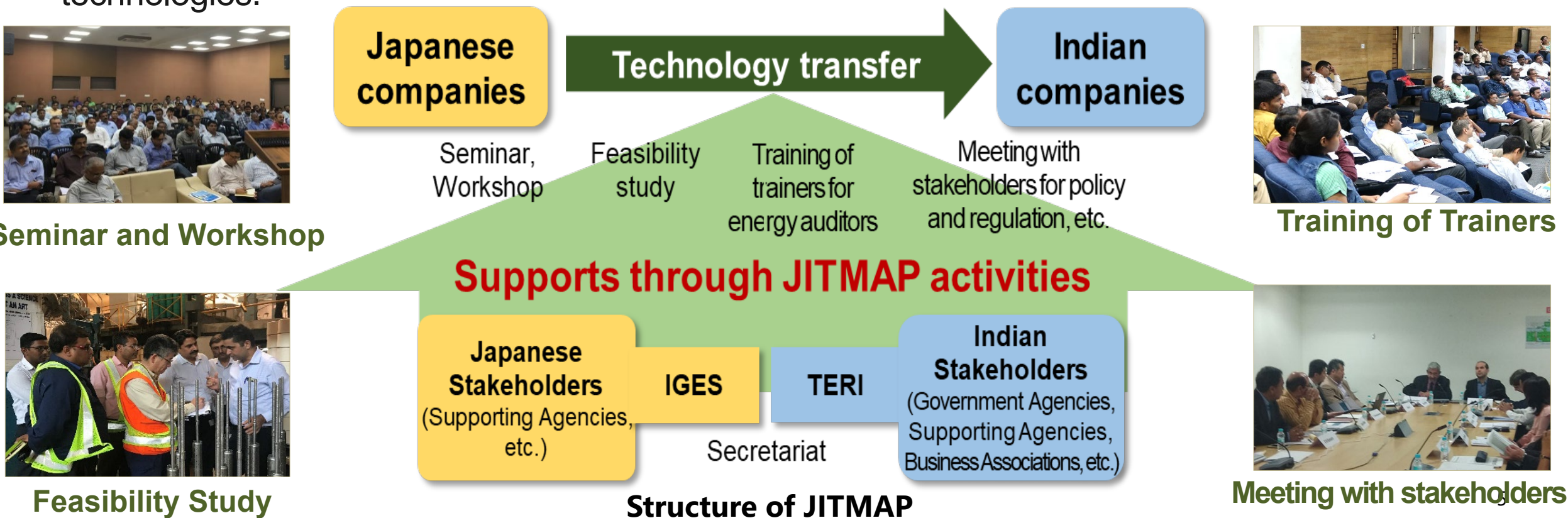
Progress: A decade of promoting Japanese Environmental Technologies in India

2010~2014	SATREPS project successfully implemented Japanese technologies (gas heat pump (GHP) and electric heat pump (EHP)) and introduced better operating practices in induction furnaces and compressed air systems to Indian companies.
2014	JCM (Joint Crediting Mechanism) feasibility study to raise the awareness about JCM scheme among Indian stakeholders and conduct feasibility studies regarding the application of compressed air system in Indian industry.
2015	Ministry of the Environment of Japan (MOEJ) project to identify the possibility of applying Japanese technologies (once-through boilers, steam management systems, and compressed air systems) in India by analyzing opportunities and challenges/barriers.
2016~	Japan-India Technology Matchmaking Platform (JITMAP) launched to promote Japanese low carbon technologies (LCT) such as compressed air system, steam management system, refrigeration system including EHP and energy-efficient transmission belts .
2020~	Target technologies for JITMAP were expanded from LCTs to Japanese environmental technologies .

*SATREPS: Science and Technology Research Partnership for Sustainable Development joint fund by JICA and JST

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.



