

# 2011 Environmental & Social Report

## 环境・社会报告书



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## Regarding the preparation of this report

This Environmental & Social Report, part of our commitment to keeping our various stakeholders informed, introduces in a clear and understandable manner the efforts of the GS Yuasa Group to implement sustainable business initiatives. We present this report for the purpose of soliciting the opinions of the public, and we intend to reflect the intent of these opinions in our management initiatives.

In compiling this report, we have followed the 2007 edition of the Environmental Reporting Guidelines issued by the Ministry of the Environment of Japan. We have prepared this report in print form in addition to posting digital versions on our website.

## Publication and requests for information

### Publication

July 2011 (next publication planned for July 2012)

### Production department / requests for information

GS Yuasa International Ltd., Environmental Management Division  
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Website <http://www.gs-yuasa.com/us>

## Reporting information

### Organizations covered in this report

This report presents information focused on the following four domestic offices.

Office	Date of ISO 14001 certification (certification number)	Primary business activities (Scope of ISO 14001 certification)
Kyoto office	December 24, 1997 (EC97J1151)	Research, development, design, manufacture and sales of storage batteries, power supply system, lighting equipment and other products
Osadano office	June 12, 1998 (JQA-EM0173)	The manufacture of automotive lead-acid batteries and industrial batteries; the research and development, manufacture and sales of automotive and industrial lithium ion batteries; the development and manufacture of battery production facilities; and the design / development, manufacture and sales of membranes, filtration systems and separators
Odawara office	November 27, 2009 (JQA-EM6438)	The manufacture of lead-acid batteries for automotive use and industrial use; and the design / development and manufacture of alkaline storage batteries for industrial use and vehicle use
Gunma office	December 25, 1998 (EC98J1133)	Development and manufacture of lead-acid batteries

### Business activities covered by this report

The focus of this report is the product life cycle (including development & design, procurement, production, physical distribution & sales, use and collection of products).

### Period of report coverage

April 1, 2010-March 31, 2011  
(Some of the data, however, predates March 31, 2010.)

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## 关于本报告书的编辑

本报告书的编辑力求通俗易懂地向广大利益相关方报告杰士汤浅集团为建设可持续性发展社会所做的努力，并得到社会的广泛评价，以反馈在企业经营情况上。

另外，编辑本报告书时谨以日本环境省发行的《环境

报告书指南（2007年度版）》作为参考。同时，本集团的环境·社会报告书每年除以出版物的形式发布外，还刊登在本公司的网站上以备查阅。

## 发行时间和咨询处

### 发行时间

2011年7月（下次发行时间预计在2012年7月）

### 制作部门、咨询处

株式会社 杰士汤浅国际 环境统括部  
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网址：<http://www.gs-yuasa.com/us>

## 报告涵盖信息

### 报告涵盖的组织

本次报告以日本国内4家事业所为核心进行。

事业所	取得ISO14001认证日期 (注册号)	主要事业活动 (ISO14001注册活动范围)
京都事业所	1997年12月24日 (EC97J1151)	各种蓄电池、电源系统、照明器材以及其他电气机器的研究、开发、设计、制造和销售
长田野事业所	1998年6月12日 (JQA-EM0173)	汽车用铅蓄电池以及产业用电池的制造；汽车用以及产业用锂离子电池的研究与开发、制造和销售；电池生产设备的开发和制造；过滤膜和过滤系统以及分离器的设计、开发和制造、销售
小田原事业所	2009年11月27日 (JQA-EM6438)	汽车用和产业用铅蓄电池的制造以及产业用、车辆用碱蓄电池的设计、开发和制造
群马事业所	1998年12月25日 (EC98J1133)	铅蓄电池的开发和制造

### 报告涵盖的企业活动

围绕对象组织在产品生命周期（开发·设计、采购、生产、物流、销售、使用、回收）方面的活动进行报告。

### 报告涵盖的时间

2010年4月1日—2011年3月31日  
(但是，部分数据包含2010年3月以前的信息。)

# The GS Yuasa Group is contributing to the emergence of a sustainable society by providing innovative products and technologies while introducing more effective environmental management.

We are pleased to present to the reader the 2011 edition of our Environmental & Social Report.

In the wake of the Great East Japan Earthquake and Tsunami, we express our deepest condolences to all who suffered terrible losses in this tragedy. This unforgettable and extraordinary catastrophe ranks with the Great Kanto Earthquake and the Great Hanshin-Awaji Earthquake as among the worst natural disasters in Japan's modern history. The major lesson we can learn from this disaster is that there are limits to assumptions based on finite human knowledge, and that it is our destiny to deal with the results of our incomplete assumptions about the power of nature. Clearly, in addition to taking steps to live in harmony with the natural environment, we must also address the issue of determining what humanity should do to secure our energy future and ensure the survival of civilization, as it is not an exaggeration to say that our modern way of life itself has come into question. We have no option but to solve this difficult equation, and we must provide an answer to the victims and others who have been affected by this earthquake. At the GS Yuasa Group, we intend to contribute to the earliest possible recovery from this disaster by ensuring all our employees work together toward this objective.

In recent years, environmental issues have become more diverse. At the tenth meeting of the Conference of the Parties to the Convention on Biological Diversity (COP10) held in Nagoya in October 2010, a vigorous debate led to the following two major achievements, among others: the Aichi Target, a strategic plan that calls for unambiguous and comprehensive action to reduce the rate of biodiversity loss by 2020 by safeguarding the ecosystem and its basic services; and the Nagoya Protocol, an international agreement for the fair and equitable sharing of the benefits arising from the utilization of genetic resources. Consequently, how we link these trends with our corporate activities will present an even greater challenge than did the initiatives to reduce CO<sub>2</sub> emissions in relation to the threat of climate change.

At the GS Yuasa Group, we aim to develop our business by capitalizing on our diverse technologies in order to develop products and nurture markets, which will enable us to contribute to society as we increasingly shift toward addressing environmental concerns in the future. Fiscal 2010 represents an intermediate year of our Second Five-Year Environmental Plan, which is scheduled to conclude in fiscal 2013. During the initial two years of this plan, we reviewed the content of our previous environmental initiatives while seeking to significantly shift our business toward full-scale entry into the lithium-ion battery segment. We are approaching the stage at

which we must incorporate the findings of this process by boldly adopting more innovative environmental management systems.

Initially, we focused not only on the environmental impact generated by Group operations, but also on the impact generated by procurement of materials and customer usage of our products. We directed our life cycle assessments (LCA) toward the recycling of post-consumer products, the disposal stage, and the effects on biodiversity in an effort to determine the impact of the product life cycle on the living world. Moreover, we are very much aware of the need to accelerate our Group's approach to environmental management. In addition to our dedication to global environmental initiatives, we remain committed to complying with all laws and ordinances. Moreover, in our relations with our customers, shareholders, business partners, local communities, and our own employees, we shall proactively strive to fulfill our responsibilities with a strong awareness of the role of our corporation as a part of society.

This 2011 Environmental & Social Report has been prepared in two editions: a Japanese-language edition and a combined Chinese-language and English-language edition. This publication is intended to promote a better understanding of our environmental management initiatives and our efforts to contribute to society through our communities, our business partners, shareholders, and investors both inside and outside Japan. In disclosing information related to our environmental and social initiatives, we aim to provide more transparency and foster greater trust. Clearly, as we work to reduce our environmental impacts, we are also contributing to the emergence of a sustainable society.

GS Yuasa Corporation  
President  
**Makoto Yoda**



## Philosophy

### Innovation and Growth

We are committed to the people, society and global environment through Innovation and Growth of our employees and business entities.

### Vision

We are committed to delivering security and comfort to our customers around the globe through advanced technologies developed in the field of stored energy solutions.

### Management policy

1. GS Yuasa will become "First call" company based on our "Customer First" policy.
2. GS Yuasa considers "Quality" and "Safety" as most important, and supply environmentally considered product all over the world.
3. GS Yuasa will comply with all laws and operate by clear and fair management.

