Financial Results for 3Q(Nine months) of FYE 3/2020

Securities code: 4109





1. Consolidated Financial Results for 3Q(Nine months) of FYE 3/2020

- Financial Summary
- Breakdown of Non-Operating Profit and Loss/Extraordinary Profit and Loss
- Quarterly Operating Profit
- Sales Revenue and Operating Profit by Business
- Transitions in Trade Statistics Value of Anhydrous Hydrofluoric Acid
- Balance Sheet



<Financial Summary>

(In millions of yen)	3Q(Nine months) of FYE 3/2019	3Q(Nine months) of FYE 3/2020	Increase/ Decrease	Percentage Increase/ Decrease
Sales Revenue	28,734	24,731	-4,002	-13.9
Gross Profit	6,087	4,843	-1,243	-20.4
Operating Profit	2,887	1,649	-1,237	-42.9
Ordinary Profit	3,196	1,611	-1,585	-49.6
Quarterly Profit Attributable to Owners of Parent	1,980	1,094	-885	-44.7
Earnings Per Share (yen)	153.34	84.76	-68.58	-44.7
Capital Expenditures	2,503	2,652	148	5.9
Depreciation & Amortization	2,358	2,426	68	2.9
Research & Development Expenses	1,131	1,121	-9	-0.9



<Breakdown of Non-Operating Profit and Loss/Extraordinary Profit and Loss>

Non-Operating Profit and Loss

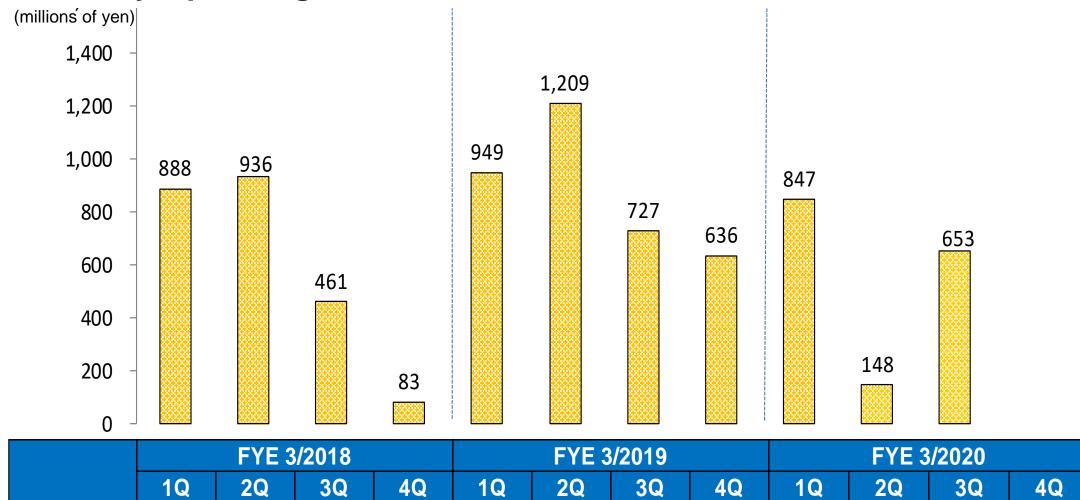
	(In millions of yen)	3Q(Nine months) of FYE 3/2019	3Q(Nine months) of FYE 3/2020
Non-Operating Profit		594	112
	Interest income	11	13
	Dividend income	2	2
	Foreign exchange gains	118	-
	Gain on valuation of Derivatives	310	16
	Other	151	80
No	n-Operating Expenses	285	150
	Interest expenses	26	24
	Foreign exchange losses	-	48
	Share of loss of entities accounted for using the equity method	234	34
	Other	24	42

Extraordinary Profit and Loss

	(In millions of yen)	3Q(Nine months) of FYE 3/2019	3Q(Nine months) of FYE 3/2020
E	ktraordinary Profit	14	34
	Gain on sales of non- current assets	13	34
	Other	0	0
E	xtraordinary Losses	93	91
	Loss on abandonment of non-current assets	93	91
	Loss on sales of non- current assets	-	0