JITMAP Activities (FY2016~FY2023/12)

Seminars and workshops:

Total: 17

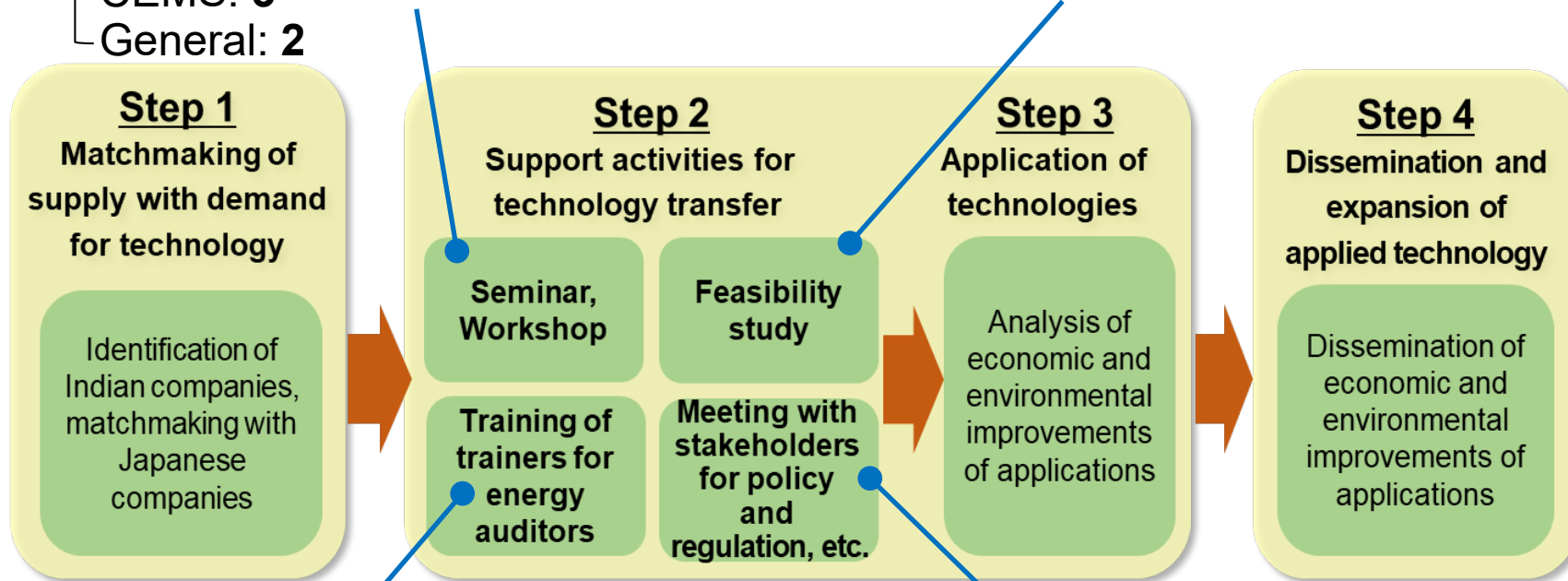
Compressed air system: 5
EHP/Refrigeration system: 2
Steam management system: 4
Energy-saving transmission belt: 1
CEMS: 3
General: 2



Feasibility study (preliminary energy audit):

Total: 54

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



Training of trainers:

