

VOC
FREE T&K



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Toyokawa Headquarters

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kayama-k.co.jp



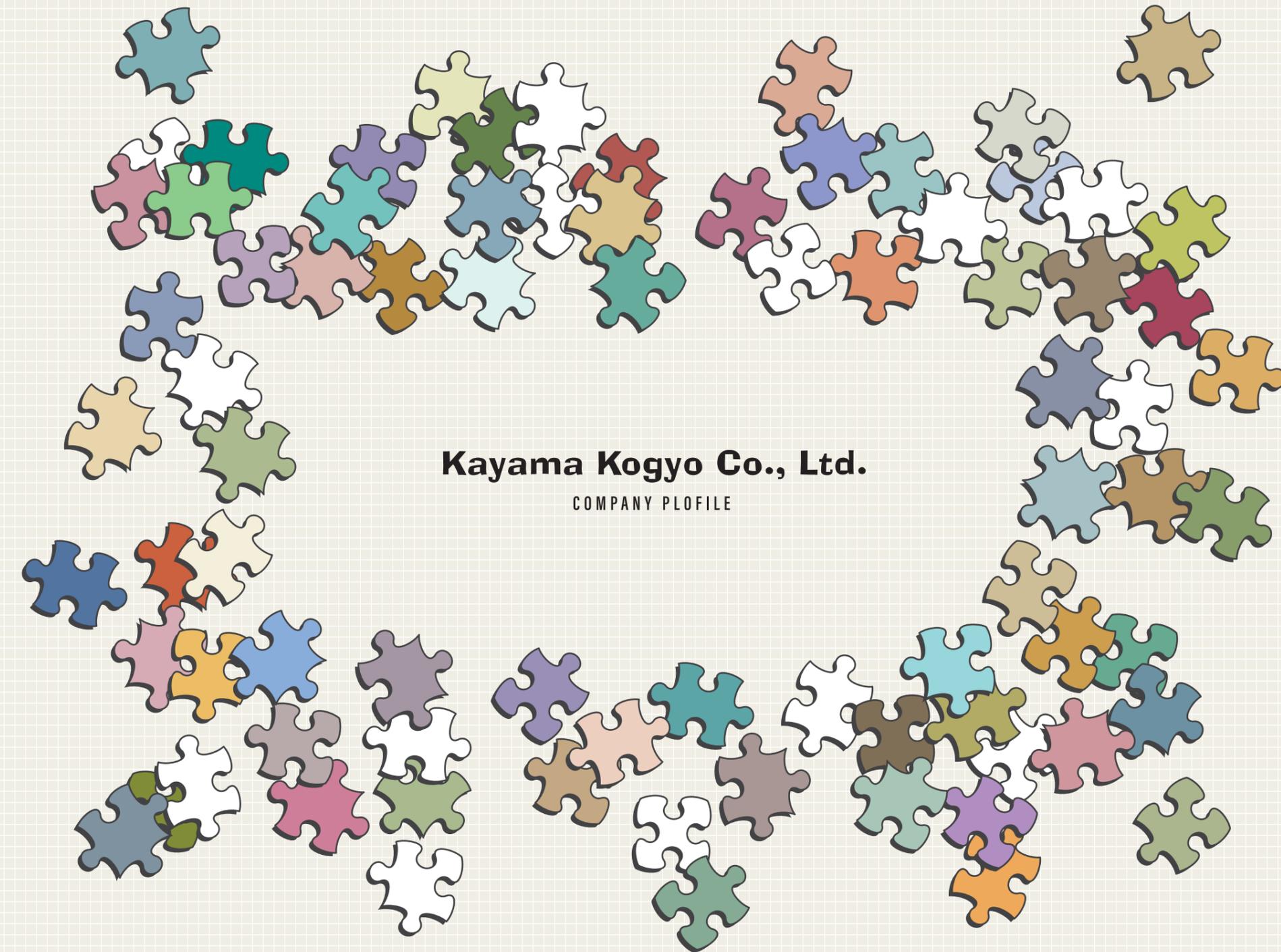
ecocycler
Eco-Design

Request for collection and inquiries

0120-053-381

For car dispatch, please dial

0533-65-9991



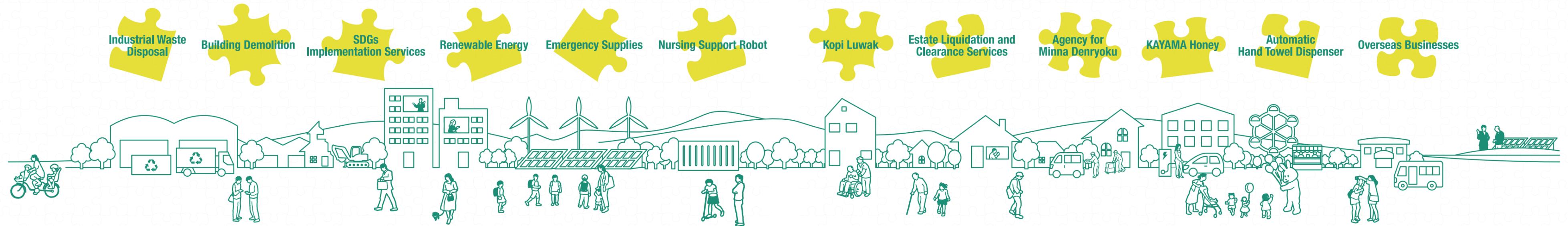
Kayama Kogyo Co., Ltd.

COMPANY PROFILE

Bringing Green, Clean Daily Life to the World

Peace by Piece

We are working in every place and field to realize our philosophy of "Bringing Green, Clean Daily Life to the World."
From a global perspective, each of our activities may seem like a small piece of a puzzle.
But it will never be complete if we don't take on the challenge. We will continue to work for a better future for our planet until the last piece is in place.





Junichiro Kayama
CEO of Kayama Kogyo Co., Ltd.

Message from the Management

From an Intermediate Industrial Waste Disposal Business to an Environmental Solutions Company

Since our establishment in 1952, we have been engaged in the proper disposal and recycling of waste as a waste disposal company. To protect the environment and return to nature, we strive to improve our treatment technology every day to achieve a 100% recycling rate and to make proposals that meet the needs of our customers.

In Japan, where we live, approximately 400 million tons of industrial waste are generated annually. How exactly is this tremendous amount of trash disposed of? As even developed countries with vast land areas are shifting from landfill to recycling, we must think deeply about how to recycle the world's limited resources and continue to create a sustainable society. What should we do to pass on this beautiful earth to future generations? We have faced this question and thought deeply about it. That is why we have developed several "environmental solutions" businesses. We are not limited to waste disposal but have recently developed a variety of businesses aimed at environmental conservation, such as proposing long-lasting LED lighting that reduces waste generation and providing 100% natural energy power services to help build a recycling-oriented society. We are also working to alleviate the concerns of local residents by proving that our operations are not negatively impacting the environment through the cultivation of crops (KAYAMA Farm) and by raising honey bees, which are environmentally sensitive organisms.

We invite local residents to our Harvest Festival, where they can connect with nature and life. We provide an opportunity for them to think about the environment and for their children to learn about food. We are committed to this project, which allows us to disclose information and receive direct public feedback to promote understanding of our business. We are committed to fulfilling our Corporate Social Responsibility (CSR). With safety and security as our priority, we aim to be an "environmental solution company" that is loved and needed by the local community. We recognize that our most extraordinary mission is to remove "inconvenience" and "dissatisfaction" from our customers and turn them into "convenience" and "satisfaction." If the waste treatment business is the trunk, the environmental solutions business, which creates a rich environment, is the branch. The branches and leaves will grow, making the trunk thicker and more robust. Since our founding, we have continued our business and kept "very stubborn garbage man!!" as our fundamental spirit, so we can continue growing into a large tree. We will work together with you to nurture the tree that will bear fruit full of dreams and hopes and will continue to grow.



Silver Award of AICHI Environmental Award 2021

About Us

Name of the Company Kayama Kogyo Co., Ltd.

Representative Director Junichiro Kayama

Our Locations

Nagoya Headquarters 15-5 Minami-Ichibancho, Atsuta-ku, Nagoya, Aichi
 Toyokawa Headquarters 2-67 Minamichigiri, Toyokawa, Aichi
 Chigiri Recycle Plant 2-1 Minamichigiri, Toyokawa, Aichi
 Ichida Recycle Plant 20-2 Hasuike, Ichida-cho, Toyokawa, Aichi
 Obu Sales Office 244 Tooyama, Kitasakimachi, Obu, Aichi
 Toyohashi Sales Office 1-15-10 Minamiushikawa, Toyohashi, Aichi
 Gifu Sales Office Room 1, 7-9 Yanagase, Gifu City Gifu

Our Businesses

Industrial waste collection
 Industrial waste disposal
 Specially controlled industrial waste collection and transportation
 Specially controlled industrial waste disposal
 General waste collection, transportation, and disposal
 Renewable energy
 Beekeeping
 Environmental awareness programs
 Sales of environmental equipment and supplies
 SDGs implementation support and awareness-raising projects

Establishment 1st November 1961

Paid in Capital 50 million yen

Group Company LAO KAYAMA

Affiliated organization



Toyokawa Headquarters



Chigiri Recycle Plant



Ichida Recycle Plant

Our Philosophy

KAYAMA'S DNA

By our corporate gene (KAYAMA's DNA), we recognize that environmental preservation for the next generation is our most significant responsibility. We will strive to recycle waste materials and research and develop environmentally friendly treatment technologies in all aspects of our corporate activities, thereby contributing to local communities. To create a comfortable work environment, we strive to ensure health and safety by having our employees cooperate, discuss, and participate in activities that consider occupational health and safety. In addition, we will ensure compliance with laws and regulations and voluntarily and continuously work on environmental conservation while considering the SDGs (Sustainable Development Goals), which are the goals for a sustainable society and environment worldwide.



