

Indian Small and Medium Enterprises (SMEs) Apply Japanese Low-Carbon Technologies

- IGES and partners support through matchmaking and piloting -

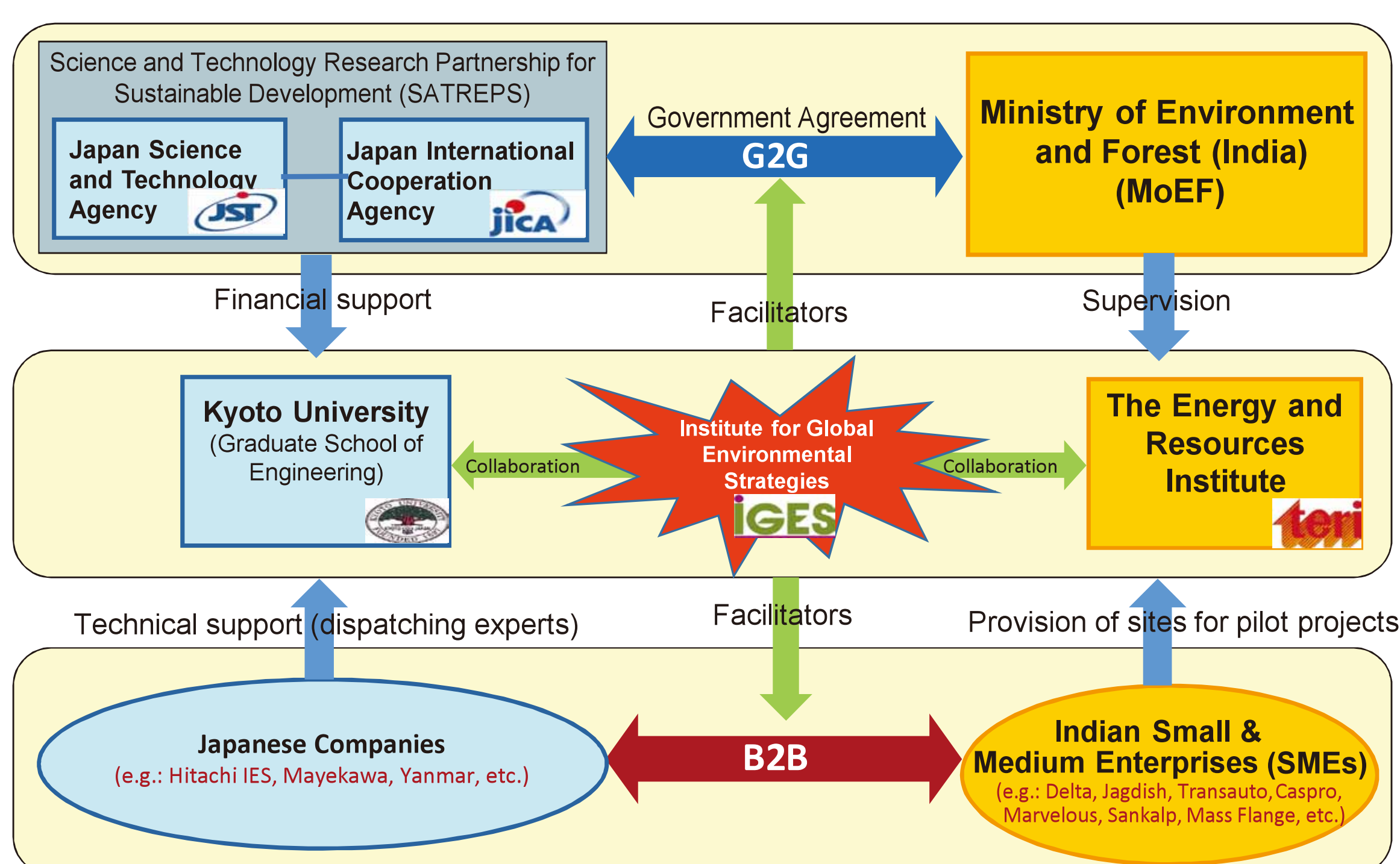
IGES and its partners created a matchmaking process to connect Japanese low carbon technologies (LCT) and small and medium enterprises (SMEs) in India. Pilot projects to test the feasibility and effectiveness of installing these technologies have been successfully implemented, demonstrating reductions in costs as well as CO₂ emissions. This provided the basis for further expanding the transfer/application of Japanese LCT in India.

Issue

There is significant potential for energy cost savings and GHG reductions in Indian SMEs. However, it is difficult for Indian SMEs to obtain information about cost saving LCT technologies, and for non-Indian companies to understand the special circumstances and their needs, so pilot testing and matchmaking are needed to facilitate LCT transfer.

Role of IGES

IGES developed a pilot testing and matchmaking process in cooperation with TERI and various stakeholders from Japan and India, Japanese companies, Indian SMEs, academia (Kyoto University) and government agencies (MoEF) with financial support from JST and JICA.



Pilot projects for 4 Japanese LCT were implemented: gas heat pumps (GHP), electric heat pumps (EHP), compressed air (CA) and induction furnace (IF).



EHP pilot project



GHP pilot project



CA pilot project



IF pilot project

Impacts

- 1) A matchmaking processes among various stakeholders, including private sector, from India and Japan was established.
- 2) Actual reduction in CO₂ emission was achieved.

Tech.	EHP		GHP		CA		IF	
Sites	Amul	Verka	Delta	Jagdish	Mass flange	Sankalp	Caspro	Marvelous
CO ₂ emission reduction	33%	40%	47%	43%	25%	30%	20%	20%

- 3) This project paved the way for further expansion of application of Japanese LCT in India. The implemented pilot projects have been widely covered by Indian media, and had attracted interest of policy makers at high level events such as India-Japan Energy Forum and Delhi Sustainable Development Summit (DSDS).

- 4) SAMEEEKSHA* (Indian knowledge sharing platform) added IGES to its member list and has extensively documented the pilot projects.

*Small and Medium Enterprises: Energy Efficiency Knowledge Sharing — A platform for promoting energy efficiency in SMEs

Way forward

IGES and TERI will continue engaging stakeholders to more widely disseminate these technologies in India, as well as to test the feasibility of new ones. Contribution to bridging India-Japan technological cooperation will be continued.

