That we can promise to the future of the Earth.

First – We will decrease an amount of the industrial waste in the future
Second – We will reuse natural resources
Third – We will utilize recyclable industrial waste
Force – We will try to develop an advanced & an ecological society

For keeping our promises, we will operate the controlled final disposal site. It is the best system landfill site to protect our nature. Also, we will be able to manage the underground water, and rivers are located in around our facility. For continuing the environment business and its quality, we have the highest social liability to the Earth.
Our Business Solution

We consistently operate four businesses: Collection and transportation, intermediate treatment, recycling, and final disposal site. The consistent service will enhance customers’ reassurance & reliance. Also, we believe that the total management system appropriately will be utilized by the customers’ choices.

Collection and transportation
Collect industrial waste going out of wastes and a factory, the building site going out of the home and carry it to the processing ground.

Intermediate treatment
It processes collected waste by a method such as incineration, the dehydration.

Recycling
We work to recycle it to use middle processing, waste burnt up as fuel and material.

Final disposal site
The closed system of the controlled final disposal site will manage the memorable environment.

From collection, transportation to intermediate processing, the last disposal and recycling... We establish the part system about industrial waste processing.

We organize the consistent waste management system...since 1975 in Japan. As the business field specialist, we utilize public waste & industrial waste. Therefore, we have the professional experience that we can correspond different types of wastes & industrial waste correctly. Moreover, our business solution will be expected to develop a new waste management business such as an environment business consulting, an inflation model of social community and a renewable energy business.
**Incineration quality**

The daily output processing capacity is 180 tons. Our intermediate handling is proud of the biggest in Japan. Our incineration plant has an efficient gas processing system. It is removing a harmful ingredient on 880 °C by using the advanced type of rotary kiln + stoker furnace. In 2015, January, we additionally can treat the low-concentrated Poly Chlorinated Biphenyl (PCB).

Our advanced intermediate processing technology is controlled by a centralized center. We realize that the concentrated management system is able to eliminate the amount of the industrial waste.

We can treat:
- Sludge
- Waste plastics
- Waste paper
- Waste wood
- Waste textiles
- Animal and plant residual
- Scrap rubber
- Scrap metal
- Glass waste and ceramic waste
- Manure of livestock
- Infectious Industrial waste
- Low-concentrated PCB waste
- Waste oil
- Waste solvent
- Waste acid
- Waste alkali
- PCB
- Waste oil
- Waste solvent
- Waste acid
- Waste alkali
- Waste plastics
- Sludge
- Infectious Industrial waste
- Low-concentrated PCB waste
- Waste oil
- Waste solvent
- Waste acid
- Waste alkali
- Glass waste and ceramic waste
- Manure of livestock
- Infectious Industrial waste
- Low-concentrated PCB waste
- Waste oil
- Waste solvent
- Waste acid
- Waste alkali

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**The central control room**

It can perform a power of the combustion and the running process at the room. At the computer screen, we can check the status such as turbine and the chimney exit.

**The gas cooling system**

After stoker furnace, the gas cooling system can reduce the temperature at the effluent gas because the goal of the solution will avoid emission.

**The chimney**

For protecting our environment, height of the chimney is 50 meters from the ground.
The capacity of 2.20 million m$^3$

The capacity of 2.20 million m$^3$ is the biggest controlled final disposal site in Japan. Also, there is an advanced leachate treatment facility for the forest.

The controlled disposal site and the advanced leachate treatment facility are able to shut out, and it treats the leachate water by advanced technologies.

This controlled disposal site has set-up systems for environmental conservation. For example, there are five level impervious phases by high-density polyethylene and nonwoven fabric under the final disposal site. Also, the impervious sheets have the water leakage sensors. When the leachate water is leaked, the sensors alarm. The central center can check the final disposal site’s ground condition by 24 hours.

