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Zero Waste by 2020



# Z E R O W A S T E K A M I K A T S U

The Zero Waste Measures of Kamikatsu, Tokushima Prefecture

Zero Waste Academy (Registered Non-profit organization)

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## **Kamikatsu Zero Waste Declaration**

In order to pass on to future generations an environment with clean air and water, and fertile land, Kamikatsu hereby issues the Kamikatsu Zero Waste Declaration, manifesting our firm commitment to reduce waste to zero by 2020.

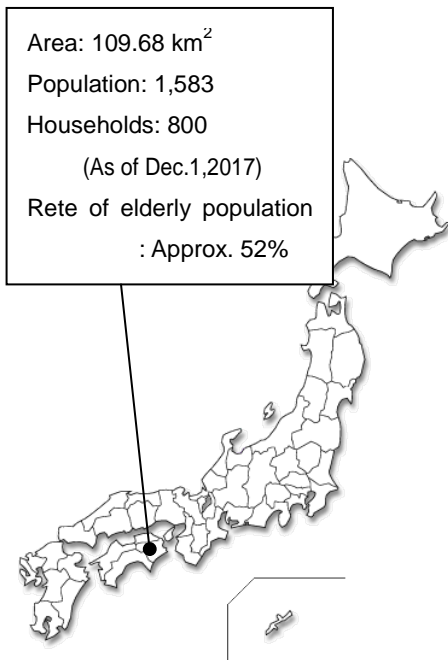
1. Kamikatsu will strive to foster ecologically conscience individuals.
2. Kamikatsu shall promote waste recycling and reusable resources to the best of its ability for eliminating waste incineration and landfill by 2020.
3. Residents of Kamikatsu shall join hands with people around the world for ensuring sustainable global environment.

September 19, 2003  
Kamikatsu, Katsuura, Tokushima

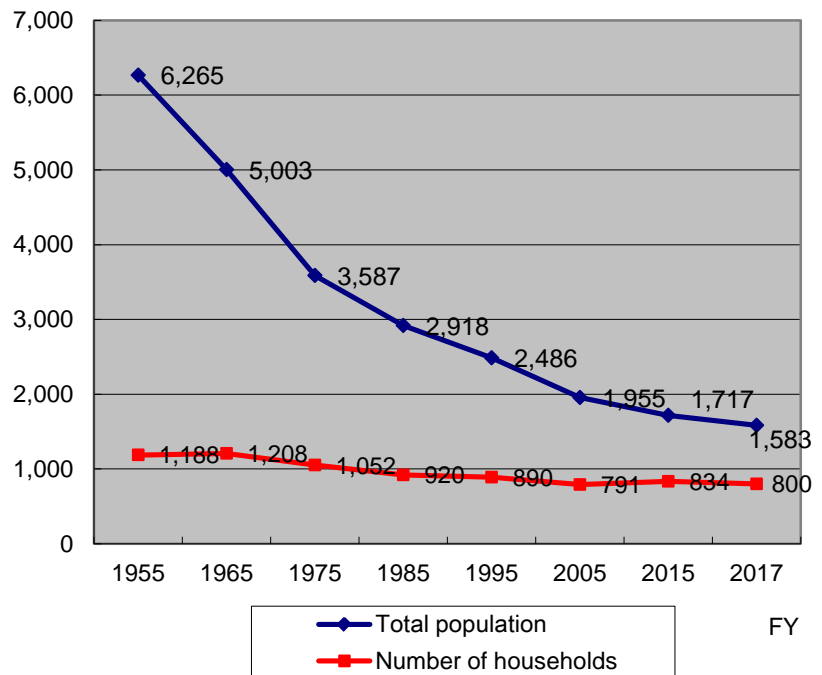
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# 1. Overview of Kamikatsu

Kamikatsu is located approximately 40 km from Tokushima City. It is situated in the mountainous area of southeast Shikoku Mountains with Mt. Takamaru as its highest peak (1,439 m). With 85.4% of its area covered by mountains and forests, there is almost no flat land. Fifty-five small and large settlements are scattered throughout the area at an altitude between 100 and 700 m. The population of Kamikatsu has been decreasing annually since municipal merger in 1955. It is the least populated yet still depopulating municipality in Shikoku, with the rate of elderly population exceeding 50%.



