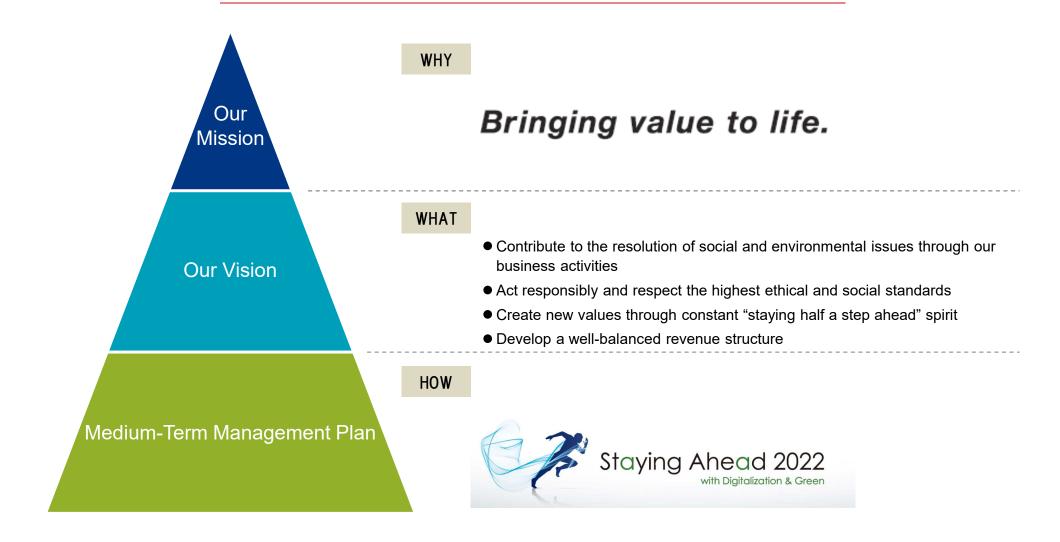
# FACT BOOK I 2019

Segment Business Data April 26, 2019



# NYK Group Values

# "Integrity" "Innovation" "Intensity"

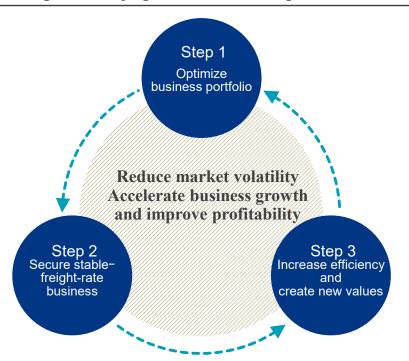


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Notes: NYK judges the estimates and targets included herein to be rational at the time these materials were prepared. However, please be aware that actual performance could vary from the projections contained in this document.



#### Basic strategies of "Staying Ahead 2022 with Digitalization and Green"



Step 1

Reconfigure business portfolio to withstand volatile market conditions

- ◆Decisively reform the dry-bulk business
- ◆Lead the new container JV (ONE) to success
- Step 2

Develop well-balanced revenue structure

- ◆Leverage logistics capabilities with YLK
- ◆Strengthen car carrier and auto-logistics businesses
- ◆Reinforce LNG and offshore businesses
- Step 3

Accelerate growth by constantly improving our technological, informational and network capabilities

◆Implement Digitalization and Green initiatives

#### **Dividend policy**

 Basic policy for the return of profits to shareholders is to pay stable dividends aiming for a payout ratio of 25% on a consolidated basis

#### **Earnings and financial targets**

	FY2017 Results	Medium-Term Target (by FY2022)
Recurring Profit	¥28 billion	¥70∼100 billion
ROE	3.8%	min 8.0%
Equity Ratio	26.6%	min 30%
DER	1.78	1.5 or lower
Exchange rate (1US\$)	¥111.19	¥105
Bunker oil prices (1MT):	\$341.41	HSFO \$320 LSGO \$620 <sup>*</sup>

\*HSFO = High Sulphur Fuel Oil / LSGO = Low Sulphur Gas Oil

#### To achieve ROE target



# **Cash Flow Management**

Outlook for cash flow allocation (5 years cumulative FY2018-22)

Operating cash flow ¥570 billion

Cash generation by asset liquidation
Reduce stockholdings
Review and effectively utilize real estates

Capital investment
¥520 billion

Debt repayment

Shareholder returns

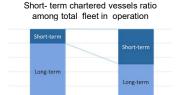


# Dry-bulk

Decisively reform dry-bulk business and improve its profitability

#### Strengthen business structure to withstand volatile market conditions

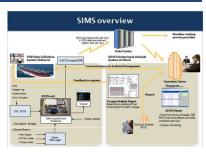
- Strictly control market risk exposure
- Separate owner/operator functions in aim to gain cost competitiveness and market adaptability
- Optimize fleet composition based on cargo contracts
- Secure stable earnings with efficient operation and fleet allocation



<image>

# Reduce fleet and operating costs by effective application of ICT expertise

- Differentiate through expertise in IT and vessel operation
- Enhance practical application skills with usage of onboard IoT data management system (SIMS)



# Enrich customer engagement with proposal-based marketing and sales activities

- Accurately identify customer needs and provide best solutions
- Further strengthen long-term and stable win-win partnership with the customers



#### **Container shipping**

Made a major strategic shift pursuing operational efficiency and economy of scale through the integration of container shipping business

#### Initiatives to date

#### Reformed service structure

· Expanding container shipping service network through THE Alliance

#### Reduced market volatility

- Switching to newly built large vessels with high cargo-loading rates and fuel efficiency
- · Reducing fuel consumption by upgrading existing vessels
- · Saving fleet and operating costs by efficiently deploying vessels
- Efficiently utilizing containers for higher profit margin