Total: 6

Compressed air system: 5
Steam management system: 1

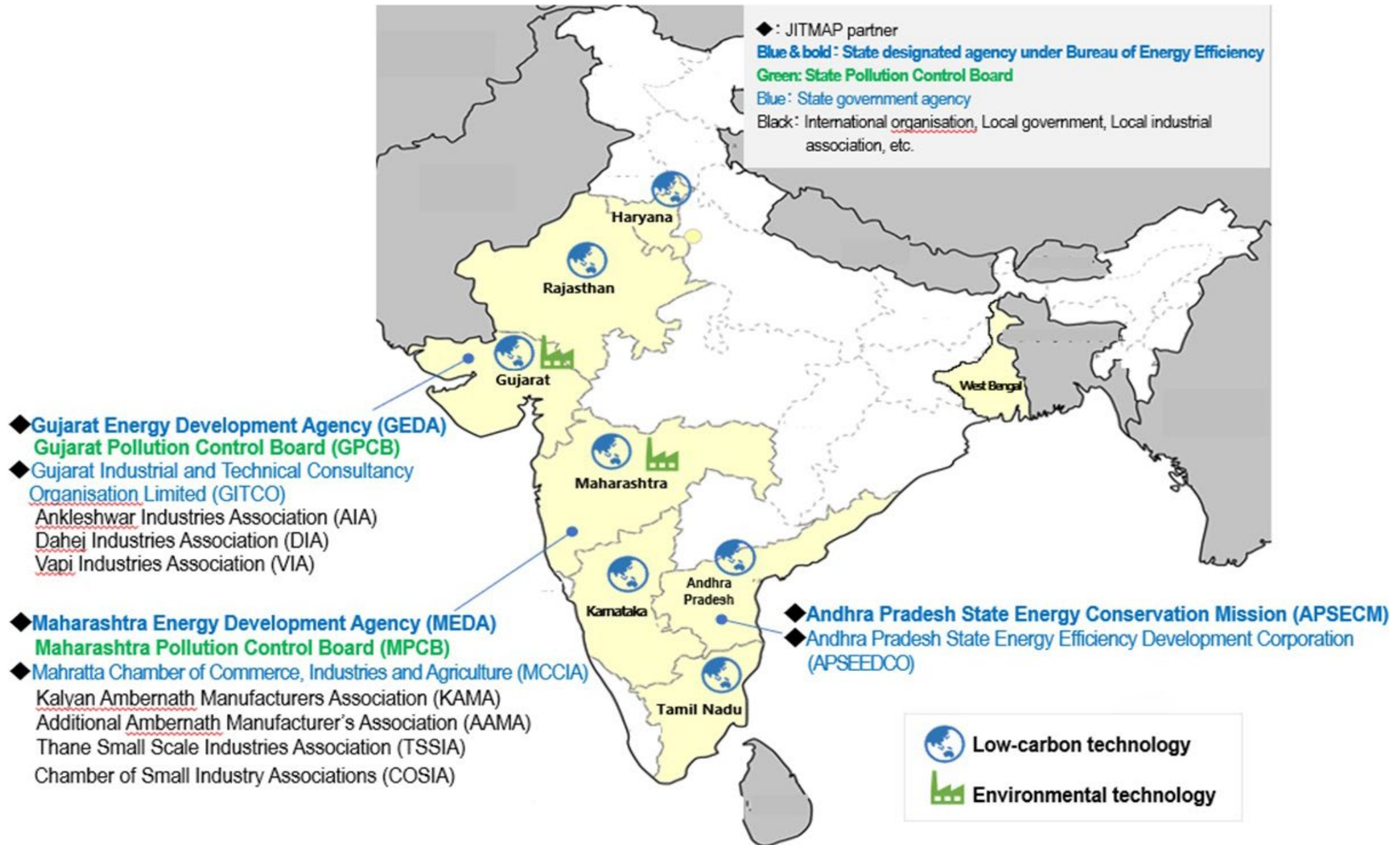


Meeting with stakeholders:

Total: 5

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

JITMAP Partners, Collaborators & Locations of the Activities



2. Outcomes, Lessons learned & Way Forward of JITMAP activities

Examples of outcomes of JITMAP activities

【Example 1】 Energy-saving transmission belt (EETB) (In cooperation with Bando Chemical Industries, Ltd.)

