

For a Sustainable Society

LINK TOGETHER



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LINK TOGETHER

The world is on the eve of the dawning of sustainable societies.

What sustainable societies require is a network of arterial and venous industries, and horizontal linkage among business, government, and the citizenry as members of a community.

Horizontal linkage by provisions in “soft” aspects frees us from the weight of undue emphasis on “hard” aspects and paves the way for emergence of sustainable societies.

Aware of the changing times that foreshadow sunrise in the twilight before dawn, we at Re-Tem aspire to Japanese-born international contribution reconciling economic and environmental interests.

Giving full play to compassion and thoughtfulness as hallmarks of the Japanese temperament, we are striving to build sustainable societies in Japan and the world as a whole on both the “hard” front of resource recycling and the “soft” one of sophisticated environmental management.

Akira Nakajima
President & C.E.O



1909
Founded in the city of Mito, Ibaraki Prefecture (Our original head-office building still stands. Re-Tem launched resource recycling business in a factory adjacent to it.)



1970
Construction of the Mito Factory

1970
Enactment of the Waste Management and Public Cleansing Law (Japan)

1972
Holding of the UN Conference on the Human Environment and adoption of the Declaration on the Human Environment

1985
Adoption of the Vienna Convention for the Protection of the Ozone Layer

1979
Enactment of the Act on the Rational Use of Energy (Japan)

1991
Enactment of the Act on the Promotion of Effective Utilization of Resources (Japan)

1992
Holding of the UN Conference on Environment and Development (Earth Summit) in Brazil

1993
Input of a high-performance specialty crushing machine Process I into the Mito Factory
Successful achievement of a “zero emissions” recycling process for metal-plastic composite materials from OA devices etc.

1997
Adoption of the Kyoto Protocol at COP3

1993
Enactment of the Basic Environment Act (Japan)

1997
Change of name to Re-Tem Corporation (head office in Chiyoda-ku, Tokyo)



2005
Construction of the Tokyo Factory

Project consigned by the METI
Implementation of a project for survey concerning international resource circulation

1998
Organization of the regional recycling network J•RIC for resource recycling

2000
Enactment of the Basic Act on Establishing a Sound-Material-Cycle Society (Japan)

2002
Project consigned by the METI
Implementation of a project for LCA data analysis at the Mito Factory

2008
Project consigned by the MOE
Implementation of a model project for collection of discarded electronic devices

Project consigned by the METI
Implementation of a project for technology development for high-efficiency extraction and separation of rare metals etc.

Established Lizao (Beijing) Environmental Technology & Consulting Co., Ltd.

2009
Determination of support for the Tianjin TEDA Eco Center concept in China

2011
Transformed the Beijing corporation into Re-Tem (Beijing) Environmental Technology & Consulting Co., Ltd.

Established Re-Tem Global Eco Management Inc.

Corporate philosophy

We shall bequeath a better natural environment for tomorrow and help to build societies brimming with hope and vitality.

Re-Tem - always evolving with the times

Founded in the city of Mito (Ibaraki Prefecture) in 1909, Re-Tem has continued to evolve with the times. We have achieved a “zero emissions” recycling process for metal composite materials, established a setup for resource recycling on a national scale, constructed a factory in Tokyo, and taken other steps for development of technology for alleviation of environmental burden while expanding our business.

With the start of the 21st century, environmental problems are assuming increasing importance as issues bearing on the very survival of humankind. As a company dedicated to environmental preservation, we at Re-Tem are determined to develop our business on a global scale for realization of sustainable societies by extensive application of our deep store of technical and management capabilities.

Re-Tem's business has two major components: the "hard" one of resource recycling and the "soft" one of consulting services. The two are closely coordinated with each other. For example, we are commissioned for individual cases of consultation through receipt of consignments for recycling of industrial waste, and for provision of waste treatment management services through programs of environmental education.

Resource recycling business

- **Recycling of industrial waste**
Tokyo Factory, Mito Factory
- **Collection and transportation of industrial waste**
- **Management services**
Recycling management services / resource recycling chain management services, etc.
- **Studies and research**
Studies and research related to resource circulation / research on technology for collection of rare metals, etc.
- **J·RIC**
Regional recycling management services
- **Reuse services**
Reuse of products, parts, etc.
- **One-stop services**
One-stop services in store dismantling and removal, etc.