# 凭借集团的技术和产品，为实现可持续发展的社会作贡献 并力争进一步提升环境保护经营

今年，我们继续向大家公布环境·社会报告书。

首先，谨向此次东日本大地震的受灾者表达深切的哀悼之情。这次大地震是日本近代史上罕见的一次大灾害，不仅仅是与关东大地震和阪神大地震一样，令人难以忘记。这次灾害的性质更是日本人民迄今为止完全没有经历过的。我们从此次大地震中吸取的教训，既有“人类通过知识和见识进行的设想是有限度的”，也有“尽管如此，我们仍要基于这种利用智慧和想象力的设想，承担人类与大自然和谐共存的命运”。可以这么说，我们不应局限于“人类应该如何与自然环境和谐共存”的观点，不光要考虑今后要基于怎样的思考方法，来确保文明延续条件的能源，还要重新思考文明的存在形式其本身。但是，我们必须找到这个艰难的方程式的答案，以告慰此次地震的遇难者和受灾人员。杰士汤浅集团全体员工也将团结一致，为灾区的早日复兴作出贡献。

近年来，环境问题日趋多样化。2010年10月，在日本名古屋召开的《联合国生物多样性公约》第十次缔约国会议（COP10），经过艰难的讨论，通过了“有效且立即采取行动，以期在2020年前能够恢复生态系统并提供基础性服务，阻止生物多样性的损失”（爱知目标），和《关于遗传资源利益分配的国际协议》（名古屋议定书）等。我认为，如何将这发展动向与企业活动联系起来，是比减少涉及气候变动的CO<sub>2</sub>排放量的活动还要困难的课题。

杰士汤浅集团通过在产品和市场的开拓上活用本集团拥有的各种技术，力争开展为今后愈加注重环境保护的社会作贡献的事业活动。2010年度，是以2013年度为最终年度的杰士汤浅集团第2个环境保护5年计划的中期年度。前半期的2个年度，是锂离子电池事业的正式实施等，带来本集团的事业形态发生巨大变化的时期，也是对迄今为止的环境保护措施进行修正的时期。根据该过程中取得的知识见解，我们制定了新环境保护管理。今后，我们将迈入具体实施的阶段。

此外，不仅仅局限在杰士汤浅集团的事业活动对环境产生的影响，而且关注材料采购、客户的使用和已使用后产品的资源再生化、直至废弃处理阶段的生命周期评估（LCA），以及将贯穿产品生命周期的对生物界的影响纳入视野的“生物多样性”观点等，都使我们强烈认识到本集团的环境保护经营必须再上台阶。特别是，本集团并不只停留在地球环境保护的相关活动上，除了严格遵守各类法律法规外，我们还重视企业作为社会一员的作用，在客户、合作伙伴、股东、地区社会以及员工关系中积极承担企业的责任，并在今后也将继续致力于尽到企业的社会责任。

《2011环境·社会报告书》以日语版和中英文双语版的两种版本形式制作。我们希望通过它，能够使本集团事业活动所在地区社会的人们、海内外的客户、合作伙伴以及股东和投资者，了解我们在环境保护管理以及对社会工作方面所做的努力。通过向公众展示我们在环境保护管理以及社会工作方面的信息，杰士汤浅集团除了将确保透明可信的事业活动外，今后也将上下团结一心，致力于减轻环境负担，为实现可持续性发展的社会作出贡献。

株式会社 杰士汤浅  
董事长  
**依田 诚**



## 企业理念

### 革新与成长

通过员工和企业的“革新与成长”，为人类、社会和地球环境作出贡献。

### 经营目标

我们通过电池而培植积累起来的先进能源技术，致力于为全球客户提供舒适而安心的服务。

### 经营方针

1. 杰士汤浅将以“客户至上”为宗旨，成为客户的“首选”公司。
2. 杰士汤浅重视“质量”，提供考虑到环境与安全的产品以及服务。
3. 杰士汤浅将遵循所有法律规定，实现高度透明、公平的管理。

## Overview of our Group

### Pure holding company

#### GS Yuasa Corporation

Form the management plan and strategy for GS Yuasa Group and administer the group of companies to enhance the total value of the group

Established April 1, 2004  
 KYOTO HEAD Office 1, Inobanba-cho, Nishinosho, Kisshoin, Minamiku, Kyoto 601-8520, Japan  
 TOKYO HEAD Office (Shiba-koen Tower) 2-11-1, Shiba-koen, Minatoku, Tokyo 105-0011, Japan  
 Capital stock 33 billion yen

### Business companies

#### GS Yuasa International Ltd.

Manufacturing & sales of automotive batteries, industrial batteries, power supply systems, switch gear, lighting equipment, ultraviolet systems, specialty equipment and other electrical equipment

##### GS Yuasa Battery Ltd.

Sales of automotive battery for replacement market; sales of automobile-related products

##### GS Yuasa Technology Ltd.

Manufacturing & sales of other batteries

##### GS Yuasa Power Electronics Ltd.

Manufacturing & sales of multipurpose power supply

##### GS Yuasa Fieldings Ltd.

General engineering services for industrial batteries, power supply systems and power conversion systems

##### GS Yuasa Accounting Service Ltd.

Affiliated-company finance and accounting business

##### Lithium Energy Japan

Development, manufacturing & sales of large lithium-ion batteries

##### Blue Energy Co., Ltd.

Manufacturing, sales and R&D of high-performance lithium-ion batteries

### International locations

#### International consolidated subsidiaries

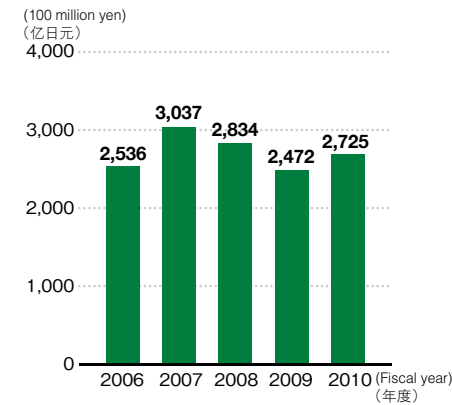
GS Battery Taiwan CO., LTD.  
 GS Battery Vietnam Co., Ltd.  
 GS Battery (U.S.A.) Inc.  
 Yuasa Battery, Inc.  
 Yuasa Battery Europe Ltd.  
 Century Yuasa Batteries Pty Ltd.  
 Yuasa Battery (Guangdong) Co., Ltd.  
 Yuasa Battery (Shunde) Co., Ltd.  
 Yuasa Battery (Thailand) Pub. Co., Ltd.  
 YTTL International Holding Ltd.  
 21 other companies

#### Overseas affiliated companies

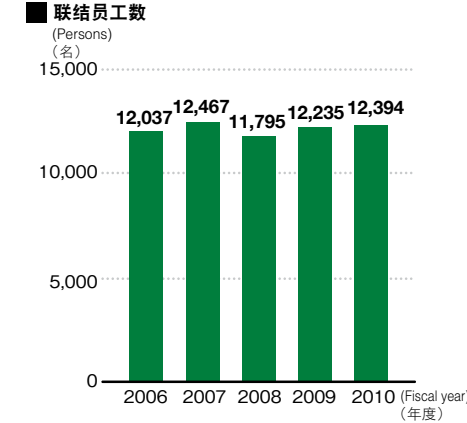
Siam GS Battery Co., Ltd.  
 PT. GS Battery  
 23 other companies