On the process of the final disposal site to the advanced leachate treatment facility, there are five regulating pits. The five regulating pits are able to collecting the rain water. On the other hand, the leachate is collected and go to the leachate treatment pit. Therefore, the advanced leachate facility finally treat the pelletized leachate by the coagulating sedimentation, falling film evaporator system, ammonium concentrator system, contact oxidation method, sand filtration. So, we can treat the leachate by the several advanced water solutions.

This closed system and the water treatment solution are able to improve our environment.

For completeness, we have adopted the structure like

【The light shielding sheet】
【The nonwoven fabric】
【The light shielding sheet】
【The nonwoven fabric】
【The light shielding sheet】.

The safety shut-off valve
When inflows of leachate exceed the capacity (6500 t), it closes the safety shut-off valve.

The impervious sheet of the leaked water detection system
It is installed under the impervious sheet. Under the shape of the disposal ground. The leaked water can be detected by the form of lattice laid electrode sensor.

The leachate treatment facility
The characteristic of this final disposal site is ‘recycling type of leachate treatment system.’
We will promise the security and the relief of all about the highest processing system and the digitized system of the administration.

The control room
The control room is organized by the entire processing system. The entire processing system is able to establish on the safety and the high quality management of the leachate treatment facility.
The leachate treatment system

We adopt an epoch system. We clean the polluted water by using the three processes.

In addition to conventional microbial treatment. We use an ammonia concentrator system with FFE, and it adopts the perfect processing system. FFE flows down the filthy water that is high density, and it fluctuates the low quality of the water go through the filter. And then, it effectively evaporate the filthy water. Therefore, we can separate the water by the polluted part and the clean part from the moisture. The ammonia concentrator is able to separate water and ammonia that we can use the ammonia water at the incineration facility to avoid NOx during the incineration process.

The ammonia concentrator facilities & this FFE are the best combination system. In fact, we minimize an amount of the industrial chemicals on the process as simple as possible. It is our cleaning system that it assumes what we return to the best condition of the nature.

Gate of the reproduction

We will work our limited nature and natural resources. We have the highest liability for the Earth. We contribute our 40 years business experiences and power of the specialized facilities for sustainable society. The gate of the reproduction is going to be greatly opened.

The solid fuel production system

We use industrial waste and reproduce to solid fuels (RPF). Moreover, we build the exclusive plant and work on recycling business aggressively.

The solid fuel (RPF) is produced by separated flammable industrial waste. It is suitable for transportation and a storage for fuel performed a compression molding. The solid fuel is able to decline the level of dioxin. It is the new energy to perform for the low-polluted activity. It has same amount of the burning calorie as coal.

We realize that the solid fuel has a possibility of the next alternative fuels. We can produce approximately 360T/day, approximately 300,000/month.

The concept of the waste disposal treatment is “utilization” from “burns and buries”. We will promote recycling business in a wide field in future in order to try for creation of the recycling society.

- The facility name
  The facility to convert waste material into solid fuel.
- The address
  754-1 In Otsu, Yamanose, Aza, Nishihun, Ayagawa, Ayauta, Kagawa prefecture, Japan
- The daily throughput
  36 ton
- The annual planned throughput
  10,800 ton
- The operation day
  300 day / year

Flow chart of the solid fuel production
【The plastic fuel production system】

We recycle different types of plastics. The gathered plastics will be the new fuel instead of fossil fuels such as heavy oil and light oil.

We compress plastics and we create a recycled cubic. The recycled cubic will be a next resources.

In Japan, 52% of plastic is recycled and it is recycled to new products. However, 48% of plastic is not recycled. Therefore, we will improve the recycling rate for utilizing the limited natural resources.