#### Improved technological capabilities

· Working to ensure safe, fuel efficient operations by utilizing big data



#### Operational Efficiency

#### **Best practice**

Creation of more synergy and enhancement of operational efficiency by integration of each company's best practice

#### **Economy of Scale**

#### Larger business size

Achievement of economy of scale by bringing three companies' business

## Synergy of approx. 110 billion yen/year

Profit stabilization by accomplishment of synergy of approx. 110 billion yen/year

# Economy

of scale

#### Source of competitiveness

- · Plan to develop services across over 90 countries
- Sustainable safety vessel operation leveraging cutting edge technology
- Carry out the IBIS project continuously to achieve optimal economic ship operations
- Forecast future worldwide container transportation plans by an optimization system incorporating mathematics and statistics model in EAGLE project.



# Promote growth (Logistics Car carriers Auto logistics)

#### Initiatives to date

#### Logistics

Fully acquired Yusen Logistics

- · Repositioning logistics business as the Group's core business
- · Deepening collaboration of each business and strengthening sales capabilities
- Seeking synergetic effect by mutually utilizing its global network and management resources



#### Car carriers Auto logistics

- Globally expanding roll-on/roll-off (RORO) terminal facilities and onshore valueadded services in addition to maritime automobile transport
- Focusing on technological innovation and human resource development to maintain the highest level of quality control



#### **Future actions**

#### Logistics

- Enhance total logistics business and run a selective and concentrated investment policy focusing on growing industries and emerging markets
- Fully utilize the Group's management resources supported by the pillars of people, assets, IT, and capital to strengthen sales capabilities

#### Car carriers Auto logistics

- Focus on improvement of transportation/cargo handling efficiency using digital techniques and make proactive efforts on environmental issues
- Develop and provide a sophisticated, high-quality finished-car logistics looking ahead to the structural changes in the automotive industry

## Enhance investment (LNG Offshore business)

#### Initiatives to date

#### **LNG**

- · Winning orders for the transportation of LNG, sourced from shale gas fields in North America
- Expanding its business scope to feature offerings for transporting LNG, operating LNG-fueled vessels, and supplying and marketing LNG as marine fuel

#### Offshore business

 Developing business at every stage of the energy value chain, from upstream to downstream

#### Offshore Business and LNG Value Chain

Exploration	Prospecting , drilling	Production, storage	Inter-regional transport	Refining, liquefaction, storage	Transport	Custo	mers
Research vessel, Seismic vessel	Deep-sea drillship	FSO, FPSO Wheatstone Project	Shuttle Tanker	Cameron LNG Project	LNG Carriers, Tankers	FSRU	LNG- fueled vessel s
Workflow	Se	rvices provided	by NYK Group	Participated		sidering i	====



#### **Future actions**

#### **LNG**

- Further expand and develop business in newly emerging countries.
- Strongly promote LNG marine fuel sales business in response to the increasing interest in LNG-fueled vessels

#### Offshore business

- Make selective investments in areas of strength and technological expertise
- Enter into new businesses in regards to the broad transformations in the global energy landscape and to effectively meet customers needs



#### Initiatives to date

Working on various technological developments and increasing operational efficiency

# R&D of proprietary technologies

 Preventing engine accidents and reducing maintenance cost



Kirari NINJA



Machinery Space (UMS) check system

# Solutions through mobile apps

 Enhancing operational efficiency and service improvement through information sharing mobile apps



Digitalization

Increase operational efficiency

Planned improvement : **10 billion yen/year** 

Onboard IoT data

management system

gathering, monitoring, sharing

Enabling safe, efficient

shore

operations through data

system between ship and

Green

# Energy efficient vessel design

 Improving vessel energy efficiency and complying with environmental regulations



# Vessels powered by next-generation fuels

 Developing LNG-fueled vessels to reduce CO2, NOX, and SOX emission



LEFT : LNG-fueled tugboat CENTER : LNG-fueled car-carriers RIGHT : LNG bunkering vessel

# Expansion of optimum vessel operation

 Intensifying fuel-saving efforts by expanding the IBIS project to various vessel types



#### Transform the entire supply chain

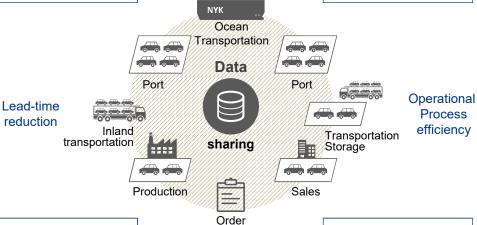
Transform the entire supply chain more environmentally sustainable with the application of the latest digital technology

Simulation technology by Digital Twin concept



Optimization of route, operation, and cargo space planning

R&D for advanced automation ship







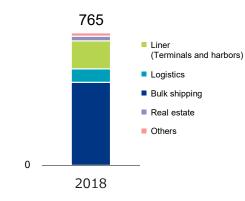






#### Stable-freight-rate business

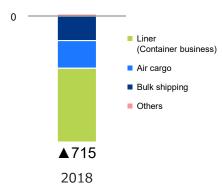
(100 million yen)



\*Bulk shipping consist of car carriers, dry-bulk (med-/long-term contracts), and liquid (med-/long-term contracts).

