

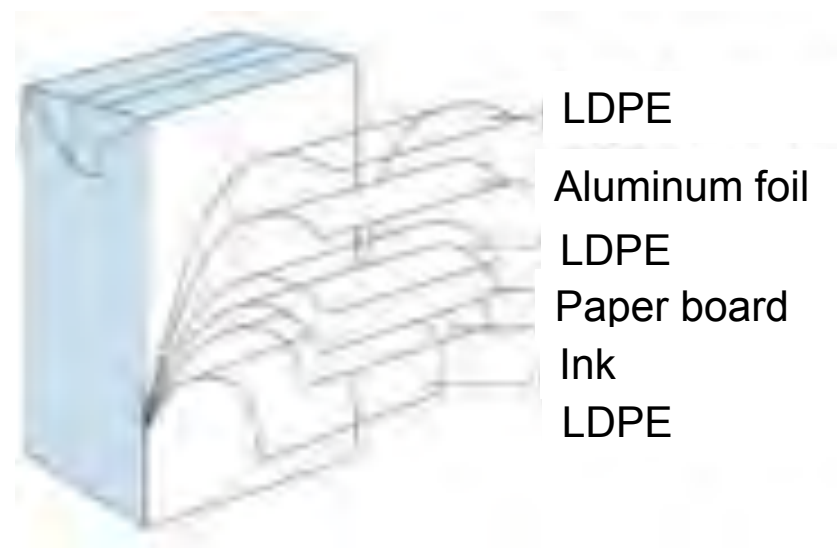
LL Paper pack Recycling study group

Agenda

1. Background and Organization
2. Main activities
3. Summary

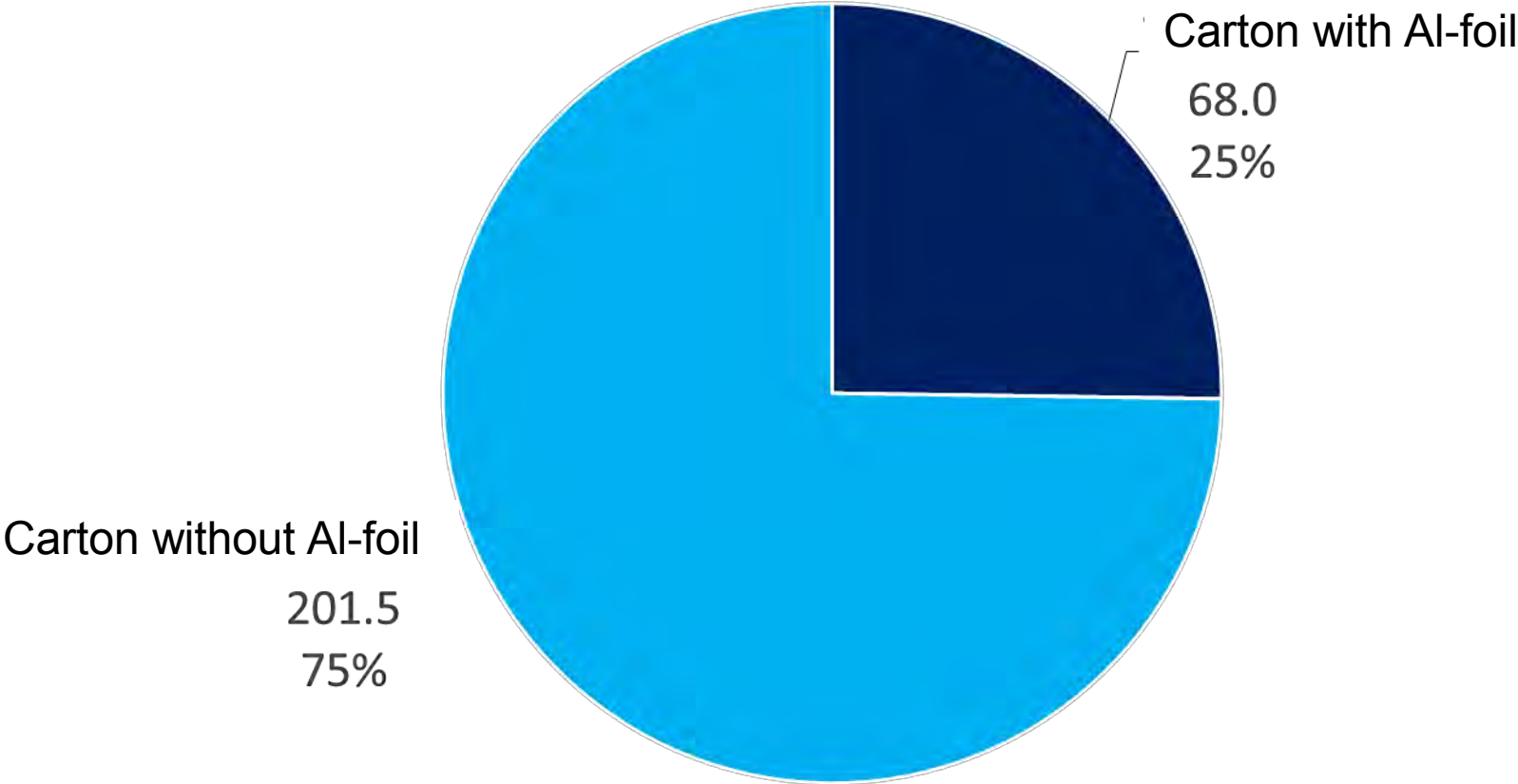
What is LL paper pack?