<Quarterly Operating Profit>



Sales Revenue

Operating Profit

Operating Profit Margin

8,159

10.9%

888

8,561

10.9%

936

8,314

461

5.5%

8,587

1.0%

83

10,134

949

9.4%

9,323

1,209

13.0%

9,275

727

7.8%

9,733

847

8.7%

9,649

636

6.6%

7,406

148

2.0%

7,591

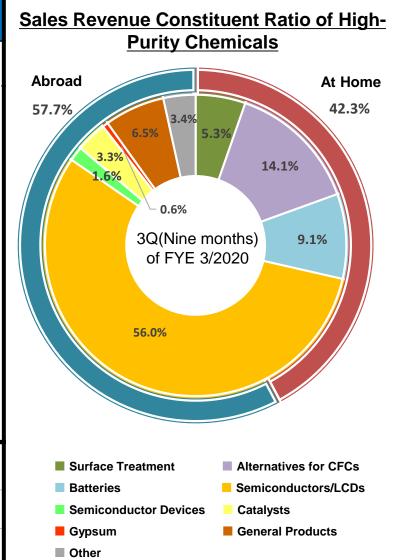
653

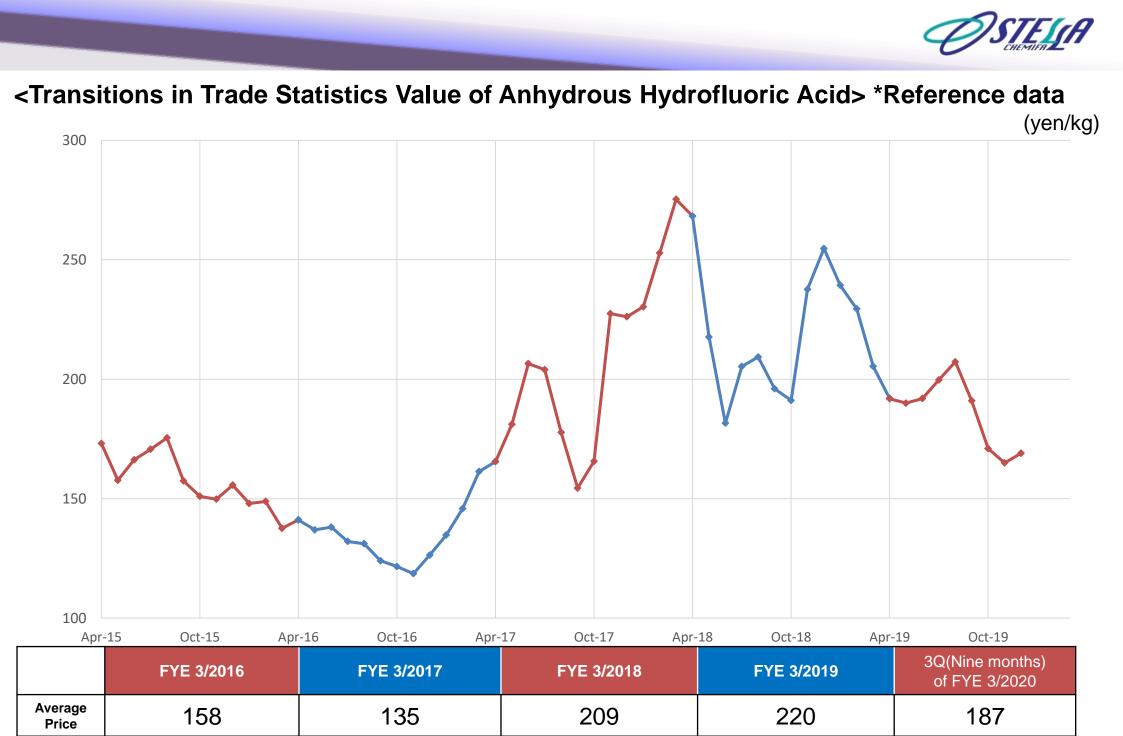
8.6%



<Sales Revenue and Operating Profit by Business>

(In millions of yen)			e months) 3/2019		e months) 3/2020		entage /Decrease	
		Sales Revenue	Operating Profit	Sales Revenue	Operating Profit	Sales Revenue	Operating Profit	
High-F Chemi	Purity ical Business	25,261	3,008	21,249	2,008	-15.9	-33.3	
[uv	Surface Treatment	1,672		1,135		-32.1		
[High-Purity Chemical Business: Breakdown]	Alternatives for CFCs	2,599		3,001		15.4		
: Bre	Batteries	2,897		1,933		-33.3		
siness	Semiconductors /LCDs	14,948		11,908		-20.3		
al Bu:	Semiconductor Devices	531		330		-37.8		
nemic	Catalysts	716		701		-2.0		
rity Ch	Gypsum	90		126		39.8		
nd-h	General Products	1,130		1,377		21.8		
[Hiç	Other	673		732		8.8		
Trans Busin	portation less	3,325	598	3,293	379	-1.0	-36.6	
Medic	al Business	_	-766	_	-768	_	_	
Other		147	29	188	24	28.4	-16.1	





Source: Prepared by our company based on the Ministry of Finance's "Trade Statistics of Japan" (http://www.customs.go.jp/toukei/info/)



<Balance Sheet>

(In millions of yen)	FYE 3/2019 End-of-Year	Dec.31,2019	Increase/ Decrease	Percentage Increase/ Decrease
Assets	55,454	51,061	-4,393	-7.9
Cash and deposits	14,044	10,692	-3,352	-23.9
Operating receivables	9,678	8,911	-767	-7.9
Inventory assets	6,183	5,654	-529	-8.6
Property, plant, and equipment	22,329	22,502	173	0.8
Intangible assets	565	644	79	14.1
Liabilities	21,536	17,232	-4,304	-20.0
Operating liabilities	4,562	3,106	-1,456	-31.9
Interest-bearing liabilities	11,069	10,236	-833	-7.5
Net Assets	33,918	33,829	-89	-0.3
Equity capital	32,821	33,046	225	0.7
Liabilities and Net Assets	55,454	51,061	-4,393	-7.9



2. Financial Forecast for FYE 3/2020

 Financial Forecast
 Forecast on Sales Revenue and Operating Profit by Business



<Financial Forecast>

* Released on Feb.7.2020

(In millions of yen)	FYE 3/2019 Actual	FYE 3/2020 Revised Forecast *	Percentage Increase/ Decrease	(Ref.) FYE 3/2020 Initial Forecast
Sales Revenue	38,384	32,200	-16.1	37,800
Gross Profit	7,931	6,000	-24.4	7,550
Operating Profit	3,523	2,100	-40.4	2,450
Ordinary Profit	3,810	2,050	-46.2	2,550
Profit Attributable to Owners of Parent	2,350	1,650	-29.8	1,700
Earnings Per Share (yen)	182.06	127.77	-29.8	131.65
Dividend (yen)	45	45	-	45
ROE (%)	7.3	5.0	-31.9	5.1
Capital Expenditures	4,435	3,320	-25.2	4,580
Depreciation & Amortization	3,253	3,220	-1.0	3,490
Research & Development Expenses	1,566	1,520	-3.0	1,770

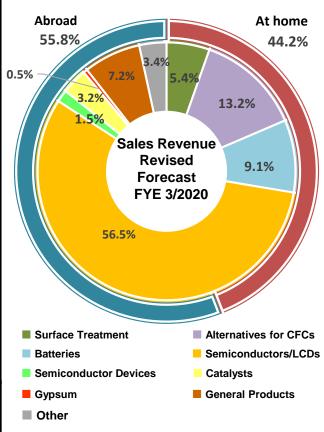


<Forecast on Sales Revenue and Operating Profit by Business>

* Released on Feb.7.2020

FYE 3/2020 Percentage (Ref.) FYE 3/2019 FYE 3/2020 Revised Increase/ Actual Forecast * Decrease Initial Forecast Sales Operating Sales Operating Sales Sales Operating Operating Revenue Profit Revenue **Profit** Profit Profit Revenue Revenue **High-Purity** 33,776 3,782 27,600 2,630 -18.3 -30.533,020 2,880 Chemical Business Surface Breakdown] 2,080 1,490 -28.41,730 Treatment Alternatives 3.618 3,630 0.3 3,500 for CFCs **Batteries** 3.629 2,510 -30.82.700 Chemical Business: Semiconduct 20,093 15,600 20,410 -22.4ors/LCDs Semiconduct 633 420 -33.7530 or Devices Catalysts 904 890 -1.6 840 [High-Purity Gypsum 176 140 -20.7150 General 1,762 1,980 12.3 2,360 Products Other 876 7.2 940 800 **Transportation** 726 -0.7 4,382 4,350 490 -32.6 4,570 760 Business -1,051 **Medical Business** -1.050 -1,220 _ — 10.7 Other 225 42 250 30 -28.8 210 30

Sales Revenue Constituent Ratio of High-Purity Chemicals





3. STELLA CHEMIFA CORPORATION

- Corporate Profile/Sales Office Locations/Plant Locations (as of December 31, 2019)
- List of Affiliated Companies
- High-Purity Chemical Business



<Corporate Profile/Sales Office Locations/Plant Locations(as of December 31, 2019)>

♦ Corporate Profile

Corporate Name Head Office	STELLA CHEMIFA CORPORATION Meiji Yasuda Seimei Osaka Midosuji Bldg. 10F,
Tiead Onice	4-1-1 Fushimi-machi, Chuo-ku, Osaka City,
	Osaka
Founded	February 1916
Established	February 1944
Capital Fund	4,829,782,512 yen
Representatives	Chairperson, Representative Director: Junko Fukada
	Representative Director,
	President and Chief Executive Officer: Aki Hashimoto
	Representative Director, Senior Managing Executive Officer
	(Products Management Group): Kiyonori Saka
URL	https://www.stella-chemifa.co.jp/



Sales Offices

Osaka Sales Department Meiji Yasuda Seimei Osaka Midosuji Bldg. 10F, 4-1-1 Fushimi-machi, Chuo-ku, Osaka City, Osaka Tokyo Sales Department Marunouchi Trust Tower North 12F, 1-8-1 Marunouchi, Chiyoda-ku, Tokyo

Factory Addresses

Sanpo Factory Izumi Factory Kitakyushu Factory 7-227 Kaisan-cho, Sakai-ku, Sakai City, Osaka 1-41 Rinkai-cho, Izumiotsu City, Osaka 1-1 Kurosakishiroishi, Yahatanishi-ku, Kitakyushu City, Fukuoka



<List of Affiliated Companies>

Base	Logo	Corporate Name	Business Segment	Head office
	OSTELLA	STELLA CHEMIFA CORPORATION	High-Purity Chemical Business	Osaka, Japan
At home	Oblue express	BLUE EXPRESS, Inc.	Transportation Business	Osaka, Japan
At h	OBLUE AUTZ TRUST	BLUE AUTO TRUST Co., Ltd.	Other Business	Osaka, Japan
	😂 ステラ ファーマ株式会社	STELLA PHARMA CORPORATION	Medical Business	Osaka, Japan
	Ostella: singapore	STELLA CHEMIFA SINGAPORE PTE LTD	High-Purity Chemical Business	Singapore
	Ø BLUE EXPRESS	STELLA EXPRESS PTE LTD	Transportation Business	Singapore
pa	Ø BLUE EXPRESS	Blue Express (Shanghai) International Trade Inc.	High-Purity Chemical Business	China
Abroad	O BLUE EXPRESS	Blue Express (Shanghai) International Freight Forwarding Co., Ltd.		China
4		Zhejiang Blue Star Chemical Co., Ltd.	High-Purity Chemical Business	China
	FECT	FECT CO.,LTD	High-Purity Chemical Business	South Korea
	Quzhou BDX New Chemical Materials Co., Ltd.		High-Purity Chemical Business	China



<High-Purity Chemical Business>

Our products, fluorine compounds, are still used in the manufacture of various products.