Change in population and number of households in Kamikatsu



# 2. History of Waste Disposal in Kamikatsu

Year	Disposal method		Summary
1991	Open incineration		Commenced subsidies for the purchase of household composters (until 1999, 3,100 yen out of approx. 6,000 yen paid by residents)
1993			Survey on household waste conducted on all households
1994			Formulation of the Kamikatsu Recycle Town Plan
1995			Commenced subsidies for the purchase of household organic electric composters (10,000 yen out of approx. 50,000 yen paid by residents)
1997	Open incineration	9 segregation categories	Enactment of Act on the Promotion of Sorted Collection and Recycling of Containers and Packaging (National level) Commenced separate collection of wastes under the Act (clear, brown and other colored glass bottles, aluminum cans, steel cans, spray cans, milk cartons, incineration waste, bulk waste) Separation of cardboard and paper phased in
1998	22 segregation categories		Installed two small incinerators (February)
2000			Enactment of "Law Concerning Special Measures against Dioxins"

		(National level)
2001	35 segregation categories	Strengthened dioxin regulations with the enactment of the Waste Management and Public Cleansing Act (National level) Shut down small incinerators, commenced separation of waste into 35 categories (January) Volunteer group “Recycle Kamikatsu” helped transport waste from households to the collection center
2002	34 segregation categories	Plastic bottles, containers and packaging were moved to the same category, resulting in 34 segregation categories. Environmental monitoring committee “Gomi (waste) Rangers” is established. (Patrolling for and removal of illegally dumped garbage, educating residents about garbage separation, etc.)
2003		Kamikatsu Municipal Assembly adopted the Zero Waste Declaration.
2004		Commenced creation of <i>zabuton</i> cushions with recycled discarded <i>futon</i> bedding (December)
2005		Establishment of Non-profit organization Zero Waste Academy (April)
2006		Commenced transport support program for the elderly (once every two months for eligible households) Opened “Kuru-kuru Shop” as a center to promote the reuse concept
2007		Opened “Kuru-kuru Craft Center” in the Care Prevention Center to sell products made with old fabrics, clothing and recycled cotton
2008		Started free lending system for reusable tableware purchased with the Zero Waste Promotion Fund, to eliminate single-use tableware consumption at festivals
2014		Commenced the Recyclable Paper Point Campaign
2015		Formulated the Kamikatsu Zero Waste Town Plan
2016		45 segregation categories
2017	Renewed the Resource Segregation Guidebook for residents Established the Zero Waste Accreditation system	

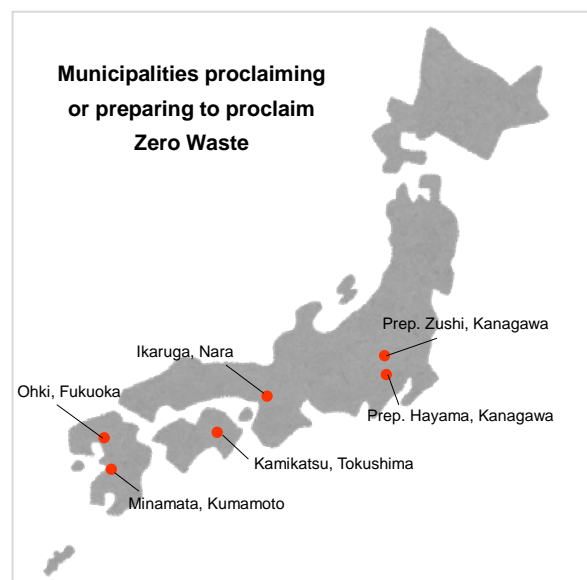
### 3. What is Zero Waste?



[zero] = 0, [waste] = waste of energy, money and materials, garbage

“Zero Waste” embraces a vision aiming at preventing, reducing, reusing and recycling waste while promoting industrial process for manufacturing sustainable products. This will lead to the elimination of harmful waste being incinerated or placed in landfills.