Kayama Kogyo supports the Sustainable Development Goals (SDGs)

Our Three Promises

3

Promise to Customers

We believe that our mission is to develop and offer a comfortable environment in the quest for customer satisfaction and that it is a service that will be fulfilled in the future. We are committed to seeking knowledge, learning, growing, and providing services that exceed our client's expectations. We are also committed to providing our clients with timely and relevant information on security data disclosures, laws, and services to earn their trust.

Promise to the Employees We Work with

The employees who work with us are our comrades who will work together to realize our vision. Like-minded people are the essential asset of Kayama Kogyo, and they are our partners who will grow together. We respect diversity, create a healthy and safe work environment, and protect the lives of our employees and their families. We respect individuals and nurture them to develop their talents to their fullest potential. We will provide fair opportunities for advancement, evaluate employees fairly, and create a workplace that is physically and mentally healthy and rewarding to work in.

Promise to Society

We are grateful that we exist as part of a lifeline and give back in the form of gratitude. Because our business is deeply related to the environment, we will do our utmost to solve environmental problems and protect the environment, raise the awareness of every employee, and contribute to creating a sustainable society. As a good corporate citizens, we will not limit ourselves to the framework of our business. Still, we will actively engage in meaningful social projects, disaster recovery assistance, cultural and sports support, next-generation development, community exchange, international contributions, and other activities, aiming for coexistence and co-prosperity with society. We will be thoroughly prepared for natural disasters and engage in crisis management. In the event of a disaster, we will work to ensure safety and early recovery and provide any possible support, such as opening stockpiled warehouses and supplying emergency electricity. As trusted members of society, we will comply with laws and regulations, ensure safety management, and conduct our business activities with integrity.



CREDO — Spirit to be cherished

We are all fellows united in our vision of "Bringing green, clean daily life to the world." We will learn, grow, have fun, and be happy together. We will raise our corporate value and become a company we can be proud of to our customers, society, and families. We will be grateful for our existence as part of a lifeline and contribute to the progress and development of society.

We will perform our duties with the following credo, regardless of position, age, gender, nationality, or other personal characteristics.

1. Always seek knowledge, learn and gain insight greedily.
2. Take the initiative in everything we do to act independently in everything we do, without compromise, with a sense of responsibility and joy.
3. Always maintain a sense of heartfelt service to meet and exceed expectations.
4. Embrace diversity, respect, and help one another.
5. With gratitude and respect, we will be considerate of all people and things and give the utmost care to the environment.
6. We recognize that our personal growth will lead to social contribution, and we will spare no effort to continue to grow.
7. We will have hope for the future, not be afraid of change, and continue to challenge the creation of new ideas.
8. Maintain discipline and ensure the safety of ourselves and those around us.

History of Kayama Kogyo

The History of Kayama Kogyo is a History of Environmental Conservation

The founder, Isao Kayama, left his birthplace in Shimane Prefecture to work as a police officer for the Aichi Prefectural Police Department. He was warm-hearted, compassionate, and good-natured.

At the time, Japan was riding the wave of postwar special procurement and was about to enter a period of rapid economic growth. People's lives were prosperous, and industry to waste disposal were not in place, and the emphasis was on production. The focus was on the manufacturing process, with little attention paid to the waste generated during the manufacturing process or the things discarded when they were no longer needed, and mountains of trash were piled up all over. After seeing the situation with his own eyes, Isao became concerned about the impact on the environment and the future. He believed that the proper disposal of waste was the way to a truly prosperous future and that it was the mission of the Japanese people to preserve a better environment. It was out of this "desire" that the Kayama Gumi (the predecessor of Kayama Kogyo) was born. We have created a fair environment where each individual is respected and given a fair chance to perform and be appreciated. This is the beginning of the history of Kayama Kogyo.



1951: Founded Kayama Gumi (now Kayama Kogyo Co., Ltd.)
Founder Isao Kayama
President's term / 1 November 1961 - 10 April 1978



Chairman of the Board Atsuhiko Kayama
President's term / 11 April 1978 - 31 October 2010
Chairman's term / 1 November 2010 - current



Representative Director Junichiro Kayama
President's term / 1 November 2010 - current



The Basic Environmental Law has made waste disposal standards stricter, and we have been following environmental laws and regulations to dispose of our waste properly, introducing incinerators to meet the needs of crushed and sorted combustible waste, infectious waste from medical institutions, and hazardous waste disposal, detoxifying them, and thermally recycling them.



RPF is produced from waste materials such as recycled paper and plastics and is sought as an alternative boiler fuel to coal.

2006 • RPF plant completed



We support B.LEAGUE affiliate "Santo Neo Phoenix" as a sponsor. We will support our local team and help energize the entire community.



Classes have been held at elementary schools in Toyokawa City, elementary and junior high schools in Takusima in Nagasaki Prefecture, and overseas in Laos, Southeast Asia. The program is designed for students to learn about the environment in a fun way through packer rides and garbage sorting games.

2012 • Start of environmental classes



Beekeeping is conducted at the KAYAMA Farm, which is attached to the Chigiri Plant, and the honey collected is tested for substances. This proves that our operations have no impact on the environment.

2014 • The honeybee project started
• Receiving facility completed



Our company aims to contribute to a low-carbon society and improve the recycling rate, so we have introduced an optical sorting machine and finely sorted, making it possible to increase the amount of raw materials for RPF.

2016 • An optical sorting machine introduced
• Started project investigation in Laos



As an art promotion project with Shinobu Daito, a graduate student in the prefecture, the theme was "ikimono" (living creatures). He expressed the importance of protecting the environment through contemporary art.

2017 • Mural Project

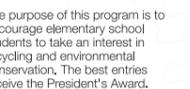


• Posters for Environmental Projects



We supported the cultivation of naturally grown rice in the rice paddies for the disabled. We worked together from rice planting to harvesting, which led to exchanges with local community members. A portion of the harvested rice was donated to a food bank.

2019 • Supporting Rice Production through "One-Tan Partners"



• Green Books



The purpose of this program is to encourage elementary school students to take an interest in recycling and environmental conservation. The best entries receive the President's Award.

2021 • SBT Certified



The picture cards are SDG karuta cards illustrated by an artist at Cynthia Toyokawa, a support facility for people with disabilities.



The SBT Initiative, an international organization, has certified our "1.5°C Target" for the 2030 greenhouse gas reduction target, which aims to limit the increase in global average temperature due to climate change to 1.5°C above pre-industrial levels.

2021 • SBT Certified



• Introduction and operation of solar panel recycling equipment (Permit under the Waste Disposal and Public Cleansing Law - pending in May 2022)



• RE100 achieved

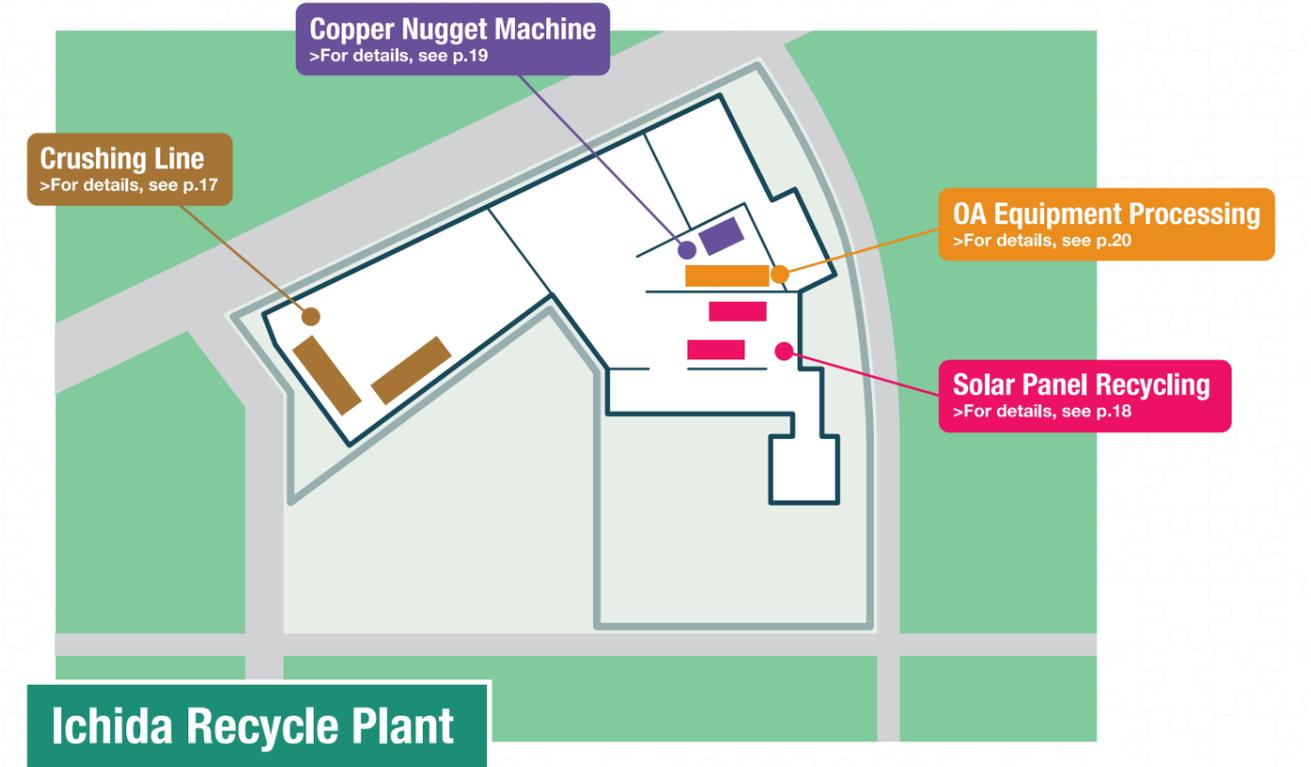
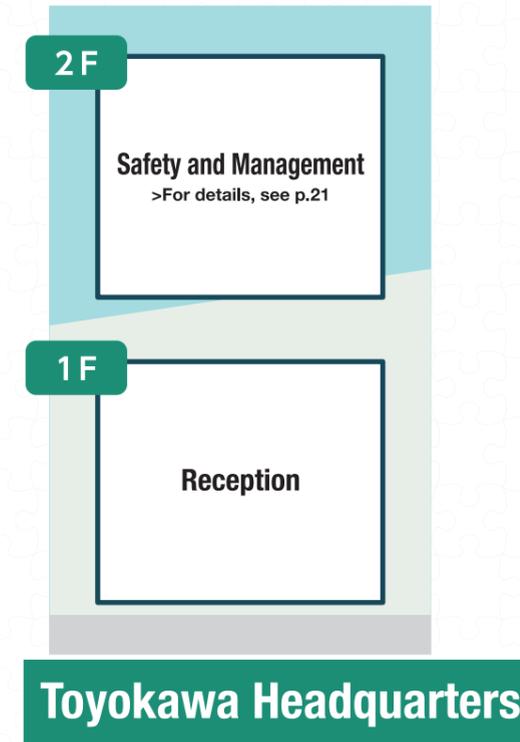