Segment Name	Main Product	Applications		
Surface treatment	Hydrofluoric acid for industrial use	Used for acid cleaning of stainless steel and for thinning glass substrates for LCDs		
Alternatives for CFCs	Anhydrous hydrofluoric acid	Material for chlorofluorocarbon and fluorine resin		
Batteries Additive for batteries Lithium hexafluorophosphate		Additive for electrolytes to improve the performance of lithium- ion secondary batteries Electrolyte for lithium-ion secondary batteries		
Semiconductors and	High-purity hydrofluoric acid	Cleaning solution for silicon wafers and LCDs		
LCDs	High-purity buffered hydrofluoric acid	Solar batteries		
Semiconductor	High-purity fluoride (CaF ₂ , PbF ₂ , MgF ₂ , AIF ₃ and others)	Lens material for i-line steppers and cameras		
devices	Potassium fluoride	Auxiliary agent for manufacturing tantalum for tantalum capacitors		
General Products	Tin fluoride	Quasi-drug		



Semiconductors and LCDs

- Features of Our Products and New Products
- Results and Forecast of World Semiconductor Market Scale by Product
- Development of a New Memory Market
- Maintenance and Strengthening of Quality Edge
- Change of Shipping Volume of High-Purity Hydrofluoric Acid (Semiconductors and LCDs)



<Features of Our Products and New Products>

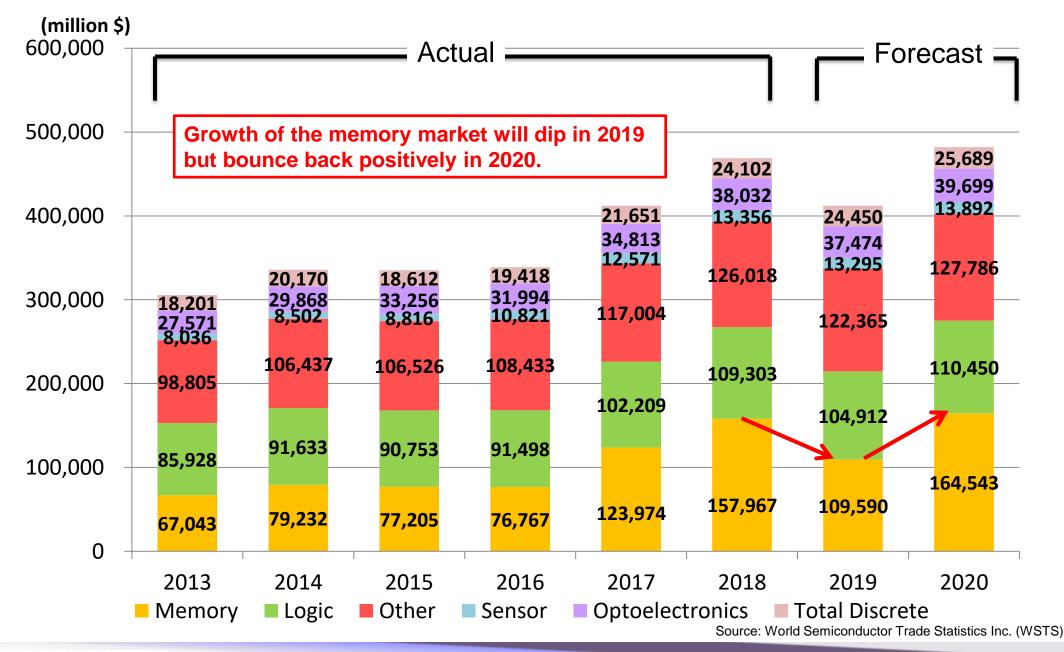
- (1) With our ultra-purification technology and ultra sensitive technology, we are able to supply the ultra-high-purity hydrofluoric acid and the ultra-high-purity buffered hydrofluoric acid with the best quality in the world.
- (2) Products Lineups are readied to respond the customer requirements, including like suppression of adhering particles, and suppression of increased roughness of wafer surfaces, and others.

Product name (Semiconductors and LCDs)		Description				
Ultra acid	a-high-purity hydrofluoric d	An ultra-high-purity chemical used for wet cleaning of silicon wafers in manufacturing semiconductors, FPDs, solar batteries, and MEMS				
	a-high-purity buffered rofluoric acid	A chemical mixed with 50% hydrofluoric acid and 40% ammonium fluoride solutions				
	LL BHF	BHF with various functionalities made possible by adding a surfactant				
	LAL BHF	BHF that contains a surfactant has enabled it to achieve extended service life and given other advantages by optimizing the concentration of ammonium fluoride at 15% to 25%, about half the concentration of ammonium fluoride contained in conventional BHF.				
	Ex-LAL BHF	An environmentally friendly BHF with a maximum ammonium fluoride concentration of 5% and added surface-active properties that give it a longer life than any other type of BHF				
HS	N Series	A functional BHF for etching silicon nitride with selectivity to silicon oxide, which is expected to be mainly used in the next-generation DRAM manufacturing process				
LPI	LBHF	A silicon oxide etchant with minimum damage to silicon or polysilicon film				

Joint development of etchant for next-generation non-silicon semiconductor wafers is currently underway.



<Results and Forecast of World Semiconductor Market Scale by Product>





<Development of a New Memory Market>

Manufacturer	Base Name	Produced Item	Wafer Size	Production Capacity	Plan
Samsung Electronics	X2	3D-NAND	12 inches	70K wafers/month	Planning to increase production from the current 5K wafers/month to 30K wafers/month by the end of 2019. Looking to increase production to 60K wafers/month by the end of 2020.
	P2	DRAM	12 inches	40K wafers/month	Planning to install equipment in February 2020 and produce 40K wafers/month by the end of 2020.
	M15	3D-NAND	12 inches	25K wafers/month	Planning to produce 50K wafers/month by the end of 2020.
SK Hynix	M16	DRAM/NAND	12 inches		Slated to be completed in the second half of 2020.
	C2F	DRAM	12 inches	130K wafers/month	Currently 40K wafers/month.
	Y6	3D-NAND	12 inches		Phase 2 trial production started.
Kioxia	K1	3D-NAND	12 inches		Planning to start phase 1 trial production by the end of 2020 (7.5K wafers/month).
	Y7	3D-NAND	12 inches		Construction to start in December 2020 and be completed in 2022.
	Fab2	DRAM	12 inches		Slated to go partially online at the end of 2019.
Micron Technology	Fab10	3D-NAND	12 inches		Opening ceremony held in August 2019.
Micron reciniology	Fab15	DRAM	12 inches		Investments still being made.
	Fab16	DRAM	12 inches		Construction of new building started.
ChangXin Memory Technologies (CXMT)	Phase1	DRAM	12 inches	10K wafers/month	Trial production started.
Yangtze Memory Technology (YMTC)	Phase1	3D-NAND	12 inches	20K wafers/month	Trial production started.

