

Measures for Resource Conservation and Waste Management



Controversies surrounding waste disposal, lack of final disposal sites, and illegal dumping have ignited strong demands for prevention and improvement. Constructing a circulative society has

become a goal nowadays and, to achieve this goal, efforts toward the 3Rs, Reduce, Reuse and Recycle, of waste are essential.

At JPMA

We set a voluntary target to save resources and reduce waste, and we endeavor to meet this target as a part of 3R actions.



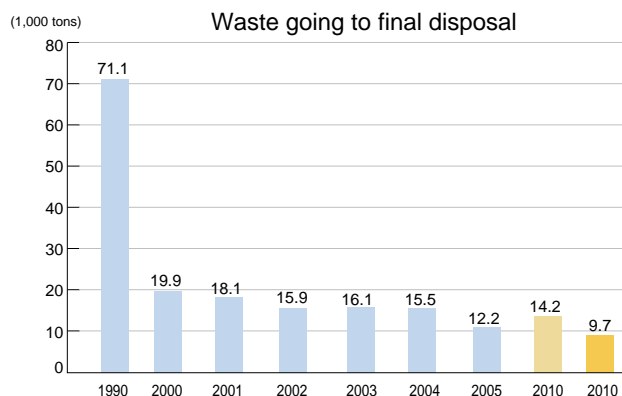
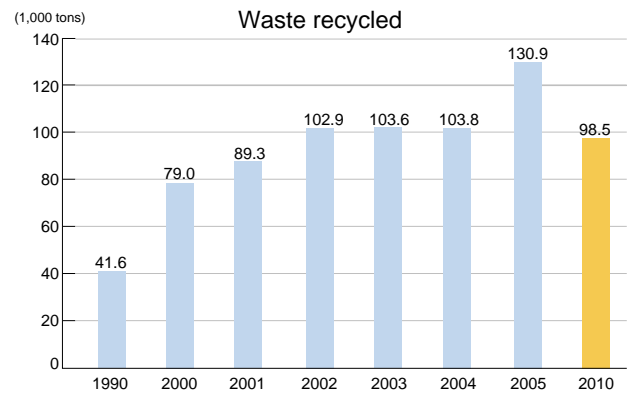
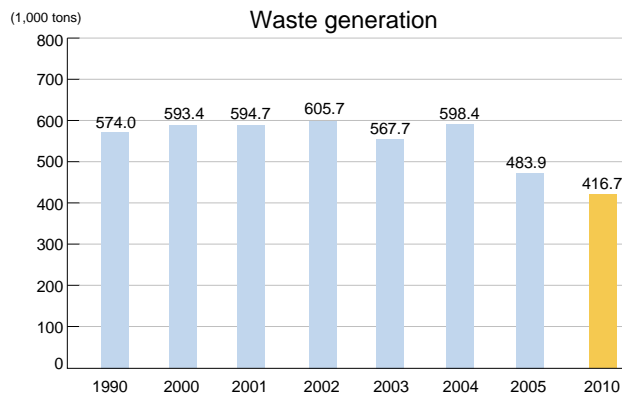
Target

Up to a 20% reduction of final output of processed waste by FY 2010 (against the benchmark as in FY 1990)

The waste generation from member companies fluctuated at around 600,000 tons in five years between FY 2000 and 2004, before being reduced considerably to 480,000 tons in FY 2005. The recycled amount was considerably increased to 130,000 tons (a 27,000 ton increase compared to the last FY). Consequently, the final output of processed waste was considerably reduced (a 3000 ton reduction compared to the last FY), and therefore the target, 17.2 % of the benchmark quantity of FY 1990, was achieved. This achievement was reached within two years of revising the target in FY 2004 (April)

and reflects the efforts by member companies in improving intermediate processing and further recycling.

As the final output of processed waste in FY 2010 is projected to be a further 13.6% (target 20%: both against the benchmark as in FY 1990), accomplishing the target seems almost certain, but our member firms will still be implementing additional measures for reduction, including another revision of the target.



Actual Target Prediction

*A survey was sent to 75 JPMA member companies. The responses received from 66 companies were collated, and then the figures were adjusted with a sales cover rate of 95.2%.

Submissions were received from three member companies for the FY 2006 3R Promotion Contributor Award Scheme. The submissions were nominated through the Federation of Pharmaceutical Manufacturers' Associations of Japan, and one Health, Labor and Welfare Minister Award and two 3R Promotion Council President Awards were awarded.



