### ATMOsphere Bangkok 2013



### Mayekawa Organization in Asia

25th Meeting of the Parties to the Montreal Protocol

2013.10.24

MAYEKAWA (THAILAND) CO., LTD

MD: KOUSUKE YAMAMOTO







#### 12 overseas office in

East Asia, South Asia, South East Asia and Oceania



# ΜΛΥΕΚΛΜΛ

#### MAYEKAWA (THAILAND) CO., LTD.

Founded: 1988

Headquarters: 3F, Tower A Bangna Tower,

6.5km Bangna RD. Bangplee, Samutprakarn 10540

Capital: 20 million baht

Sales: 900 million baht ~

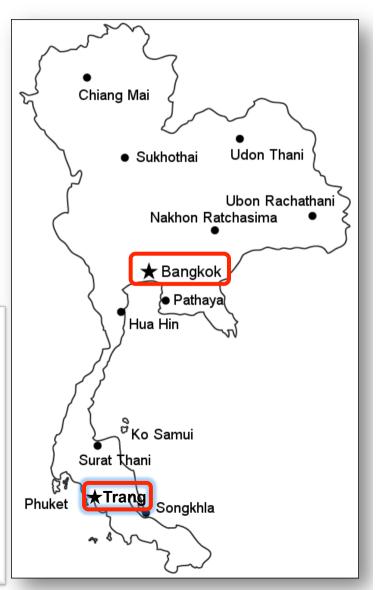
No. of employees: 100

A branch office: Trang

#### **Business Activities**

- Sales and after-sales service of MAYEKAWA COMPRESSORS & HEAT PUMPS
- Plant engineering, design and installation
- Design, manufacture and installation of various MAYEKAWA FREEZERS
- Supply of food machinery (Toridas/poultry auto-deboning machine)





#### Food Processing Plant / Cold Distribution Centre



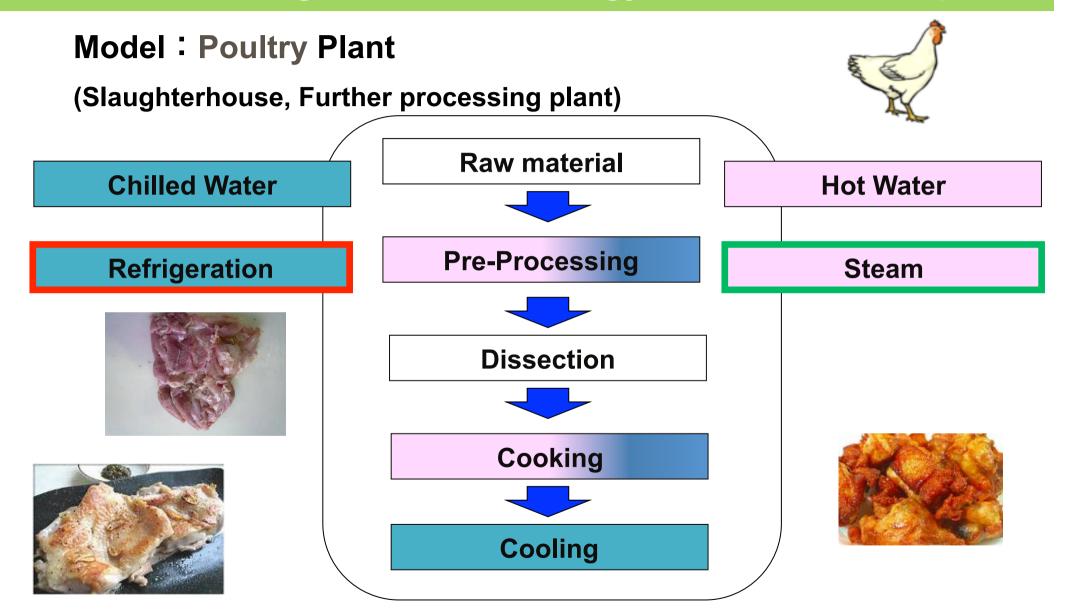








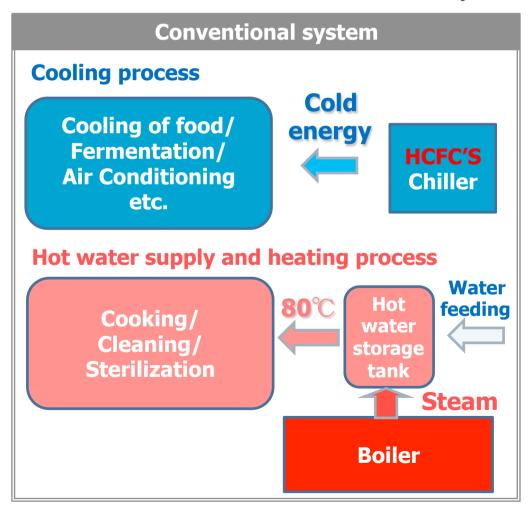
### Natural Refrigerants Technology <CO2 Heat Pump>