#### Other businesses

(100 million yen)



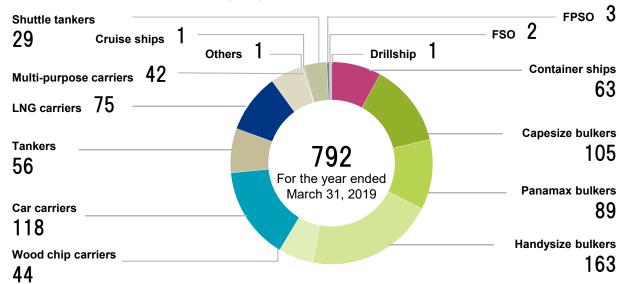
\* Bulk shipping consist mainly of dry-bulk and liquid other than med-/long-term contracts.



# **NYK Group Fleet**

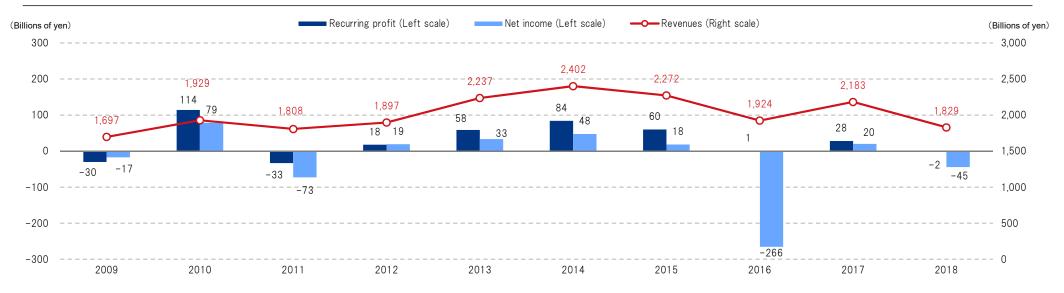
			As of Marc	h 31, 2017			As of Marc	h 31, 2018				As of I	March 31, 2019		
The classification of the business segment	Type of Vessel	Owned (Incl. Co- Owned)	Chartered		Total	Owned (Incl. Co- Owned)	Chartered	-	Total		Owned Co-Owned)	(	Chartered		Total
		Vessels	Vessels	Vessels	Kt (dwt)	Vessels	Vessels	Vessels	Kt (dwt)	Vessels	Kt (dwt)	Vessels	Kt (dwt)	Vessels	Kt (dwt)
Liner Trade	Container ships	27	70	97	6,097	32	63	95	6,700	31	2,057	32	3,133	63	5,190
	Capesize bulkers	27	72	99	19,570	27	83	110	21,615	24	4,667	81	15,985	105	20,652
	Panamax bulkers	39	57	96	8,179	38	50	88	7,640	38	3,398	51	4,333	89	7,732
	Handysize bulkers	56	121	177	8,257	58	105	163	7,759	60	2,841	103	4,990	163	7,831
5. "	Wood chip carriers	9	34	43	2,321	9	33	42	2,267	9	460	35	1,921	44	2,382
Bulk Shipping	Car carriers	31	80	111	2,010	37	82	119	2,183	40	753	78	1,455	118	2,208
Shipping	Tankers	42	21	63	10,080	41	24	65	10,207	35	6,869	21	228	56	9,829
	LNG carriers	67	3	70	5,629	68	3	71	5,719	72	5,924	3	228	75	6,152
	Multi-purpose carriers	21	20	41	688	23	19	42	701	23	427	19	273	42	701
	Others	1	0	1	7	1	0	1	7	1	7	0	-	1	7
Other Businesses	Cruise ships	1	0	1	7	1	0	1	7	1	7	0	-	1	7
Total		321	478	799	62,849	335	462	797	64,810	334	27,414	423	35,282	757	62,696
Offshore	Shuttle tankers	28	0	28	3,279	29	0	29	3,437	29	3,437	0	-	29	3,437
business	FPS0	4	0	4	-	3	0	3	-	3	-	0	_	3	_
* Including vessels owned by equity	[F5U	1	0	1	-	1	0	1	-	2	-	0	_	2	-
method affiliates	Drillship	1	0	1	-	1	0	1	-	1	-	0	_	1	_
Grand total		355	478	833	66,128	369	462	832	68,247	369	30,851	423	35,282	792	66,133

Note: Co-owned ship's dwt is including not only NYK Group companies' ownership but also other companies' ownership. The total number of LNG carriers and cruise ships owned includes vessels owned by equity method affiliates.

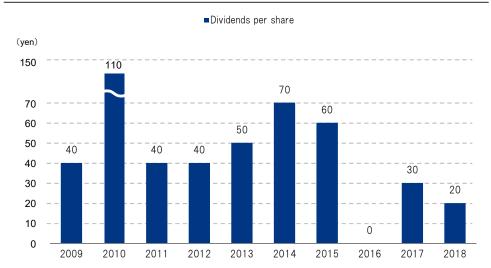




# **Performance Highlights**

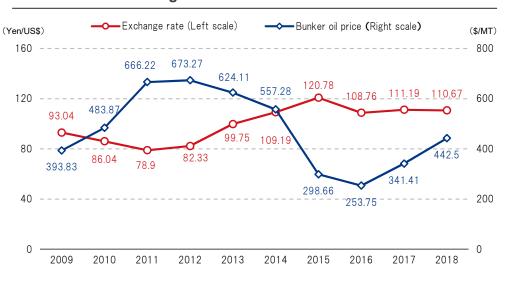


# Dividends per Share



#### \* On October 1, 2017, NYK Line conducted a reverse stock split at a ratio of 10 ordinary shares to one ordinary share. The amount of the dividend per share for the fiscal year ending on and before March 31, 2018 in the graph above takes into consideration of the effect of this reverse stock split.