## Corporate Data 业绩数据

### Consolidated sales 联结销售额



### Number of employees in consolidated businesses 联结员工数



## Principal Products 主要产品

### Automotive and motorcycle battery 汽车、摩托车电池



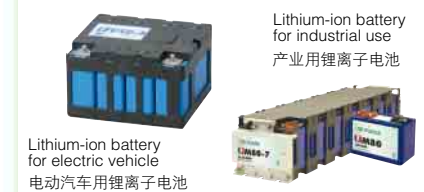
### Industrial battery 产业用电池



### Power supply system 电源系统



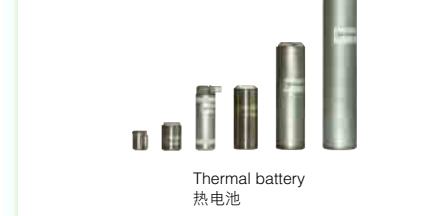
### Lithium-ion battery 锂离子蓄电池



### Lighting equipment, ultraviolet system 照明装置、紫外线应用机器



### Special battery 特殊电池



### Nickel-metal hydride battery 镍氢蓄电池



### Membrane system 膜过滤系统



## 本集团概况

### 纯粹控股公司

#### 株式会社 杰士汤浅

统筹规划杰士汤浅集团企业的经营战略, 以实现集团企业价值的最大化。

设立 2004年4月1日  
 京都总公司 邮编 601-8520  
 日本国京都市南区吉祥院西之庄猪之马场町1番地  
 东京总公司 邮编 105-0011  
 日本国东京都港区芝公园2-11-1 (芝公园塔楼)  
 资本金 330亿日元

### 经营公司

#### 株式会社 杰士汤浅国际

汽车用和产业用各类电池、电源系统、受变电设备、照明器材、紫外线应用机器、特种专业机器、其他电气设备的生产和销售。

##### 株式会社 杰士汤浅蓄电池

补修市场中汽车电池以及汽车相关。

##### 株式会社 杰士汤浅工艺

其他电池的生产和销售。

##### 株式会社 杰士汤浅电子电源

通用电源的生产和销售。

##### GS Yuasa Fieldings Ltd.

产业用电池、电源系统、受变电设备的综合工程服务。

##### 株式会社 杰士汤浅财务公司

分公司财务、财会业务。

##### Lithium Energy Japan

大型锂离子电池的开发、生产和销售。

##### Blue Energy Co., Ltd.

高性能锂离子电池的生产、销售和研发。

### 海外基地

#### 海外联结子公司

台湾杰士电池工业股份有限公司  
 GS Battery Vietnam Co., Ltd.  
 GS Battery (U.S.A.) Inc.  
 Yuasa Battery, Inc.  
 Yuasa Battery Europe Ltd.  
 Century Yuasa Batteries Pty Ltd.  
 广东汤浅蓄电池有限公司  
 汤浅蓄电池(顺德)有限公司  
 Yuasa Battery (Thailand) Pub. Co., Ltd.  
 YTTL International Holding Ltd.  
 21个其它公司

#### 海外关联公司

Siam GS Battery Co., Ltd.  
 PT. GS Battery  
 23个其它公司

## Using innovative technologies we have developed over many years, we have succeeded in reducing our environmental burdens across a variety of sectors.

The batteries and other products offered by the GS Yuasa Group are meeting important needs in all segments of society, and our electrical storage technologies have been well received in the context of efficient use of energy and reduction of CO<sub>2</sub> emissions. Moreover, we are taking steps to help build a sustainable society by adopting initiatives intended to reduce the environmental impacts of our products at the end of their service life.

In recent years, we have all heard the call to reduce CO<sub>2</sub> emissions, and the use of electric vehicles and hybrid electric vehicles has been attracting global attention. The GS Yuasa Group has developed the leading technologies in the field of lithium-ion batteries that drive these vehicles. We are also working on field trials of fast charging systems as part of the battery charging infrastructure for electric vehicles, in which depleted lithium-ion batteries are combined with photovoltaic generation systems through the use of technologies developed in the battery and power equipment segments.

In the forklift truck market, fuel-powered trucks are increasingly giving way to electric trucks powered by lead-acid batteries, which is contributing to reduced CO<sub>2</sub> emissions. In fact, electric vehicles have a smaller market share than do electric forklift trucks. Moreover, delivery trucks and other vehicles with frequent short-interval starts and stops as a result of idling reduction programs typically place a substantial load on their batteries. With the emergence of rechargeable lead-acid batteries offering enhanced charging performance, lead-acid batteries have been playing a significant role in reducing CO<sub>2</sub> emissions in the transport

sector. Lead, the main component of lead-acid batteries, is an excellent material for recycling; as a result, lead-acid batteries can be recycled at the end of their service life, with the lead being reused in the manufacture of new lead-acid batteries.

In the railway sector, lithium-ion batteries are used in battery drive systems and energy storage mechanisms that enable train motors to be battery powered when traveling non-electrified sections of railroads. These train-mounted batteries are charged from the train's overhead power source. The regenerative energy generated during braking is used to recharge the batteries.

Photovoltaic inverters, used to convert the DC power generated by solar panels, are core components of such photovoltaic generation systems. They contribute to the generation of power from renewable energy sources.

Clearly, our Group's products demonstrate their exceptional performance by reducing environmental burdens in a variety of applications, thus contributing to the emergence of a sustainable society.

## 采用多年来培育的技术，在各个领域实现了对环境负荷的减轻。

以电池为主的杰士汤浅集团产品，在社会的所有领域发挥作用，蓄存电力的技术活跃在减少CO<sub>2</sub>排放量和有效利用能源的前线。此外，我们还开展了将产品使用后对环境的影响纳入视野的工作，推进了为构筑可持续发展社会的活动。

近年来，在减少CO<sub>2</sub>排放量的呼声中，电动汽车和混合动力车的应用在全球广受关注。在其原动力的锂离子电池业界，杰士汤浅集团拥有最高水平的技术。此外，我们还在完善电动汽车的充电基础设施上，有效利用电池和电源设备等生产过程中培育的技术，致力于将使用过的锂离子蓄电池，与太阳能发电系统进行组合的快速充电设备的实证测试。

目前，相比普及率低的电动汽车，加速电池化的叉车已采用铅蓄电池，通过叉车的电动化，在减少CO<sub>2</sub>排放量上作出了贡献。另外，由于运输车等车辆会频繁地反复怠速熄火（短时间间隔上进行引擎的发动和停止），对电池产生相当大的负荷，因此通过采用力求提高改进充电等性能的铅蓄电池，在运输领域的CO<sub>2</sub>排放量减少上发挥了作用。同时，铅蓄电池的主要材料铅，具有极大的再生资源性能，对使用过的铅蓄电池进行再生化，可以作为铅

蓄电池的材料进行再利用。

在铁路领域，锂离子电池被使用在有效利用能源的设备结构上。比如，将架线电力充入电车搭载的电池，通过电池可以在非电化区间行驶马达的电池驱动系统；以及将制动时产生的再生能源充入电池，作为电气能源利用的电力储藏设备等。

还有，将来自太阳能发电板的直流输出电力转换为交流的功率调节器，是太阳能发电系统的核心设备，支持利用可再生能源进行发电。

此外，杰士汤浅集团的产品在各种各样的领域，发挥着实现降低环境负荷的性能，为构建可持续发展的社会作出了贡献。

### Electric Vehicles

We are contributing to the adoption of electric vehicles with batteries that significantly outperform conventional products.

### 搭载在电动汽车上

通过大大超过原有电池的性能，为电动汽车的普及作出了贡献。



Lithium-ion battery for electric vehicles  
电动汽车用锂离子电池

### Gasoline-fueled Vehicles

We provide practical battery technology that contributes to improved fuel efficiency, which helps to reduce CO<sub>2</sub> emissions.

### 使用在燃油汽车上

通过提高燃油效率来降低CO<sub>2</sub>排放量的相应电池技术得到了实际应用。



Automotive lead-acid battery (Eco.R LS)  
汽车用铅蓄电池 (Eco.R LS)

We offer automotive batteries for use in vehicles that frequently stop their engines to reduce idling.

应对怠速熄火汽车特有的频繁发动引擎的汽车用电池。



Automotive lead-acid battery (Eco.R IS)  
汽车用铅蓄电池 (Eco.R IS)

### Electric Trains

With stable charge-discharge properties, our batteries use energy with great efficiency, which helps to reduce environmental burdens.

### 安装在铁路列车车辆上

具有稳定的充放电特性，实现能源利用的效率化，为减轻环境负荷作出了贡献。



Lithium-ion battery for industrial use  
产业用锂离子电池

### Solar Energy

Our products support photovoltaic generation systems.

### 使用在太阳能发电上

支持利用太阳能的发电系统。

Utility-connected photovoltaic inverter  
太阳能发电用功率调节器



### Transportation Equipment

We offer products that supply clean, high-current electric power for a wide range of transportation equipment.