Source: STELLA CHEMIFA

The Chinese market, where large-scale investments have been made in new memory factories, is losing steam in FYE 3/2020 due to the U.S.-China trade friction but it is expected to grow in FYE 3/2021 despite some uncertainties.

Semiconductor-related investments remain strong in Japan, Taiwan, and Korea, and widespread use of 5G, IoT and AI is expected to keep demand for memory products up.

We will implement aggressive sales strategies in the memory market.



<Maintenance and Strengthening of Quality Edge>

♦ SA Grade HF quality ◆

Product technology generation	≥45 nm	28 nm	≤16 nm
Our product grade	SA/SA-X	SA-XX	SA-XXX
Metal impurities level	<100 ppt	< 10 ppt	< 1 ppt Succeeded in ultra-high-purity
Management size of particle	0.2/0.1um	0.05um	0.03um
Size of particle	<u></u>	rther strengthen	ing particle management

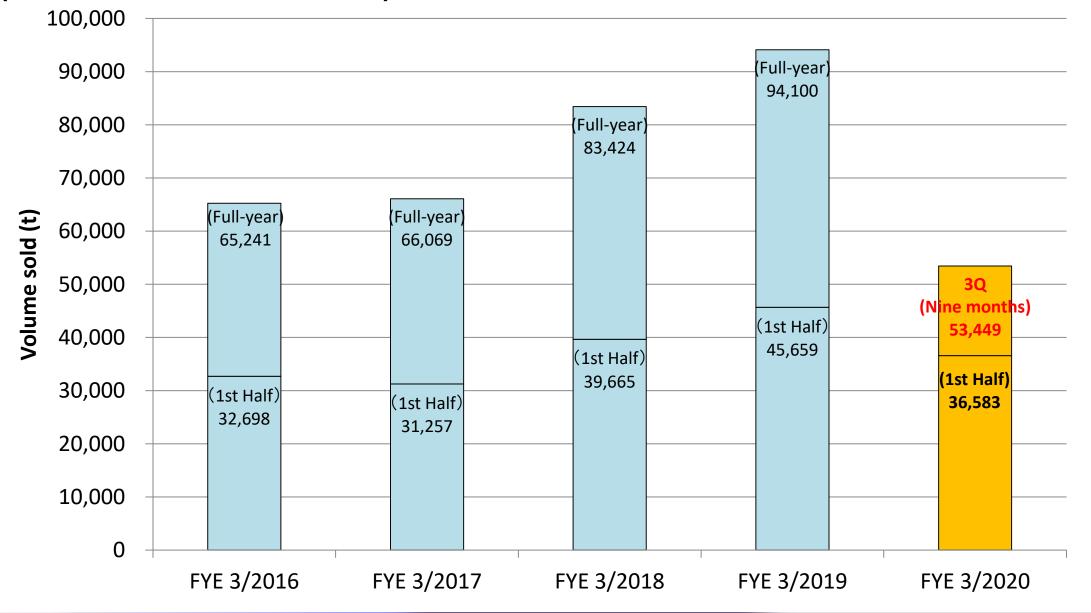
With Introducing the world's most advanced analytical instruments.



Liquid-borne particle counter



<Change of Shipping Volume of High-Purity Hydrofluoric Acid (Semiconductors and LCDs)>





Batteries

- Features of Our Products/Business Development in China
- Widespread Use of EVs and the Future of Mobility
- EV Applications Drive LiB Market Growth
- Construction Rush for Giant Battery Plants
- Sales Results and Forecast of Additives for LiB



<Features of Our Products>

- (1) Used as main material comprising the lithium-ion secondary batteries and commercialized ahead of other companies.
- (2) Because of the product's high purity, it is being used for high-performance lithium-ion secondary batteries.

Product Name (Related to Batteries)	Description	
Additive for batteries	Additive for electrolytic solution to improve the performance of lithium-ion secondary batteries	
Lithium hexafluorophosphate	Electrolyte for lithium-ion secondary batteries	

<Business Development in China>



- Quzhou BDX New Chemical Materials Co., Ltd. (established in December 2015)
- Capital fund: 95 million Chinese yuan (STELLA CHEMIFA's stake: 25%) *As of September 30, 2019
- Some of the facilities used to manufacture electrolytes for lithiumion secondary batteries were relocated to this joint venture company. (Maximum production capacity: 1,300 t/year) The joint venture company uses the relocated facilities to produce electrolytes for lithium-ion secondary batteries and sells them in and outside China.



<Widespread Use of EVs and the Future of Mobility>

Environmental (emissions) regulations of different countries and industrial development

 \Rightarrow Diffusion policies with subsidies

Contributing to the development of the EV market

Development of a new mobility society

- Enhanced convenience in urban means of transport
- CASE; advancement and electrification of vehicle controls
- Maas; spurring new mobility businesses

CASE (Connected, Autonomous, Shared, Electric) Maas (Mobility as a Service)