- LL is an abbreviation word of “Long Life”.
- LL paper pack is a paper package, utilizing renewable material (approx. 70%) and taking advantage of the strengths of Polyethylene and Aluminum foil, which secures the quality preservation period of several months and meets the needs of the advanced market.
- Sales tonnage of LL paper pack is quarter of all beverage carton in Japanese market.



Sales tonnage of Beverage carton w/wo Al-foil

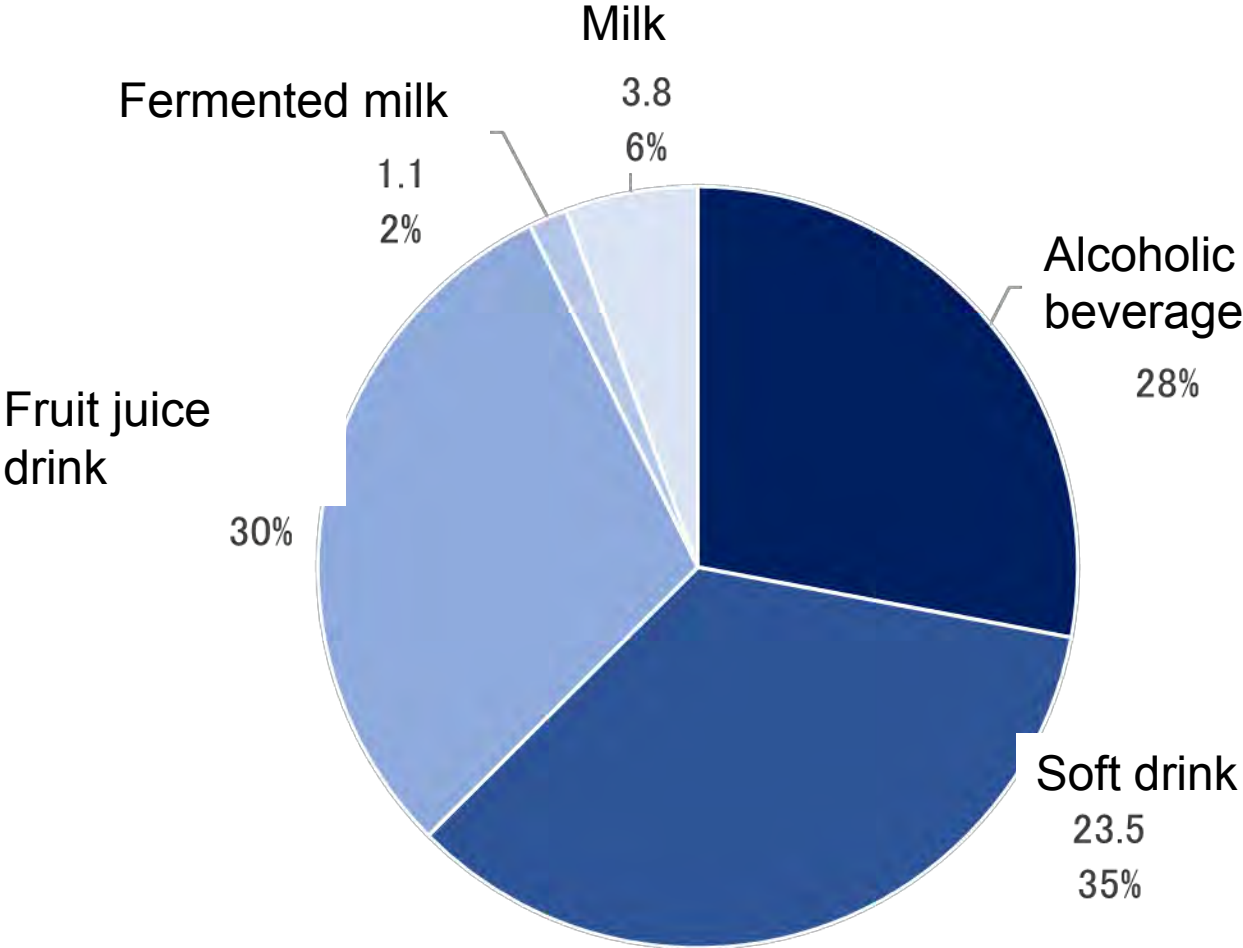
(Sales tonnage in FY2014 in Japan Unit: K tons)



