KANAGAWA Smart Energy Initiative
Shaping the Future Today
In the company introductions, the numbers listed next to “Available in” and “Target market” correspond to the items listed below.

1: Establishment of manufacturing bases
2: Manufacturing and processing contracts with local companies
3: Technological partnerships with local companies
4: Establishment of research and development bases
5: Establishment of sales bases (including distribution contracts)
6: Exports (including exports through domestic trading companies)
7: Imports
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KANAGAWA Smart Energy Initiative

Kanagawa Prefecture is located within the Tokyo metropolitan region, which accounts for 33% of Japan’s population and 37% of its economy. Kanagawa Prefecture is an attractive area that is continuing to grow thanks to industries with sophisticated technological capabilities and an abundant industrial work force.

Numerous companies in the new energy sector that possess sophisticated technology are clustered here in Kanagawa Prefecture.

Three organizations, namely, the prefectural government, the Kanagawa Industrial Promotion Center, and the Japan External Trade Organization (JETRO) Yokohama Trade Information Center, have joined together to introduce companies from among these new energy sector firms that are particularly interested in doing business or expanding overseas and have been recommended by local governments or business organizations.

This pamphlet was published with the goal of widely publicizing these companies’ excellent products in an effort to produce new business opportunities and to thereby stimulate Kanagawa Prefecture’s industries and economy.

Introduction to Kanagawa Prefecture

Kanagawa Prefecture is located next to Tokyo. Access to the area is excellent because of its proximity to Tokyo International Airport—commonly known as Haneda Airport—as well as the Tokaido Shinkansen Line and Tomei Expressway, which both run through Kanagawa Prefecture and connect Tokyo and Osaka.

Foreign-Affiliated Firms Located in Kanagawa Prefecture

There are 267 foreign firms headquartered in Kanagawa Prefecture. However, if plants and sales offices are included, the number of foreign-affiliated firms located here actually comes to 421. Based on the number of company headquarters, the prefecture boasts a concentration second only to Tokyo.
Excellent Transportation Environment

Kanagawa Prefecture is close to Haneda Airport, which expanded its international service in 2010 and offers excellent access to major cities worldwide, making Kanagawa a perfect location for globally active companies. Kanagawa’s convenient rail network makes it possible to travel rapidly between Haneda Airport and cities in the prefecture. For example, you can reach Haneda Airport within thirty minutes from both of Kanagawa’s main rail stations, Yokohama and Kawasaki, which is less time than it takes to get to Haneda from Tokyo Station.
Kanagawa Smart Energy Concept

The Kanagawa Prefectural Government is promoting the "Kanagawa Smart Energy Concept" to compensate for the shortage of electricity caused by the nuclear power plant accident and to ensure a stable supply of safe and secure energy in the future.

Based on this concept, we are promoting “energy creation,” which is the expansion of the electricity supply through the encouragement of the introduction of renewable energy sources, such as solar power. We are also aiming for “energy saving,” that is, to cut electricity use during peak times, and for “energy storage,” which is the shifting of peak electricity demand. With these goals, we are taking a comprehensive approach to the energy supply.

Background

Mid- and long-term comprehensive energy policies are necessary to cope with the electricity shortage caused by the accident at the Fukushima Daiichi Nuclear Power Station and to ensure a safe and secure energy supply in the future.

Three Principles

- Do not depend excessively on nuclear power generation
- Be environmentally friendly
- Promote local production of energy for local consumption

Shift from an energy system centered on electric power companies to a distributed energy system centered on communities

Three Efforts

Three campaigns

- **Energy creation**
  Promoting the adoption of renewable energy sources, primarily solar power generation

- **Energy saving**
  Promoting reduction of use during peak hours to reduce electric power consumption volume

- **Energy storage**
  Promoting power peak shifts for efficient use of stored electric power

Promoting adoption of solar power generation (Installations through the Kanagawa Solar Banking System’s fund for private residents, among other methods)

- Promoting energy conservation schemes at factories and businesses
- Promoting household energy conservation measures
- Promoting adoption of stationary batteries
- Promoting adoption of electric vehicles
Efforts target

By 2020, we are aiming to increase the results of our “Create Energy” and “Save Energy” projects by more than 20% by combining them with the results of our “Store Energy” project.