### 装载在搬运机器上

为各式各样的机器提供清洁而又强劲的电气能源。



Forklift battery  
叉车用电池

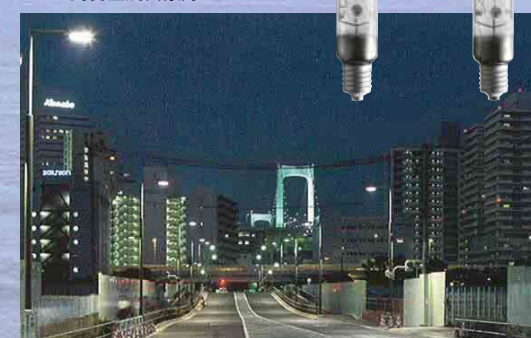
### Lighting

We offer energy-efficient, long-life products that provide pleasing illumination.

### 利用在照明上

提供实现了节能和长寿命的舒适照明环境。

Ceramic-metal-halide-lamp  
陶瓷金属卤素灯

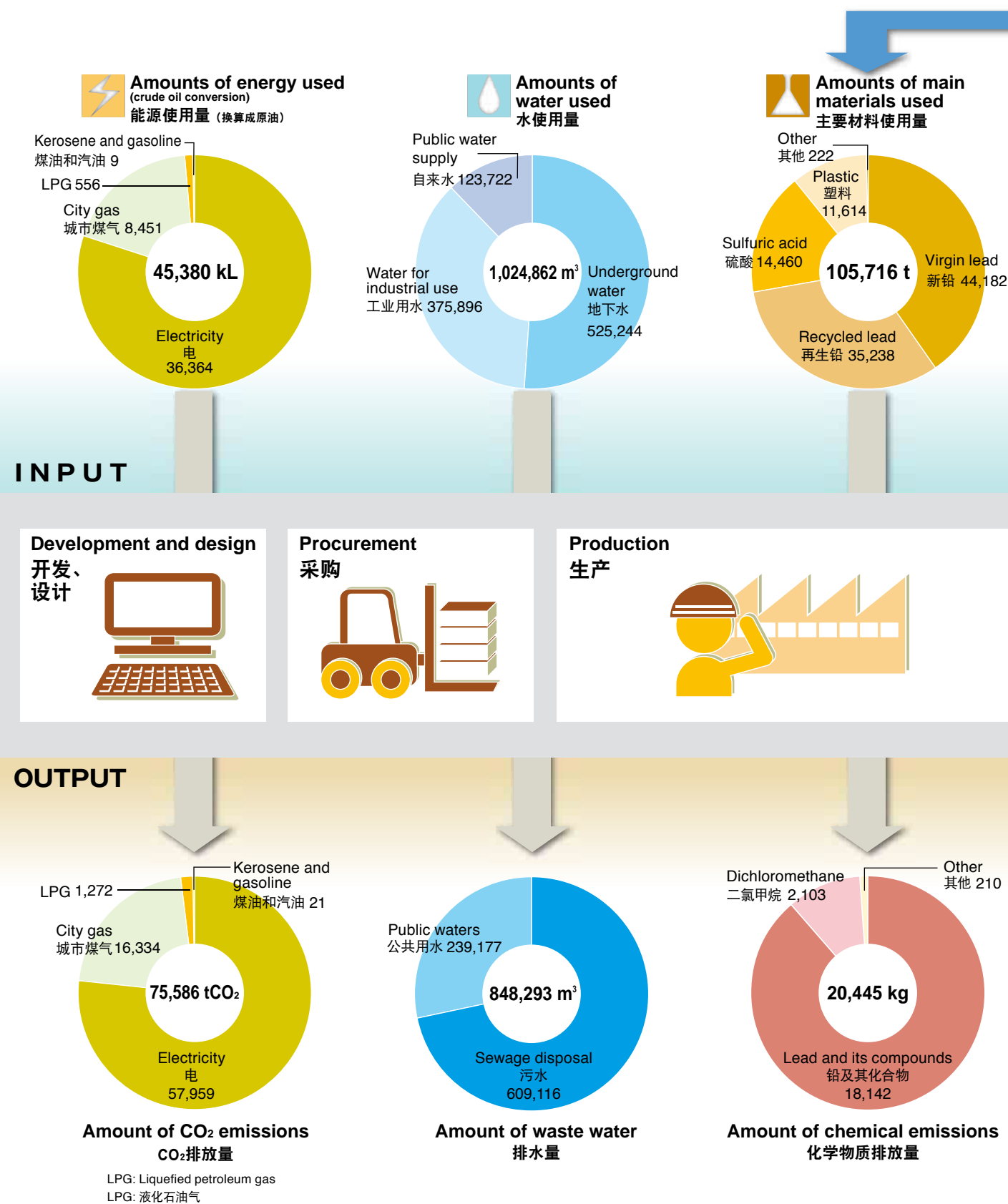


**We aim to reduce environmental burdens in all aspects of our business operations, including manufacturing.**

Our Group manufactures and sells batteries, power supply systems, and lighting equipment and provides related services to many sectors of business and society. Our business operations consume energy, water, raw materials, and other resources while generating waste water, waste products, the greenhouse gas, and other materials. We are well aware of the impact of our business operations on the environment. As a result, we are promoting efforts to design for environment products. At the same time, we are striving to reduce CO<sub>2</sub> emissions and use resources efficiently.

The principal product of our Group is the lead-acid battery, which incorporates lead as a main component. While lead is a material that is readily recyclable, it can also impart a heavy environmental burdens. Consequently, we are striving to minimize the defect rate from our production processes in order to reduce the lead scrap rate. Our initiatives include working to reduce environmental burdens throughout the product life cycle by recycling depleted lead-acid batteries.

■ **Material flow in business activities** (Scope: Fiscal 2010 results from four offices in Japan)

