

# Business Outline of the Central Glass Group

## Corporate Outline (as of March 31, 2017)

<b>Company Name</b>	Central Glass Co., Ltd.
<b>Established</b>	October 10, 1936
<b>Number of Employees</b>	1,662 (7,236 consolidated)
<b>Capital</b>	18,168.28 million
<b>Listed Stock Exchange</b>	Tokyo Stock Exchange

## Europe

Carlex Glass Luxembourg, S.A. (Luxembourg)  
 Central Glass Germany GmbH (Germany)  
 Central Glass Europe Limited (UK)  
 Apollo Scientific Limited (UK)  
 Central Glass Czech s.r.o. (Czech)

## List of Workplaces

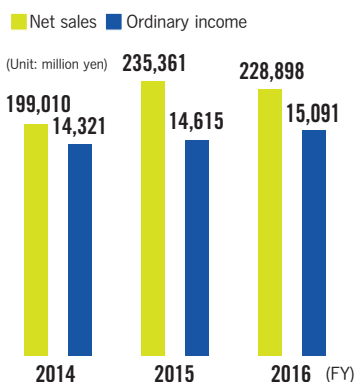
<b>Head Office</b>	Kowa-Hitotsubashi Bldg., 7-1 Kanda-Nishikicho 3-chome, Chiyoda-ku, Tokyo, Japan
<b>Chemical Research Center (Tokyo)</b>	17-5 Nakadai 2-chome, Kawagoe City, Saitama
<b>Chemical Research Center (Ube)</b>	5253 Okiube, Ube City, Yamaguchi
<b>Glass Research Center</b>	1510 Okuchi-cho, Matsusaka City, Mie
<b>Ube Plant</b>	5253 Okiube, Ube City, Yamaguchi
<b>Matsusaka Plant</b>	1521-2 Okuchi-cho, Matsusaka City, Mie
<b>Matsusaka Plant Sakai Mfg. Site</b>	6 Chikko-minamimachi, Sakai-ku, Sakai City, Osaka
<b>Kawasaki Plant</b>	10-2 Ukishima-cho, Kawasaki-ku, Kawasaki City, Kanagawa

## Asia

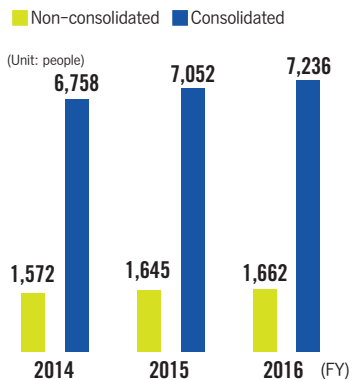
Taiwan Central Glass Co., Ltd. (Taiwan)  
 Central Glass (Zhangjiagang) Co., Ltd. (China)  
 Giga Gas & Electronic Materials Company (Taiwan)  
 Giga Gas & Electronic Materials Trading (Shanghai) Co., Ltd. (China)  
 Giga Gas & Electronic Materials (Singapore) Pte. Ltd. (Singapore)  
 Zhejiang Central Glass Chemspec Company Ltd. (China)  
 JCEL Co., Ltd. (South Korea)

Central Glass Trading (Shanghai) Co., Ltd. (China)  
 Central Glass Korea Co., Ltd. (South Korea)  
 Central Glass Company India Private Limited (India)  
 Yue Sheng Industrial Co., Ltd. (Taiwan)  
 Saint-Gobain Central Sekurit (Qingdao) Co., Ltd. (China)  
 Japan Vietnam Fertilizer Company (Vietnam)

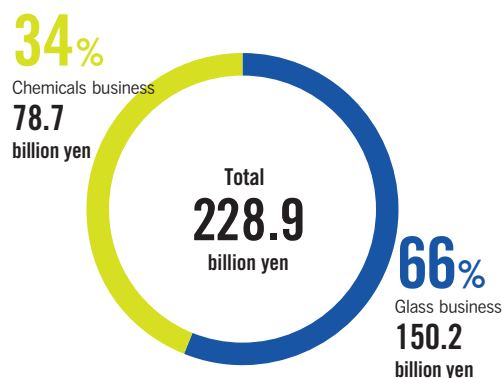
## Trends in net sales and ordinary income (consolidated)

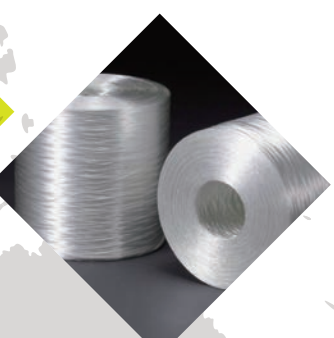


## Trends in the number of employees



## FY2016 sales by segment (consolidated)





Northwestern Industries, Inc. (US)  
 Central Glass America Inc. (US)  
 Central Glass International, Inc. (US)  
 SynQuest Laboratories, Inc. (US)

Central Glass Sale Co., Ltd.  
 Central Glass Engineering Co., Ltd.  
 Takada Co., Ltd.  
 Tohoku Garasu Kenzai Co., Ltd.  
 Bishu Silica Sand Co., Ltd.  
 Mie Glass Industry Co., Ltd.  
 Central Glass Plant Services Co., Ltd.  
 Central Saint-Gobain Co., Ltd.  
 Central Glass Module Co., Ltd.  
 Japan Tempered & Laminated Glass Co., Ltd.

Central Chemical Co., Ltd.  
 Central Glass Fiber Co., Ltd.  
 Tosho Central Co., Ltd.  
 Ube Trading Co., Ltd.  
 Sowa Transportation and Warehouse Co., Ltd.  
 Central Engineering Co., Ltd.  
 Ube Analytical Center Co., Ltd.  
 Ube Yoshino Gypsum Co., Ltd.  
 TOKUYAMA & CENTRAL SODA Inc.  
 Central Insulation Co., Ltd.

**Business Division/Segment/Major Products**

<b>Glass Business</b>	<b>Architectural glass</b>	Float glass, figured glass, wired glass, heat reflective glass, fabricated glass (tempered glass, heat-resistant glass, laminated glass, insulating glass units, security glass), mirrors, anti-fog mirrors, decorated glass
	<b>Automotive glass</b>	IR-cut glass, UV-cut glass, glass antennas, privacy glass, module glass, acoustic glass, glass with conductive heating defogger print, head-up display glass, and other various safety glasses
	<b>Glass for electronic materials</b>	Thin flat glass for LCDs, chemical tempered glass, powder glass and glass paste
<b>Chemicals Business</b>	<b>Basic chemicals</b>	Fluorocarbon products, polyaluminum chloride, gypsum, hydrofluoric acid
	<b>Fine chemicals</b>	Active ingredients & intermediates for pharmaceuticals/agrochemicals, fluorinated organic/inorganic compounds, high-purity fluorine gases, electronic materials, electrolytes for lithium-ion batteries, fluorinated organic/inorganic reagents
	<b>Fertilizers</b>	NPK compound fertilizer, NK compound fertilizer, coated fertilizer, organic chemical fertilizer, fertilizer materials, microbiological plant-protection agents/materials
	<b>Glass fibers</b>	Glass fibers, glass wool