• Frame removal machine



• Cover glass remover

Our Facilities



Thermal Plant

Three types of incinerators in action! Eco-friendly by using hot water for power generation

Three incinerators are in operation: rotary kilns, fixed-bed incinerators, and dry distillation gasifiers. The heat from the dry distillation gasifier is used to produce hot water, which is then used to generate electricity (binary power generation). By combining each furnace, various types of waste can be treated comprehensively.

The gases generated are directed to the combustion furnace (furnace temperature: 850°C or higher, remaining time: 2 seconds or longer) for complete combustion. Dioxins in the exhaust gas are reduced to 1 nanogram, one-tenth the level of conventional systems. After the exhaust gas is quenched, it passes through a bag filter to remove toxic substances. Finally, only detoxified water vapor is discharged. The cinders are reused as materials such as concrete blocks.

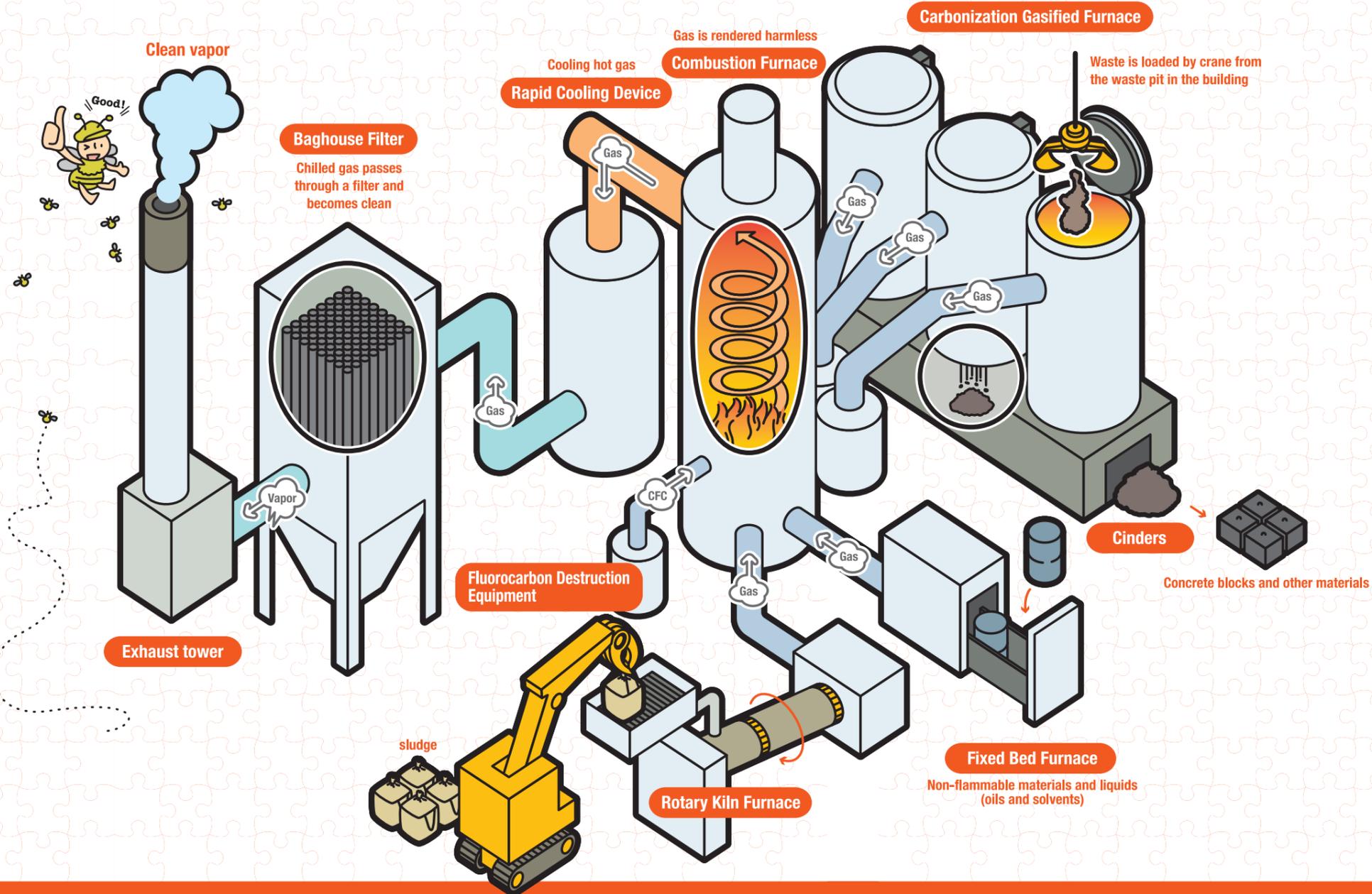
Items handled

12 industrial wastes

- Sludge
- Waste oil
- Waste alkali
- Waste plastics
- Paper waste
- Wood waste
- Fiber scraps
- Animal residues
- Rubber scraps
- Metal scraps
- Glass and Ceramic Scraps

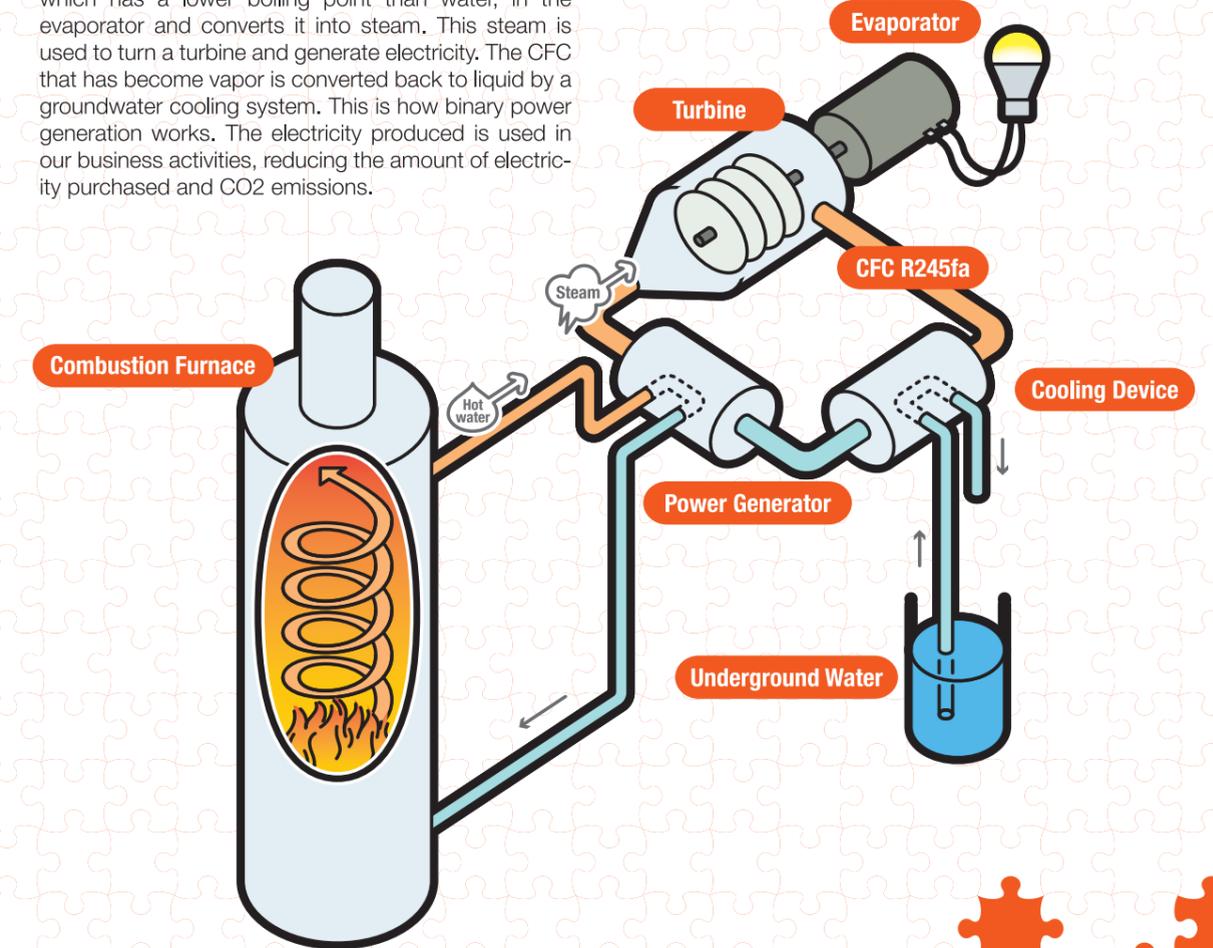
Two specially controlled industrial wastes