The above diagram is not meant to show that the amount of electric power produced in the prefecture is all directly consumed there. Further, the term “energy creation” includes power generated by pumped-storage hydroelectric plants and from waste power generation along with renewable energy sources.

Examples of Implementation within Kanagawa Prefecture

- **Water power generation**
  - Shiroyama Power Plant (Sagamihara)

- **Biomass power generation**
  - Kawasaki Biomass Power Plant (Kawasaki)

- **Solar power generation**
  - Showa Shell Sekiyu (Atsugi)

- **Wind power generation**
  - Hama Wing (Yokohama)
Energy creation –Solar Project–

Kanagawa Solar Bank system

Collaborating with enterprises, we have organized the “Kanagawa Solar Bank system” through which citizens can easily afford to install home solar PV power generation systems at a reasonable price.

Subsidies for Home Solar PV

■ Subsidy for single homes (FY 2009 onward)

Cooperating with all the municipalities in Kanagawa, Kanagawa Prefectural Government has installed a subsidy scheme for single houses.

FY 2012 We have a budget for 24,000 single houses. (¥1,128 million)

■ Subsidy for apartment homes and condominiums (FY 2011 onward)

FY 2012 We have a budget for 1,500 condominiums. (¥135 million)
Introduction of “Yane gashi” system

We have started a new project called the “Yane gashi” system to promote solar PV generation using roofs of factories and offices etc. (At the present, we are inviting enterprises to participate.)

Project for Technical Subcommittee on Clean Energy

Promotion of an Energy Management System for Small and Middle Sized Factories (2012 to 2014)

- Photovoltaic cells
  - Improvement of PV cell efficiency
  - Use of solar thermal energy

- Power conditioners
  - Construction of energy management system

- Power supply for machine tools etc.

- Electric vehicles

- Small & middle sized factories

- Rechargeable batteries
  - Cost reduction & safety improvement for rechargeable batteries

Testing of a smart energy management system will be carried at actual factories starting in the summer of 2013.
## Paltek Corporation

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### Featured products, technologies, and services

**Sales of highly efficient bifacial PV modules**
- Capturing diffused and reflected light with the back surface effectively increases power generation volume and cuts power generation costs.
- Modules can be installed vertically, enabling installation on the walls of buildings and other locations where installation had previously been difficult and significantly cutting the amount of space needed for installation.
- For vertical installations, the amount of power generated annually does not depend on the direction in which the modules are installed, and is for the most part fixed.
- The modules have excellent designs that are perfectly suited to building-integrated photovoltaics (BIPV) in translucent ceilings, curtain walls, and other applications.

**Sales of batteries and generators**
- For supplying energy to necessary equipment during power outages for long periods of time with no interruption.
- Charging and discharging schedules can be set with an internal timer to handle peak shifting and thereby save power.

### Batteries and generators

- **For supplying energy to necessary equipment during power outages for long periods of time with no interruption**
- Charging and discharging schedules can be set with an internal timer to handle peak shifting and thereby save power.

**Model-based design of energy device development environments and provision of technical consulting**

**Highly efficient bifacial PV modules**

**ZEM-5 series Seebeck coefficient and electric resistance measuring system**

## Ulvac-Riko, Inc.

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http://www.ulvac-riko.co.jp

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### Featured products, technologies, and services

**Our company uses its all-around heat-related expertise to contribute to worldwide manufacturing activities and advances in science and technology with our leading heating and thermal analysis equipment lines. In response to interests in new energy sources, we have placed a priority on developing equipment for analyzing thermoelectric materials that enable waste heat to be converted into energy. We have also developed a new portable, compact power generation system. This system is an electric generator that uses thermal expansion, or the temperature difference between hot and cold water, and can generate three kilowatt class power. There are great expectations for this product, which uses small amounts of the low temperature waste heat that has been greatly wasted up until this point in existing large electric generators, which require large amounts of waste heat and operate in high temperature ranges.**
PVG Solutions Inc.