Consulting business

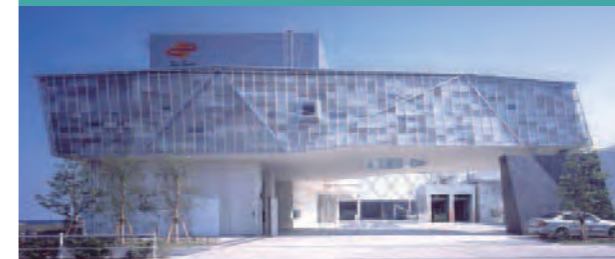
- **Environmental consulting**
Waste management / support for acquisition of wide-area certification / recycling cost optimization / LCA analysis / support for introduction of carbon footprint / consultation related to environmental laws and regulations, etc.
- **Seminars and training**
Seminars on waste management risks / seminars on Waste Management and Public Cleansing Law, etc.
- **Environmental education**
Lectures at companies, schools, public agencies, etc. / programs of hands-on environmental education, etc.
- **Eco management services**
Support for construction of eco management centers / in-house resource circulation centers, etc.

H A R D  S O F T

Attainment of zero emissions at the Tokyo and Mito Factories

Re-Tem has established two factories for recycling of resources from industrial waste in Tokyo and Mito. It is working for the resource recycling from the large quantities of industrial waste derived in not only the Greater Tokyo Metropolitan Area but also the whole of the Kanto region, with zero emissions of waste in the process.

TOKYO FACTORY



This state-of-the-art factory was constructed in the Tokyo Super Eco Town zone in 2005. It recycles metal and various other types of industrial waste generated in the Greater Tokyo Metropolitan Area.

Location: 3-2-9, Jonanjima, Ota-ku, Tokyo
Site area: 5,293 m²
Capacity: Crushing machine 864 t/day

Features of the Tokyo Factory

- **Reduction of distribution costs and environmental burden**
Located close to the heart of Tokyo, which is the source of vast quantities of waste, the factory reduces distribution costs and CO₂ emissions entailed by transportation
- **Maximum treatment capacity of 864 tons/day**
The factory can treat up to about 100 10-ton truckloads of waste per day

MITO FACTORY



This all-around factory was placed into operation in 1970. It is installed with a crushing machine, a guillotine shear, and other equipment, and turns various types of waste, from large industrial machinery to small electronic devices, into high-grade, usable resources.

Location: 3520, Nagaoka, Ibaraki-machi, Higashi Ibaraki-gun, Ibaraki
Site area: 29,287 m²
Capacity: Crushing machine 37.8 t/day
Guillotine shear 80.0 t/day

Features of the Mito Factory

- **High-grade treatment for resource recycling**
Attainment of separation and resource recycling on a level that is much higher than ordinary scrap, for both iron and nonferrous metals
- **Specialized treatment capability for handling everything from small electronic devices to large machine tools**
Treatment of everything from small mobile phones to large machine tools with a combination of crushing machine, guillotine shear, and original know-how

Re-Tem's policy on the resource recycling business

- **Setup for man-machine collaboration to heighten efficiency of resource recycling**
Manual dismantling and separation of waste before treatment are followed in turn by an automated treatment process and visual checking
- **High reliability corroborated by designation under the system for wide-area certification of waste recycling agents**
Re-Tem factories have been certified and designated as wide-area recycling factories of manufacturers of personal computers and other OA equipments
- **Full setup for security**
All possible steps have been taken to prevent information leakage and thefts, including locked storage, surveillance cameras, 24-hour monitoring, and access control

Development of various derivative services based on achievements in resource recycling

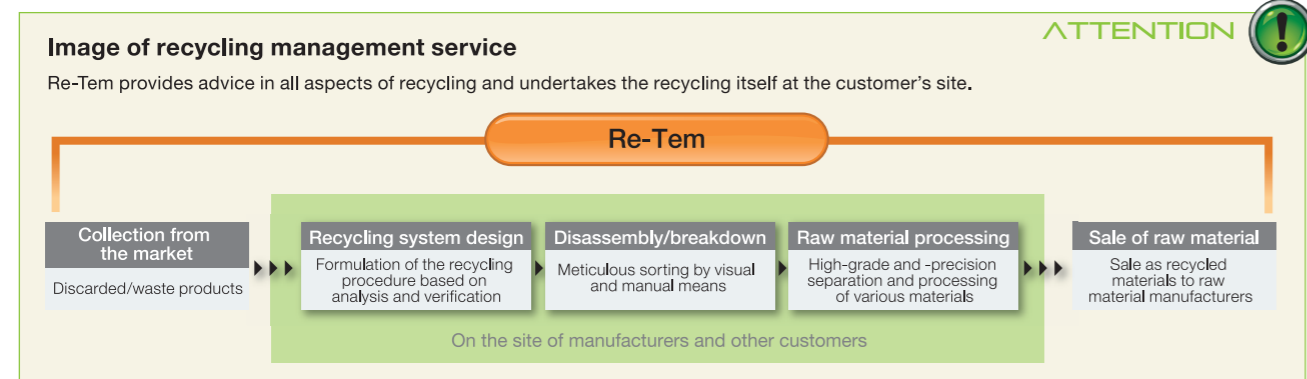
Building on the foundation of achievement in the business of resource recycling at our Tokyo and Mito Factories, Re-Tem is developing a variety of derivative services by drawing on its business network, treatment technology, and operating know-how.