- Infectious waste
- Inflammable waste oil



Effective utilization of waste heat: Binary power generation

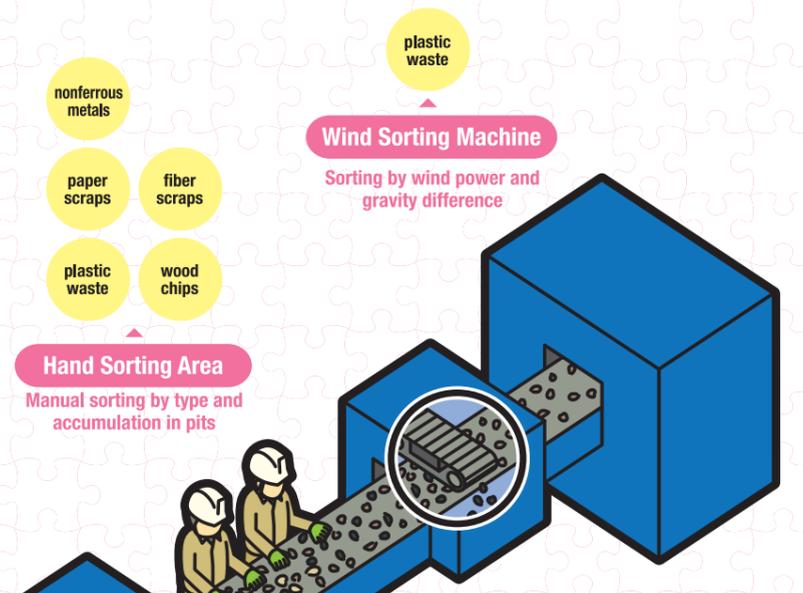
The heat from the combustion furnace is used to produce hot water. The hot water heats CFC R245fa, which has a lower boiling point than water, in the evaporator and converts it into steam. This steam is used to turn a turbine and generate electricity. The CFC that has become vapor is converted back to liquid by a groundwater cooling system. This is how binary power generation works. The electricity produced is used in our business activities, reducing the amount of electricity purchased and CO2 emissions.



Crushing and Sorting Line

**Single itemization of a wide variety of wastes!
The key to recycling!!**

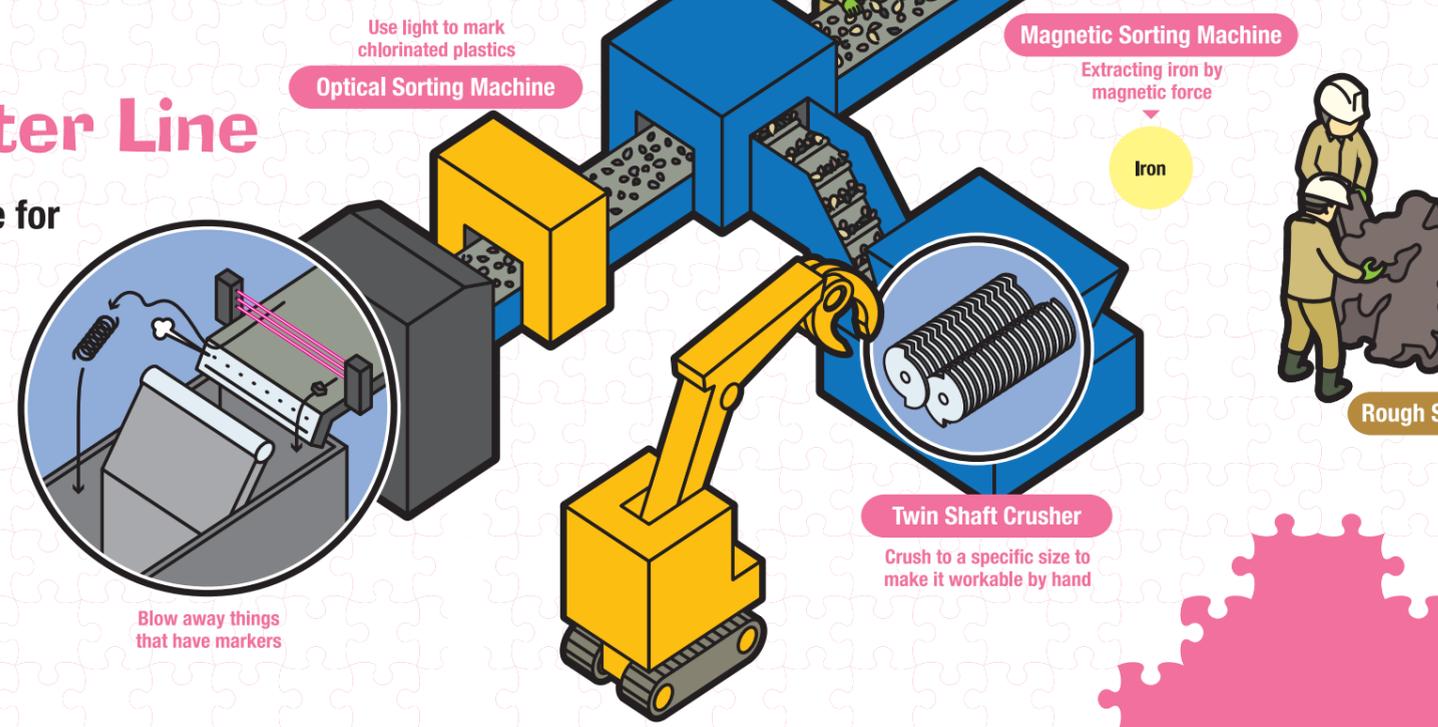
Mixed waste, a mixture of metals, plastics, wood waste, and various other types, is crushed to a specific size using a biaxial crusher. After shredding, the waste is sorted by type using manual, magnetic, and wind sorting. The separation of mixed waste into individual items facilitates smooth recycling.



Optical Sorter Line

Optical sorting machine for higher level sorting

Some plastic wastes contain chlorine. Since chlorine-containing materials are challenging to recycle, optical sorting machines are used to sort them. Chlorine-containing plastics are impervious to light, so they are marked and bounced by wind power to achieve a high degree of sorting. Chlorine-free plastics are transformed into energy resources as raw materials for solid fuel RPF.