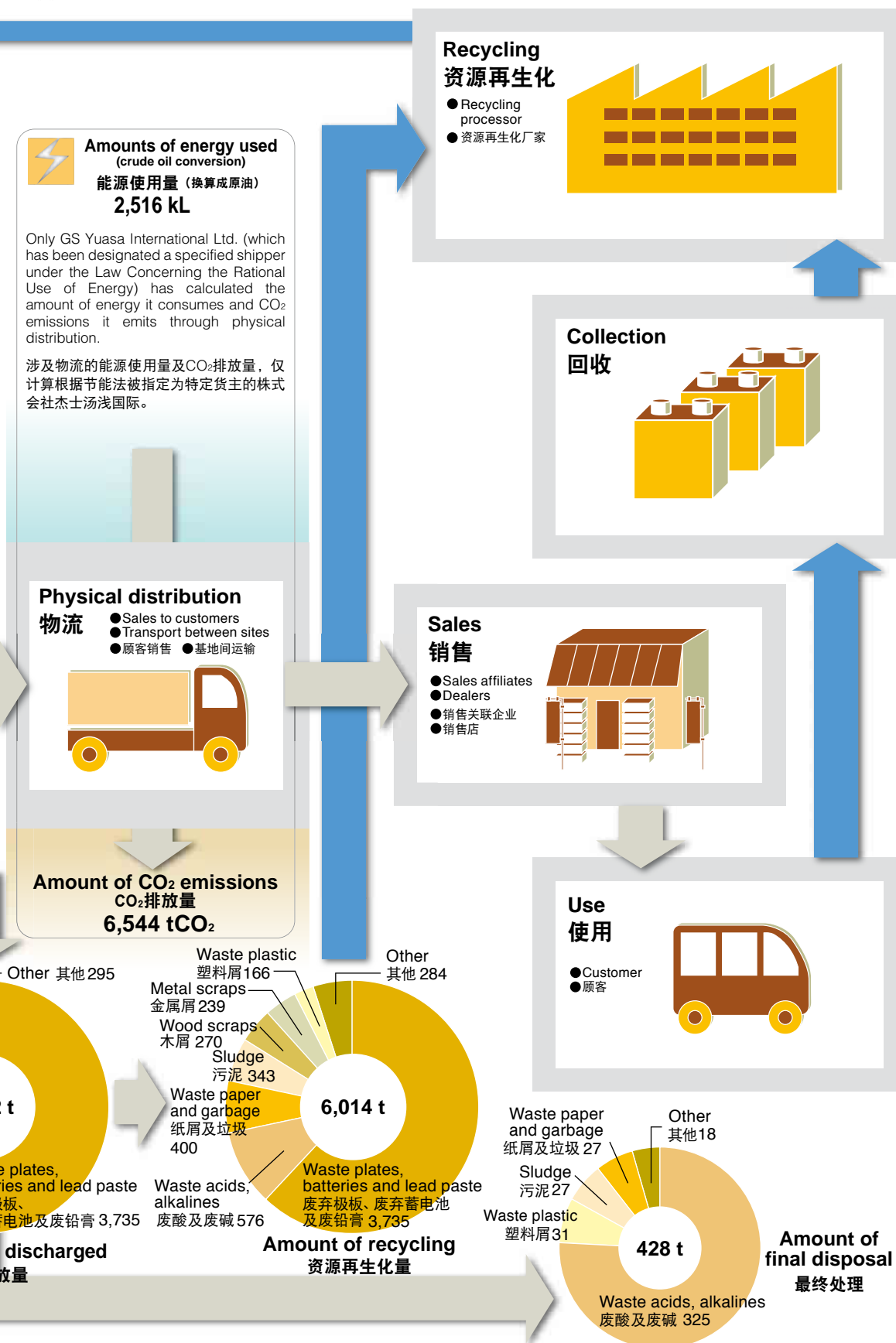


**不仅是在生产工序，而且在事业活动的整个阶段致力于降低对环境负荷。**

杰士汤浅集团生产在各个领域被广泛应用的蓄电池、电源供应设备和照明器材等等，并提供相关产品的服务。在此经营活动过程中，我们投入了原材料、能源和水等资源（输入），而排放了废弃物、温室效应气体和废水等（输出）。我们充分认识到集团的经营对环境造成的影响，致力于充分考虑环境的产品设计，并同时推进资源的有效利用以及减少CO<sub>2</sub>排放量等活动。

此外，本集团的主要产品铅蓄电池，其主要材料使用铅。铅虽然非常适合于资源的循环再利用，但同时也可以说它是可能给环境带来高负荷的物质。杰士汤浅集团通过在生产工序中将不良产品发生率降低到最小范围，减少铅废弃率，并致力于已使用后铅蓄电池的资源再生化，努力降低生命周期整体的环境负荷。

■ **事业活动中原材料流程** (统计对象：日本国内4家事业所的2010年度实际业绩数据)



## We will balance environmental conservation and economic development by developing a medium-term plan with policies targeting environmental conservation.

### Our Policies and Medium-term Plan for Environmental Conservation

ISO 14001 standards stipulate the establishment of an environmental policy as a guideline for corporate environmental management efforts and the regular examination of these policies to reflect changes in corporate status and business conditions. We established the Environmental Policy of the GS Yuasa Group and implemented it in our domestic offices. Each office used this policy as the basis for establishing its own environmental policy.

In keeping with our philosophy of "Innovation and Growth," we have developed medium-term plans for important issues related to our environmental policy in order to contribute to the emergence of a sustainable society. Most recently, we developed our Second Five-Year Environmental Plan, which started in fiscal 2009 and concludes in fiscal 2013.

### GS Yuasa Group Fundamental Environmental Policies

#### Fundamental philosophy

At the GS Yuasa Group, we set conservation of the global environment as one of our most important tasks, and we contribute to the creation of a sustainable society through the development, manufacture and sale of batteries, which are a form of clean energy, power supply systems, and lighting equipment.

#### Action agenda

- 1 We carefully evaluate the environmental impacts of our business activities, products and services, and we are working to reduce environmental burdens and to prevent pollution. Through energy and resource conservation, waste reduction and recycling, we will continuously improve our results.
- 2 We promote the development and design of products that protect the environment throughout product life cycles. We seek to reduce environmental burdens from the product development and design stages to manufacture, use and disposal.
- 3 We work to decrease environmental burdens with our business partners throughout our entire supply chain, including materials procurement and physical distribution.
- 4 We have created environmental management systems according to ISO 14001 standards and have enacted environmental policies at each of our offices based on these fundamental policies. We also advance our environmental management activities by setting related objectives and targets.
- 5 We abide by all laws, ordinances, agreements and regulations related to the environment, as well as other requirements agreed on by the Group. We also make voluntary management standards according to these as necessary to promote environmental conservation.
- 6 We steadily execute revisions based on environmental audits and management reviews to maintain and improve our environmental management systems continuously.
- 7 Through education, training and other environmental awareness efforts, we promote the environmental awareness of all group employees, and we contribute to society through our environmental preservation activities.
- 8 We seek to achieve good communications with our stakeholders and with society as a whole by providing information related to the environment, including our fundamental environmental policies.

### Second Five-Year Environmental Plan (Fiscal 2009 to 2013) and Results for Fiscal 2010

	Key items Objectives	Results for Fiscal 2010	Self-assessment/Challenges	
1	<b>Reduction of energy and resource usage</b> We will reduce the amount of CO <sub>2</sub> emissions to 30% less than the fiscal 1990 level by fiscal 2013. We will promote energy-saving activities at operations division (applicable to specified companies). We will reduce the energy consumption intensity in physical distribution to 5% less than the 2006 level by fiscal 2011 (applicable to specified shippers). We will reduce the rate of production errors and defective products (pursuit of greater efficiency of resource usage and the 3Rs; consistency with ISO 9001). We will reduce the lead scrap rate to less than 2% by fiscal 2013. We will reduce the amount of waste water produced by industrial processes to one-third of the fiscal 2003 level by fiscal 2013. We will further promote the proper disposal and recycling of used products on the basis of the wide area certification system under the Waste Management and Public Cleansing Law (increasing the range of businesses and products covered).	We succeeded in reducing CO <sub>2</sub> emissions in fiscal 2010 by 25% below the fiscal 1990 level.  The amount of energy used by operations division in fiscal 2010 increased by 1% compared to the fiscal 2009 level.  We reduced the energy consumption intensity for physical distribution in fiscal 2010 by 21% below the fiscal 2006 level.  The lead scrap rate in fiscal 2010 was 5%.  We reduced the amount of waste water produced in fiscal 2010 by 62% below the fiscal 2003 level.  In fiscal 2010, the percentage of used industrial batteries under the wide area certification system under the Waste Management and Public Cleansing Law was 91%.	We need to manage our lithium-ion battery segment with greater consideration for reduced CO <sub>2</sub> emissions.  Because energy conservation measures have not produced results in some operations divisions, we intend to implement measures that are more effective. Attainment of our targets has been positive. We recognize the importance of continuing to implement measures to increase energy efficiency and reduce our costs in the future.  Efforts aimed at reducing waste must be intensified through coordination of process improvement and "product design for the environment."  Further efforts — such as an increased water-recycling rate — are required to facilitate the efficient use of water.  With the current scope of the wide area certification system under the Waste Management and Public Cleansing Law, there are business areas and product categories to which the system cannot be applied.	
	2	<b>Focusing on higher levels in the management of environmental aspects</b> We will implement product design for the environment and life cycle assessment in development and design departments and prepare to address the issue of carbon footprints. We will address the issue of MIPS (Material Intensity Per Service) in product design.	We promoted the development and design of environmentally considered products on the basis of the GS Yuasa Design for the Environment Guidelines issued in October 2005.	Compared with the development of product applications, the incorporation of environmental consideration in product design is insufficient.
		3	<b>Promotion of green procurement</b> We will support the acquisition and advancement of environmental management system certification by suppliers.	We implemented second-party audits for suppliers subject to environmental auditing. We also undertook improvements to our environmental management systems.
	4		<b>Management of chemicals</b> On the basis of GS Yuasa Group Chemical Management Guidelines established in April 2005, we will monitor the material flow of chemicals regulated by these guidelines.	In coordination with green procurement activities, we implemented the comprehensive identification and management of chemicals contained in products, and attained compliance with both Japanese and overseas regulations on the amount of contents.
		5	<b>Increased sensitivity to environmental risk</b> We will implement environmental risk education based on the GS Yuasa Group Regulation Guidelines on Environmental Risk (and make the management of environmental risk a subject of environmental management systems).	We took steps to implement effective risk management by incorporating environmental risk management within our Group's risk management systems.
	6		<b>Compliance with laws</b> We will set voluntary management standards that exceed the requirements of municipal and national government environmental regulations and pursue the improvement of our environmental management technologies.	There were no instances of emergencies directly related to environmental pollution, and there were no instances of lawsuits, punitive fines, or administrative fines related to environmental aspects.
7		<b>Maintenance and continuous improvement of environmental management systems</b> We will conduct internal environmental auditing and undertake continuous improvement of our environmental management efforts. We will receive environmental auditing from external inspection agencies and seek to raise the level of our environmental management efforts.	All domestic offices periodically underwent internal and external audits to identify issues in order to implement improvements to our environmental management system.	All of our domestic offices are committed to the continuous improvement of our environmental management systems following certification of registration with ISO 14001.
	8	<b>Contributions to society</b> We will actively and continuously participate in environmental conservation efforts and community beautification activities. We will conduct continuous environmental education and training for our employees.	We undertook various activities such as cleaning the areas around our office grounds and conducting environmental education programs at elementary schools. Moreover, under our environmental management systems, we developed and implemented training programs.	We will continue to practice social contribution initiatives within the framework of our environmental management systems.
		<b>Communication about the environment</b> We will continuously provide information about our activities and the environment through Environmental & Social Reports and other means. We will strive to receive positive appraisals of our environmental management efforts from society.	We continued to publish the print edition of our Japanese-language annual environmental and social report and have posted a digital edition on our website. We also addressed a wider range of stakeholders by issuing a combined English-language and Chinese-language edition. The completed questionnaires returned by stakeholders revealed generally positive reviews.	We will continue to implement environmental communication initiatives within the framework of our environmental management systems.