Development of social systems designed for EVs will drive EV sales up

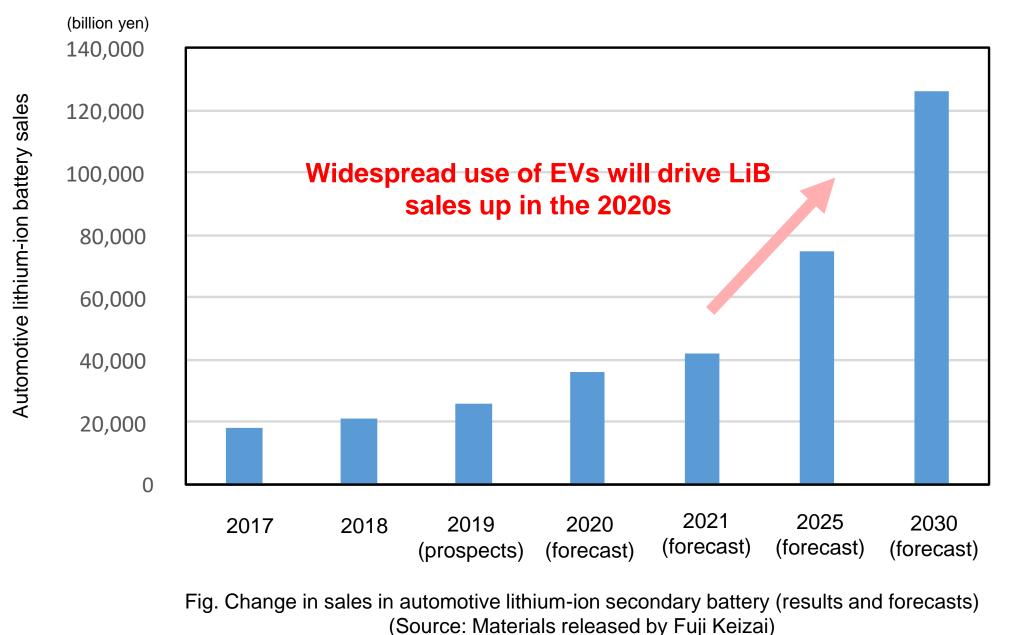




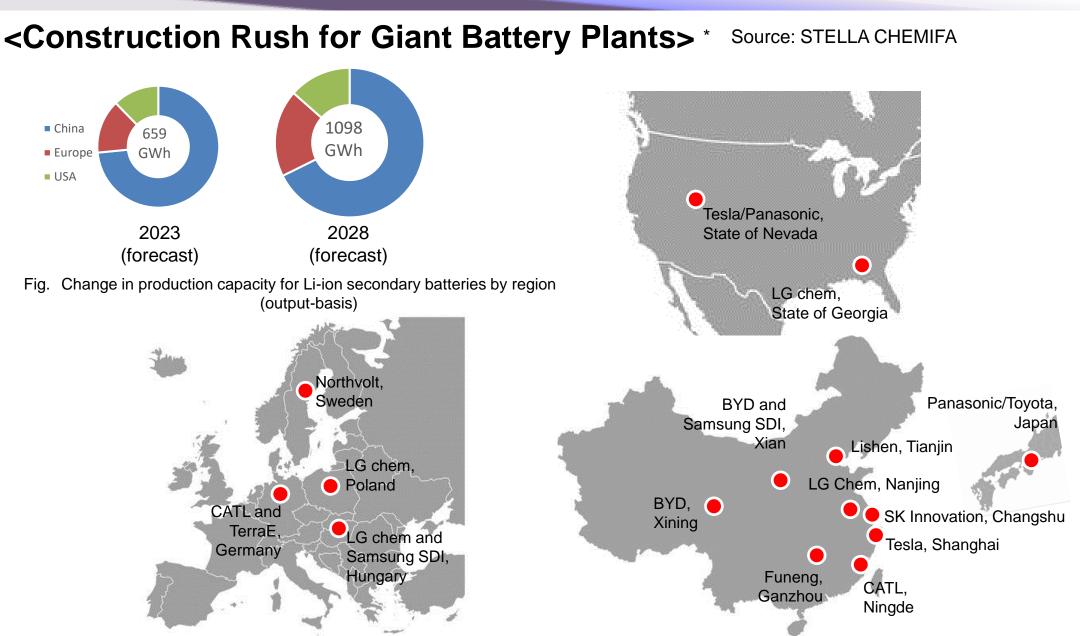




<EV Applications Drive LiB Market Growth>



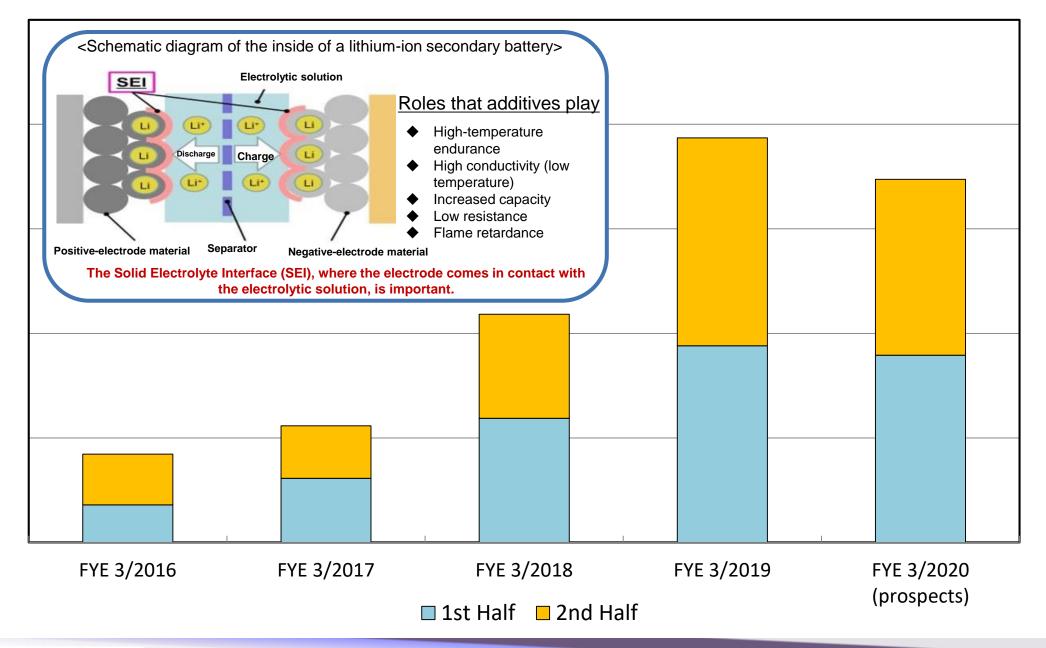




The medium-term demand for batteries for EVs will be supplied by Giga plants, which are being constructed around the world



<Sales Results and Forecast of Additives for LiB>





GMP-related

GMP (Good Manufacturing Practice)
 Oral Care-related ~ Tin Fluoride (SnF2) ~



< GMP (Good Manufacturing Practice) >

The GMP inspection by USFDA for tin fluoride, an active ingredient of OTC anticaries drugs, was completed in November 2017.

Obtained official approval by a public organization in the US



Started selling GMPcertified products in 2018



Inside Izumi Factory (Izumiotsu City, Osaka)

Standards for Manufacturing Control and Quality Control for Drugs and Quasi-drugs

Three principles:

"Reducing human errors to the lowest level"

"Preventing contamination and product quality loss"

"Designing systems to assure high product quality"



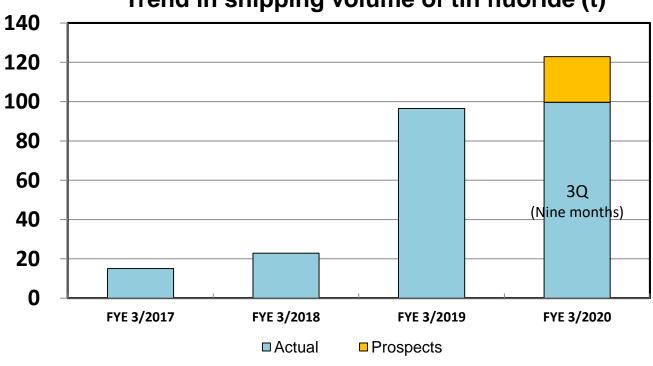
<Oral Care-related ~ Tin Fluoride (SnF2) ~>

<Actions of fluorine on teeth>

- To suppress Streptococcus mutans from producing acid (Cavity prevention)
- To promote tooth remineralization
- To form acid-resistant teeth (to form fluorapatite)

We expect to see big demand mainly in Europe and the US, where there is strong interest in dental health and beauty.





Trend in shipping volume of tin fluoride (t)



4. Medical Business

- Corporate Profile (as of December 31, 2019)
- Development of New Radiotherapy Technology -BNCT-
- Establishment of Enrichment Technology/Features of Enriched Boron/Applications of Enriched Boron Compounds
- Filing of Marketing Application of Head and Neck Cancer Drug
- Updates on the Development of SPM-011
- Clinical Trials for Melanoma and Angiosarcoma
- Participation in Development of Imaging Diagnostic Technology - PET Diagnosis -



<Corporate Profile (as of December 31, 2019)>

Corporate name STELLA PHARMA CORPORATION

Head Office 3-2-7 Koraibashi, Chuo-ku, Osaka City, Osaka

Representative President: Tomoyuki Asano

Established June 2007

Capital Fund 1,900,000,000 yen

Business Lineup Research and Development, Manufacture, and Marketing etc. of Drugs and Medical Devices

Shareholders STELLA CHEMIFA CORPORATION INCJ, Ltd. Sumitomo Heavy Industries, Ltd.

