

# Energy & Chemicals Company

We will create new value through our value chain in the areas of petroleum, gas, and chemicals.

## CSR at the Energy & Chemicals Company

### Promoting CSR through global environmental preservation and the stable supply of safe and high-quality products

Ensuring stable supply of safe and high-quality products and services with a high degree of consideration for the global environment, we will contribute to the realization of a sustainable society.

#### CSR Action Plans: Key points of our fiscal 2013 action plans

The Group is pursuing the development of stable supplies of energy as well as of environmentally friendly businesses such as the lithium-ion battery supply business. We will also continue to provide education and training on laws, regulations, and safety measures regarding energy and chemical products.

For details, please visit the following website:  
<http://www.itochu.co.jp/en/csr/activities/actionplan/#action04>

## Business Areas

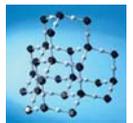
### Energy Division

In addition to global trade in a wide range of products, such as crude oil, petroleum products, and LPG, the division participates in oil and natural gas development projects in such locations as North America, Azerbaijan, Sakhalin, and the U.K. North Sea. The division also participates in the planning of LNG projects in Qatar and Oman and makes use of ITOCHU's capabilities as a trading company to actively conduct LNG trading. In Japan, the division's operations are centered on ITOCHU ENEX CO., LTD., one of the largest petroleum wholesalers affiliated with a general trading company.



### Chemicals Division

The division conducts trade in a wide range of products, such as basic chemicals, plastics, electronic materials, and pharmaceutical raw materials. In addition to trading, the division is investing in businesses to build a multifaceted portfolio that extends from upstream to downstream. Consequently, the division includes a large number of major Group companies, such as ITOCHU CHEMICAL FRONTIER Corporation, ITOCHU PLASTICS INC., and C.I. Kasei Co., Ltd. The division is also strengthening initiatives for synthetic fiber intermediates manufacturing in China and methanol production in Brunei Darussalam.



## Contributing to Society and the Environment through Our Businesses

### Promoting Plant-derived Energy Business

Since 2008, ITOCHU and Bunge Limited, a major U.S. grain company, have conducted production and sales of sugar cane-derived bioethanol and sugar in the states of Minas Gerais and Tocantins in Brazil.



Bioethanol plant in Santa Juliana

Brazil is one of the world's major bioethanol producing countries, holding an approximate 30% share of global production. As bioethanol from sugar cane is generally far more effective in reducing greenhouse gases than bioethanol from other source materials, it has attracted high hopes as an ecofriendly fuel.

Going forward, plans call for increasing combined annual production from both projects to approximately 500 million liters. The two companies also plan to develop businesses such as power generation using bagasse as fuel and sales of related surplus electricity.

### Initiatives in Lithium-ion Battery-related Business

Through Simbol Materials, a U.S. company in which ITOCHU invested in June 2010, ITOCHU participated in the production of high-purity lithium carbonate for lithium-ion batteries (LiB).

High-purity lithium carbonate is used as a raw material for electrolyte salts (LiPF<sub>6</sub>) used in electrolyte solution, one of the main components for LiB. It is used in LiB for electric cars, stationary rechargeable batteries and in the clean energy field.

Also, together with KUREHA Corporation and KURARAY Co., Ltd., we are involved in the joint development and commercialization of hard carbon for LiB anode material including "Biocarbon," a new hard carbon material derived from plants.



Geothermal brine well in southern California