Dedicated Wood Line

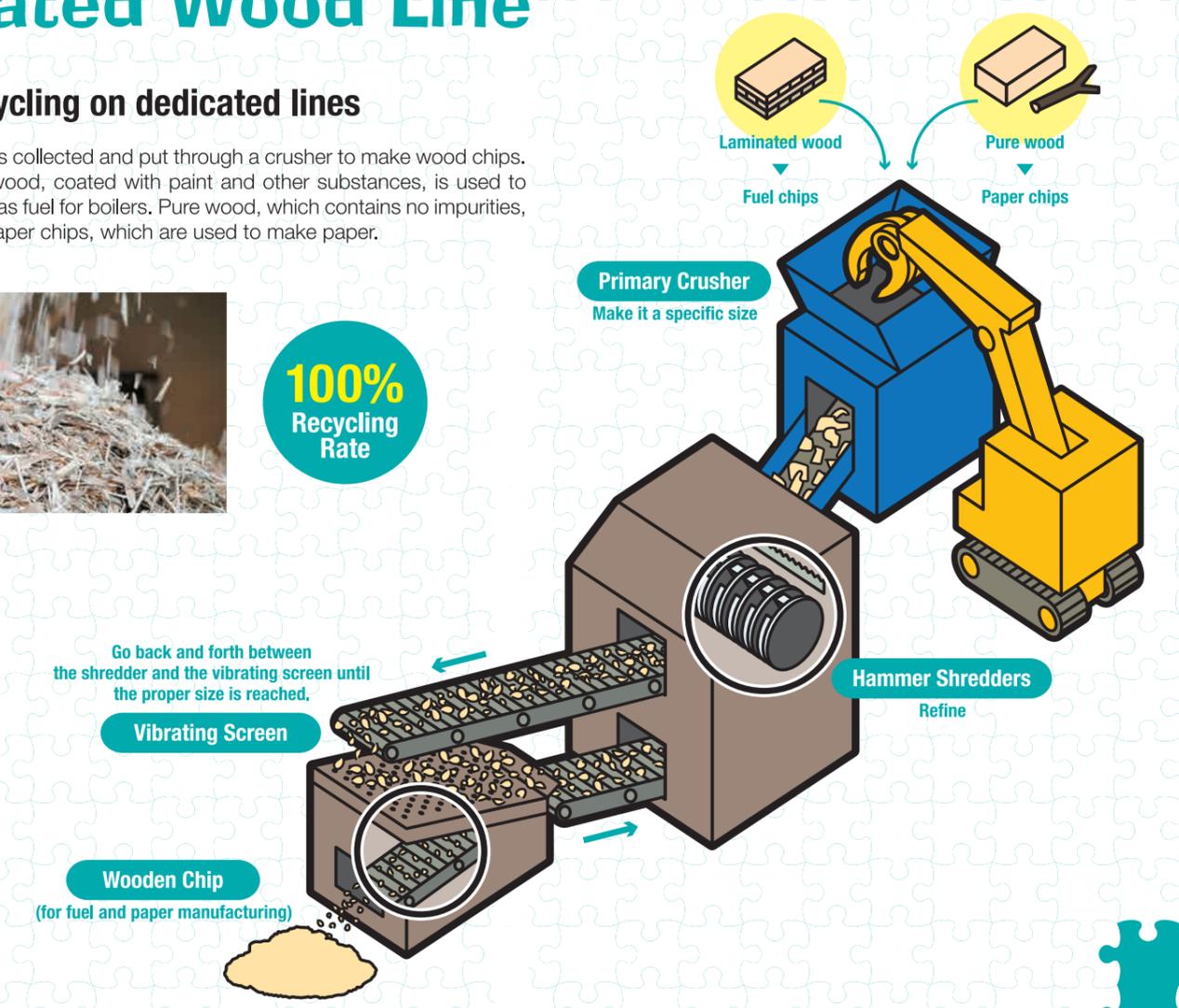
Perfect recycling on dedicated lines

Only wood waste is collected and put through a crusher to make wood chips. Glued laminated wood, coated with paint and other substances, is used to make wood chips as fuel for boilers. Pure wood, which contains no impurities, is used to make paper chips, which are used to make paper.



**100%
Recycling
Rate**

Simple sorting is handled by staff in a 1000 m² sorting area. This is an essential operation that affects proper processing.



Solid Fuel RPF Production Line

Energy Alternative to Coal

Refuse Paper, and Plastic Fuel (RPF) is a solid fuel produced from waste with the same calorie content as coal. RPF is made from plastic, paper, wood, and fiber waste. The raw waste is crushed, heated, and pressurized to reduce its volume and extruded to form RPF. The produced RPF is used as fuel for boilers in factories and facilities.



Solid fuel RPF



Solid Fuel RPF Production Line



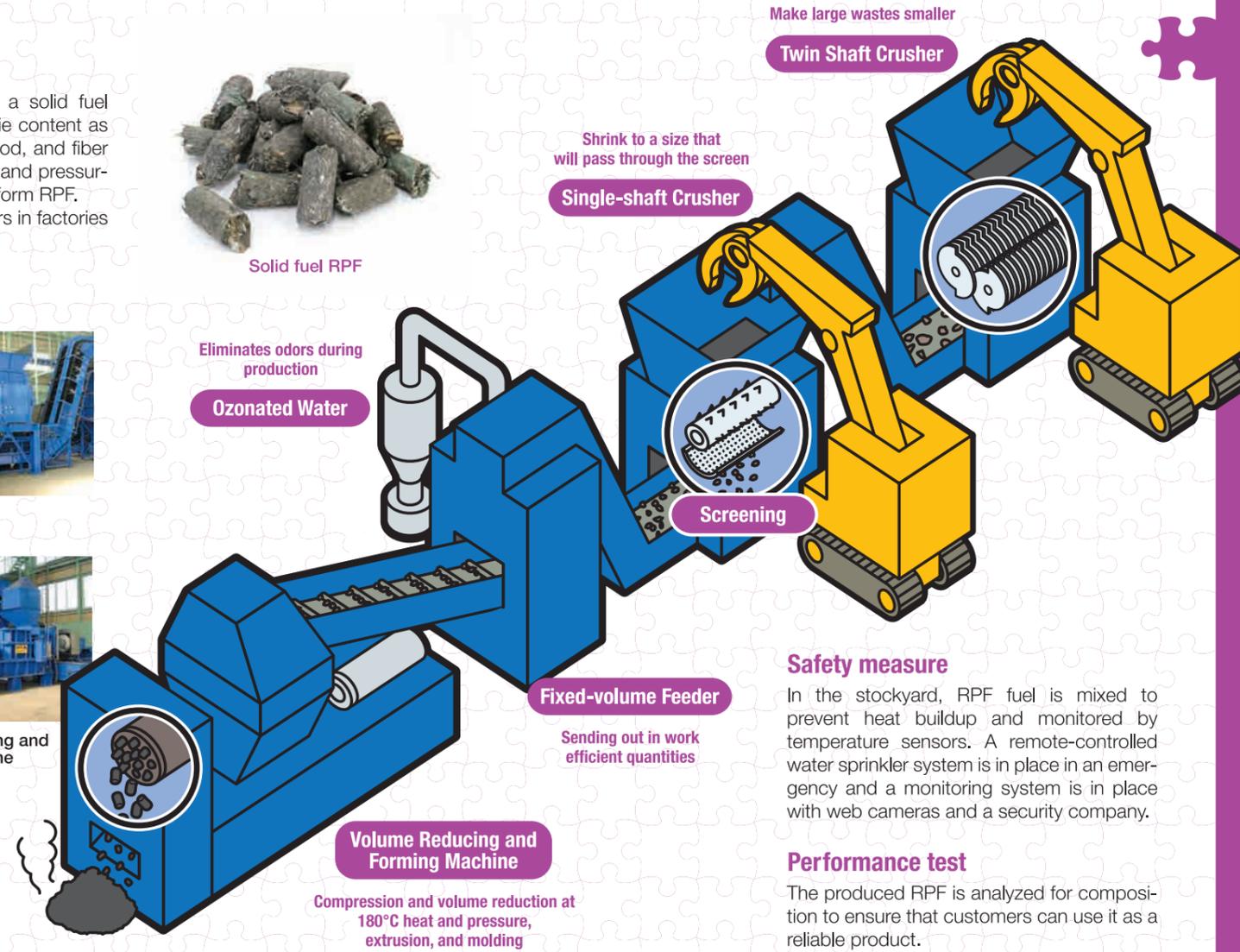
Crusher



Fixed-volume Feeder



Volume Reducing and Forming Machine



Fluorescent Tube Regeneration Plant

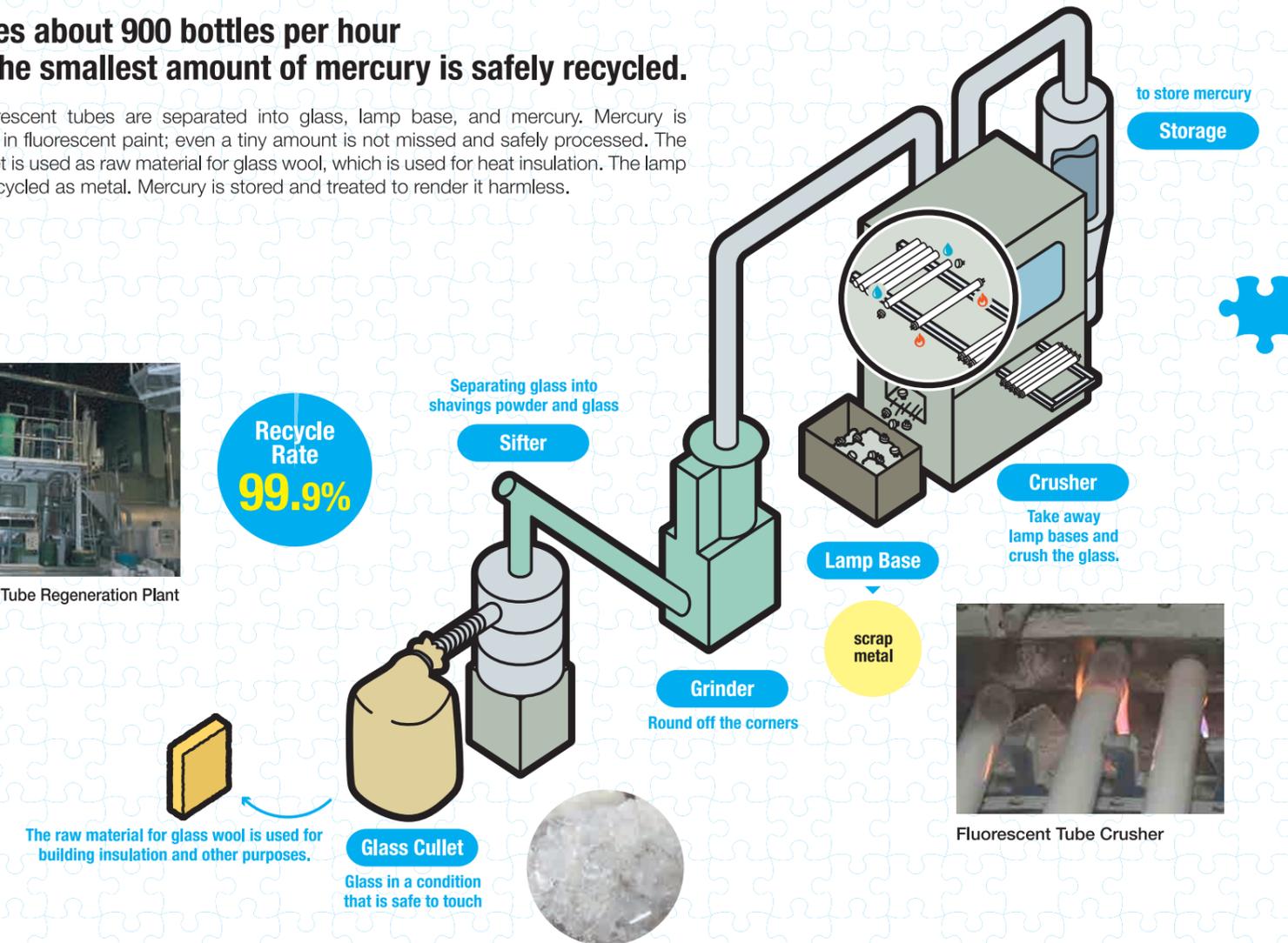
Crushes about 900 bottles per hour Even the smallest amount of mercury is safely recycled.

