Market Feasibility Study on Effective Soap-Based Fire-Extinguishing Agent in Forest Resources Protection with Low Environmental Impacts

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Kitakyushu: Support for the development of environmental business in Asia of small- and mid-sized companies(FY 2015)⑦⑦

In Southeast Asia, peat fires and forest fires occur frequently. This has become a major international issue due to the environmental impacts from CO2 emissions, economic impacts, such as suspended flight services, and smoke damage to neighboring countries. In this project, a study was carried out on the marketability of a soap-based, fire-extinguishing agent in Indonesia that has very little impact on the environment and that is effective in putting out forest fires and can be diffused into the natural environment. The project also conducted a study on distributors and the development of sales channels.

Soap-based fire–extinguishing agent

Product Advantage

		Soap-based fire-extinguishing agent	PhosChek (Made in US)
Firefighting capability		Same	Same
Metallic corrosion		None (SUS, in particular)	High
Environmental Impacts	Aquatic organisms (LD50 of green paramecium)	1500-1800 ppm (About 100 times more safe than PhosChek)	17 ppm
	Biodegradability (State after 4, 2009)	No residue (100% degradation)	About 20% residue
	Environmental impacts (7 months after spraying)	Approximately the same number of organisms growing	All organisms dead

Project Details

Exhibit at WILDFIRE2015

①Preparatory interview survey

②Survey on candidate distributors

③Study on scale of market in Indonesia

IWFC 2015

Field survey in Indonesia

①Survey on sales in Indonesia

②Survey on scale of market in Indonesia