In July 2011, the world's leading demonstration line, Saijo Factory, commenced operations. It manufactures state-of-the-art, bifacial solar cells called “EarthON.” These solar cells are some of the most efficient in the world. EarthON cells have large areas of 156 mm sq. and high efficiencies of 19.5% on the front side and 19.0% on the rear side. They also have excellent bifaciality, meaning that the rear side generates power close to that of the front side. EarthON cells are the only cells available in the market that have all 3 of these features.

Using modules with bifacial cells increases opportunities to install solar modules. With their excellent bifaciality, EarthON cells have the potential to gain up to 1.4 times more power from a single module, meaning that more power can be achieved and power generating costs will be reduced. EarthON cells can be used in conventional applications and can generate more power from the reflected or diffused light from the rear side. They can also be vertically installed, like fences. This is a new application that effectively takes advantage of the bifacial feature. A vertically installed bifacial module can generate as much power as a slanted installation, regardless of the direction the module is facing.

The Saijo Factory has over 35 MW of production capacity. Not only does the factory manufacture and supply cells, it also plays a role as a mother factory—the mass production technology brushed up at Saijo is applied to newly born factories. We can share our production technology, which has been tested by mass production, with anybody who is interested in adopting it.

IA Corporation

Our company’s Bio U.S.S. Oil biofuel is a new product made from waste cooking oil that is collected from ordinary households and restaurants, refined to remove the by-products of oxidative degeneration, blended with kerosene in a 50:50 ratio, and completely broken down and dissolved using ultrasonic irradiation. Characteristics:

1. It displays the same physiochemical characteristics as kerosene and diesel fuel, with nearly the same calorific value and less than 10 ppm sulfur content.
2. The Japanese government has approved it as a fuel for green electric power generation, and it is an energy source that does not burden the environment.

Recycled fuel created with ultrasonic waves and bubbles
**Energy creation sector**

**Keisoku Giken Co., Ltd.**

Available in: Asia (3, 5, 6, 7); China (5, 6, 7);
Target market: North America (5, 6, 7); Europe (5, 6)

*Featured products, technologies, and services*

The NT series modular bi-directional power supply system consists of a system controller that is equipped with networking capabilities and AC/DC or DC/DC converter units that can be added on in two-kilowatt increments. The system is suited for a variety of power generation and storage devices, such as solar cells and stationary lithium batteries, and it makes it possible to build systems with a high degree of freedom, because electric power conversion is accomplished by means of a high voltage, 350 to 400 VDC bus. In addition to the NT series, we also sell electronic load devices, LED emulators that are perfect for testing LED power supplies, and battery emulators that have a fine track record in battery ECU testing.

**Taiyo Denon Corporation**

Available in: Asia (6)
Target market: Asia (6); China (6); North America (6); Europe (6); Other region (6)

*Featured products, technologies, and services*

- Highly efficient TYG880 and TYG3000 microgenerators
- Powerful neodymium is used in the magnets. Three-phase generators that cancel out the magnetic attractive force are disposed in a two-tiered structure that obtains six-phase output. This eliminates cogging torque and leads to high output and highly efficient power generation from light winds.
- The Wintex-880A wind power generator contains a highly efficient microgenerator for power generation even in light winds (wind speed of 1.5 meters).
- Our human power generator houses a highly efficient microgenerator that enables light load power generation for long periods.
- Our charge controller efficiently charges batteries with energy generated by wind and hydro power.
**Fukushima Electronics Co., Ltd.**

**Available in:** China (1, 2, 5, 6, 7), Asia (6), North America (6), Europe (6)

**Target market:** Asia (6), China (6), North America (6), Europe (6)

**Featured products, technologies, and services**

① We provide peripherals and systems for energy solutions that blend energy production, conservation, and storage while regulating electric and other energy supplies for factories, offices, schools, and stores.