## 依据环境基本方针，制定中期计划，为同时实现环境保护和经济发展而努力。

### 杰士汤浅集团的环境基本方针及中期计划

根据ISO14001标准要求，作为企业环境管理工作的指导准则，要制定环境方针，为反映企业和企业周围情况的变化，需要定期修订该方针。我们制定了杰士汤浅集团的环境方针《杰士汤浅集团环境基本方针》并在国内事业所推广，而各事业所根据该环境基本方针设立相应的环境方针。

关于环境基本方针的重点事项，是制定融入本公司“革新与成长”的经营理念，以实现可持续性发展社会做贡献为目的的中期计划。2009年度，正在制定截止至2013年度的第二个环境5年计划。

### 杰士汤浅集团环境基本方针

#### 基本理念

在杰士汤浅集团，我们将地球的环境保护作为最重要的经营课题之一，通过对清洁能源的蓄电池、电源供应系统、照明设备等的开发、生产和销售，为建造可持续性发展的社会作出贡献。

#### 行动准则

- 1 确实地评估经营活动、产品和服务对环境造成的影响，通过节省能源、节省资源、削减废弃物及循环再利用等途径，努力降低对环境负荷，预防污染，并针对这些方面进行持续改进。
- 2 力争降低贯穿产品开发、设计至生产、使用、废弃的各个阶段的产品生命周期中对环境负荷，推进考虑到环境保护的产品的开发、设计。
- 3 致力于降低包括原材料的采购和物流等所有的合作伙伴在内的整个供应链中对环境负荷。
- 4 根据ISO14001标准创建环境管理体制，根据该环境基本方针制定各个事业所的环境方针，设定环境保护目标、指标，推进环境管理活动。
- 5 除了遵循与环境保护相关的法律、条例、协议等规定以及集团认同的其他方面的要求事项之外，根据需要制订自行主动管理基准，致力于环境保护。
- 6 确实地实施环境监察以及经营决策层所进行的修正，力求环境管理体制的维持及持续改进。
- 7 通过教育、培训等来提高集团全体员工的环境保护意识，并通过环境保护活动贡献于社会。
- 8 通过提供展示包括该环境基本方针在内的与环境保护相关的信息，致力于同利益相关方及社会的良好沟通。

### ■ 第2个环境5年计划（2009年度～2013年度）以及2010年度实际业绩

	重点项目 目标	2010年度实际业绩	自我评估 / 课题	
1	<b>削减能源的使用量以及节省能源化</b> 2013年度的CO <sub>2</sub> 排放量将比1990年度削减30%。 推进业务部门的节省能源活动（对应特定事业者）。 2011年度有关物流的能源原单位将比2006年度削减5%（针对特定货主）。 降低废品、不良品率（追求资源效率化和3R，与ISO9001共通任务化）。 2013年度的铅废弃率将低于2% 2013年度的工序排水量比2003年度降低至1/3。 通过对广泛认定制度的活用，推进了使用后产品的正当处理和再生资源化（对象事业、产品的范围扩大）。	2010年度的CO <sub>2</sub> 排放量比1990年度削减25%。 包括业务部门2010年度能源使用量比2009年度增加1%。 2010年度物流相关的能源原单位比2006年度削减21%。 2010年度的铅废弃率为5%。 2010年度的排水量比2003年度降低62%。 2010年度涉及已使用后产业用蓄电池的产业废弃物广泛认定制度活用项目比率为91%。	需要充分考虑锂离子电池事业的CO <sub>2</sub> 排放量的管理。 部分业务部门的节能对策没有效果，因此必须推进更加有效的对策。 目标达成情况顺利。重点是今后也要继续实施节能和降低成本的对策。 必须通过工序改善和产品环保性设计的结合，强化削减废弃物。 水的循环利用率的提高等，必须进一步筹划对水的有效利用。 在现在广泛认定的登记范围中还存在着不能运用制度的事业领域和产品分类。	
	2	<b>环境因素管理的视线向上流转移</b> 开发、设计部门在对产品环保性设计以及实施对生命周期评估的同时开始进行对“碳足迹”的对策准备。进行商品设计时采取MIPS (Material Intensity Per Service / 资源效率化设计)。	实施了考虑环保的产品开发和设计工作，该工作活用了2005年10月公布的产品环保性设计指南。	与在产品的用途方面开展的工作相比，在产品环保性设计方面的投入显得不足。
		3	<b>推进绿色采购</b> 要求供应商企业取得环境管理体系认证注册，同时对其水准提高进行支援。	对环境监测对象的供应商企业实行双重监测，同时支援其提高环境管理体系水平。
	4		<b>化学物质的管理</b> 以2005年4月制定的化学物质管理指南为基准，监控该指南规定的化学物质的材料流程。	结合绿色采购活动，彻底掌握和管理产品中所含的化学物质，适合国内外的产品含有量的规定。
		5	<b>对环境风险灵敏度的提高</b> 根据“环境风险特定指南”实施环境风险教育（环境管理体系也将环境风险作为管理对象）。	通过将环境风险管理纳入杰士汤浅集团风险管理体系，力求实现高效的风险管理。
	6		<b>遵循法规</b> 设定高于国家、地方政府环境保护规定值的更为严格的自行主动管理基准，推进环境保护管理技术的改善。	从未发生过与环境污染有着直接联系的紧急事件，也未有过与环境关联的诉讼、罚款、赔款事项。
7		<b>环境管理体系的维持、持续改进</b> 开展内部环境审核，不断进行环境管理体系的改善。接受来自外部检查机构的环境审核，力求提高环境管理体系的水平。	在国内的各事业所，活用由定期实施的内部环境审核或外部环境审核指出的不足，力求改善环境管理体系。	国内各事业所正致力于遵循ISO14001标准的环境管理体系所要求的持续改进。
	8	<b>对社会的贡献</b> 积极地不断进行环境保护活动和美化活动。不断实施工人环境保护教育与培训。	积极参与各事业所周边的清洁活动，以及对小学生开展环境保护学习事业等活动。同时，在环境管理体系的运用中，建立并实施了教育计划。	今后也将继续在环境管理体系的运用中实施对社会做贡献的活动。
8		<b>环境保护方面的交流沟通</b> 通过环境·社会报告书及其他方式，不断提供展示所开展的环境保护方面的信息，获得环境保护管理活动的社会性评价。	坚持每年发行环境·社会报告书，并通过在本公司的网站登载和发行英文、中文双语版等方式，回应广大利益相关方的关注。另外，从各利益相关方的问卷调查反馈来看，评价大致良好。	今后也将继续在环境管理体系的运用中实施环境保护方面的交流沟通活动。

## Initiatives to reduce environmental burdens at our affiliates outside Japan: Eco-innovations at PT. GS Battery in Indonesia

PT. GS Battery, the largest lead-acid battery plant in the ASEAN region, obtained certification of ISO 14001 registration in 2002 and continues to take steps to reduce its environmental burdens.