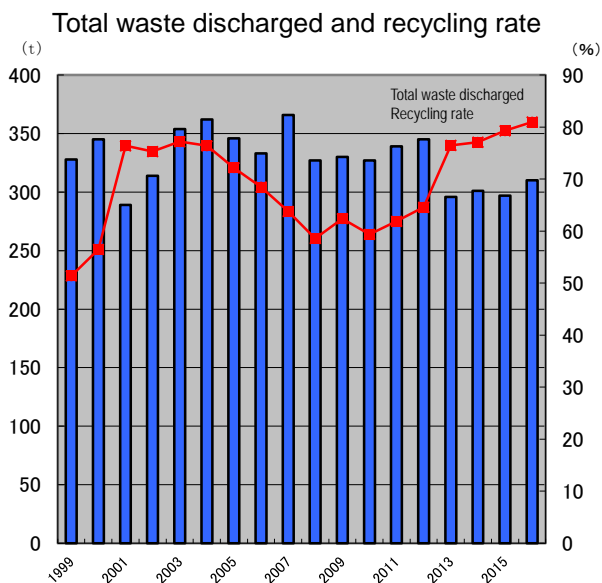
Over 100 areas overseas, for example, cities in California State and New York City in the US, Canberra and cities in South Australia State in Australia and 50% or more of the municipalities in New Zealand, have adopted garbage disposal policies with target years established to achieve zero waste.



In Japan, Kamikatsu in Tokushima Prefecture was the first municipality to make Zero Waste Declaration, followed by Oki Town, Mizuma in Fukuoka (population of approximately 14,000), Minamata Cityt in Kumamoto (population of approximately 25,000) and Ikaruga Town in Nara (population of approximately 28,000). Other municipalities that have not made the declaration but have instituted zero waste policies to reduce incineration and landfill are Osaki Town, Soo in Kagoshima (population of approximately 13,000), Hayama Town in Kanagawa (population of approximately 33,000) and Zushi City in Kanagawa (population of approximately 58,000).

#### 4. Zero Waste in Kamikatsu —Property if used, resource if separated—

Kamikatsu is moving forward with recycling and reusing to reduce as much incinerated and landfill wastes as possible. In FY2016, the municipality achieved 81% recycle rate. In addition to promoting residents to recycle and reuse, the municipality is also encouraging local residents not to purchase or use products that may end up as waste, and requesting manufacturers to produce products that can be easily and safely disposed of to stop waste generation at its origin.



### <Recycle>

#### (1) Organic waste composting

Subsidies for the purchase of electric composters (starting in 1995) and compost bins made it possible for home-generated organic waste to be composted and returned to the earth. Commercial establishments also jointly purchase and manage business use electric composters for composting waste generated by their businesses.



Compost bin



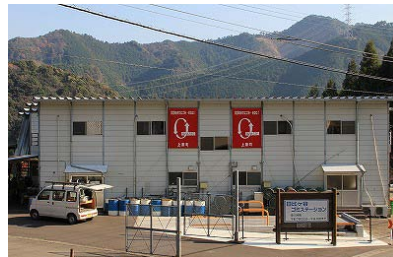
Electric composter

\*Subsidy amount for the purchase of electric composters (priced at 52,000 yen): 42,000 yen

Designated model: Gomi Easy by Hikari Kogyo Co., Ltd.

## (2) Separation of waste and recycling

Non-organic waste is washed at home and brought to Hibigatani Waste and Resource Station in Kamikatsu, where waste is segregated by local residents themselves. The Station is open every day from 7:30 AM to 2:00 PM with the exception of three days during the New Year holidays. Local residents may bring waste at any time during the business hours. Staff on site assists separation.



Hibigatani Waste and Resource Station

Q. What if I cannot bring in waste by myself?

A. Zero Waste Academy provides a fee-based transport service for odd-numbered months, collecting garbage from households permitted by the municipality. Such households include elderly residents without automobiles. Those households are provided with subsidies to help cover the collection fee and charged only 10 yen per 45 liter of waste and 270 yen for bulk waste.



Segregating wastes

## <Reuse>

### (3) Reuse Center “Kuru-kuru Shop”

Clothing, tableware and sundries that are no longer wanted but still usable are brought and displayed at this free reuse shop. Only Kamikatsu residents are allowed to bring in items while anyone can take home what they find useful. The rule is to weigh everything that is brought in and taken out in order to monitor how much is being reused each year. In FY 2016, approximately 15 tons of items were brought in and approximately 15 tons of items were taken home as well. Approximately 80 to 90% is being re-used every year.



Kuru-kuru Shop

### (4) Remake Shop “Kuru-kuru Craft Center”

The Kuru-kuru Craft Center is in the Kamikatsu Care Prevention Center, next to the Hibigatani Waste and Resource Station. It is a place where clothing, fabrics, and carp streamers that are no longer used are reworked for sale by craftsperson from within and outside of the town. About 20 craftsperson mainly local grannies create petit items and clothing that are displayed for sale.