Services in management of waste treatment backed by expertise in technology and resources

Recycling management service

For customers wishing to collect their own products from the market and recycle them, Re-Tem provides advice in all areas including recycling system design and collection logistics, and

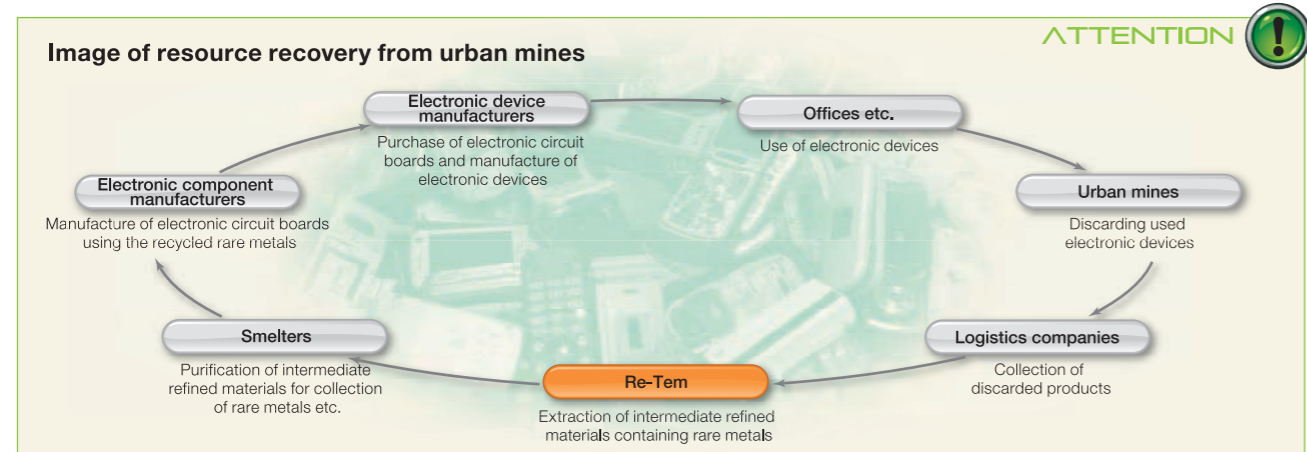
undertakes the very work of recycling. We also have a record of achievement with recycling factories for home appliances, mobile phones, and copiers.



Resource recycling chain management service

By building relationships of cooperation with logistics and smelting companies, Re-Tem has constructed networks integrating the processes of collection, transportation,

disassembly, separation, and smelting. It utilizes these networks for provision of recycling chain management service for stable supply of rare metals and other resources.



Studies and research

Studies and research for promotion of resource circulation and collection

Re-Tem accepts commissions for all sorts of study and research from national and local authorities and private enterprises. In this connection, it is taking various approaches to development of forerunning recycling technology and schemes, and improvement of product amenability to recycling.

<Major services>

Studies and research related to resource circulation

Analysis concerning product recycling (calculation of recycling rate, CO₂ emissions, cost, etc.)

Research on technology for collection of rare metals

Management services for promotion of wide-area resource circulation

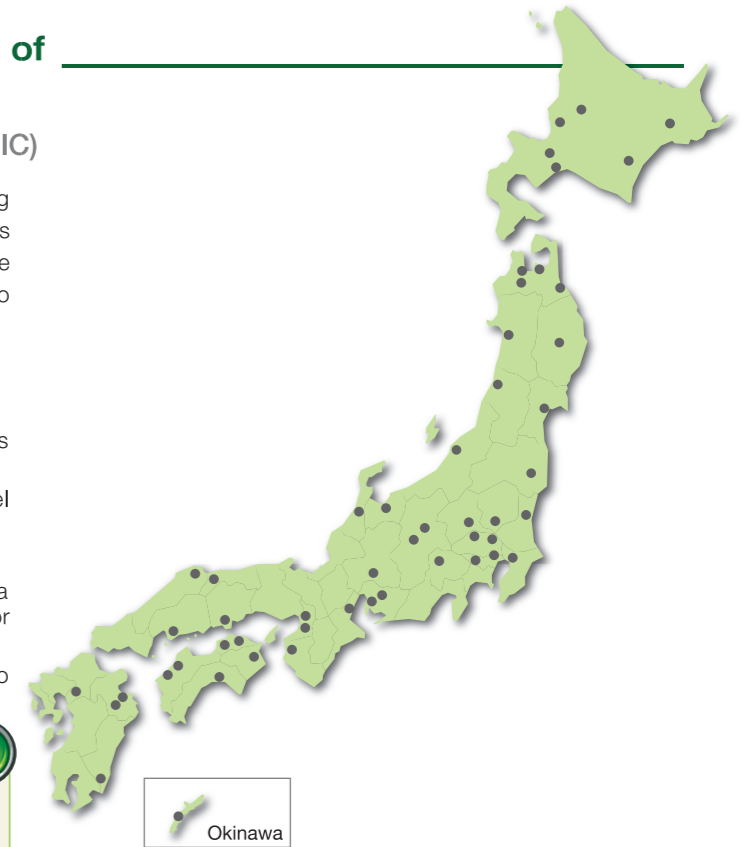
Regional recycling management service (J•RIC)

This is a resource recycling service for waste-generating enterprises that operate nationwide or in units of areas. In its capacity as the lead manager, Re-Tem has organized waste treatment companies across the country into a network to furnish services up to a uniform standard nationwide.