Since 2001, we continue to create the new fuel. It is called "RPF". The RPF is utilized for a boiler energy. (Using at paper production companies)

- Polyethylene (PE)
- polypropylene (PP)
- polystyrene (PS)
- vinyl chloride (PVC)

The plastic fuel (product)

The facilities profile
The facility name : The plastic recycling center
The address : 748-24 in Otusu, Yamanoue, Aza, Nishibun, Ayagawa, Ayauta, Kagawa prefecture, Japan
The daily throughput : 90 ton
The annual planned throughput : 27,000 ton
The operation day : 300 day / year

The crusher
The equalization of the raw materials size is necessary to burn fuel precisely. It can improve the incineration process effectively.

The conveyor
There are two lines that can automatically convey the plastics into the magnetic separator.

The magnetic separator
It is removed metal and metal powder by using magnetic force from the crushed and equalized raw materials. It is raised the durability of the furnace, and it improves combustion efficiency.

The revolving screen
We separate the raw materials that are crushed to a suitable size.

The compression packing device
After high pressure compressor, it is packed by the lapping device. The cubic resource is finally made between size of approximately 500 kilos in weight and is carried out.

The fixed quantity supplying machine
For performing the quantity, this is the suitable machine to remove impurities. The machine can automatically measure the amount of resources for the lapping process.
The granulated solidification system

On the recycling business, soot & dust, sludge, and cinder are considered to be the waste that is difficult in recycling. However, we found the recycling solution of them. For the purpose, we protect a certain limit earth resource and contribute to realization of the high recycling society.

The resources ⇒ The product ⇒ The waste ⇒ The resources
We correct the resources to utilize the limited natural resources again.

We granulate and solidify the mud and ash for making construction products.

We reuse the hydrous water of the mud, and we utilize the water that is obtained on the solidification process. In addition, we check the granulated materials once a month for keeping the quality of the construction products.

The facility profile
- The facility name: The granulated solidification facility
- The address: 748-24 in Otou, Yamanoue, Aza, Nishibun, Ayagawa, Ayauta, Kagawa prefecture, Japan
- The daily throughput: 12 ton/h.
- The annual planned throughput: 28,800 ton/year
- The operation day: 300 day/year

The Exclusive truck
- Soot & Dust
- worked to burn up waste
- Cinder
- excreted from sewage and the factory
- Sludge

The granulator
At first, the granulator crushes raw materials by using a multistage-type knives. And then, the granulator machine can implement three different phases into one action. This phase is the core process on this granulated solidification system. The three important points are mixing the water, industrial chemicals, and fixation agents.

The good self-care yard
The yard can stock the completed materials. We keep the quality of the completed materials from other possible damages.

The sludge tank
The sludge tanks are divided into five sections by water level of the sludge. The total capacity of the five sections are approximately 185㎥.

The Solidification agent silo
This silo stocks the solidified soot & dust, cinder and sludge. The silo is able to approximately stock 60㎥.

The sizing machine
Here at this solution, the sizing machine is able to granulate the size suitably for making the material.

The drag storage tank (detoxification)

The fixing agent silo

The granulator

The soot & dust silo
First of all, the soot & dust are excreted from the boiler and the incinerator that are saved in the silo. The capacity of soot & dust silo is approximately 610㎥.

The cinder silo
Cinder is stocked into this silo. The capacity of cinder silo is approximately 110㎥.

The sludge silo
The sludge tanks are divided into five sections by water level of the sludge. The total capacity of the five sections are approximately 185㎥.

The resources ⇒ The product ⇒ The waste ⇒ The resources
- We correct the resources to utilize the limited natural resources again.
- We return it to the resources that can utilize as material for gardening, buildings and engineering works by granulated soot & dust, cinder, and sludge.
Company profile

Company Name: FUJI CLEAN CO., LTD.
Incorporated: 1975 July
Capital Stock: JPY 300 mil.
Headquarters: 2994-1 in Yamadashimo, Ayagawa, Ayauta, Kagawa prefecture, Japan, POC 761-2204
Facilities: Tokushima Branch, Controlled final disposal site, intermediate processing facilities