Research Facility Sakai Drug Discovery Research Center (Naka-ku, Sakai City, Osaka)

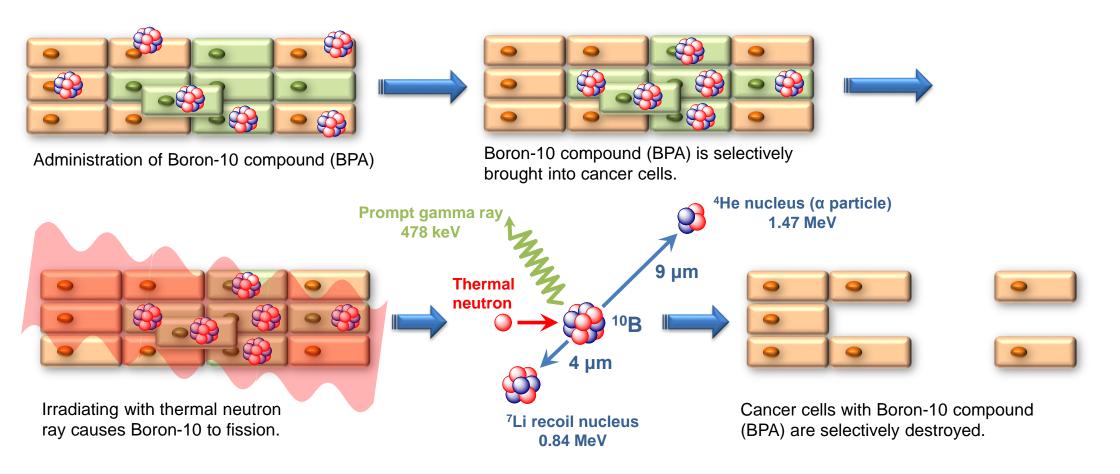


STELLA PHARMA



<Development of New Radiotherapy Technology -BNCT->

Boron Neutron Capture Therapy (BNCT) is a particle beam radiation therapy, which specifically damages cancer cells by making the best of nuclear fission reactions between boron-10 and thermal neutrons with low energy.

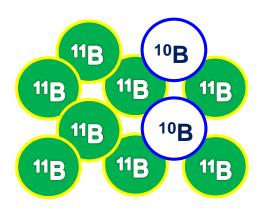




<Establishment of Enrichment Technology/Features of Enriched Boron/ Applications of Enriched Boron Compounds>

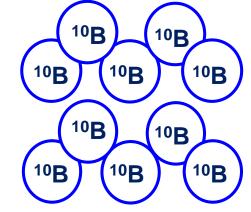
Establishment of enrichment technology

STELLA CHEMIFA established mass production technology of 10B for the first time in Japan. In November 2000, the only enrichment plant in Japan was established.









<The only ¹⁰B enrichment plant in Japan> (completed in November 2000)

Features of enriched boron

10B offers properties of remarkably high neutron absorption capacity, and by increasing 10B concentration, the absorption capacity is improved significantly.

Applications of Enriched Boron Compounds

Enrichment and

separation

- Neutron-absorbing material of spent nuclear fuel transportation and storage containers
- Material of control rods of nuclear reactors and rack material of spent nuclear fuel pools
- Excess reaction control of pressurized-water reactors by dissolving into primary cooling water.
- Cancer drug for boron neutron capture therapy (BNCT)



<Filing of Marketing Application of Head and Neck Cancer</p> Drug>

In October 2019, Stella Pharma filed a marketing application for boron-based drug (Development Code: SPM-011) for BNCT based on the results of a phase II study for head and neck cancer^{*1} conducted in Japan.

Since the boron-based drug for treatment of head and neck cancer has been designated as a product subject to the Prioritized Review System for innovative medicines (SAKIGAKE Designation System), it will be given priority in the approval application and reviewed more quickly than usual.

*1 Head and neck cancer: We conducted a phase II study in Japan for the treatment of unresectable locally recurrent head and neck cancer and unresectable advanced non-squamous cell carcinoma of the head and neck.

Characteristics of head and neck cancer

A group of cancers that develops in the facial area below the brain and above the collarbone, such as the nose, mouth, throat, upper or lower jaw, or ear, which is typically the area where the organs that allow us to lead our normal daily lives are located.



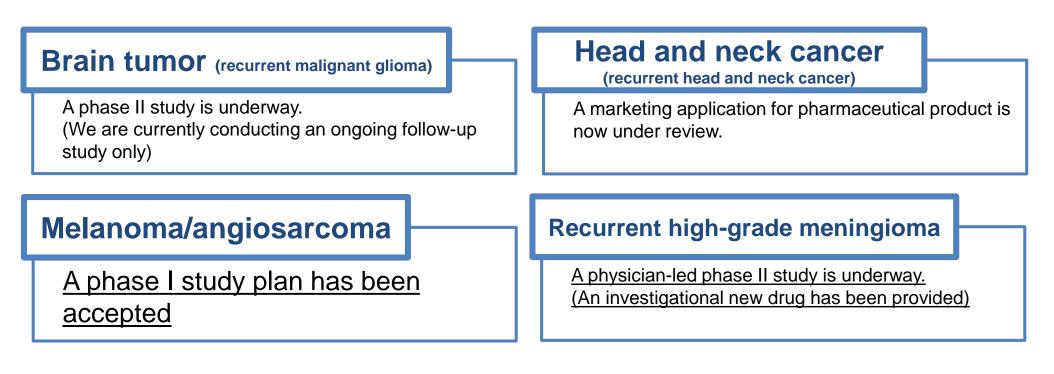
Development of treatment methods that enable the conservation of important organ functions and maintain QOL^{*2} is needed.

*2 QOL: QOL, an acronym for quality of life, means the overall quality of the physical, mental, social, and economic aspects of a patient's life.



<Updates on Development of SPM-011>

In order to expand the possibility of BNCT that uses SPM-011, Stella Pharma has established organizations that are conducting R&D on the target diseases and the treatment system used for BNCT.



<<Flow chart of planned steps from clinical trial to approval application>>

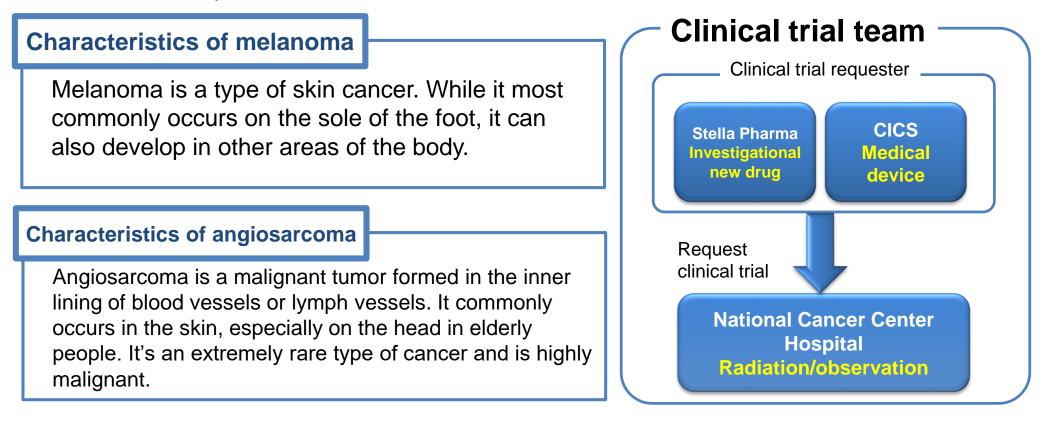
Phase I study	Phase II study	Approval application
Neutron dose is increased stepwise to check safety.	Verification of the effect at the determined do	ose.