② Main products: Solar cell charge and discharge controllers, full range of storage systems, solar power generation and charging learning systems, utility interactive inverters, AC modules, solar array simulators, ZigBee temperature sensor systems, full range of ZigBee wireless interface modules, full range of contract products

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  - Tel: +81-44-522-4511
  - Fax: +81-44-511-5503
  - E-mail: yumoto@fukushima-ele.co.jp

**Featured products, technologies, and services**

- SPC-003 solar panel charge and discharge controller
- SPL-31 solar power generation and charging learning system
- Portable solar power generation unit

**Nagatsu Precision Mold Co., Ltd.**

**Available in:** China (1, 2, 5, 6, 7), Asia (6), North America (6), Europe (6)

**Target market:** Asia (6), China (6), North America (6), Europe (6)

**Featured products, technologies, and services**

Solar power generation is used as a form of natural energy, and how to boost the sunlight conversion efficiency of the solar panels that generate solar power has become a big issue. One way to solve this issue is to use a Fresnel lens to concentrate sunlight and irradiate solar cells uniformly. We developed a product in the form of a Fresnel lens with glass containing silicon because solar panels installed outdoors need to be highly resistant to heat and weather conditions and need to maintain stable optical characteristics even when the environment changes.

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Gantan Beauty Industry Co., Ltd.

Available in: Asia (6); Other region (6)
Target market: Asia (1, 5, 7); China (2); North America (3); Other region (3)

Featured products, technologies, and services

Metal roofing materials
We are known for our technology at Gantan and have a record of fine performance in the 47 years from the time of our company's founding. An industry leader in horizontal, vertical, and panel roofing, with excellent designs and performance, we have received high ratings for public facility installations.

Solar panels and related materials
Thinking that energy could be supplied from roofs in new forms, we began developing integrated solar panel roofing systems in 1989. We began selling Sun Both bifacial solar panels this year, continuing to fuse environmental technologies with roofing materials.

Waterproofing construction techniques
Gantan steel waterproof roofs, which fuse polyvinyl chloride waterproofing sheets with sheet metal roofing, are our latest technology. We have also developed waterproofing techniques for Gantan sun roofs and are opening up new markets.

Gritex International Limited

Available in:
Target market: Asia (1, 2, 5, 6); North America (1, 2, 5, 6); Europe (5, 6)

Featured products, technologies, and services

Our solar tracking power generation system has a high-sensitivity sunlight tracking sensor that has a wide angle of view and eliminates the need for settings such as the installation location, date, and time. Precise alignment is not required for system installation. Covering a 270° area with its horizontal rotation angle and 50° with its vertical angle of incidence, the system has substantial power generating capacity. The drive unit is compact, consumes very little power, and can withstand strong winds. Installation costs are lower than those of conventional models.

Uses
1. Highly efficient power generation with solar tracking power generation panels
2. Can be used for various purposes, including sunlight collection and lighting devices.

Tracking sensor
**Tanaka Hydropower Co., Ltd.**

Available in: Asia (2, 3, 6, 7); China (2, 6, 7); North America (6); Europe (6)

**Target market:** Asia (2, 6, 7); China (2, 6, 7); North America (6); Europe (6)

**Featured products, technologies, and services**

We are the Japanese market leader in the design and implementation of mini and micro hydroelectric systems. We support all major types of turbines and generators as well as our patented Inline Linkless Francis Turbine, which is a low-cost Francis turbine designed specifically for sites with limited installation space. We are also in the midst of deploying a number of pico hydropower solutions (<5 kW), such as our Eco-Hydro Unit.

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**Kyoritsu Co., Ltd.**

Available in: Asia (3, 5, 6); China (6)

**Target market:** Asia (1, 2, 3, 4, 5, 6); China (3, 5, 6); Europe (2, 3, 5, 6)

**Featured products, technologies, and services**

**Food Waste Power Generation System**

Our power generation system separates resources from a mixture of one ton per hour of food waste with around 85% water content and eight cubic meters of wood with 55% water content and efficiently carbonizes them. First, useful resources are sorted in the crusher and separator. Those are then dried in the drier and carbonized in the carbonization furnace. Charcoal is used for fuel and soil improvement. Gases and waste heat generated during carbonization are used to produce steam in a waste heat boiler and power is generated using a steam turbine generator. Processing volumes are adjustable. The system has 132 kWh of generating capacity in this case and is able to furnish electric power to around 100 homes.
Energy creation sector

QRS Co., Ltd.

Available in: Asia (2, 3)
Target market: Asia (2, 3)

- **Featured products, technologies, and services**

Our firm is a services company in the business field of distributed energy resource systems and cogeneration. We provide technical support for energy management and other areas.