* J•RIC = Japan Recycle Improvement Committee

Features of the J•RIC

- More than 50 bases of 31 companies in eight blocks nationwide
- Centered around members of the Japan Iron And Steel Recycling Institute
- Certification of many of the members under ISO 14001
- Designation of many of the members as wide-area recycling certified and designated firms (factories) for major manufacturers
- Comprehensive coverage extending from Hokkaido to Okinawa



Advantages of J•RIC use ATTENTION !

The J•RIC offers numerous advantages, including the unification of in-house management work plus alleviation of its burden, standardization of recycling costs, reduction of risk through heightening of the service level and uniformity of contractors, transparency of recycling flow, and tightening of compliance with laws and regulations.

Alleviation of environmental burden by reuse of waste products

Reuse services

Reuse of products

This service assists the reuse of discarded computers and other such products in the same product form. Our expert staff make sure to delete all data input by the previous owners.

Reuse of parts

When the discarded products are not amenable to reuse, we examine prospects for reuse of the parts composing them. We manually dismantle products to support the reuse of liquid crystal display panels, for example.

One-stop services to meet customer needs

Package services

Re-Tem bundles several services into a package tailored to customers with diverse needs.

<Major services>

Vending machine recycling service	One-stop services for used personal computers
Industrial machinery recycling service	One-stop services for store dismantling and removal
Banking equipment recycling service	Services in collection and treatment of packaging materials

Example: one-stop service for store dismantling and removal ATTENTION !

This service is designed for the retail premises such as convenience stores. Through it, we undertake work in all stages including transportation and placement of fixtures and fittings at the time of and after opening, waste transportation and disposal, and dismantling at the time of store closure. Besides centralizing work management, the service is linked to reduction of transportation costs, energy consumption, and CO₂ emissions. In addition, customers can rest assured about compliance with laws and regulations, because the job is being done by professionals in waste handling.

“Environmental diagnosis” of customers with a professional’s eyes

With its long history of handling the job of resource recycling, Re-Tem has made arrangements for “environmental diagnosis” of a sort unavailable from the ordinary consultant firm, with the eyes of a professional who knows the work sites.

Environmental consulting & solutions

Drawing on the deep store of know-how and experience accumulated over its long years of work in waste treatment and resource recycling, Re-Tem provides consulting services in all sorts of environmental fields, mainly related to waste. We also supply solutions through activities that are not confined to the proposal of plans but also cover all phases from the actual launch of projects to the stage of operation.

<Major services>

Construction of methodology for waste management

Diagnosis of waste management risk

Construction of nationwide systems for collection and recycling of waste products (acquisition of wide-area certification)

Optimization of waste recycling costs

LCA evaluation and analysis of the waste recycling stage

Support for introduction of carbon footprint

Consultation regarding all environmental laws and regulations

Seminars and training

Besides being familiar with many types of cases as a waste treatment business, Re-Tem has an in-house legal affairs department that is engaged in timely collection of an abundance of information on pertinent laws and regulations for input on its own data base. We also hold various kinds of seminars and individual training programs regarding environmental legislation, which is being amended in the direction of tighter control.

<Major services>

Seminars on waste management risks

Seminars on the Waste Management and Public Cleansing Law

Seminars on various environmental laws and regulations

Capabilities of Re-Tem’s Legal Affairs Department

Unusually for a company handling waste, Re-Tem has a legal affairs department whose activities cover sales, factories, and even contractors. The department serves as the key unit for sure compliance based on both Re-Tem’s own voluntary rules of control and supervision, as well as applicable laws and ordinances.

ATTENTION



Scene at a seminar held by Re-Tem’s Legal Affairs Dept. at Kirin Holdings Company, Limited

Environmental education

Re-Tem actively supports environmental education in diverse fields for companies, public agencies, and educational institutions. The students themselves take an active part in classes held on key words such as “look”, “listen”, “feel”, and “experience”, and learn about the importance of the environment, resources, and recycling.