<Clinical Trials for Melanoma and Angiosarcoma>

Working jointly with Cancer Intelligence Care Systems, Inc. (CICS), Stella Pharma will begin its phase I study for melanoma and angiosarcoma. (The clinical trial plan has been accepted).

The study will use the CICS-1, a new medical device designed for BNCT, which was installed at the National Cancer Center Hospital during a joint development project conducted by CICS and the hospital.



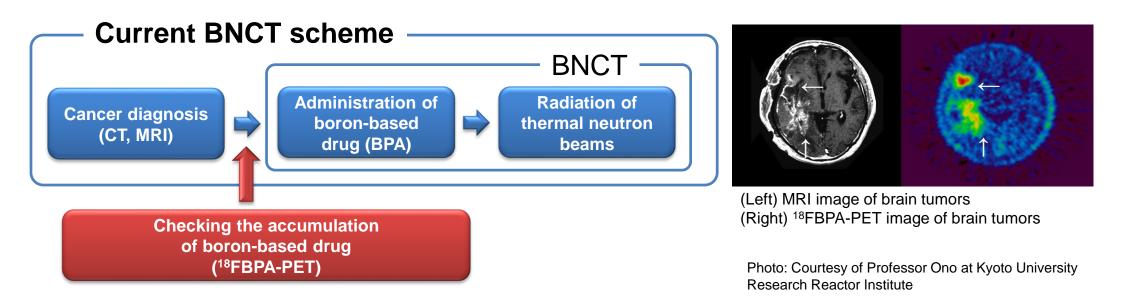


<Participation in Development of Imaging Diagnostic Technology - PET Diagnosis ->

The "PET diagnosis" that attracts attention as a technology useful for the early detection of cancers. We have undertaken the development of ¹⁸FBPA, which has been studied as a new drug to be used for the technology.

Features of ¹⁸FBPA-PET

☆ It is expected that ¹⁸FBPA-PET will contribute to the development of BNCT because the accumulation of the boron-based drug against cancer can be checked beforehand (before treatment).





5. Transportation Business

- Corporate Profile (as of December 31, 2019)
- Transportation System by Cooperation with Domestic Bases
- > Overseas Bases
- Activity Policy 1
- Activity Policy 2
- Activity Policy 3



<Corporate Profile (as of December 31, 2019)>

Corporate Name	BLUE EXPRESS CORPORATION
Head Office	10 Ohamanishi-machi, Sakai-ku, Sakai City, Osaka
Representative	Representative Director and President: Kiyonori Saka
Established	June 1991
Capital Fund	350,000,000 yen
Business Lineup	Common motor trucking/International intermodal transport Warehousing/Customs clearing agent/Sales, rental and lease of containers, tanks, etc. Automobile maintenance services/Business related to life insurance and non-life insurance agent, etc.

URL http://www.blue-express.co.jp/





<Transportation System by Cooperation with Domestic Bases>



Customs clearance sites

Yokohama Office Osaka Office Ohama Office Shipping terminals

Sendai Office Kanto Office Yokohama Office Shimizu Office Nagoya Office Ohama Office Kobe Office Kitakyushu Office





<Overseas Bases>



Singapore

Stella Express (Singapore) Pte Ltd



Beyond the Chemical P.42

China (Shanghai)

Blue Express (Shanghai) International Trade Inc.

Blue Express (Shanghai) International Freight Forwarding Co., Ltd.





<Activity Policy 1>

1. To enhance compliance capability

- O To stop reckless driving and overworking through the use of dashboard cameras and digital tachographs, and revisions to fleet tracking operations, etc.
- O To improve long-haul transportation (consider changing mode of transport) in order to mitigate excessive driver workload
 - Our mission is to pioneer the future of logistics services with an eye to discovering a better tomorrow and an undying commitment to the pursuit of safety and sustainability.
 - All our offices have been G-Mark certified (given to business establishments with excellent safety standards)
 - Obtained ISO 14001

Certificate No.: JQA-EM5789 Certified locations: Headquarter, Sanpo Office Transport Section Yokohama Office, and Warehouse Division Operations covered: Freight transportation, warehousing, container services, and customs clearance





- Ensure compliance across the Blue Express Group
 - ► Blue Auto Trust Co., Ltd.
 - ► Blue Express (Shanghai) International Freight Forwarding Co., Ltd.
 - Blue Express (Shanghai) International Trade Inc.
 - Stella Express (Singapore) Pte Ltd



<Activity Policy 2>

2. To carry out intra-group operations with a focus on safety and accuracy

- O Working in line with Stella Chemifa's business policies, make investments aimed at relocating and expanding offices that serve as our transportation hubs and systematically hire drivers and customs specialists with an eye to enhancing the safety and accuracy of intra-group logistics.
- O To work on the effective use of buildings to prepare for future transport volume growth.



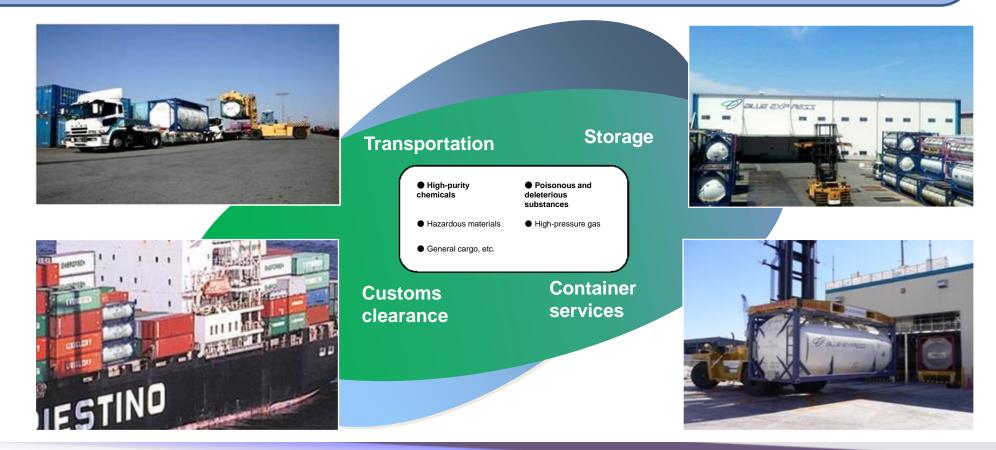
(completed in October 2014)

Headquarters new hazardous materials warehouse (completed in December 2018)



<Activity Policy 3>

- 3. To seek international intermodal logistics services and make business deals with a keen focus on profits.
 - O To, as a hazardous materials transport expert, seek added value for international intermodal logistics services, which includes transport, customs clearance, and container services.
 - O To make business deals with a keen focus on profits
 - O To focus on business transactions aimed at ensuring optimal operations





6. Future Activities

- R&D Initiatives
- Functional Fluoride 1
- Functional Fluoride 2
- Future Energy Devices 1
- Future Energy Devices 2
- Future Energy Devices 3
- Chemicals for Future Semiconductor Device Manufacturing



<R&D Initiatives>

Functional Fluoride

Applying fluorine technology to light-emitting devices, etc.