- **Period:** August-September 2018 · **Location:** Ankleshwar, Gujarat
- **Target industries:** Pharmaceutical, glass and comprehensive chemical
- **Activities & Outcomes:**



No.	Activity implemented	Implementation Period	Outcomes
1	Awareness raising seminar	Aug.2018	Awareness of about 110 local stakeholders on the EETB was raised, & <u>5 local companies adopted the EETB.</u>
2	Feasibility Study	Aug-Sep.2018	1) <u>Energy-saving potentials of about 5 to 15% were identified.</u> 2) it was also found that <u>most of the equipment used at these companies were up to European standards,</u> 3) <u>2 companies (Glass) out of 4 adopted the EETB.</u>
3	Follow-up activity	2020	It was confirmed <u>the EETBs were introduced in 6 local SMEs (Chemical) and 5 large enterprises (Chemical) .</u>

Examples of outcomes of JITMAP activities

[Example 2] Awareness Seminar on “Promoting India-Japan collaboration on environment technologies” (In cooperation with Japan Environmental Technology Association (JETA))

- **Date:** February 14, 2023 • **Place:** Pune in Maharashtra
- **Objectives:**
 - 1) To share experiences in India, Japan & other countries to tackle air pollution.
 - 2) To introduce Japanese environmental technologies to participants.
- **Participants:** About 65 participants from government agencies, energy-intensive companies, universities & research institutes, etc.
- **Outcomes:**
 - 1) It was found that **the government agencies welcomed Japanese cooperation in air quality monitoring.**
 - 2) It was found that there are **local needs of improving technical capacities to tackle air pollution.**



Lessons learned and Way forward of JITMAP activities

Lesson learned	Way forward
1. Necessity of JITMAP activities to enhance the understanding of various Indian stakeholders, especially SMEs on Japanese Low Carbon & Environmental Technologies.	Continuous implementation of JITMAP activities in cooperation with the Japanese & Indian stakeholders.
2. Necessity of strengthening the organization & activities of the JITMAP.	<p>2-1. Expansion of target environmental technologies & collaborations with Japan Platform for Redesign: Sustainable Infrastructure (JPRSI), the Blue Sky Initiatives, JETA, JICA, etc.</p> <p>2-2. Situational Analysis & Technology Needs Assessment to identify/update detailed local needs & issues, new target technologies & Implementing Partners.</p> <p>2-3. Making project proposals & seeking the funds (e.g. Joint Crediting Mechanism).</p>

Lessons learned and Way forward of JITMAP activities

Issues	Way forward
3. Improving the sustainability of JITMAP activities.	<p>3-1. Formation of model clusters/areas, etc. for technology transfer through intensive implementation of JITMAP activities.</p> <p>3-2. Seeking & establishing deeper cooperation with the local JITMAP Partners in implementing the JITMAP activities for their own programmes, projects & initiatives (e.g. Demonstration Projects, Capacity Buildings for Local Gov. officials, Training for Energy Auditors & Managers).</p>

PR activities on JITMAP activities and their results

Information on JITMAP activities and their results are shared with you in the JITMAP website & brochures, etc.



Workshop, Seminar, etc.



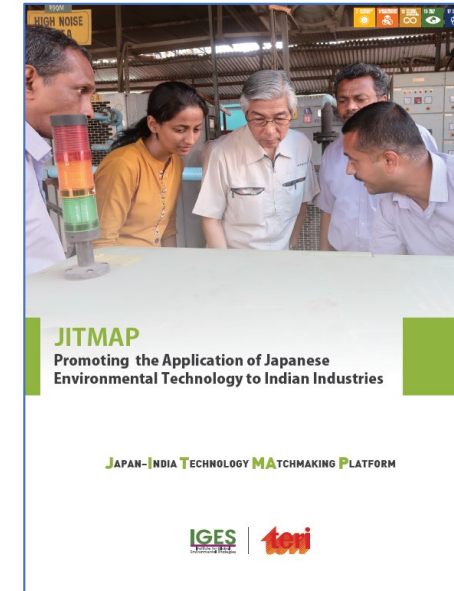
JITMAP Website (English ver.)

<http://jitmap.org/>



JITMAP Website (Japanese ver.)

<https://www.iges.or.jp/jp/projects/jitmap>



JITMAP Brochure



JITMAP Booklet

Thank you for your kind attention