# Transition of Exchange Rate and Bunker Oil Price

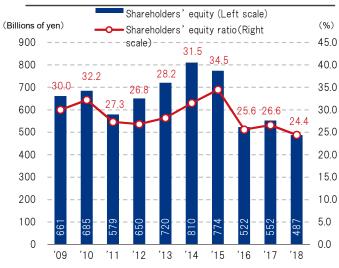




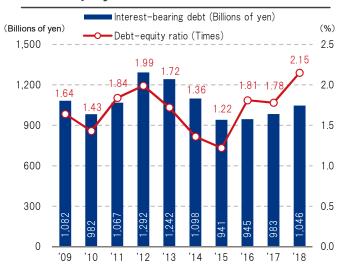
Businesses and Strategy

Business Segment Data Corporate Information

# Shareholders' Equity and Shareholders' Equity Ratio



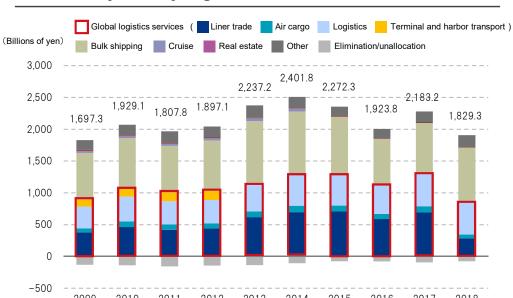
# Interest-bearing Debt and Debt-equity Ratio



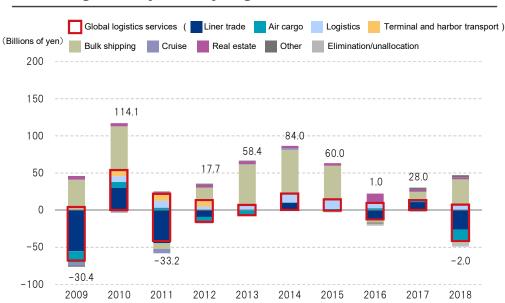
## Return on Equity (ROE)



# **Revenues by Industry Segment**



## **Recurring Profit by Industry Segment**



Notes: 1. "Terminal and harbor transport" segment is included in "Liner trade" segment. Also reporting segment of some consolidated subsidiaries has been changed from "Liner trade" to "Bulk shipping", from April 1, 2013.



<sup>2. &</sup>quot;Others" includes cruise ships, as NYK Line integrated its cruise business in it's a Other Business Services segment effective from April 1, 2015.

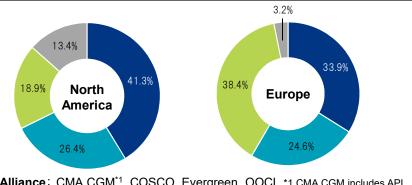
<sup>3.</sup> Figures in this table are not restated on the basis of the changes of the business category.

#### Fleet Sizes of Full Container Transport Operators

			As of Ja	nuary 1, 2019			As of Ja	nuary 1, 2018	
Operator		Ranking	Vessels	TEUs	Share	Ranking	Vessels	TEUs	Share
Maersk Line*1	Denmark	1	707	3,980,880	18%	1	741	3,986,085	19%
MSC	Switzerland	2	505	3,228,178	15%	2	482	3,068,295	15%
COSCO	China	3	428	2,764,471	13%	4	297	1,767,604	9%
						-	(395)	(2,435,550)	(12%)
CMA CGM	France	4	469	2,595,954	12%	3	471	2,467,534	12%
Hapag-Lloyd*3	Germany	5	221	1,584,403	7%	5	209	1,476,356	7%
ONE*2	Japan	6	226	1,535,406	7%	-	(239)	(1,492,329)	(7%)
Evergreen	Taiwan	7	202	1,199,586	5%	6	195	1,058,203	5%
Yang Ming	Taiwan	8	94	607,380	3%	8	101	592,069	3%
PIL	Singapore	9	128	429,808	2%	11	127	376,167	2%
HMM	Korea	10	70	411,763	2%	14	54	335,497	2%
ZIM	Israel	11	62	307,480	1%	12	74	356,967	2%
Wan Hai	Taiwan	12	99	243,308	1%	15	93	237,599	1%
OOCL	Hong Kong					7	98	667,946	3%
MOL	Japan					9	80	577,235	3%
NYK	Japan					10	97	560,332	3%
KL	Japan					13	62	354,762	2%
Total of top 12 companies		-	3,211	18,888,617	86%	-	3,181	17,882,651	86%
Others		-	2,008	3,052,789	14%	-	1,959	2,908,289	14%
Total			5,219	21,941,406	100%		5,140	20,790,940	100%

Source: Compiled by NYK Line based on data published by MDS Transmodal and Fairplay

# **Share of Megacarriers and Alliances on Core Routes**



■ Ocean Alliance: CMA CGM\*1, COSCO, Evergreen, OOCL \*1 CMA CGM includes APL. \*2 Maersk includes Hamburg Sud

■ THE Alliance: ONE, Hapag-Lloyd, Yang Ming

■ 2M: Maersk\*2, MSC

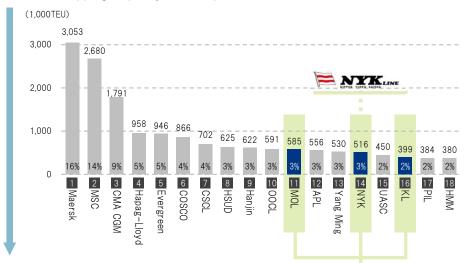
Others

Source: Compiled by NYK Line based on data as of February 28, 2019, published by MDS Transmodal in March ,2019.