Data from COMCEI and Printers association

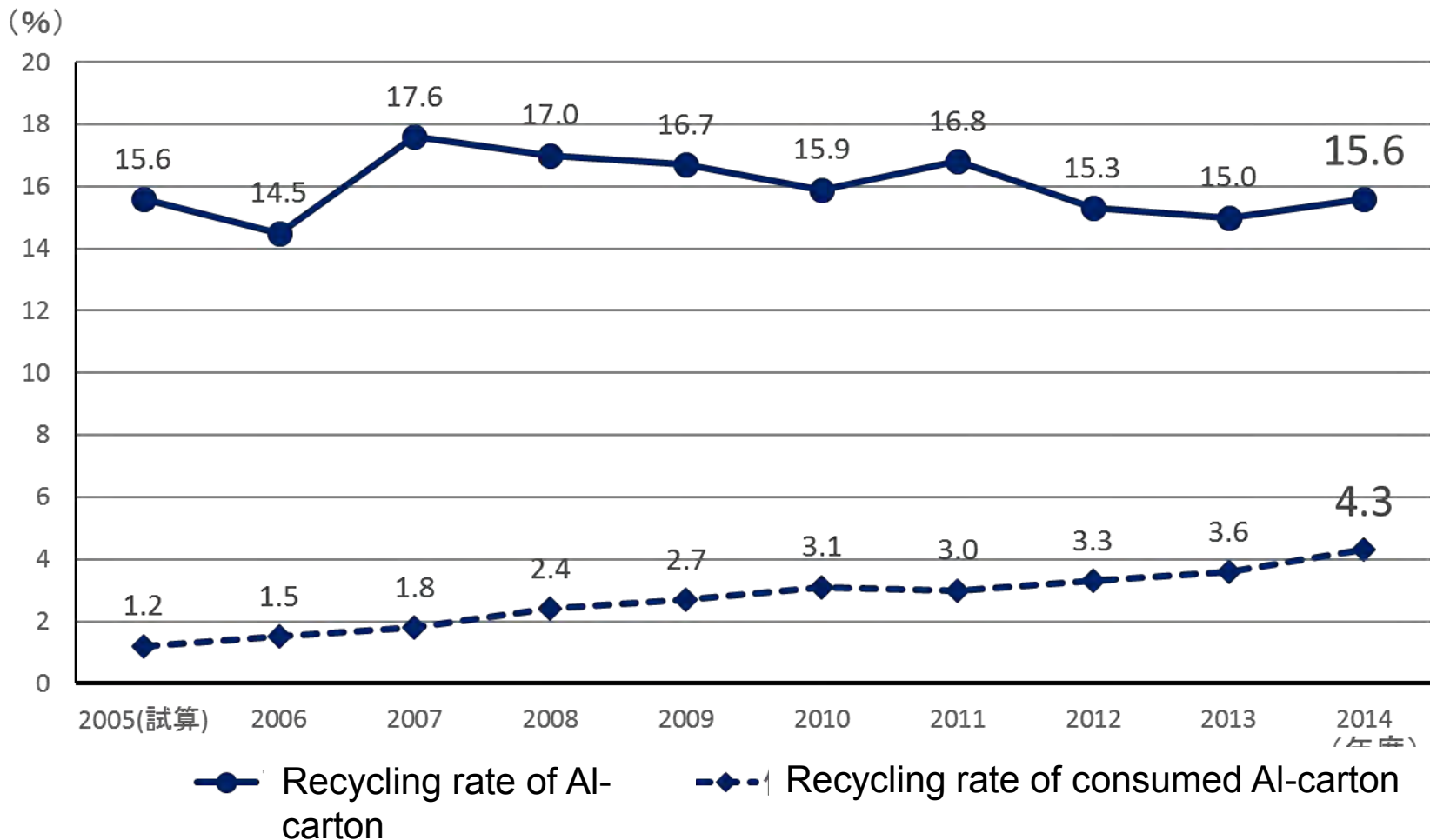
Sales tonnage of Carton with AI-foil by type of contents

(Sales tonnage in FY2014 in Japan Unit: K tons)



Data from COMCEI and Printers association

Recycling rate of Carton with Al-foil



Data from COMCEI and Printers association

1. LL study group Objective and Policy

[Objective]

In order to make effective utilization of resource and energy and contribute to the formation of recycling-oriented society, we conduct the investigation, research and education in group members regarding LL carton recycling.