1. Description of technology and products
   i. Consulting on devising and operating distributed energy resource systems, including cogeneration systems
   ii. Simulations that take conditions such as unreliable supplies of primary energy resources into consideration
   iii. Remote distributed power generation system (primarily gas or diesel engines) services over the Internet (now under development in Japan)

2. Special features (elements of superiority and differentiation)
   i. Track record of 25 years of designing and operating cogeneration systems
   ii. Able to handle generator control sequencer program analysis and upgrades, regardless of manufacturer

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Energy saving sector

Honda Sangyo Co., Ltd

Available in: Asia (5, 6, 7); China (5, 6); North America (6, 7); Europe (7); Other region (6)
Target market: Asia (5, 6); Other region (5, 6)

- **Featured products, technologies, and services**

- **Company Summary**
  We produce PTFE fabrics and belts. Our products can be used for solar cell module laminators and the transportation of solar cells.

- **Strength**
  We deliver high-quality products with a short delivery time. We produce special products for solar cell module laminators and the transportation of solar cells.
Sanko Name Co., Ltd

Available in: Asia (6); China (6); North America (6); Europe (6); Other region (6)
Target market: Asia (6); China (6); North America (6); Europe (6); Other region (6)

**Featured products, technologies, and services**

Because of their high degree of transparency, our transparent film heaters are used to boost the dynamic behavior and reactivity of liquid crystals, to prevent condensation on surveillance cameras, and in various products that require transparency and heating or maintaining a heated state, such as, for example, testing equipment for medical care products. Because the entire surface of the transparent portion heats up, the film is characterized by fine thermal efficiency and excellent responsiveness. a role as a mother factory—the mass production technology brushed up at Saijo is applied to newly born factories. We can share our production technology, which has been tested by mass production, with anybody who is interested in adopting it.

![Photo of transparent film heater](image)

Shimadakogyo Engineering Works Co., Ltd.

Available in: Asia (3, 5, 6); North America (3, 5, 6); Europe (3, 5, 6); Other region (3, 5, 6)

**Featured products, technologies, and services**

Having a water-based fluorine resin as the topcoat, Ecology “e” Thermo-Shield is a coating method that provides an excellent heat shield and heat insulation, equivalent to a 100 millimeter thick glass wool heat insulator. The effect of this technology will reduce the temperature of a roof surface by 40 degrees Celsius, that of an attic by 20 degrees Celsius, and that of an indoor air environment by 4 to 5 degrees Celsius. Thus, air conditioning can be turned off, and this reduction of power consumption will significantly help save energy and reduce carbon dioxide emission.

![Photo of Ecology “e” Thermo-Shield](image)
**Nihon Genryo Co., Ltd.**

Available in: Asia (5); North America (7); Europe (5, 7)
Target market: Asia (5, 6); North America (5); Europe (5)

**Featured products, technologies, and services**

Nihon Genryo has been a manufacturer of filter media for water treatment since 1939. Our filter media has been used in more than 80% of the water purification plants in Japan. Based on this know-how, we have developed a cutting-edge sand-washing method. This washing technology makes it possible for dirty sand to be reborn as raw sand. Our “SAITO TANK series” combines basic sand filtration with self-cleaning technology. Filter media is always cleaned solely by physical action, without the use of chemicals, and media replacement is unnecessary. Our products protect natural resources, reduce electricity use and backwash water volume, come in a wide range of types, enable onsite setting, can be mobile/track mounted, and can be used externally. We supply Eco-friendly and cutting edge filtration systems to the world.

**Soushow Co., Ltd.**

Available in: China (5)
Target market: Asia (5, 6, 7); China (5, 6, 7)

**Featured products, technologies, and services**

Highly functional X-3 thermal insulation film for buildings and cars

Product overview
The film keeps heat from entering in the summer and escaping in the winter because it substantially cuts infrared and ultraviolet rays. It has attracted attention as an energy conserving product and there have been many examples of usage in Japan. Further, it is much more transparent and has overwhelmingly higher heat blocking capabilities than other thermal insulation films, placing it in the highest class of films.
iForcom Co., Ltd.