<Major services>

Lectures at companies, schools, and public agencies

Support for corporate environmental education and community business

Programs of hands-on environmental education for elementary and junior high school students and local residents



Look

The students see the recycling process and get a firsthand look at how waste is turned back into usable resources



Listen

The teachers provide easy-to-understand descriptions, using slides and other visual aids, of the scheme for and importance of recycling



Feel

The students actually handle the contents of waste products and recycled materials, and get a feel for the importance of resources



Experience

The students deepen their knowledge of recycling by disassembling waste products and sorting their parts themselves

Graduation from elemental improvement to systemic improvement

The solution of environmental problems requires change in socioeconomic systems. Re-Tem advocates such systemic change to lower environmental burden in cities and entire areas.

Eco management services

No matter how hard individuals, companies, or governments may strive to resolve environmental problems separately, not much progress can be made in overall improvement without coordination among them. Greater effects can be induced if, for example, Company A in one area reuses the resources discarded as waste by Company B in the same area, and the whole area shares the same environmental infrastructural

facilities. Re-Tem proposes eco management that emphasizes such horizontal linkage. We support the construction of systems oriented toward horizontally linking local governments with companies and companies with each other, to reduce not only environmental burden but also costs on an area-wide basis.

ATTENTION

Eco centers - hubs of eco management

Eco centers play the role of hubs of environmental management and information collection within the scope of cities, industrial estates, corporate groups, etc. They gather and analyze information on the needs and issues among companies, citizens, and organizations in the area as well as on the external environment, and implement corresponding initiatives. Their mission is to optimize overall management. Re-Tem supports the construction and operation of eco centers.

<Major services>

Support for target-based management Proposal of setups for target management adapted to agenda such as resource conservation and resource recycling

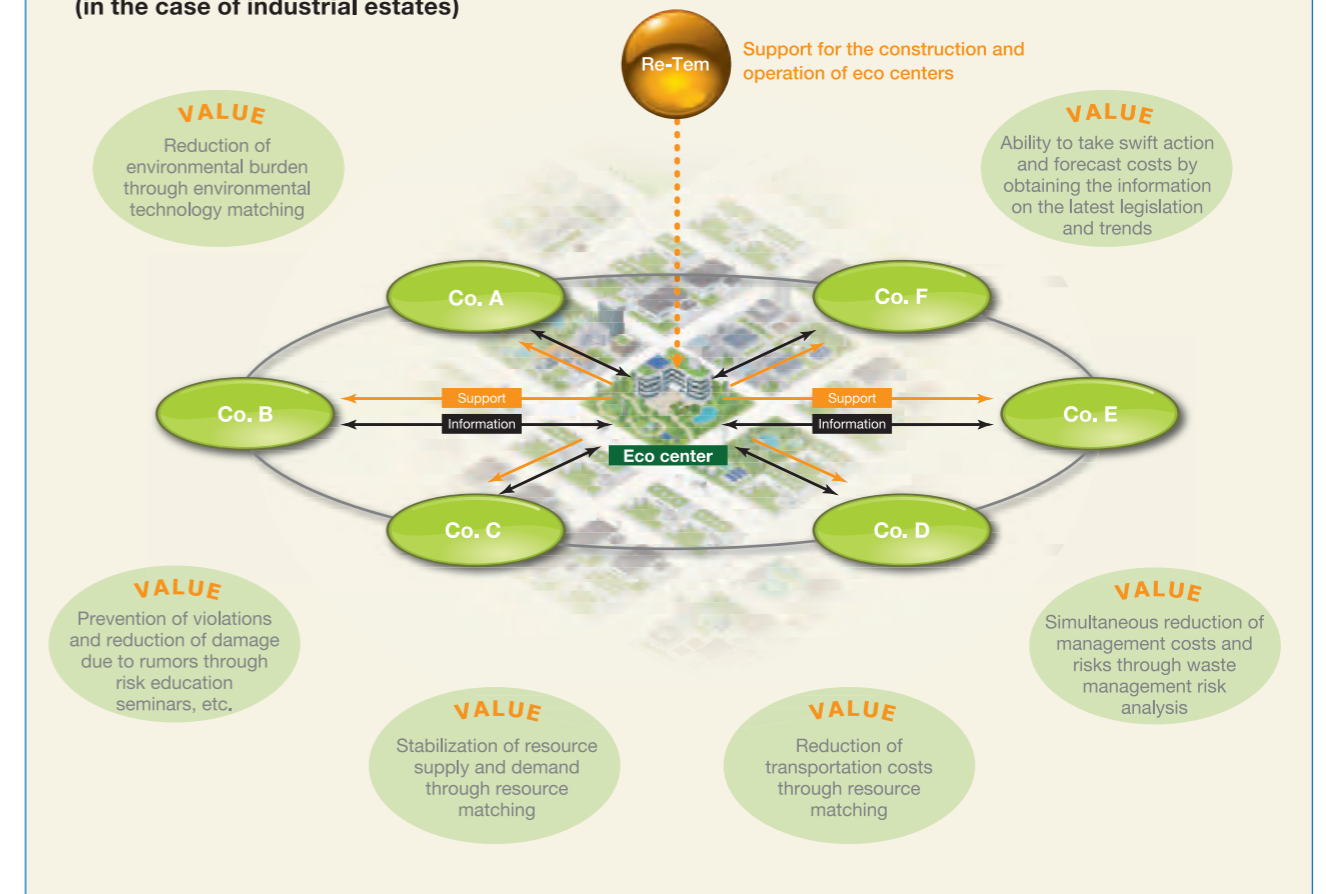
Support for introduction of environmental technology Achievement of supply-demand “best matches” for excellent environmental technology