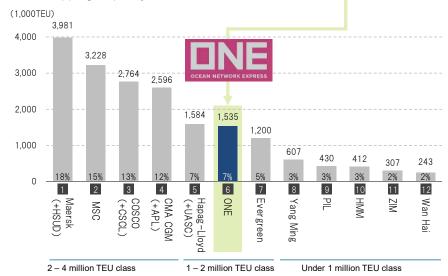
# **Operating Environment of the Container Shipping Business**

Competitive Conditions Changed as Acquisitions and Mergers Expand Scale of Market Players

#### Container Shipping Capacity as of September 2015



#### Container Shipping Capacity as of December 2018



<sup>\*</sup> Based on data disclosed by the three companies integrating their shipping businesses



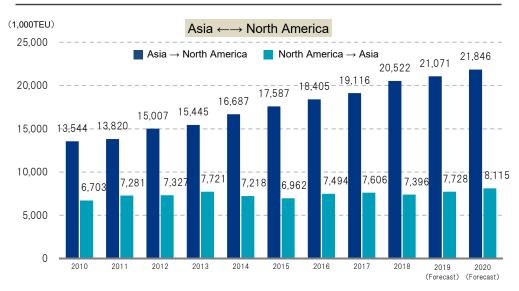
<sup>\*1 ( ) =</sup> Total including OOCL

<sup>\*2 ( ) =</sup> Total of three Japanese shipping companies

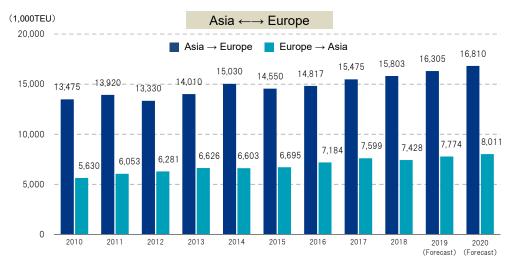
Businesses and Strategy

Business Segment Data

# **Container Transport Volumes**



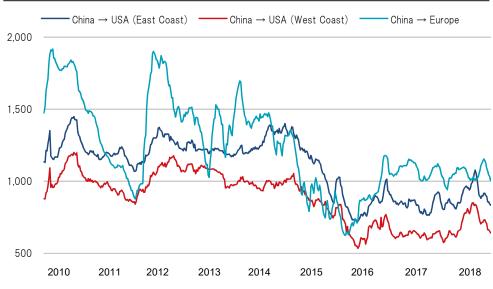
Source: Drewry Maritime Research



Source: Drewry Maritime Research

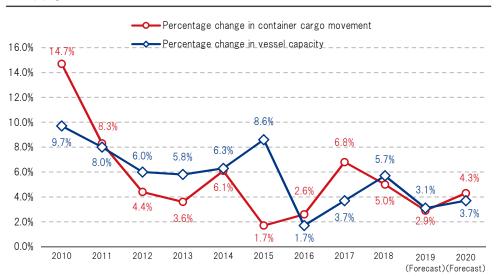
# **Freight Rates**

(Jan. 1, 1998=1,000 point)



Source : China (Export) Containerized Freight Index

#### Supply-Demand (Year-on-Year Percentage Changes)



Source: Compiled by NYK Line referencing Drewry Maritime Research 2019



# **Global Container Operator Capacity Ranking**

Ranking	Operator	Type of Operation	Million TEUs
1	China Cosco Shipping	Shipping company	91.3
2	Hutchison Ports	Terminal operator	82.3
3	APM Terminals	Terminal operator	76.3
4	PSA International	Terminal operator	73.9
5	DP World	Terminal operator	68.7
6	Terminal Investment Limited (TIL)	Terminal operator	44.0
7	China Merchants Port Holdings	Terminal operator	31.0
8	CMA CGM **	Shipping company	24.8
9	Eurogate	Terminal operator	13.8
10	SSA Marine / Carrix	Terminal operator	11.3
11	NYK Line	Shipping company	11.0
12	Evergreen	Shipping company	10.3
13	ICTSI	Terminal operator	9.2
14	OOCL	Shipping company	7.8
15	MOL	Shipping company	7.1

Source: Drewry Global Container Terminal Operators 2018, Drewry Maritime Research

Notes: 1. Unless stated otherwise, figures include total annual throughput for all terminals in which less than 10% shareholdings are held.

- 2. We have deducted volume handled in stevedoring and barge operations.
- 3. Due to the method of calculation utilized, there is some degree of variation between Drewry's figures and the terminal operators' publicly announced results.
- 4. Some figures include Drewry forecasts.
- 5. Type of Operation is based on Drewry's information.
- 6. China COSCO Shipping includes COSCO Shipping Ports, China Shipping and COSCO Container Line.
- 7. Hutchison Port Holdings includes the figure of Hutchison Trust's operation.

## NYK's TEUs and Number of Container Terminals (Terminal basis)

#### **Terminal Operations**

(CY)	2013	2014	2015	2016	2017	2018
Million TEUs	8.7	9.1	8.8	12.0	16.0	13.6
No. of terminals	15	15	15	16	15	13

Note: The number of terminals refers to individual terminals in operation

# **Terminal Locations**

(Location basis)

- Container terminal and stevedoring operations: 15 ports
- RORO ship stevedoring operations: 8 ports