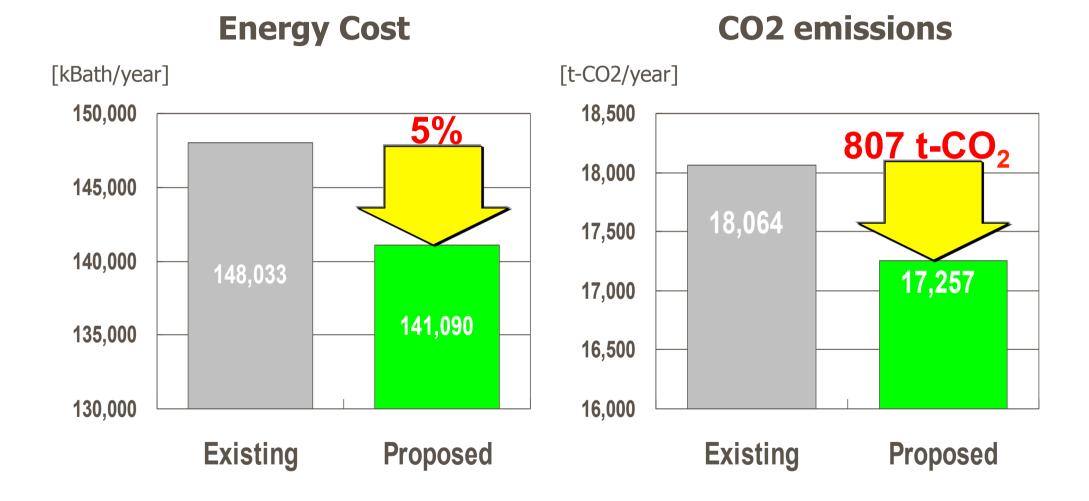
### Natural Refrigerants for a 'CO2 Heat Pump'

### **Energy Saving as well as HCFCs FREE**

Technology is available in the industry
Introduction of heat recovery heat pump in manufacturing process



### Natural Refrigerants Technology <CO2 Heat Pump>



⇒ Payback year 5~7 years

### Natural Refrigerants for a 'CO2 Heat Pump'

## SUSTAINABLE DESIGN

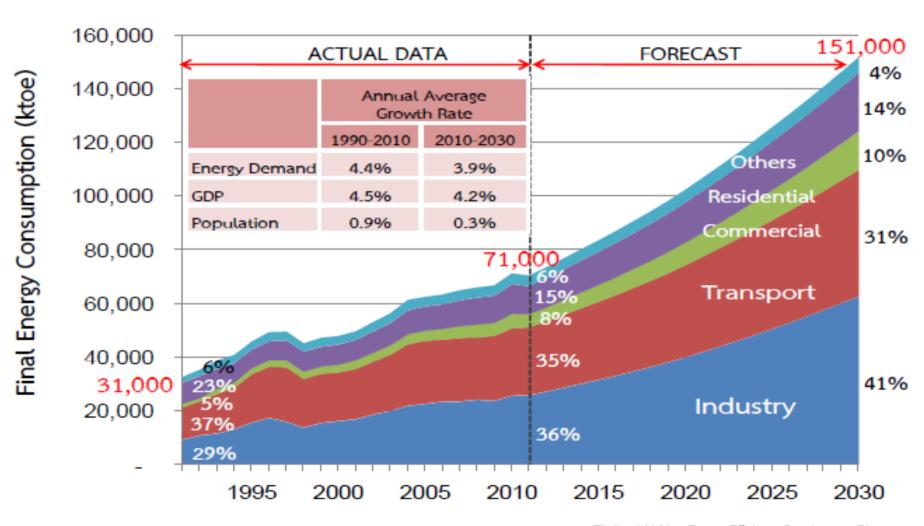
## NATURAL REFRIGERATION SYSTEM

## (IN THAILAND)



### **Background and Natural Refrigeration System**

### Trend of energy consumption in Thailand



### **Background and Natural Refrigeration System**

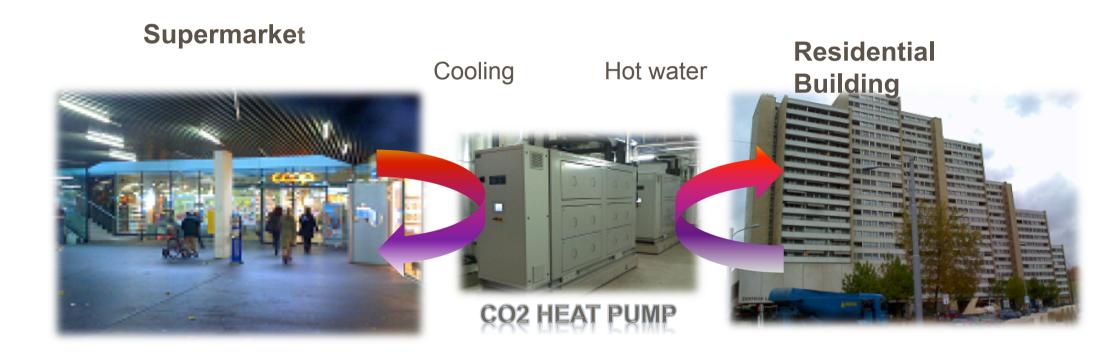
### Breakdown of industrial energy consumption (2009)

Industrial Cluster	Energy Consumption (ktoe)	Share (%)
Non-metal	7,406	31
Food and beverage	7,282	31
Chemical	2,439	10
Paper	1,836	8
Basic metal	1,030	4
Others	3,202	16
Total	23,195	100

Thailand 20-Year Energy Efficiency Development Plan

### CO2 Heat Pump Water Heater

# Heat recovering of Supermarket waste heat Hot Water supply installation in Switzerland



35% Electricity consumption reduction

# Thank you