Kuru-kuru Craft Center

## **(5) Promote reusing at events with Kuru-kuru tableware**

In order to reduce single-use containers, plates and cups used at festivals and events, Kuru-kuru tableware, which are reusable tableware, are lent free of charge. Approximately 8,300 pieces of tableware are lent every year. At the 2016 Kamikatsu Summer Festival, the use of Kuru-kuru tableware and the setup and management of a resource segregation center resulted in the reduction of waste that had to be burned to not more than a single 58-liter container.



Reusable tableware

### **<Reduce>**

## **(6) Zero Waste Accreditation System**

Starting in FY2016, Kamikatsu moved forward with the Zero Waste Accreditation System to further control waste generation. This system certifies stores, particularly food and beverage establishments, to heighten zero waste consciousness and encourages customers to reward certified businesses with their patronage. Efforts made by stores to reduce waste through segregation and when procuring ingredients are made visible to customers. Proposals for the use of environmentally-friendly products and methods to reduce waste are made to businesses to further encourage zero waste efforts.



The aim of this system is to increase the number of businesses (retailers, food and beverage establishments, inns, etc.) participating in the promotion of zero waste to spread the program globally.

### **<Other>**

## **(7) Presentations and Workshops**

The Academy holds activities for the diffusion of and enlightenment on zero waste. The Academy responds to requests and visits from nations throughout the world to introduce Kamikatsu's measures for zero waste, and broadly spreads its zero waste philosophy on a global scale. Environmental education is provided for students.



In 2016, its efforts to establish a zero waste society were acknowledged with the Minister of the Environment Award for Contributions to the Development of a Recycling-oriented Society.





Environment education for elementary school students



The Minister of the Environment Award Ceremony

### (8) “Chiritsumo” Point Campaign

The Recyclable Paper Point Campaign began in FY2014 to promote the paper segregation to reduce incineration waste. Point cards were distributed to local residents, and they collect points whenever they bring certain categories of paper waste for collection. (For example, one point for one paper bag full of scrap paper). These points can then be exchanged for merchandise. For example, 5 points can be traded in for a roll of toilet paper or 10 points for a roll of paper string (thin).

A draw is also held once per month, and ten winners are presented with gift coupons worth 1,000 yen, which they can use in Kamikatsu. Creating these systems enable local residents to have fun and enjoy the merits of participating in waste segregation and zero waste measures.

Since 2017, this campaign expanded to wider categories of waste and more merchandise options are added – also renamed the campaign “Chiritsumo” which means “Small things add up to make a big difference”.






























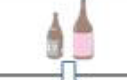















資源を分別してポイントを貯め、素敵な賞品をゲットしよう！  
**ちりつもポイントキャンペーン**  
**交換対象賞品一覧表**

※注意  
 ・賞品カタログは上野明役場、支所、むらまり、ごみステーションにて閲覧可能ですのでご利用ください。  
 ・賞品によっては、申請後に発注する物もございますのでお説しするまでに時間がかかることがあります。予めご了承ください。

300 pt	Zippoライター	充電式カイロ	風呂敷 (100cm)	LED蛍光灯 (A型)	自動開閉傘	月経カップ	ステンレス剃刀
200 pt	布おむつカバー		充電式電池 充電器付きセット				
100 pt	フィルター付きボトル	布ナプキンセット	ステンレスピンハンガー	シルク製マスク	ステンレスソープボトル	物目検査器	LED蛍光灯 (筒物)
50 pt	上野明町内商品券 現金換 500円	風呂敷 (45cm)	箸置き	木綿手ぬぐい	レンジカバー	ハイ！環境	竹炭ブラシ
	ゼロ・ウェイスト認定店商品券	洗濯用洗剤「arau」	LED電球	ステンレスストロー	充電式電池 (単3/単4)	キッチンユースタンド	
30 pt	ヤンノミ(台所用洗剤) (20p)	生ごみ処理機用チップ (25p)	おかずケース (30p)	びびこふきん (30p)			
5 pt	リサイクルトイレットペーパー (5p)	上野明指定ごみ袋 (10p)	紙ひも (15p)	保存瓶 (20p)			

Flyer of “Chiritsumo” Point Campaign

## Kamikatsu 45 categories of waste and what they're recycled into:

①	②	③-1	③-2	③-3	③-4	③-5
Re-usables	Organic waste	Aluminum cans	Steel cans	Spray cans	Metal caps	Scrap metals
						