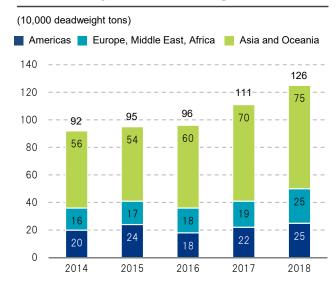


# **International Rankings of Air Freight Forwarding Operators**

Ranking	Company	Capacity (Millions of ton kilometers)
1	Emirates Airline	12,715
2	Qatar Airways	10,999
3	Cathay Pacific Airways	10,772
4	Federal Express	8,040
5	Korean Air	7,986
6	Cargolux	7,322
7	Lufthansa	7,313
8	Singapore Airlines	6,592
9	China Air Line	5,894
10	China Air Line	5,741
18	All Nippon Airways	4,275
26	Nippon Cargo Airlines (NCA, NYK Group)	3,229

Source: IATA International Air Cargo Ranking 2017

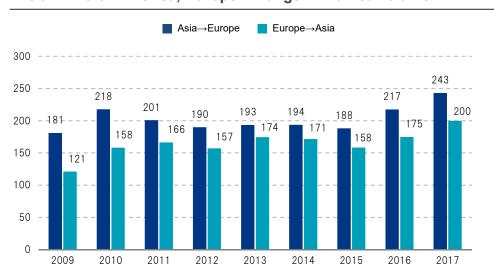
# Changes in Annual Ex-Japan Air Freight **Volumes by Destination Region**



Source: Compiled by NYK Line based on JAFA results

# **Asia** ↔ North America, Europe Change in Market Volume



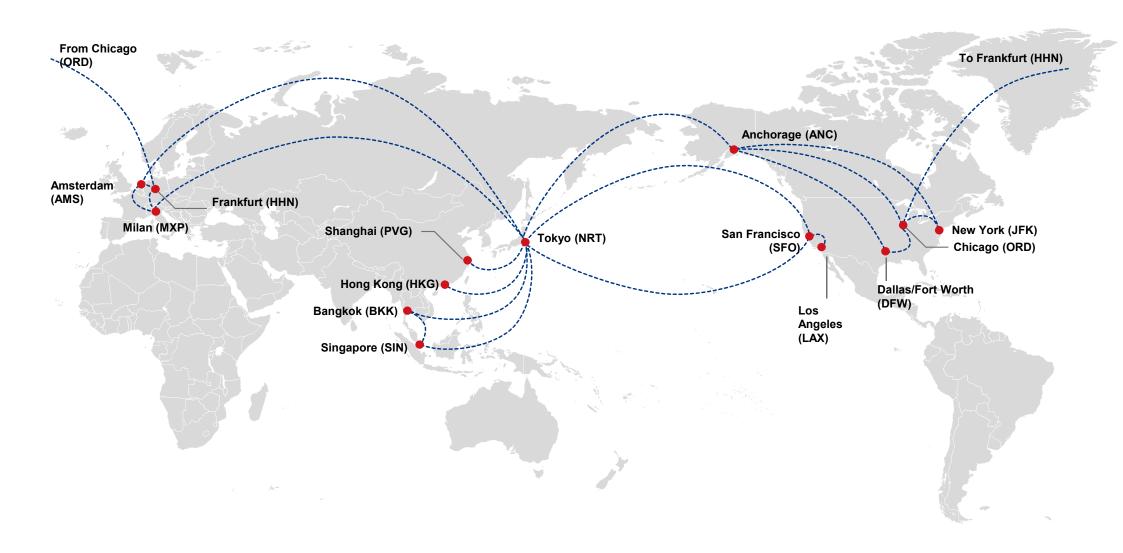




Source: Compiled by NYK Line based on Seabury Trade Database



NCA Service Network





# Comparison of Global Freight Forwarders (Fiscal 2017)

Provider	Ocean Freight Forwarding (thousand TEU)	Air Freight Forwarding (thousand tons)
Yusen Logistics	780	375
DHL Supply Chain & Global Forwarding	3,259	2,248
Kuehne & Nagel	4,355	1,570
DB Schenker	2,169	1,300
Sinotrans	3,360	533
DSV A/S	1,389	635
Expeditors International of Washington	1,070	985
Panalpina	1,520	995
Nippon Express	600	835
UPS Supply Chain Solutions	600	935
Bollore Group	864	640
CEVA Logistics	729	480
Hellman Worldwide Logistics	897	654
Geodis	690	330
Kintetsu World Express	663	580
C.H.Robinson	698	175
DACHSER Intelligent Logistics	522	335
Kerry Logistics	1,053	313
Agility	740	415
Hitachi Transport system	500	280

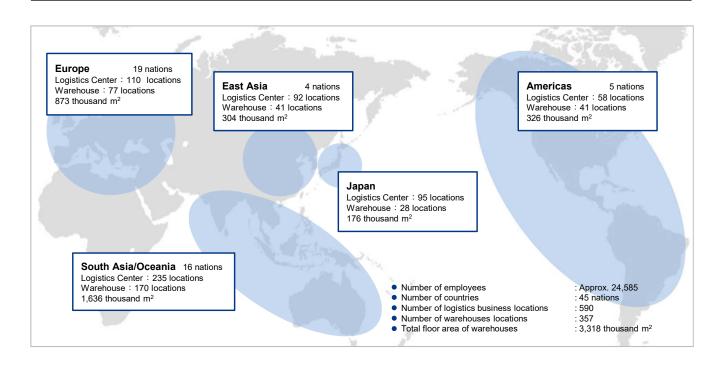
Source: Created by NYK Line based on ARMSTRONG ASSOCIATES, INC. Database