Head office building  
公司外观

### Overview of PT. GS Battery

Scope of business:	Manufacturing and sales of batteries for two- and four-wheeled vehicles; assembly and sales of electric vehicles and industrial batteries
Established:	December 1972
Location:	Jakarta, Indonesia (Sunter Main Plant) and Karawang (Karawang Plant)
Number of employees:	2,100
Annual sales:	1.8744 trillion rupiah (about ¥17.7 billion)

### Reducing power consumed for lighting

Built in 2010, this battery plant for two-wheeled vehicles (Karawang Plant) was designed with large windows in the walls and ceiling that introduce natural light and reduce the need for artificial lighting in daytime. By using tropical sunlight efficiently, this innovation has reduced power consumption by more than 15 percent compared with the amount consumed by the Sunter Main Plant.

### Adoption of electric forklift trucks

This plant has been promoting a switchover from conventional fuel-powered forklift trucks to electric models that emit no exhaust gases. This initiative is aimed at reducing CO<sub>2</sub> emissions during forklift operation to zero.



Electric forklift truck  
电池式叉车

### Water conservation

After processing by our waste water treatment facility, process waste water is reused in the plant for cleaning floors and the like.

### Recycling one of the plant's main raw materials

This plant is promoting recycling of polypropylene and other synthetic resins as well as lead, the primary material used in the manufacture of lead-acid batteries. Of special interest is the scrap lead generated in the manufacturing process, which is reprocessed by outside contractors and then reused as a material in new products. This plant continues to focus on the long-term recycling of resources in an effort to conserve the limited resources consumed in its operations.



Reprocessed lead  
再生铅

## 海外关联公司也积极推进降低环境负荷的活动。 ~PT. GS Battery (印度尼西亚) 的环保活动~

本集团位于ASEAN (东盟) 的最大规模铅蓄电池工厂PT. GS Battery于2002年取得ISO14001资格认证, 推进了降低环境负荷的工作。



Karawang Plant  
卡拉旺工厂

### PT. GS Battery (印度尼西亚) 公司概况

事业内容:	四轮车以及两轮车用电池的生产、销售; 电动车以及产业用电池的组装和销售
成立日期:	1972年12月
地址:	印度尼西亚共和国雅加达 (Sunter总公司工厂), 卡拉旺 (卡拉旺工厂)
雇员数:	2,100名
销售额:	1兆8744亿卢比 (约177亿日元)

### 减少照明用电力的使用量

在2010年建设的两轮车用电池工厂 (卡拉旺工厂), 通过引入巨大的侧面窗和顶棚自然采光方式, 减少白天的照明使用量。实现了比Sunter总公司工厂减少15%以上的电力使用量, 在有效地利用南国特有的日照进行节能上作了努力。



Battery plant providing batteries for two-wheeled vehicles  
两轮车电池工厂

### 更换为电池式叉车

工厂内使用的叉车原来是发动机式的, 现正逐步更换为不排放废气的电池式叉车, 力争实现叉车运转时CO<sub>2</sub>排放为零的目标。

### 水资源的再利用

工序废水经工厂内的排水处理站处理后, 作为再生水资源, 被再利用在工厂内的地板清洁所需用水等。

### 主要材料的资源再生化

对铅蓄电池的主要材料铅, 和聚丙烯等合成树脂, 推进资源的再生化活动。特别是, 将在制造工序上产生的铅屑等废铅, 委托外部企业进行资源再生化, 并将该再生铅作为产品的材料进行再利用。致力于资源的再生化, 以便可在事业上持续不断使用有限的资源。



A meeting in progress  
会议情形

We are engaging in an ongoing effort to improve our corporate governance to ensure the transparency, health, and legal compliance of our management.

### Approach to corporate governance and our governance system

To implement our philosophy of contributing to "people, society, and global environment through Innovation and Growth," our Group is working to manifest its vision of "delivering security and comfort to our customers around the world through advanced technologies developed in the field of stored energy solutions" and to unite all Group employees in this common commitment. Moreover, we believe that a continued focus on corporate governance will maximize our corporate value to ensure management transparency and health while strengthening corporate profitability through timely decision-making and operational efficiency.

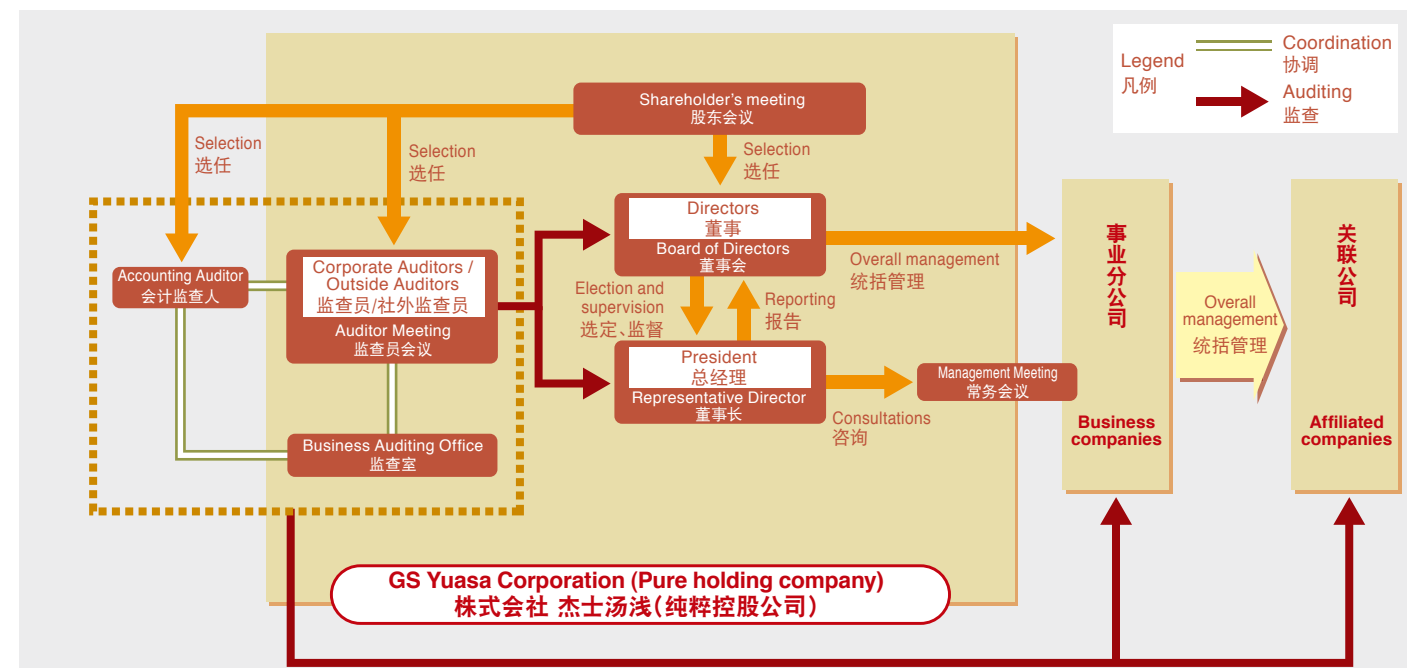
To ensure the effectiveness of management and processes along with appropriate decision-making throughout our Group, we have established a governance system intended to strengthen our Board of Directors. This initiative includes periodic reporting to the Board on the work status of each business subsidiary and important related issues. In addition, corporate and outside auditors present their opinions to the Board and to important meetings of the Group. As well, we are establishing a framework for conducting effective audits by facilitating the exchange of information at Auditor Meetings and ensuring coordination with the GS Yuasa Corporation Business Auditing Office and accounting auditors.