40W fluorescent tubes are separated into glass, lamp base, and mercury. Mercury is contained in fluorescent paint; even a tiny amount is not missed and safely processed. The glass cullet is used as raw material for glass wool, which is used for heat insulation. The lamp base is recycled as metal. Mercury is stored and treated to render it harmless.



Fluorescent Tube Regeneration Plant

Recycle Rate
99.9%



Fluorescent Tube Crusher

Crushing Line

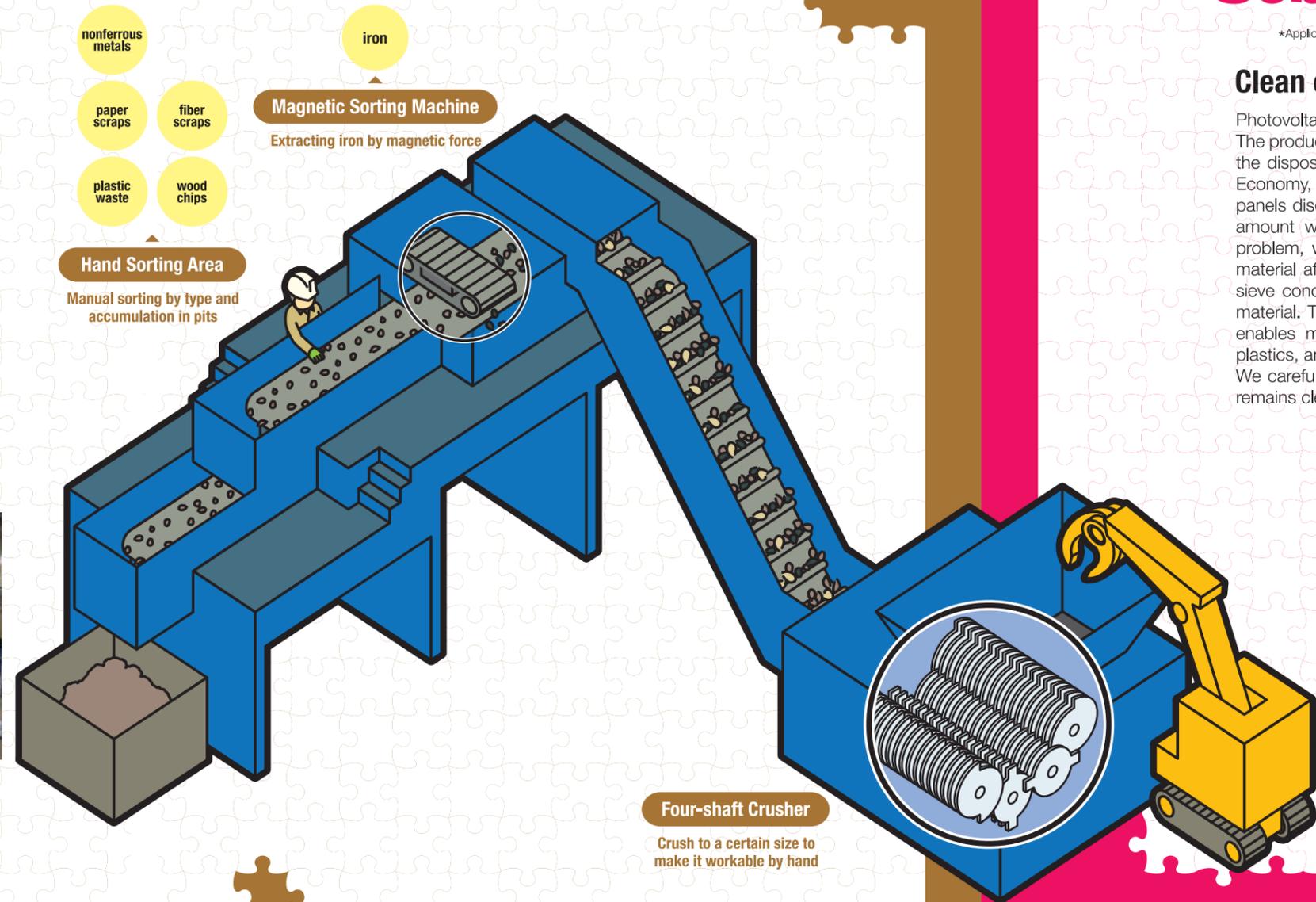
Strong 4-axis blades ensure that even difficult-to-process materials are finely processed!

The 4-axis crusher crushes large materials by repeatedly moving them up, down, left, and right until they reach a size that allows them to pass through a screen directly under the blade. This allows the crusher to reliably break down even the most difficult materials, such as fishing nets and seatbelts, into smaller pieces. The smaller size also improves the efficiency of transportation and reduces CO2 emissions.

The machine is also equipped with two motors (200hp x 2), one for each of the upper and lower blades, to drive the blade shafts. The slow-speed rotation reduces dust generation and is good for the work environment.



Overview of Crushing Line

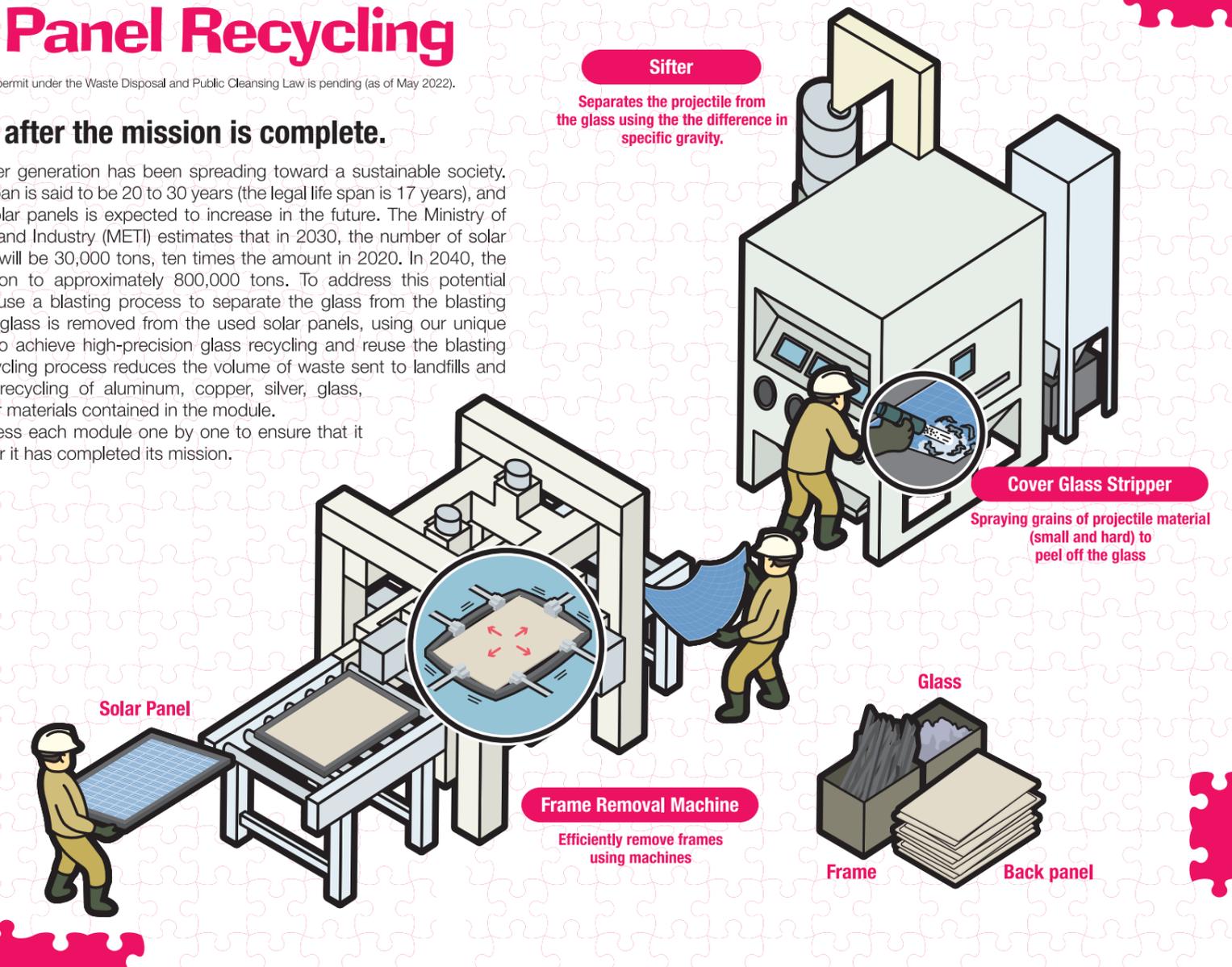


Solar Panel Recycling

*Application for a permit under the Waste Disposal and Public Cleansing Law is pending (as of May 2022).