Future Energy Devices

Development and proposal of materials for next future batteries

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Chemicals for Future Semiconductor Device Manufacturing

For LSI miniaturization technology that supports an IT-driven society



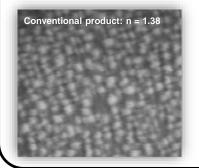
<Functional Fluoride 1>

Low refractive index materials

Fluoride nanoparticles with low refractive index for antireflection coatings

Ensures antireflection and other optical functions of cutting-edge devices without compromising the design





Development of Fluoride nanoparticle dispersion with low refractive index

Newly developed product: n ≤ 1.35

Dental materials

Fluoride nanoparticles for dental composite resins

(1) Radiolucency

(2) Transparency



HENTIFA

Conventional
resinNano fluoride
resinAddresses treatments with better
aesthetics

Easy-to-identify boundary Between dentino and dental fillings



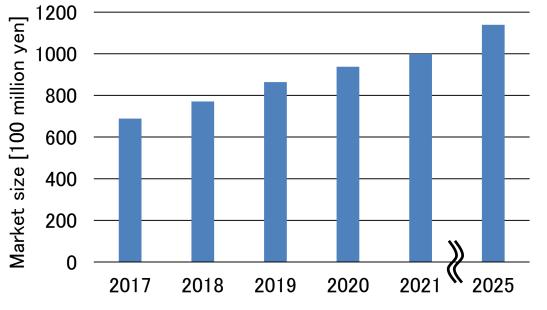
Applicable to CADCAM blocks



<Functional Fluoride 2>

Phosphor Materials

Development of high-efficiency, long-life fluoride phosphor materials utilizing our company's core technology



Source: 2018 Comprehensive Survey on LED/LD Market (Fuji Chimera Research Institute, Inc.)

Market Forecast of Phosphors for LEDs (prospect for 2018 and later)

Demands also increasing for Mini LEDs and PIDs (Public Information Displays)

Under evaluation by customers

Time	Terminal	Z De	partures		-
2005	То	Flight	Gate Remarks	×	Terminal
2020	Trivandrum	SQ5398	E10 Gate Closing	Time	To
2020	Cochin	SQ5368	E1 Gate Closing	2100	Auckland
and the second se	Mumbai	NH6276	E27 Gate Closing	2100	Kolkata
2025	Hyderabad	AI6438		2110	Brisbane
2030	Sydney	SQ 221	enosing	2120	Kuala Lumpu
2030	Chennai	NH6282	earce crosning	2120	Jakarta
2035	Dhaka		F58 Gate Open	2130	Coimbatore
2040	Tokyo-Narita	SQ 436	F56 Gate Closing	2200	via Dubai
2045	Male	SQ 632	E26 Last Call	2310	Brisbane
2100		SQ 452	E22 Gate Closing	2350	London-Heat
	Melbourne	LH9774	E20 Gate Open	2335	via Milan-Malpen
We	Icome to Changi Airport You	are in Terminal 2	02 Nov 2007, 20:20	We	kome to Changi Airport Ye





No light emission

Light emitting state

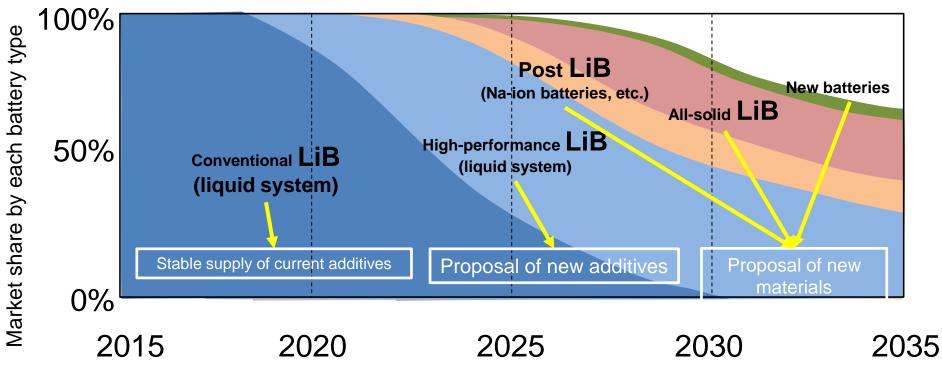
Our fluoride phosphor materials





<Future Energy Devices 1>

Approaches to the Battery Roadmap



Source: STELLA CHEMIFA

[year]

Fig. Image for future changes in battery technology

Focusing on the development of new materials for post lithium-ion battery technologies



<Future Energy Devices 2>

Development of high-performance LiB materials

Improvement of battery performance and durability in EV batteries

Positive electrode

Negative electrode

Electrolyte



Proposing materials for electrode

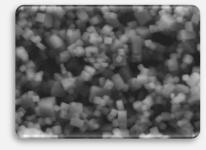


Image of electrode additive





Proposing materials for electrolyte



Appearance of a new additive

Evaluation is ongoing for proposed materials that have been finetuned to customers' battery systems.



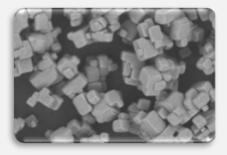
<Future Energy Devices 3>

Proposing materials for post lithium-ion secondary batteries

Metal-ion secondary batteries

High-purity electrolytes for other types of ion batteries, such as sodium- or calcium-ion batteries





High-purity electrolyte

Mass production of high-purity electrolytes

All-solid lithium-ion secondary batteries

All-solid lithium-ion battery materials designed for enhanced safety

Fluoride-ion secondary batteries

Fluoride-ion conductor and electrode materials



Material for all-solid battery electrode

Evaluation of products under development following the establishment of evaluation system



Fluoride-ion conductor material



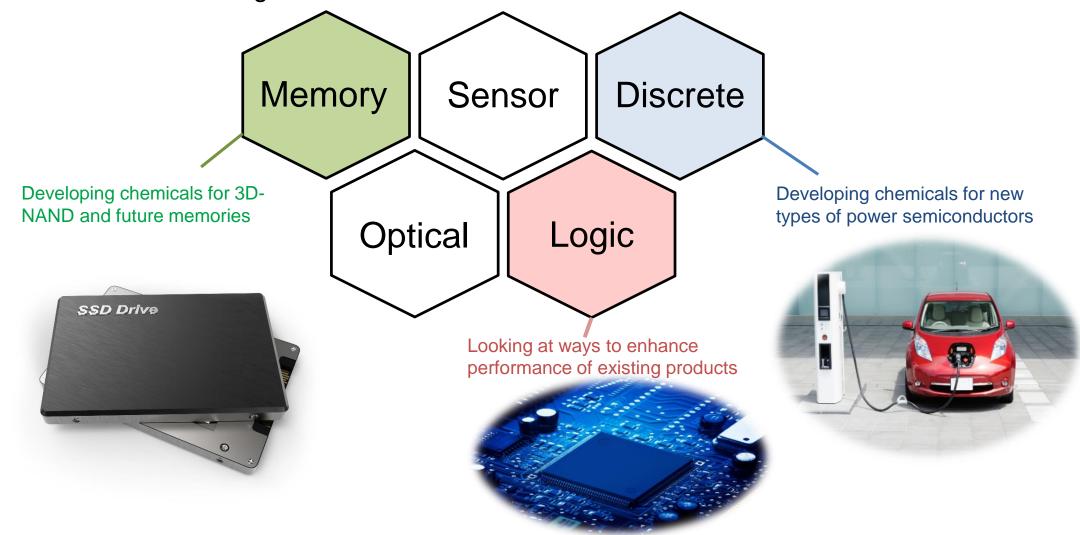
Molded electrolyte

Applying core technologies to make candidate materials for more future secondary batteries



<Chemicals for Future Semiconductor Device Manufacturing>

Working with customers and universities to develop chemicals for future semiconductor device manufacturing





Corporate slogan

Beyond the Chemical Beyond the Chemical

We are drawing upon our strengths in the chemical field, whose growth we have nurtured so far, and moving toward even greater development in the future.







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