Available in: Asia (3, 5, 6, 7); China (3, 5, 6, 7); Europe (3, 5, 6, 7)

Energy saving sector

Forcom 21, a real-time electric power monitoring system and consulting service for operational improvements, has reductions in electric power costs as its goal. Emphasizing cost benefits, its goal is to endeavor to recoup an investment within one year. Adopted by more than 2,000 businesses, Ecopro 21 has resulted in an average of over 10% in power cost reductions.

Regal Joint Co., Ltd.

Available in: Asia (2, 5, 6); China (7)

Energy saving sector

Our heat exchange equipment employs highly efficient SC and SCF heat transfer tubes that distinguish the equipment from conventional heat exchange equipment by making it possible to place high temperature fluids inside the tubes and low temperature fluids in the shell, turning the heat exchange equipment into a heat recovery device. The devices also help the environment because capturing and reusing heat discharged by factories, apparatuses, and equipment as hot water conserves energy and also curbs emissions that would be expelled into the atmosphere. Highly efficient recovery and implementation of emissions countermeasures are possible particularly when latent heat recovery models for gases, air, and steam exhaust with high water content are incorporated in heat exchange equipment.
Nix, Inc.

Available in: Asia (5, 6); China (1, 5, 6, 7); North America (5, 6); Europe (6)
Target market: Asia (1, 2, 4, 5, 6); China (2, 4, 6, 7); North America (6); Europe (6); Other region (6)

Featured products, technologies, and services
Product: Pest repellent plastic
Technology: The patented technology causes ingredients that bugs dislike to gradually ooze from the plastic’s interior to exterior.
Running costs are not incurred because active ingredient seepage takes place naturally, in ordinary environments, and does not require electricity, pressure, or other forms of energy.
Overview: Ambulatory pests that touch our products can be repelled for a span of up to five years. Bugs cause problems in every type of industry all over the Earth. There was no way to prevent them from getting in up to now and large amounts of insecticides have been used to kill bugs. However, there are many problems with killing bugs with pesticides, such as environmental pollution, harm to the food chain, dead bugs scattered about, and the need to re-spray over and over when chemicals are blown or washed away by wind or rain. These problems do not occur with our products, which make it possible to separate the places where pests live from places people do not want them to approach. Not only are the active ingredients highly safe, there is no need for concern over absorption, mixing, or pollution of the surrounding area, because the ingredients do not vaporize easily.
Track record: Sold at hardware stores in Japan, contained in appliances, placed in food product factory entrances, and placed in doorways and windows of ordinary residences.

Hosoya & Co., Ltd.

Available in: Asia (5, 6); China (6); North America (6, 7); Europe (5, 6, 7)
Target market: Asia (2); North America (5); Europe (2); Other region (2, 5, 6)

Featured products, technologies, and services
Hosoya Fermentation System produces high quality organic fertilizer from poultry and pig manure without adding any filter material. The system is based on a pure fermentation and drying process. Advantages of the system: (1) high quality organic fertilizer production in the short term, (2) reduced pollution, and (3) easy operation.
Dymco, Ltd.

Available in: Asia (5, 6, 7); China (1, 5, 6, 7); North America (6, 7); Europe (5, 6); Other region (6)
Target market: Asia (2, 5, 6, 7); China (1, 2, 5, 6, 7); North America (5, 6); Europe (3, 5, 6); Other region (5, 6)

Featured products, technologies, and services
Our company’s steel belts are important functional components for new energy sector manufacturing equipment. They are used as automatic stringer soldering line bands that handle the task of turning silicon wafers into solar cell modules and as the saws that cut silicon ingots. They are used to form separators, such as films and sheets, during the process of painting electrode materials with active materials when manufacturing rechargeable batteries. This is because the smoothness, hardness, and heat resistance of the metal belts make continuous processing possible. Dymco has the perfect manufacturing technology solutions for the choice of materials, facing, precision welding, and surface treating for belt functions in all kinds of manufacturing equipment.

Double press steel belts for laminating battery materials

Baysun Co., Ltd.