Information service Offering of the latest environment- and law-related information to residents and companies with an emphasis on understandability

Education and training Planning and organizing of training and educational events on the theme of resource circulation etc. for companies and residents

Corporate consultation Planning and proposals for companies related to the community business

Conceptual drawing of eco centers (in the case of industrial estates)



Bringing eco management to the world

Re-Tem is consulted about resources and waste by organizations in countries around the world. It is also receiving increasing requests for assistance from Japanese firms building up their presence in other countries. At present, it is avidly promoting the development of global business, at four locations in the United States and China.

Establishment of an environmental management firm in Beijing

- Name: Re-Tem (Beijing) Environmental Technology & Consulting Co., Ltd.
- Incorporation: November 2008
- Place: Beijing, China
- Description: consultation about resource circulation and energy conservation, surveys of the Chinese market, and other services for Chinese administrative entities, local firms, and Japanese firms

Establishment of an environmental management firm in Seattle

- Name: Re-Tem Global Eco Management Inc.
- Incorporation: February 2011
- Place: Seattle, Washington, U.S.A.
- Description: consultation about resource circulation and energy conservation, surveys of the U.S. market, and other services for U.S. administrative entities, local firms, and Japanese firms

Mito Factory
Head Office
Tokyo Factory

Support for an eco center in Tianjin



Conceptual drawing of the completed eco center

- Name: Tianjin TEDA Eco Center
- Period: since 2008
- Place: Tianjin, China
- Description: support for an eco center to serve as a hub of environment-related information sharing, technology exhibits, and R&D in the Tianjin economic development area (TEDA)

