

Member Briefing – JAPAN

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Top 3 issues in 2016 - JRAIA

1. Activities to revise the safety law.
Mitigation of “High Pressure Safety Act”
2. Global refrigerant management
Appropriate refrigerant with safety and economic performance is necessary
3. Support “the Act on Rational Use and Proper Management of Fluorocarbons”

Measures to prevent global warming in Japan

Japanese government's policy on “Long-term Energy Demand and Supply Outlook” as well as the following activities;

1) Technology development (energy efficiency) :

- NEDO projects including the performance evaluation of new alternative refrigerant for RAC use
- R&D by each companies



2) Promote the safe use of refrigerant

- Mitigation of regulations related to “High Pressure Gas Safety Act”
- Risk assessment for safety of refrigerant with collaboration of industry, government and academic field

Measures to prevent global warming in Japan

3) Enhance the penetration of the energy efficient equipment :

- Incentive program and tax benefit for the promotion of energy-efficient equipment

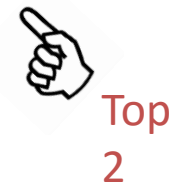


4) Refrigerant management based on “Act on Rational Use and Proper Management of Fluorocarbons”

- Inspection, training, and certification to prevent the leakage of F-gas

5) Global activities

- Support the penetration of energy-efficient equipment in south-east Asia
- Participate in High Ambient Temperature testing program (U.S.; DoE)
Carry out a analytical simulation for High Ambient Temperature
- Participate in the activities including GRMI and RDL



Update of Risk Assessment for L.F. Refrigerants

Risk assessments has been carried out in Japan for lower flammability refrigerants (A2L). **Studies have been almost finished** for various types of products.

→ **Safety Guidelines** and **JRA standards** are now under discussion with **the safety requirement**.

		Risk Assessment (A2L)	Current situation
Split	Residential	Completed in 2013	The shipment of high walls with R32 has reached approx. 100% in 2015.
	Commercial (smaller products)	Completed in 2015	Started to place on market.
VRF, Chiller, GHP		Completed in 2015	Safety guideline under discussion (will be finished at the end of 2016)
Refrigeration		Ongoing(-2016)	Safety requirement under discussion

The detail of the RA will be published in “Kobe sympo” in December 2016.

Thank you for your kind attention.