Clean even after the mission is complete.

Photovoltaic power generation has been spreading toward a sustainable society. The product life span is said to be 20 to 30 years (the legal life span is 17 years), and the disposal of solar panels is expected to increase in the future. The Ministry of Economy, Trade, and Industry (METI) estimates that in 2030, the number of solar panels discarded will be 30,000 tons, ten times the amount in 2020. In 2040, the amount will balloon to approximately 800,000 tons. To address this potential problem, we will use a blasting process to separate the glass from the blasting material after the glass is removed from the used solar panels, using our unique sieve conditions to achieve high-precision glass recycling and reuse the blasting material. This recycling process reduces the volume of waste sent to landfills and enables material recycling of aluminum, copper, silver, glass, plastics, and other materials contained in the module. We carefully process each module one by one to ensure that it remains clean after it has completed its mission.



Copper Nugget Production Line

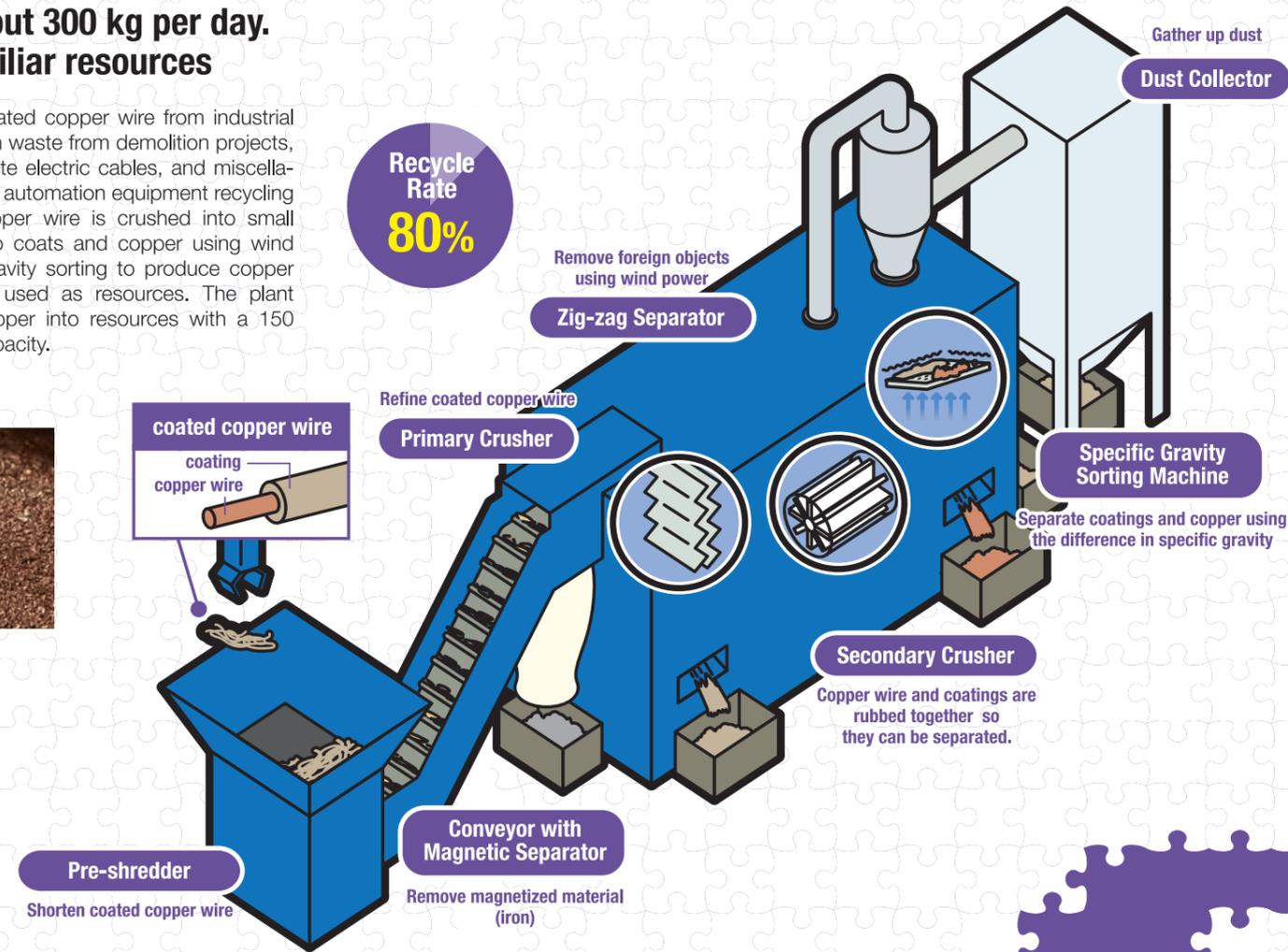
Processes about 300 kg per day.
Recycling familiar resources

The line processes coated copper wire from industrial waste and construction waste from demolition projects, such as concrete, waste electric cables, and miscellaneous wires from office automation equipment recycling lines. The coated copper wire is crushed into small pieces and sorted into coats and copper using wind power and specific gravity sorting to produce copper nuggets that can be used as resources. The plant efficiently converts copper into resources with a 150 kg/hour processing capacity.

Recycle Rate
80%



Copper Nuggets



Recycle Line for OA Equipment

Precious resources are carefully handled by hand.

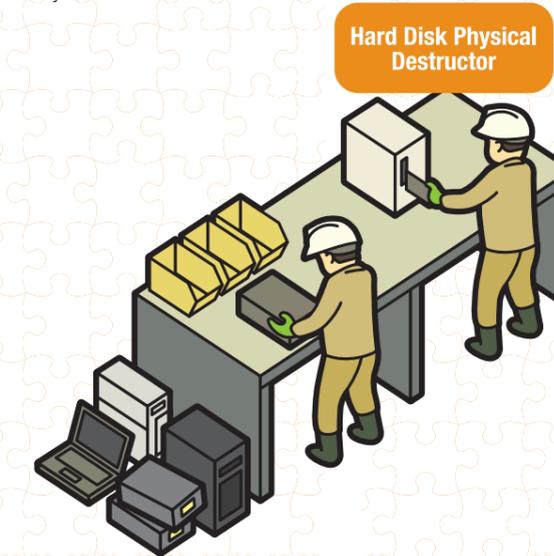
We manually disassemble office automation equipment such as PCs and mobile phones and electronic devices such as game consoles. Valuable resources such as gold, copper, and palladium are carefully sorted. Magnetic media and hard disk data on which customers' data is stored are securely erased by physical destruction to protect information leakage and privacy.



Disassembled by hand



Destroyed HDD



HDD Destructor

Safety and Management System

Promises Safety and Peace of Mind

At Kayama Kogyo, we are committed to safety and peace of mind for our customers and the community. We are committed to business activities that comply with the law, not placing a burden on the environment, and always put safety first.

Disaster Preparedness and Environmental Measures

Fire Prevention Measures

Flame and radiant heat detectors are used to shut down all equipment and activate sprinklers to extinguish fires quickly and alert the public in the event of a fire. In addition, the plant is monitored by a third-party organization. Each plant conducts fire drills four times a year as employee training to ensure that employees are prepared to respond in an emergency.

Earthquake Countermeasures

The incineration facilities are equipped with earthquake detectors that automatically and safely shut down the facilities in the event of a major earthquake to prevent disasters. In the event of a disaster, our top priority is to ensure the safety and security of local residents. Our business sites are equipped to serve as evacuation centers, and our emergency containers are stocked with water, emergency food, emergency toilets, and other supplies.

Flood Control Measures

When torrential rains occur, and there is a risk of large amounts of rainwater flooding into the plant, watertight panels are installed to prevent rainwater from entering the plant and mixing with waste materials.

Consideration for the Surrounding Environment

In addition to legal and environmental requirements, the hot water generated by the incinerator is used by a binary generator to generate electricity to cool it, thereby reducing the amount of cooling water used for refilling the incinerator. We also measure odors to ensure no discomfort to our neighbors. The bees raised at KAYAMA Farm collect honey from plants within a 3 km radius. The honey is analyzed annually to ensure that it does not contain any heavy metals or toxic substances, thereby confirming the safety of the surrounding environment.



Safety and Peace of Mind Declaration

- 01 In all of our operations, we place the highest priority on environmental preservation.
- 02 We will conduct waste management operations harmoniously with the local community.
- 03 All information about the processing facility is available to the public. Tours are available at any time.

Appropriate Disposal Initiatives

The Manifest

The Manifest, officially called an "industrial waste control slip," helps ensure proper disposal of industrial waste and is a slip that is issued to a processor (licensed to transport, incinerate, etc.) when a business commissions the dumping of industrial waste. A copy of the Manifest is sent back to the operator, allowing the operator to confirm the completion of the consigned treatment. It indicates the "progress of treatment" and "proper treatment" of the industrial waste that the customer requested to dispose of.

Initiatives to Prevent Accidents

Inspection and Management System

Crusher blades are maintained (rotated and replaced) approximately every 200 hours. However, if any significant wear or damage is found during the inspection before the start of the operation, it is reported to the supervisor in charge, and maintenance is performed immediately. When a crusher stops due to the sound of high oil pressure, the door of the crusher is opened, the inside of the crusher is checked for abnormalities, and the crusher is put back into operation under the manager's direction.