### Focused on internal controls

In order to strengthen its management foundation, the GS Yuasa Group has established a system to ensure the maintenance of ethical business practices based on the Companies Act. This system includes mechanisms to ensure proper auditing, information management, and risk management throughout the Group through the imposition of relevant rules. In order to comply with the internal control reporting system required under the Financial Instruments and Exchange Law, we are creating an internal control system and establishing financial reporting mechanisms to meet all requirements.

Our international subsidiaries and other consolidated Group companies evaluate the status of the improvement and implementation of their internal controls. Following external audits, reports on these internal controls are publicly disclosed.

### Governance structure 管控制度



为了确保经营的透明性、健全性和守法性，持续强化企业管控。

### 企业管控理念及体制

杰士汤浅集团为了实现“通过革新与成长，为人类、社会和地球环境作出贡献”的企业理念，把“通过电池而培植积累起来的先进能源技术，致力于为全球客户提供舒适而安心的服务”的经营理念具体化，力求集团公司员工的意志统一。另外，企业管控的持续推进，与确保经营的透明性和健全性，通过快速的决策和事业的高效执行，强化企业收益能力等企业价值的最大化息息相关。

本公司为了实现集团整体的有效管理以及正确的经营决策，采用定期向董事会报告事业分公司业务执行情况和重要事项的方式，构筑强化董事会职能的管控制度。另外，公司内部、外部监察员在董事会和集团的重要会议上陈述意见的同时，通过监察员会议上的信息交流，以及与本公司监察室和会计监察人员的合作，完善了可开展有效监察的体制。

### 有关内部控制的措施

杰士汤浅集团为强化经营基础，构筑了确保基于公司法的业务正确性的体制，制定了必要的公司规则，并运用了合适的经营信息管理、风险管理以及集团的监察等组织结构。另外，为应对基于金融商品交易法的内部控制报告制度，构筑了财务报告相关的内部控制的体制和组织结构，并进行适当地运用。包括海外分公司的关联集团各公司，在公司内部评估内部控制制度的完善以及运用情况，并在接受公司外部的监察后，公开内部控制报告书。

Implementing comprehensive compliance management and risk management

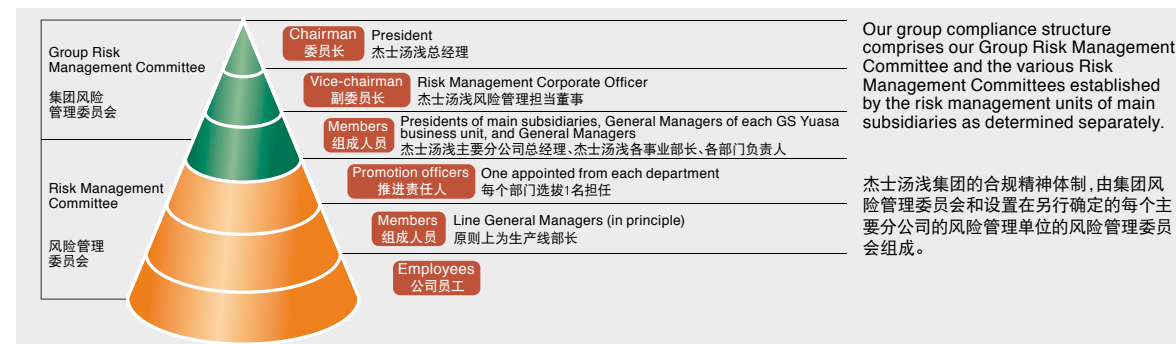
### Comprehensive risk management and crisis management

The GS Yuasa Group has adopted Risk Management Rules intended to avoid or reduce exposure to business risk and minimize potential corporate losses.

Each department uses a Risk Management Sheet to evaluate the extent of risk and the potential impact of risks identified within the department. These departments hold monthly meetings to review the results of risk evaluations performed by their respective risk management committees. In addition, the Group Risk Management Committee — headed by our president with members comprising chairs of various departmental Risk Management Committees — holds semiannual meetings to promote Group-wide risk management and to encourage the sharing of key information related to risk management. The Risk Management Committee confirms that appropriate risk management measures have been implemented, and the committee chairs report on progress in this area.

Moreover, in preparation for the possibility that a new risk is identified, the system maintains an emergency contact network to swiftly implement crisis management. When a serious crisis occurs, members of the Group Risk Management Committee are appointed to organize a crisis management headquarters under the president in order to minimize corporate losses. We have also established a system to implement an appropriate response to moderate the situation.

### Risk management structure 风险管理体制图



### Compliance activities

In pursuit of our philosophy of "Growth and Innovation," we recognize the importance of all Group employees guiding their behavior according to compliance with laws, company regulations, and ethical standards. In this spirit, we have adopted the GS Yuasa Corporate Ethical Standards, which comprise 10 items that all employees of the Group must uphold. To better implement these standards, we have established Corporate Ethical Behavior Guidelines that stipulate what is either required or prohibited of all employees in specific situations. In addition, we have provided all Group employees with the GS Yuasa Group Compliance Manual, which explains compliance in an understandable way. It is used in the compliance training conducted after a review in response to changes in the business environment, such as revisions or additions to laws and regulations. Furthermore, our president conducts a compliance survey every six months to collect information and solicit queries regarding daily operational compliance through an in-house e-mail questionnaire aimed at all employees.

Should an employee uncover behavior that is illegal or inappropriate in terms of compliance, that employee can convey information to the GS Yuasa Group Corporate Ethics Hotline, a point of contact accessible both internally and externally that can be reached on an as-needed basis. In conducting investigations and taking appropriate action, our investigation team remains committed to protecting whistleblowers and conducts itself according to a system of standards.

力求贯彻合规精神经营和风险管理。

### 风险管理的贯彻与危机管理

杰士汤浅集团为避免、减少经营风险并力求将企业损失降到最低，制定了《风险管理规则》。

各事业部门采用《风险管理一览表》，评估各自部门所特定的风险影响的重要性和发生的可能性，进行风险管理，在每月召开的风险管理委员会会议上修正风险评估的结果。另外，为推进集团整体的风险管理和共享风险信息，本集团每半年召开一次集团风险管理委员会会议，该委员会委员长由本公司总经理担任，组员由各事业部门风险管理委员长组成。在委员会会议上，听取各事业部门的风险管理委员会委员长对风险管理情况的汇报，检测风险管理是否合理。

特别是，我们建立了预防风险的显著化事态，快速掌握经营危机的紧急联络网等体制。一旦发生重大的危机事件，我们将从集团风险管理委员会中选拔成员，设立由本公司总经理担任委员长的危机管理对策总部，确立为平息事态而采取适当应对措施体制，力求将公司的损失降到最低。

### 合规精神活动

杰士汤浅集团为实现“革新与成长”的企业理念，充分认识到集团的全体员工重视遵守法律法规、公司规则以及伦理的重要性。

为此，本集团制定了《杰士汤浅集团的企业伦理标准》，显示集团全体员工应该遵守的十项行动规则。同时为了确实地执行该标准，制定了《企业伦理行动准则》，具体指示全体员工“应该做什么”、“不能做什么”。另外，应对法规制度的修订和追加等事业环境的变化，及时修订用于解释说明关于合规精神的《杰士汤浅集团合规精神手册》，然后分发集团全体员工，以有效运用在合规精神的教育上。特别是每半年进行一次合规精神调查，由公司总经理通过公司内部邮箱，向全体员工征集在日常业务中的合规精神问题等的信息。

我们还完善了相关体制。一旦员工发现有针对合规精神的违法或不恰当的行为时，向设置在公司内部和外部的可随时报告的窗口“杰士汤浅集团的企业伦理热线”传递信息，调查小组在力求保护报告人的同时，将进行详细调查和采取适当的措施。



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