Kuru-Kuru shop	Compost at home	Aluminum products	Steel products	Metal products	Metal products	Metal products
④-1	④-2	④-3	④-4	④-5	④-6	④-7
Newspaper, Fliers	Cardboards	Magazines, Scrap paper	Milk cartons	Paper cups	Paper carton with slushings	Hard paper cores
						
Newspaper	Cardboards	Recycled paper	Recycled paper	Recycled paper	Recycled paper	cardboards
④-8	④-9	⑤-1	⑤-2	⑥-1	⑥-2	⑦-1
Shredded papers	Other papers	Discarded clothes, Blankets	Other clothes	Chopsticks, Woods	Waste oil	Clean plastic packaging
						
Recycled paper	RPF (Refuse Paper & Plastic Fuel)	Second-hand Clothes, Napies	RPF (Refuse Paper & Plastic Fuel)	Fire wood, RPF	Composed fodder	Plastic products, RPF
⑦-2	⑦-3	⑦-4	⑦-5	⑦-6	⑧-1	⑧-2
Dirty plastic packaging & products	Styrofoam trays (white only)	Styrofoam	PET bottles	PET bottle caps	Clear glass bottles	Brown glass bottles
						
RPF (Refuse Paper & Plastic Fuel)	Styrofoam trays	RPF (Refuse Paper & Plastic Fuel)	Clothes	Plastic products, RPF	Clear glass bottles	Brown glass bottles
⑧-3	⑧-4	⑨-1	⑨-2	⑨-3	⑨-4	⑨-5
Other-colored glass bottles	Returnable bottles	Other glass, Potteries	Mirrors, Thermometers	Light bulbs, Fluorescent tubes	Dry batteries	Discarded batteries
						
Glass bottles	Re-used	Base course material	Mercury & Glass-wool	Mercury & Glass-wool	Metal products	Lead
⑨-6	⑩-1	⑩-2	⑩-3	⑩-4	⑪-1	⑪-2
Lighters	Large/bulk Metal products	Large/bulk Wooden products	Beddings, Mattresses etc.	Large/bulk PVC, rubber products	PVC, Leather products etc.	Diapers and sanitary napkins
						
Metal products	Metals	RPF (Refuse Paper & Plastic Fuel)	RPF (Refuse Paper & Plastic Fuel)	Incineration	Incineration	Incineration
⑫	⑬-1	⑬-2	<div style="border: 1px solid black; padding: 10px; background-color: #f9cb9c;"> <p>Hibigatabi Waste Collection Center            OPEN: 7:30~14:00            TEL: 050-3438-8110  <small>*Open on Saturdays, Sundays &amp; National Holiday            *Close during Dec 31 to Jan 2</small></p> </div>			
Shells, Hand-warmers etc.	Discarded tires	Specific home appliances				
						
Landfill	RPF (Refuse Paper & Plastic Fuel)	Recycled by each producers/brands				

\* Please make sure to wash & dry before bringing in cans, bottles, styrofoam trays, chopsticks, and plastic packaging.  
 \* Large/bulk waste are accepted during weekdays as well.





# Membership Application Guide

## ■Becoming a member

Anyone who agrees to and supports the zero waste philosophy is welcome to join us. Your cooperation and support is always appreciated.

## ■How to join

### (1) Application

Enter your **name, contact address, telephone number, e-mail address and membership category**, and fax or e-mail your application to the Academy. If you wish to apply for membership at our office, fill in the application form available at the office. If you wish to apply via telephone, provide the office staff with the necessary information noted above.

Category	Individual	Organization	Corporation
Membership	5,000 yen	50,000 yen	
Donation	<b>Minimum of 1,000 yen</b> (We appreciate your support in donating more than 3,000 yen as it helps us to require the "Designated non-profit organization" status of Tokushima prefecture.)		

\*Amount for organizations and corporations is a single donation unit

### (2) Payment of membership

Please deposit payments to the following account:

○ Postal transfer  
 Deposit the fee at the Japan Post Bank counter with payment slip.  
 Number: 01610-1-74550  
 Subscriber: NPO Zero Waste Academy

#### \*Note

- Only regular members have voting rights at the general meetings.
- Applicants are registered after the deposit is confirmed.
- Membership accounting period is from April 1 to March 31 of the following year.  
The full amount must be deposited and no reimbursement will be made for withdrawal from membership mid-year.
- Transfer fees shall be paid by the applicants and members.
- If membership fees are not deposited for two years, the membership is annulled.

#### **Non-profit organization Zero Waste Academy**

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