Waste Disposal Report

You can view various publicly available information, such as records of material delivered to and from our plants, transportation records, and incinerator maintenance records.



Sampai-kun
Industrial Waste Information

Option

Vehicle GPS Management



Efficient vehicle management systems and traceability ensure that waste collected from customers is delivered to the site.

Preventing Accidents Through Eco-drive Management Systems

The "eco-drive management system," which automatically analyzes the status of safe driving and economical driving of drivers based on data from a digital tachograph (introduced in April 2007), is used to prevent accidents by encouraging relaxed driving in combination with eco-driving, which means controlling sudden acceleration and sudden departure.

Sustainable Activities

Bringing Green, Clean Daily Life to the World

We are engaged in a variety of activities to realize our vision.

For more information, please see the activity report.



Honeybee Project

Toyokawa Recycling Plant breeds honeybees as an Environmental Indicator Species. The components of the honey collected are analyzed to ensure that it has no negative impact on the surrounding environment. This kind of activity is also conducted at Düsseldorf Airport in Germany, an environmentally advanced country, where it has been proven that the collected honey does not contain heavy metals or other harmful substances. No toxic substances were detected in honey collected at the Toyokawa Recycling Plant, confirming that our recycling operations have no impact on the environment. We also invite local residents to our honey collection events to deepen community interaction.



The honey collected through the honey bee project is carbon offset, with zero CO2 emissions associated with collection activities and container production. Through this offsetting mechanism, we contribute to local forest conservation activities.



Environmental Education Classes

As an environmental problem-solving professional involved in waste management and other environmental preservation projects, we would like the children who will lead the future to become aware of the importance of waste separation and recycling in terms of waste and environmental issues and for adults to become aware of environmental issues and take action by talking about what they learned in class with their families back home. With this strong desire, we started environmental classes for 4th graders in 2012 and programmed the classes while scooping up needs from actual educational sites. We also produce and provide original teaching materials. We will continue to do our utmost to promote sustainable development in society as a whole, as we believe that we all need to work together to solve global environmental problems.



Thank you letter received from students



Recognized by the Ministry of the Environment as a "Place of Opportunity for Experience" under the Law for the Promotion of Environmental Education

Renewable energy

We are developing environmentally friendly renewable energy projects. We have installed solar power generation equipment at the Matsusaka Energy Farm (Matsusaka City, Mie Prefecture) and solar and wind power generation equipment at the Takushima Energy Farm (Takushima, Hirado City, Nagasaki Prefecture) to promote the use of clean energy.



Matsusaka Energy Farm



Takushima Energy Farm



Teaching materials with original characters

Overseas Environmental Problem Solving Contribution Activities

In 2015, we confirmed the challenges of waste treatment in Laos and thought our technology could be utilized. In 2016, we were selected for the "Project Feasibility Study" of the Japan International Cooperation Agency (JICA) Private Partnership Program. Under this scheme, we studied the possibility of using our technology for an ODA project to improve the treatment and management of hazardous waste, especially medical waste, in Vientiane City, Lao People's Democratic Republic. We conducted a study on the formulation of a business model. In 2018, following the aforementioned "Case Study," the project was adopted as part of the "SMEs and SDGs Business Support ~ Dissemination, Demonstration, and Business Project" as part of the ODA project. Under this scheme, a Japanese-made incinerator was provided to the partner government to verify the effectiveness of the appropriate treatment of medical waste. In addition, we conducted educational activities for local government agencies and private companies to promote the separation and proper disposal of medical waste. Through these activities, we have contributed to waste management in Laos. We will continue to promote proper waste disposal.



Construction of the incinerator



Completion ceremony

Bilateral Credit JCM Scheme

Utilizing our experience with photovoltaic power generation systems, we have been selected for the "FY 2020 Bilateral Credit System Financing Support Project for Equipment Subsidy," a project to reduce greenhouse gas emissions in Laos through the use of photovoltaic power generation systems and has begun a 14 MW photovoltaic power generation project in October 2020. The project is expected to reduce power loss in Laos. We will solve the power loss, stabilize Laos's power supply, and contribute significantly to reducing greenhouse gas emissions using renewable energy.



External Reviews and Awards

27 November 2020
Silver Award of AICHI Environmental Award 2021

Presenter: Hideaki Omura, Governor of Aichi Prefecture

Aichi Prefecture established the Aichi Environmental Award to promote the high level of environmental technology and environmental activities in the prefecture, and in 2020, we received the Silver Award. The award was given in recognition of the company's industry-leading promotion of environmentally friendly corporate management, such as its intermediate waste treatment business based on advanced recycling technology, the introduction of renewable energy, and environmental education for local children. The company was highly evaluated for its contribution to reducing environmental impact and forming a recycling society.



For other external reviews and awards



We create the future together for a sustainable world beyond national borders.

Kayama kogyo Co.,Ltd. offers management guidance for waste collection, transportation, disposal and recycling businesses. Here in Japan's plants, people have been working on waste disposal for half a century and have been intent on improving the recycle technology each day. Our customers come from all levels of business, such as local governments, building companies, manufacturers, hospitals and service businesses. We treat (incineration, sorting, crushing and molding) and recycle wastes from companies in many different fields and provide them as resources. We solve our customers' environmental problems by using our time-tested waste disposal technology. Only using the methods promoted by some 'experts' is not enough to solve waste related environmental problems. For example, regarding incineration, if you think that wastes can be burnt simply by incinerating them, you are very wrong! A great deal of technical know-how is needed, such as waste combinations, calorie calculations, maintenance of incinerators, exhaust gas treatment plants etc. We are building a system which offers the best solutions possible for our customers by putting our new ideas based on accumulated knowledge, technology and experience together.



3 November 2018
Chairman Atsuhiko Kayama receives The Order of the Rising Sun, Silver Rays, for distinguished service to environmental health.

Presenter: Shinzo Abe, Prime Minister of Japan (of the time)

President Masahiro Kayama received The Order of the Rising Sun, Silver Rays, at the 2018 Fall Conferment of Decoration. Mr. Kayama became a director of the Aichi Industrial Waste Management Association (now the Aichi Industrial Waste Association) in 1989. He served as vice president of the association from 2007 to 2011 (currently a director). He was awarded The Order of the Rising Sun, Silver Rays (for distinguished service to environmental health) for his many years of service to the waste treatment industry.



27 November 2020
Received the Incentive Award of the Decarbonization Challenge Cup 2021

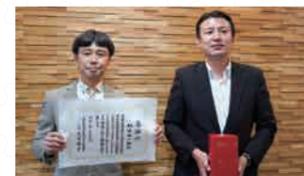
Presenter: Decarbon Challenge Cup Executive Committee Chairman Hiroshi Komiya



17 June 2021
Certificate of Appreciation

Presenter: National Federation of Industrial Waste Management Associations Youth Council

Certificate of Appreciation from the Youth Council of the National Federation of Industrial and Resource Recycling Associations. The letter was given in recognition of his contribution during his term as president of the Youth Council of the National Federation of Industrial Resources Recycling Associations on the 20th anniversary of the association's establishment.



28 January 2022
Judging Committee Chairman's Award of The 4th Aichi Service Award

Presenter: Aichi Soichi Ota, Chairman of the Judging Committee, Bureau of Economy, Trade, and Industry, Aichi Service Award



Our Special Know-how

1. Business Establishment

- Business Establishment Consulting and others
- I. Planning know-how of Business plan (demand estimation numerical plan -> partial changed to software)
- II. Design supervision know-how of facilities such as factory from the operational point of view (construction management)
- III. Planning know-how of operations management plan (organizational structure, business design and others)
- IV. Quality check of existing disposal facilities and Diagnosis know-how (presentation of Improvement plan of existing facilities)
- V. Negotiation know-how with various government offices(in Japan)
- VI. Know-how of neighbor policy (in Japan)
- VII. Others

2. Operation Management

- I. Management Know-how
 - ▶ Interim Disposal Procedure Practice
 - ▶ Cost Management (human cost, supply cost, maintenance cost, marketing cost and others)
 - ▶ Move in & out management, operations management
 - ▶ Price-setting
 - ▶ Human Resources Management (operations design & education)
 - ▶ Risk Management (accident, sanitation, environment, neighbor policy etc.)
 - ▶ Quality management
 - ▶ System management, information management
 - ▶ Others (general affairs, accounting, finance etc.)
- II. Operations know-how in factory (Receiving Work, Selection, Incineration, Crushing, meltdown etc.)
 - ▶ Efficient disposal (machine operation, handling procedures, formation)
 - ▶ Facilities, machine maintenance etc.
 - ▶ Sorting and ordering
 - ▶ Improvement activities
 - ▶ Others

- III. Transportation Know-how
 - ▶ Management of allocation of vehicles and transporting
 - ▶ Collection business
 - ▶ Transportation business, vehicle handling
 - ▶ Vehicles management and maintenance
 - ▶ Others
- IV. Know-how to attract customers (marketing and sales)
 - ▶ Sales activities
 - ▶ System to attract customers (web, contact function, sales tools etc.) *Will be developed from now on
 - ▶ Services planning
 - ▶ Others
- 3. Other items
 - ▶ The selection and application of external player
 - ▶ The examination of room for application of additional external functions
 - ▶ The examination of business model of the operations assigned (Setting of skills and scope)
 - ▶ The acquisition of advisable authentication and evaluation system
 - ▶ Others