# Cargo Volume in Ocean Forwarding and Air Forwarding



# **Logistics Center Locations**

As of March, 2019





## **Global Car Transport Fleet Ranking**

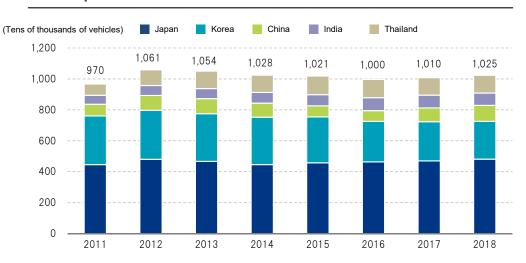
(As of December 31, 2018)

Ranking	Operator	Vessels	Share (%)	Capacity (Cars)	Share (%)
1	NYK Line	103	14.7%	621,059	15.2%
2	Mitsui O.S.K. Line	86	12.30%	516,509	12.6%
3	K-Line	80	11.40%	476,097	11.6%
4	EUKOR	71	10.10%	475,525	11.6%
5	GRIM	62	8.90%	280,837	6.9%
6	GLOVIS	60	8.60%	401,890	9.8%
7	WWO	54	7.70%	367,165	9.0%
8	HAL	46	6.60%	307,425	7.5%
9	NMCC	12	1.70%	67,400	1.6%
10	Toyofuji Shipping Co., Ltd.	11	1.60%	53,260	1.3%
10	NEPTUN	11	1.60%	41,400	1.0%
12	SCC	10	1.40%	58,200	1.4%
12	ECL	10	1.40%	42,300	1.0%
14	COSCO	5	0.70%	21,450	0.5%
14	ARC	5	0.70%	28,025	0.7%
_	Others	74	10.6%	332,868	8.1%
	Total	700		4,091,410	

Source: Hesnes Shipping AS, The Car Carrier Market 2018

Note: This table includes only vessels with a capacity of 2,000 cars or more.

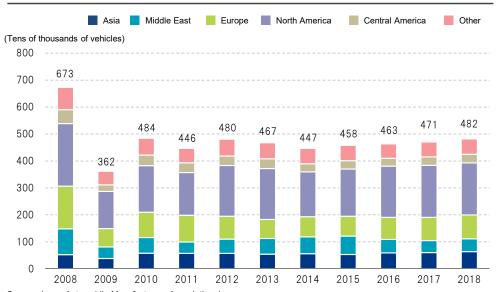
#### **Car Exports from Main Asian Countries**



Source: Japan Automobile Manufacturers Association, Inc., FOURIN

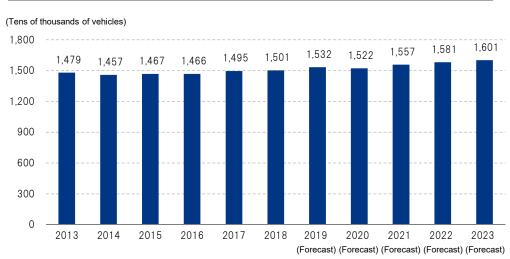
#### **Japanese Automaker Exports (By Destination)**

(As of December 31)



Source: Japan Automobile Manufacturers Association, Inc.

#### **Worldwide Car Transport Volume**



Source: Created by NYK Line (including estimation)



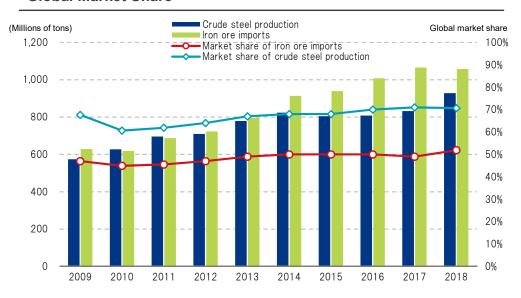
## **Bulk Carrier Fleet Ranking**

(As of January 1, 2019)

Ranking	Company	Kt (dwt)	Vessels
1	China COSCO Shipping	30,484	292
2	NYK Line	16,492	179
3	China Merchants	13,696	114
4	K-Line	13,256	113
5	Fredriksen Group	12,690	105
6	Star Bulk Carriers	11,703	106
7	Mitsui O.S.K. Lines	11,652	101
8	Berge Bulk	10,965	53
9	Angelicoussis Group	9,168	52
10	Oldendorff Carriers	8,477	83
11	Polaris Shipping Co	8,381	33
12	Pan Ocean	8,359	59
13	Imabari Shipbuilding	8,196	82

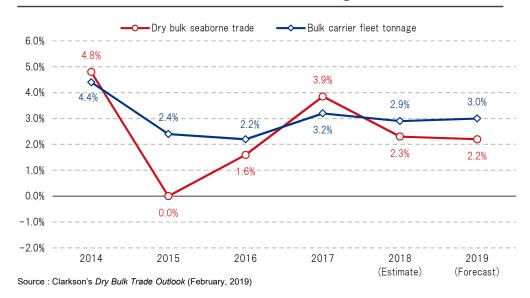
Source: Compiled by NYK Line based on Clarkson Database

# China's Crude Steel Production, Iron Ore Imports, and Global Market Share

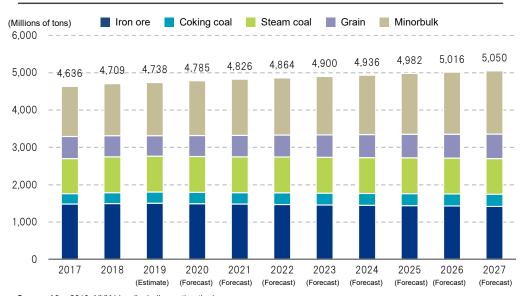


Source : Crude steel production: Compiled by NYK Line referring data from World Steel Association Iron ore imports: Compiled by NYK Line referring data from Global Trade Atlas