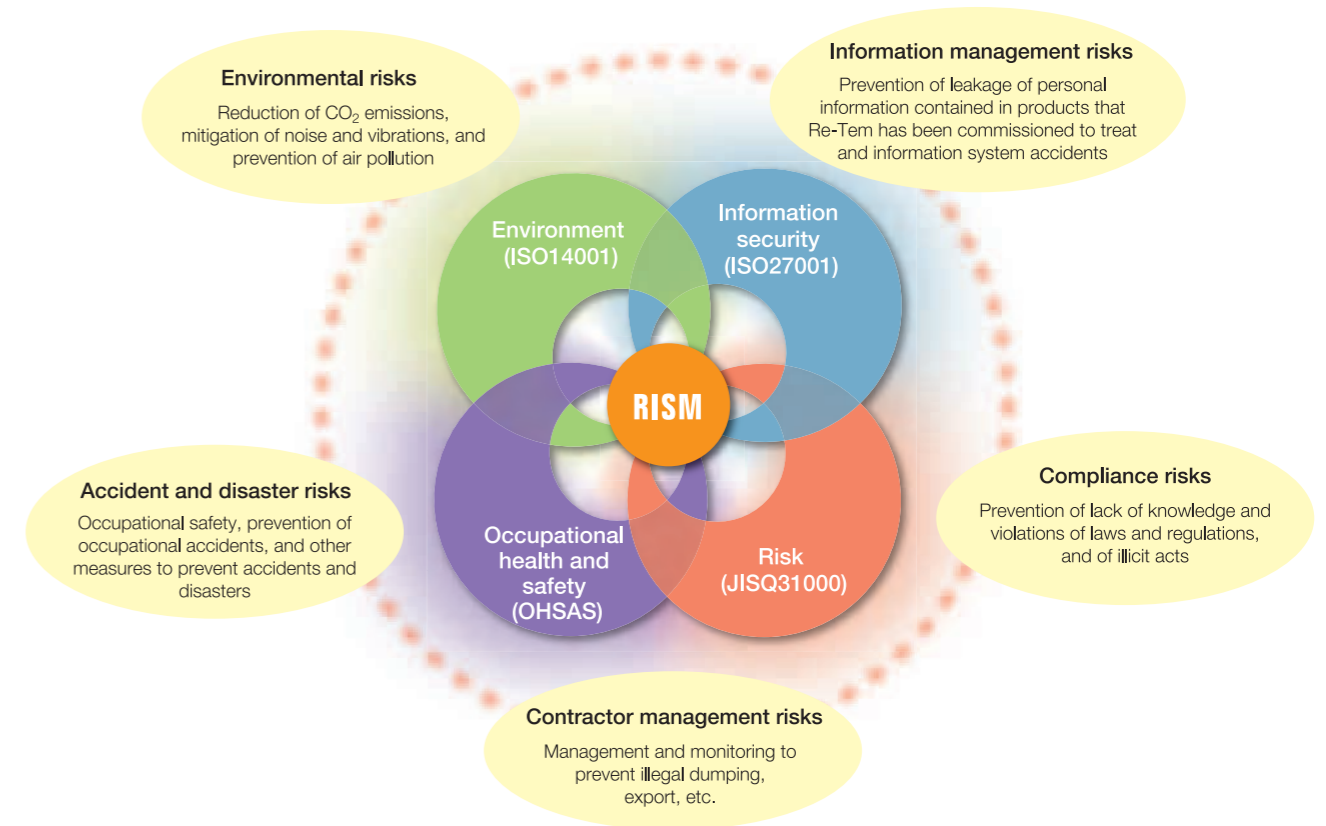
Toward optimization of customer risks

With efficacy of RISM, the integrated management system, Re-Tem offers responsible recycling service where customers place their trust.

Integration of four official standards under RISM* * Re-Tem Integrated System of Management

RISM is a management system integrating four sets of official standards in the areas of the environment, information, occupational safety, and risk in a single platform to enable their efficient operation. Under it, employees erect a scheme

for ongoing performance of the PDCA cycle. It is at the core of Re-Tem's activities not only for meeting customer needs but also for discharging its social responsibilities as a company dedicated to environmental preservation.



Re-Tem approaches based on official standards

Environment (ISO14001)

With an awareness of its responsibilities as an environmental preservation company, Re-Tem has determined voluntary management standards that are tougher than those in related official laws and regulations. In accordance with these standards, it is working for achievement of "zero emissions" recycling processes as well as reduction of CO₂ emissions and energy consumption through proper treatment and recycling of waste and resources.

Information management (ISO27001)

Information equipment accounts for a high proportion of the waste handled by Re-Tem, which makes every precaution to protect information security. To prevent leakage of customer information, it practices storage and data deletion, in line with strict standards.

Occupational health and safety (OHSAS)

The incidence of occupational accidents among waste treatment businesses remains higher than among other businesses. Besides preparing workplaces enabling employees to work with peace of mind, Re-Tem has been working to prevent any occupational accidents from delaying treatment behind the customer's schedule.

Risk (JISQ31000)

(guidelines based on the Japan Standards Association)

- Observing laws and regulations
Our Legal Affairs Department frequently holds in-house workshops for study of the complicated Waste Management and Public Cleansing Law. We aspire to proper treatment of waste by constantly enhancing knowledge about applicable laws and regulations and awareness as a waste treatment company.

- Audit of contractors, buyers, and collection/transportation partners
Misconduct by secondary contractors is considered the responsibility of waste generators. For this reason, we audit our contractors and buyers, in addition to collection/transportation partners.

Diverse activities in the environmental and social aspects

To discharge its corporate social responsibilities (CSR), Re-Tem continues to engage in diverse activities in the environmental and social aspects.



Environmental aspects

At its factories and head office, Re-Tem is tightening its activities of environmental preservation based on ISO14001. We have instated LCA analysis in order to calculate and reduce CO₂ emissions, with a view to preventing global warming. Besides participating in patrols for prevention of illegal dumping led by the Ibaraki Industrial Wastes Association, Re-Tem takes part in the Beach Cleanup in Jonanjima event held in Tokyo, every year.



Employees on patrol to prevent illegal dumping



Employees taking part in Beach Cleanup in Jonanjima



Social aspects

Besides holding tours of its factories for elementary and junior high school students, administrative authorities, and various other organizations and groups, Re-Tem actively accepts invitations for lectures at all sorts of research meetings and events. Our Mito Factory is also engaged in programs of collaborative work with welfare facilities and employs students of schools for the challenged. To create employee-friendly workplaces, we have also made provisions for childcare leave and shorter hours.



Mr. Akira Nakajima, Re-Tem President and C.E.O., speaking at Shinshu University



Students of a school for the challenged in Ibaraki Prefecture visiting Mito Factory

Recent topics

Tour of the Tokyo Factory by Emperor Akihito

In July 2008, His Majesty Emperor Akihito, who is deeply concerned about environmental issues, toured our Tokyo Factory in Tokyo Super Eco Town.



H.M. Emperor Akihito at our Tokyo Factory (July 2008)

Publication of our CSR Report

CSR reports had been annually published in booklet format for more than 10 years. Now our weblog "Eco Times" is providing hot topics of our business.



