

Strategies – Recycling

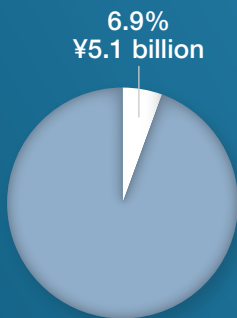
Use original technologies to contribute to society as the increasing speed of carbon-neutrality measures alters the business climate

The USS Group’s recycling activities are conducted mainly by ARBIZ, which recycles industrial waste, and SMART, which provides disposal services for equipment and industrial plants. Environmentally responsible business activities are essential for achieving sustained growth. The recycling businesses of the USS Group play a role in solving social issues by properly processing end-of-life vehicles to enable the reuse of many types of materials and resources.

ARBIZ Co., Ltd.
Director and
Operating Officer
SMART Co., Ltd.
President and
Representative Director,
Takuya Sano



Sales Composition



[Overview]

Patented Technologies

- ① ARBIZ has received a patent for a technology that allows combining light dust from vehicle shredding, which is difficult to reuse, with iron dust to create a material that can be reused. This material is used at blast furnace steel mills to prevent the scattering of molten iron particles. This technology reduces the volume of waste materials and allows materials to be reused as a resource.
- ② A joint academic-business sector venture created a patented technology for recycling bismuth telluride alloys and other materials in thermoelectric conversion devices.

Innovative Technologies No Company Can Match

Only ARBIZ is capable of making an energy-conserving material fabricated by mixing thermoset resins that cannot be used with aluminum slag and using a hardening process. This material is used by electric arc furnace steelmakers to raise the furnace temperature and obtain the desired composition of slag. Less electricity is needed to melt steel for recycling.

SWOT Analysis

Strength	<p>〈ARBIZ〉</p> <ul style="list-style-type: none"> ● An exclusive recycling technology (patented) ● The largest recycling yard in the Nagoya area and an ideal location for recycling operations ● Equipment and technologies capable of handling many types of waste materials <p>〈SMART〉</p> <ul style="list-style-type: none"> ● Collaboration with the Sumitomo Mitsui Group for cost cutting, more sources of information and reuse channels, and better proposals for recycling and reuse 	Weakness	<p>〈ARBIZ〉</p> <ul style="list-style-type: none"> ● Difficulty of retaining people and passing on know-how to younger people because of Japan’s labor shortage <p>〈SMART〉</p> <ul style="list-style-type: none"> ● Inadequate number of employees as the volume of business operations increases
Opportunity	<p>〈ARBIZ〉</p> <ul style="list-style-type: none"> ● Started a recycling business for manufacturers ● Reuse of waste plastics <p>〈SMART〉</p> <ul style="list-style-type: none"> ● Aging of structures during Japan’s many years of rapid economic growth ● Growth of investments in the manufacturing and energy sectors <p>〈ARTIZ/SMART〉</p> <ul style="list-style-type: none"> ● Reexamining the recycling business to contribute to achieving carbon neutrality 	Threat	<p>〈ARBIZ〉</p> <ul style="list-style-type: none"> ● Difficult to differentiate services in a highly competitive market ● Not a significant presence in Japan’s recycling industry <p>〈SMART〉</p> <ul style="list-style-type: none"> ● Emergence of other companies with similar business models

Strategies

■ Help solve social issues as part of the USS Group’s business operations

- Use joint activities with manufacturers starting recycling operations to target opportunities for utilizing exclusive technologies.
- Establish a model for recycling.

(Reference) ARBIZ received a contract from the New Energy and Industrial Technology Development Organization (NEDO) to build a system in Thailand for recycling used electronic devices and products.

NEDO plans to use this accomplishment to work with ARBIZ for establishing a recycling model for resources in other Asian countries.