Mr. Yasutada Shirakura
Director,
Toyama Factory,
Astellas Toyama Co., Ltd.

On receiving the Health, Labor and Welfare Minister Award

Astellas Toyama Factory has had the honor of receiving the Minister of Health, Labor and Welfare award at the Reduce Reuse Recycle (3R) Promotion ceremony in recognition of contribution.

Toyama Factory is relatively new, as it has only been in operation about 15 years. Right from the beginning, we took initiatives such as the separation of solvent wastes discharged from the manufacturing process, thermal recycling (utilization as an energy source outside the factory), and material recycling (finding other use outside the factory).

We received ISO14001 certification in March 2000. At about the same time, we began to place more emphasis on environmental conservation activities. As a result, we have switched to another manufacturing method that enables the large-scale reduction (Reduce) of waste generation, as well as makes it possible to repurify solvent waste for repeated use during the same manufacturing process (Reuse). We also created an "Eco Station" system to establish collection points for "waste" such as paper, plastic and metal, as an effort in continuing thorough separate collection and recycling.

As result of these ongoing actions, we have been able to achieve a near zero emission level, less than 1% of the initially generated waste, that needs final disposal into a landfill.

As a factory located in the nature rich Toyama region, we hope to be recognized as a truly "Good for Nature Factory" and are resolved to make continuous efforts in future 3R promotion actions.



Mr. Yasuyuki Suzuki
Director, Menuma Factory,
Banyu Pharmaceutical Co., Ltd.

On receiving the 3R Promotion Council President Award

Our actions have led Menuma Factory to the honor today of receiving this award. This honor will give everyone at the factory enormous motivation to commit to further environmental conservation activities. I would like to express our gratitude.

In 2004, our factory achieved 20% reduction in waste generation, despite a 10% increase in production from the previous year, and was awarded the "Saitama Environment, Eco-up Award" from Saitama Prefecture. If that award was the first "hop" in a triple jump, year 2005 would be the second "step", with a 15% improvement in recycling rate from the year before, which has led us to the honor of receiving this award today.

The waste reduction actions at our factory were started by taking a totally different attitude from the existing reduction actions, with the motto, "To reduce waste by improving productivity". Thorough planning of production and purchase of packaging materials enabled us to reduce machinery adjustment materials to the minimum, leading to a waste reduction effect beyond our expectations. A secondary effect could be noted in the reduced purchase cost of packaging materials.

The recycling rate was improved by an attempt to recycle packaging material that had previously been incinerated. That is, packaging material that had the company name on it had been incinerated for security reasons, but we were able to recycle it by revising the route and management method.

We intend to extend our environmental conservation activities to a huge "jump" through continuous efforts. Your support for our efforts was, is, and will be much appreciated.



Mr. Minoru Machida
Director, Utsunomiya
Factory, Chugai
Pharma Manufacturing
Co., Ltd.

On receiving the 3R Promotion Council President Award

Chugai Utsunomiya Factory has had the honor of receiving a President Award today at the Reduce Reuse Recycle (3R) Promotion ceremony in recognition of our contribution.

This award is a great recognition only exceeded by the Prime Minister Award and other Minister Awards. On behalf of all our factory staff, I would like to express our gratitude. This award will give us enormous motivation and support in our future environmental actions.

Utsunomiya Factory is in its 16th year of operation. We started with the manufacturing and packaging of injection products, and initially had only a few types and a small quantity of waste. We have only recently, since 2000, started activities for the recycling of prefilled syringe blister pack material (PET).

This award recognizes our "Composting and utilization of sludge". This is an initiative in which liquid waste, generated during the process of biological drug substance production at our factory, is collected and, after being chemically treated at an external firm, converted into something for totally different use, "organic fertilizer". This is an example of a type of technology that enables "reuse", contributes to the reduction of waste generation "reduce", and can be converted into a "recycled" item with added value. We have adopted the same philosophy behind the ideology of "deliver safety and peace of mind" through the manufacturing and distribution of high quality pharmaceuticals. This award is also proof that what was started as part of the ISO14001 actions has now become firmly established at the factory.

The Utsunomiya Factory is about to be reborn from a injection product-manufacturing factory into a developmental production base of biotechnology. We will continue promoting 3R actions so as to enable a rich coexistence between nature and humans. Your support for our efforts will be much appreciated.