- September 1974 Established incorporated to Fuji clean CD, LTD.
- 17th July 1975 Capital Stock JPY 0.5 mil.
- 6th January 1976 Waste industry is authorized from Kagawa Prefecture
- 1st December 1982 Kagawa Prefecture septa tank maintenance and inspection industry No. 56
- 18th March 1986 General area cargo automobile transportation business license from Shikoku Department of Transportation
- 2nd November 1988 The organizational changes in Fuji clean CD LTD. (Capital Stock JPY 1.0 mil.)
- 1st June 1991 Relocated the headquarters to the current location.
- 2nd February 1993 Set up Tokushima Branch at 1-32-1 in Nakajosanjima, Tokushima, Tokushima prefecture, Japan
- 2nd November 1993 Remove a condition of the general cargo car transport business from Shikoku Department of Transportation
- 10th April 1995 Admitted intermediate processing facilities setting larger-scale from Kagawa
- 28th February 1997 Intermediate processing facilities completion (Incineration facility)
- 8th October 1999 Capital Stock JPY 50 mil.
- 20th June 2000 Capital Stock JPY 200 mil.
- December 2001 Public, industrial waste Controlled last disposal site completion
- February 2004 The ISO14001 acquisition
- September 2008 Set up Crush sorting facilities and Granulation solidification facility
- November 2009 Kagawa environment consideration model establishment authorization
- February 2013 Low-concentrated PCB waste detoxification processing authorization

Business item
- General cargo car transport business
- General pollution consulting service
- Industrial waste collection, transportation, duties about the processing disposal
- Special management industrial waste collection, transportation, duties about the processing disposal
- Domestic waste disposal business
- Purified water tank cleaning business and purified water tank construction business
- Duties about the maintenance check of various purified water tanks
- The engineering works construction design construction work
- Crane construction business
- Reinforcing rod worker business
- The painting, the dismantling, the restoration construction work
- Painter business of a road and the land
- Tubing business
- The machine appliance setting construction work
- Steel structure construction business
- Engineering works architecture material dealership
- Building administrative task
- Dealership of the waste oil reproduction business and reproduction product
- Sale of the medical equipment and lease business
- Environmental measurement proof business
- Duties about the measurement of the heavy goods which I loaded a car, a truck with
- Business incidental to business listed in the preceding items

Member organization
- Association of general corporate judicial person Kagawa industrial waste
- Association of corporate judicial person Tokushima industrial waste processing
- Association of corporate judicial person Ehime industrial waste
- Association of corporate judicial person Kochi industrial waste
- Association of general corporate judicial person Hyogo industrial waste
- Association of corporate judicial person Kagawa truck
- Association of Kagawa environmental conservation
- Corporate judicial person Sakaide corporation society
- Association of general corporate judicial person Kagawa labor standards
- Association of Takamatsu city dangerous materials preservation
- Association of corporate judicial person industry environmental management
- Association of nonprofit foundation Kagawa purified water tank

Fuji clean Co., Ltd.

- Headquarters
  2994-1 in Yamadashimo, Ayagawa, Ayauta, Kagawa prefecture, Japan
  POC 761-2204
  Tel.+81-87-878-3111 Fax.+81-87-878-5113
  HP URL: http://www.fujicl.com/
  E-mail address: fujicl.com
- Tokushima Branch
  1-32-1 in Nakajosanjima, Tokushima, Tokushima prefecture, Japan
  POC 770-0813
  Tel.+81-88-625-2013 Fax.+81-88-655-5355
- Intermediate processing facilities
  754-1 in Ono, Yamaguchi, Aza, Nishibun, Ayagawa, Ayauta, Kagawa prefecture Japan
  POC 761-2206
  Tel.+81-87-878-3511 Fax.+81-87-878-3345
- Controlled final disposal site
  748-19 in Ono, Yamaguchi, Aza, Nishibun, Ayagawa, Ayauta, Kagawa prefecture, Japan
  POC 761-2206
  Tel.+81-87-878-2610 Fax.+81-87-878-2610

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