

Workshop Title: **Heat Pump Systems R&D by NEDO**

**Participants :**

	Name	Chair/Speaker	Affiliation
1	Masahide Shima	Chair	NEDO
2	Yasutaka Yoshida	Co-Speaker	Hitachi Appliance Inc.
3	Masaki Koyama	Co-Speaker	Hitachi, Ltd.
4	Shinichi Kasahara	Speaker	Daikin Industries, Ltd.
5	Katsunori Nagano	Speaker	Hokkaido University
6	Masashi Momota	Speaker	Tokyo Denki University



**Abstract :**

**- Objective**

- To share the achievements of NEDO projects on heat pump technologies.
- Support of Commercialization of NEDO technologies.
- Discuss and exchange opinions on new ideas on technologies to achieve greater “energy saving”.
- To share the direction of heat pump systems R&D by NEDO.

**- Background**

The Ministry of Economy, Trade and Industry of Japan (METI) has set a target to reduce Japan’s energy consumption by 18% (72 million kilo L of crude oil equivalent) till 2030. To achieve this goal, New Energy and Industrial Technology Development Organization (NEDO) has positioned heat pump technology as one of the promising technologies for reducing energy consumption. Based on this concept, NEDO has been promoting national R&D projects and proposal based projects on heat pump technologies.

**- Presentations**

1. Introduction of NEDO Heat Pump R&D Project (Mr. Masahide Shima, NEDO)
2. A Heat Pump System that Improves Annual Efficiency by Fitting the Actual Air-conditioning Load (Mr. Yasutaka Yoshida, Hitachi Appliance Inc. / Mr. Masaki Koyama, Hitachi, Ltd.)
3. Research and Development of Innovative Energy Saving Controls for Multi Zone Heat Pump System for Buildings (Mr. Shinichi Kasahara, Daikin Industries, Ltd.)
4. Development of a desiccant ventilation system using Wakkanai siliceous shale as natural meso porous material (Professor Katsunori Nagano, Ph.D. Hokkaido University)
5. Development of “High Density Cold Energy Network System” with Pure Water Ice (Associate Professor Masashi Momota, Ph.D. Tokyo Denki University)



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