

Challenge for Japanese dairy farmers and the way they will cope with them

YOSHINOBU NAKATSUJI, DVM
APAC Regional Nutrition & Health solution manager Ruminants
DSM Japan Animal Nutrition & Health Division

Young Generation for dairy

Age breakdown of dairy farms in Hokkaido

Age	Dairy farm number		Ratio	
	in 2007	in 2017	in 2007	in 2017
over 70	60	49	1.4%	1.8%
60-69	465	779	11.0%	28.6%
50-59	1930	827	45.8%	30.4%
40-49	1229	654	29.1%	24.0%
30-39	487	386	11.5%	14.2%
under 30	47	26	1.1%	1.0%
total	4218	2721	100.0%	100.0%
Average age	50.5	52.7		

Age breakdown of dairy farms in all Japan

Age	Dairy farm number		Ratio	
	in 2007	in 2017	in 2007	in 2017
over 70	1289	1025	10.5%	14.1%
60-69	2853	3068	23.1%	42.1%
50-59	5269	1725	42.7%	23.7%
40-49	2203	1039	17.9%	14.3%
30-39	626	391	5.1%	5.4%
under 30	88	43	0.7%	0.6%
total	12328	7291	100.0%	100.0%
Average age	56.1	59.2		

Source: Japan dairy council

Dairy farming number dropped down,
but young generation enter the market, especially in Hokkaido

New generation wants

1. Labor saving

<Background>

- / Young generation have an ambition to enlarge farming(=increasing cow's number)
 - From family business to big farming(≠ company)
- / Difficult to find labors in dairy area(rural area)
- / Holiday rotation
 - Not 365d working

<For the future>

- / Install new equipment for automation
 - Automatic milking system
 - User number 300 farms(appx. 430 machines) in 2017
 - Automatic feeding system
 - Heat and disease detection system
- / Human resource development system



Source: Lely catalogue

New generation wants

2. Farming at easy access to big city(consuming area)

<Background>

/ Population of urban area will be bigger next decade.

/ It will be so far from dairy production field to consuming area

/ If easy access to dairy field, easy to find labor and to deliver the products

<For the future>

/ Develop the new concept of dairy farming near big cities

- Products & Solutions for malodor problems, manure,,,

/ Floating dairy farming???



New generation wants

3. Manure handling & disposing

<Background>

/ Bigger farming,

must manure control

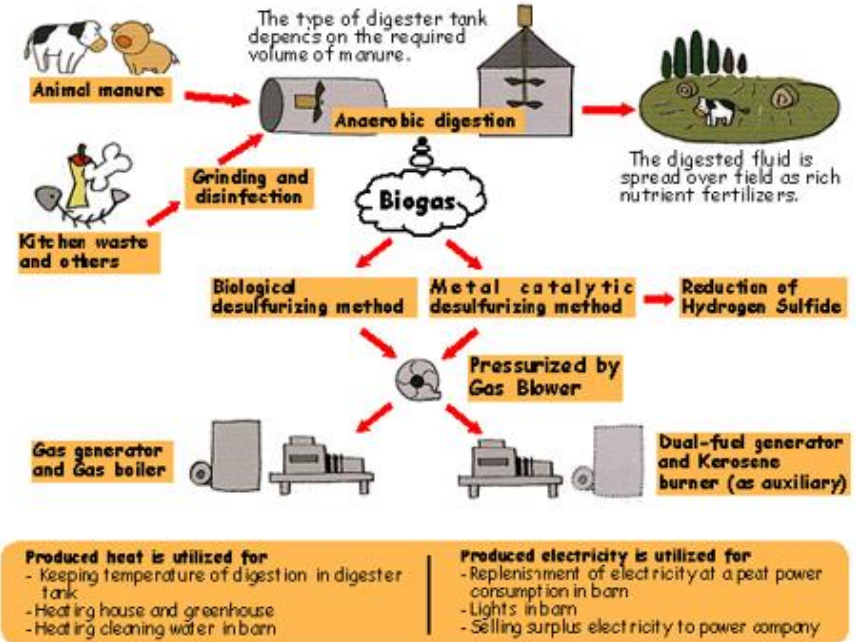
/ It will be big issue

<For the future>

/ Develop recycling system

/ How to apply manure to others

-for energy, for flower plantation,
mushroom bed,,etc



Source: Kyodo international inc.

<https://www.kyodo-inc.co.jp/english/environment/biogass/index.html>

New generation wants

4. Eco-feeding

<Background>

/ After BSE, Feeding animal protein & ingredients to ruminants has been banned in Japan.

/ Recently, some companies launched insects for animal feeding

<For the future>

/ Develop alternative ingredients for ruminants

/ Nutritional utilization with by-products



Source: <https://musca.info/>

New generation wants

5. Self-supplied feed

<Background>

- / Feed for animals depends on imported feed
- / Reducing acreage of rice for human.
- / On the other hand, try developing whole crop silage

<For the future>

- / Develop new variety of crops for dairy cows
- / Develop new products for improving FCR



Rice for feed

Today's Message

1. Already a lot of products that are nutritional, equipment,,etc from domestic & international companies. Need to look at it from different perspective.
2. Grab the new generation wants & discussion with them
3. “Sustainable” is key word for next dairy farming.
Sustainable means ecofriendly, continuous, attractive, proud,,,



*If not us, who?
If not now, when?*

WE MAKE IT POSSIBLE