[Basic policy]

1. Investigation and research regarding LL carton recycling
2. Compiling and disseminating environmental superiority about LL carton
3. Expansion of member of LL carton user and organization

1. LL study group History

FY	Main events
2007	Launched working group regarding LL carton recycling in Japan Printers association. 7 beverage carton manufacturers joined the group.
2008	LL Carton recycling promotion study group was launched officially. Not only 7 carton manufacturers but also 22 companies and associations joined the group.
2009	Some used paper dealers and paper mills joined the group.
2016	Number of member is 33 today.

1. LL study group Member

	Type	Company/ Association
1	Full	ITO EN, LTD.
2	Full	KAGOME CO., LTD.
3	Full	Kikkoman Beverage Company
4	Full	Kirin Company, Limited
5	Full	Kumamoto Kajitsu Nogyo Kyodo Kumiai Rengokai
6	Full	EZAKI GLICO CO., LTD.
7	Full	GOLD-PACK CORPORATION
8	Full	SHIKOKU KAKOKI CO.,LTD.
9	Full	Nagoya Seiraku Co.,Ltd.
10	Full	Nissei Company, Ltd
11	Full	FUKUREN Co., Ltd.
12	Full	MARUSAN-AI Co., Ltd.
13	Full	Meiji Co., Ltd.
14	Full	MORINAGA MILK INDUSTRY CO., LTD.
15	Full	Yakult Honsha Co.,Ltd.
16	Full	MEGMILK SNOW BRAND Co.,Ltd.
17	Full	ISHIZUKA GLASS CO.,LTD.

	Type	Company/ Association
18	Full	Dai Nippon Printing Co., Ltd.
19	Full	TOKYO PAPER MFG.CO.LTD.
20	Full	TOPPAN PRINTING CO., LTD.
21	Full	NIPPON PAPER INDUSTRIES CO., LTD.
22	Full	Nihon Tetra Pak K.K.
23	Full	BF & Package Co.,Ltd.
24	Full	Japan Soft Drink Association
25	Full	JAPAN SOYMILK ASSOCIATION
26	Full	Japan Dairy Industry Association
27	Full	Printers Association of Japan
28	Full	West Rock Asia K.K.
29	Supporting	CORELEX SHIN-EI MFG.CO.,LTD.
30	Supporting	Marutomi Seishi Co.,Ltd.
31	Supporting	Yamada Yoji Shoten LTD.
32	Supporting	Nisseysangyo Co.,Ltd.
33	Supporting	YONEDA TRADING Co.,LTD

2. Main activities

[Periodical activities]

July	Study session for information sharing
Sep. – Oct.	Recycling factory tour
December	Eco-products exhibition

[Others]

- Website update
- Newsletter (Biannual)
- Investigation of best practice for AI-carton recycling
- Leaflet to disseminate the best practices
- Lobbying (if necessary).

2. Main activities ~ Study session



- Presentation by external and internal stakeholders regarding Best practices of AI-carton collection and recycling.
- Every year
- Approx. 75 participants.
- Main external lecturer
Retailers, Restaurant and coffee shop business, Municipality, Paper and Pulp mills, etc.

2. Main activities ~ Recycling factory tour



- Visit to Paper mill and Intermediate facility (Used paper dealer, Post consumed carton rinsing facility and municipality recycling plaza etc.) as factory tour.
- Every year
- Approx. 30 participants



2. Main activities ~ Eco-products exhibition



- Collaborative display with NPO Atsumete Tsukau Recycling association and Printers association
- Information dissemination regarding AI-carton recycling
 - Display of AI-carton products
 - Explanation of LL carton, including recyclability.
 - Best practices
 - Distribution of flier

2. Main activities ~ Website update / Information sharing



Website

Flyer, Leaflet



Research report

Summary

- **Contribute to the formation of recycling-oriented society through the collaboration with various stakeholders.**
- **Aim the flow of AI-carton recycling that consumer can easily participate in, taking into account of social cost.**