Available in: Asia (2, 3, 7)
Target market: Asia (2, 3, 5, 6, 7); China (2, 3, 5, 6, 7); North America (2, 3, 5, 6, 7); Europe (2, 3, 5, 6, 7); Other region (2, 3, 5, 6, 7)

Featured products, technologies, and services
We design and manufacture battery assemblies using well-known Japanese and Korean manufacturers’ rechargeable lithium-ion batteries, build reusable energy battery systems to replace lead batteries, and build HEMS, BEMS, FEMS, and CEMS. Further, we provide Japanese-quality total solutions for rechargeable lithium-ion batteries, including the control circuitry for the batteries themselves (battery management system development).

Battery system modules and products for battery system applications
Showa Precision Tools Co., Ltd

Available in: Asia (1, 2, 5, 6, 7); China (6); North America (6); Europe (3, 5, 6); Other region (6)
Target market: China (2, 3, 5, 7); North America (7)

Featured products, technologies, and services
We handle our customers’ requests with presses and conveyors and other manufacturing facilities and design and manufacture ultra-precision dies for electrodes and cases for the lithium-ion batteries used in consumer sector cars and personal computers. Orders for our fuel cell dies are also increasing thanks to our high-precision manufacturing technology and quality guarantee. Please feel free to contact us if you are having difficulties in the areas of development, testing, or manufacturing technology.

Device that opens holes with a pitch of 0.8 µm and a diameter of 0.4 µm in electrode foil for rechargeable batteries

KM Laboratory CO., LTD

Available in:
Target market: Asia (1, 2, 3, 4, 5, 6); China (1, 4, 6); North America (1, 3, 4, 5, 6); Europe (3, 4)

Featured products, technologies, and services
We engage in the research and development of various electrodes for fundamental research of fuel cells, batteries, and other topics in the field of electrochemistry. Our laboratory also provides consultation for customers that are going to start up research projects and for veteran researchers.

Reversible hydrogen electrode (RHE) and Electrolysis-reversible hydrogen electrode (E-RHE)
Ibridacell Co., Ltd.

Available in: North America (6); Europe (6)
Target market: Asia (1, 2, 5, 7); North America (1, 2, 5, 7); Europe (1, 2, 5, 7)

Featured products, technologies, and services
Technology used in MotoGP and F1, the pinnacles of global racing, has been heavily incorporated in these lightweight 12- and 48-volt batteries, which are compatible with lead batteries. Further, lithium-ion and nickel-metal hydride battery cells are used in these batteries.

Thinking that more people would be able to feel safe manufacturing and selling rechargeable lithium-ion batteries as general-use products if rechargeable lithium-ion batteries could be widely and generally used for lead battery charge and discharge circuits, we at Ibridacell have worked to develop, manufacture, and sell batteries that are compatible with lead batteries.

Saima Corporation

Available in: Asia (5, 6, 7); China (2, 3, 5, 6, 7); North America (5, 6, 7); Europe (5, 6, 7); Other region (6)
Target market:

Featured products, technologies, and services
Company Summary
TRF (Tamper Resistant Fastener)

Strength
Saima Corporation has exported many kinds of fasteners to North America, Europe, and Asia in small quantities for over 10 years. Our main products, TRF (Tamper Resistant Fasteners), are used in various places to prevent tampering with or theft of fasteners. You can see TRFs at airports and on trains, surveillance cameras, banner frames, fare adjustment machines, and vending machines. Recently, our no-recess TRF has been used for solar panels.

Please visit our website! www.saima.co.jp/ENGLISH
Japanese Super-conductivity Organization Co., Ltd

Available in: China (3)
Target market: Asia (3); China (2); North America (3); Europe (3)

Featured products, technologies, and services

JSO is the world’s only superconducting equipment manufacturer. Individual apparatuses that employ superconducting technology to analyze the Earth, recycle rare metals, eliminate harmful substances, and store electric power have given birth to new industries. We are striving to bring about a low-carbon, sustainable society through programs that relate to superconducting technology and include developing, designing, manufacturing, evaluating, and selling devices and equipment that employ superconducting technology; consulting; subcontracted research and development; joint research and training of technicians with public agencies and private sector companies; and programs to combine equipment and devices.

Superconducting magnetic separator, superconducting earthquake simulator
KANAGAWA Smart Energy Initiative
Kanagawa Prefectural Government

International Business Group
Investment Promotion Division
Industry Department
Commerce, Industry and Labor Bureau
Kanagawa Prefectural Government
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