COMPANY OUTLINE

Company name:	Re-Tem Corporation
Representative:	President & C.E.O. Akira Nakajima
Location:	<ul style="list-style-type: none"> ■ Head Office 3-6-10, Soto Kanda, Chiyoda-ku, Tokyo, 101-0021 TEL: +81-3-3258-8586 FAX: +81-3-3251-5804 ■ Myojin Office Shinkanda Bldg., 7F 2-15-2 Sotokanda, Chiyoda-ku Tokyo, 101-0021 TEL: +81-3-5256-7041 FAX: +81-3-3251-5805 ■ Mito Factory 3520, Nagaoka, Ibaraki-machi, Higashi Ibaraki-gun, Ibaraki, 311-3116 TEL: +81-29-292-1220 FAX: +81-29-292-1225 ■ Tokyo Factory 3-2-9, Jonanjima, Ota-ku, Tokyo, 143-0002 TEL: +81-3-3790-2100 FAX: +81-3-3799-8500
Foundation:	1909
Incorporation:	1951
Capital:	100 million Japanese Yen
Content of business:	Recycling and reuse of resources / sale and purchase of materials for steel production and nonferrous precious metal materials / dismantling, moving, and collecting construction materials and work materials / consulting regarding resource circulation and recycling / resource management and eco-center management in eco-industrial parks, etc.
Authorized for:	Industrial waste management business, industrial waste collection and transport business, domestic waste management business, Class-1 Specified Fluorocarbons recovery business, general construction business, warehousing business, used product dealer, metal waste dealer

HISTORY

1909	Foundation	Established by the founder Shinjiro Nakajima in Mito to start resource recycling business
1951	Incorporation	Incorporated as Nakajima Shoten K.K.
1952	Advance into Tokyo	Set up Tokyo Branch in Soto Kanda, Chiyoda City
1970	Mito Factory	Moved the factory to Higashi Ibaraki-gun, Ibaraki Prefecture (current Mito Factory)
1993	Unique technology	Installed the high-performance specialty crushing machine Process I in the Mito Factory
1997	Company name change	Changed the company name to Re-Tem Corporation
	Head office relocation	Transferred the head office function to the Tokyo Branch
	Unique technology	Installed the high-performance fine grinding machine Process II in the Mito Factory
1998	J-RIC	Organized the regional recycling network (J-RIC)
2001	Environmental ISO	Obtained ISO14001 certification
	CSR	Started publishing the Environmental Report
2005	Tokyo Factory	Completed the Tokyo Factory at Jonanjima, Ota City (Tokyo Super Eco Town)
	Information ISO	Obtained ISMS (Information Security Management System) certification, which was converted into ISO27001 in 2006
2007	RISM	Started operation of RISM (Re-Tem Integrated System of Management)
2008	Beijing Corporation	Established Lizao (Beijing) Environmental Technology & Consulting Co., Ltd. in Beijing with Waseda Environmental Institute
	Imperial visit	His Majesty Emperor Akihito toured the Tokyo Factory
2010	Prime Minister visit	Prime Minister Yukio Hatoyama toured the Tokyo Factory
	Advance into China	Completed the Re-Tem China Factory in Taicang City, Jiangsu Province
2011	Beijing Corporation	Transformed the Beijing corporation into Re-Tem (Beijing) Environmental Technology & Consulting Co., Ltd.
	OHSAS	Obtained OHSAS18001 (Occupational Health and Safety Management System)
	U.S. Corporation	Established Re-Tem Global Eco Management Inc. in Seattle
2012	E-waste	Collecting and recycling tantalum capacitors line was set up in the Mito Factory
2013	Unique technology	Authorized as the "Legally certified company" based on Act on Promotion of Recycling of Small Waste Electrical and Electronic Equipment (Ministry of Economy and Industry, Ministry of Environment)

AWARDS

1996	Won the Chairman's Prize in the Clean Japan Center-sponsored FY1995 Award for Recycling Development Project et al
2000	Mito Factory was certified as Ibaraki Prefecture Excellent Recycling Business Firm
2004	Won the Award for Environmental Management Excellence in the 2nd Japan Environmental Business Awards
2007	Tokyo Factory won the Chicago Athenaeum's 2007 International Architecture Award
	Won the Award of the Director-General of the Industrial Science and Technology Policy and Environment Bureau, Ministry of Economy, Trade and Industry (METI) in the 4th LCA Society of Japan (JLCA) Awards
	Tokyo Factory was certified as Ota City Excellent Factory and won the Town-Friendly Award
2008	Won the Excellence Award for the Courageous Management Grand Prix, sponsored by the Tokyo Chamber of Commerce and Industry
	Won the Award for Promoting the Creation of Recycling-Based Society in the Minister of the Environment Award, promoted by the 3R Promotion Forum
2009	Won the Excellence Award for Environmental Contribution in the 1st Chiyoda City Business Grand Prix
2013	Won the "Rare Metal Recycling Prize" in the resource recycling technology/system award organized by Japan Environmental Management Association for Industry