#### **Increase in Seaborne Trade and Fleet Tonnage**



# Volume and Forecast of Dry Bulk Seaborne Trade

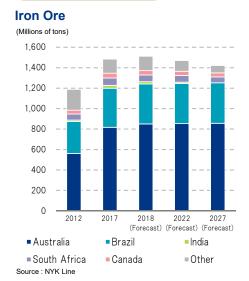


Source: After 2019: NYK Line (including estimation)

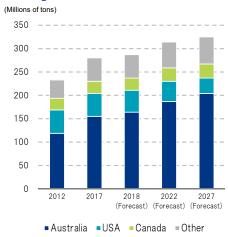


# **Dry Bulk Cargo Export and Import**

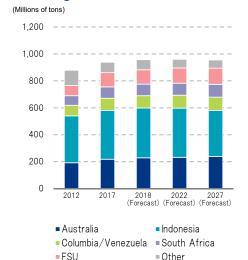
#### Export



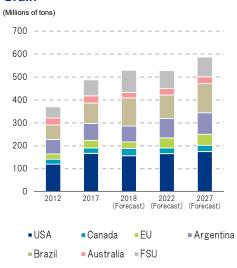
#### **Coking Coal**



#### **Steaming Coal**

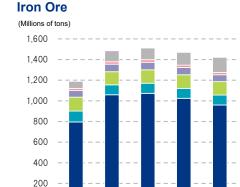


#### Grain



Source: NYK Line referring USDA (including estimation)

#### Import



China EU15 Japan Korea Taiwan Other

2018

2022

(Forecast) (Forecast) (Forecast)

2027

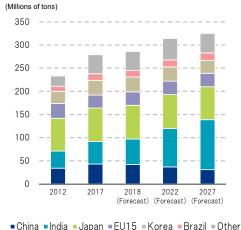
2017

Source : NYK Line

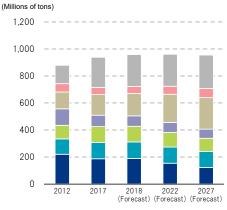
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2012

# **Coking Coal**



# Steaming Coal



China Japan Korea EU15 India Taiwan Other

#### Grain



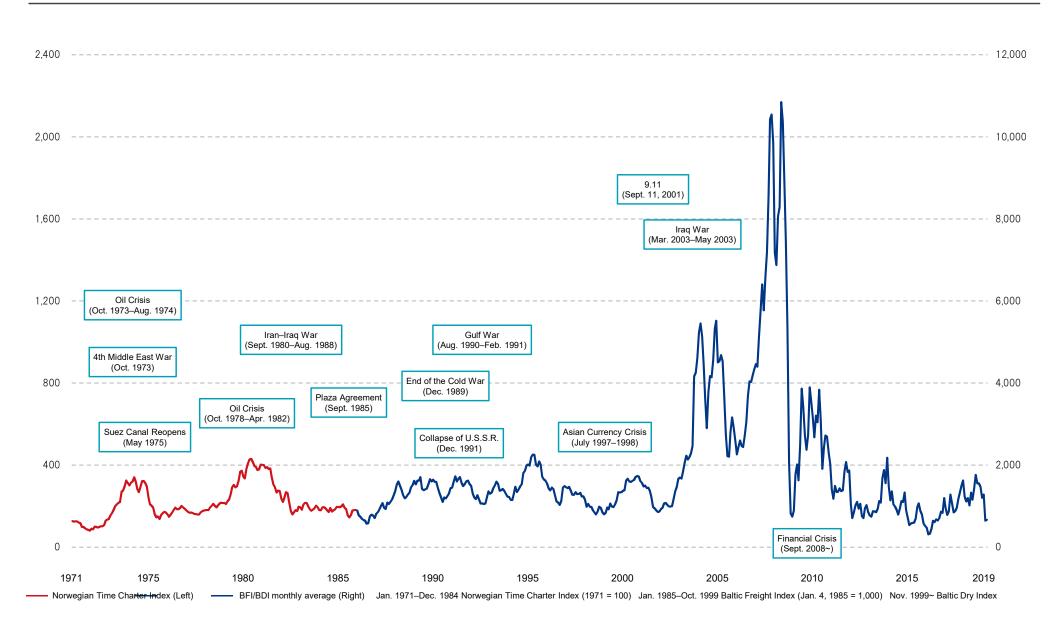
Source: NYK Line referring USDA (including estimation)



**Businesses** and Strategy

Business Segment Data **Corporate Information** 

# **Dry Bulk Market Trends**





21

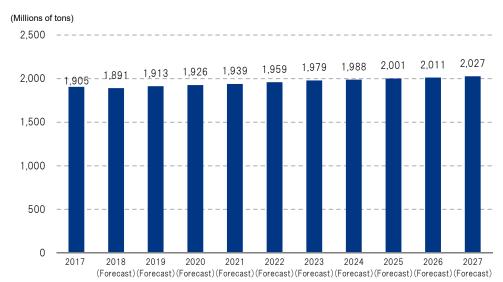
# **Tanker Fleet Ranking**

(As of January 1, 2019)

Ranking	Company	Kt (dwt)	Vessels	
1	China COSCO Shipping	18,686	143	
2	Euronav NV	18,178	72	
3	China Merchants	17,604	105	
4	Bahri	15,720	81	
5	Teekay Corporation	14,777	112	
6	Nat Iranian Tanker	13,655	54	
7	Angelicoussis Group	13,151	49	
8	Mitsui O.S.K. Lines	13,086	121	
9	SCF Group	12,285	129	
10	Dynacom Tankers Mgmt	10,737	65	
11	NYK Line	10,570	77	
12	Petronas	10,064	74	
13	Fredriksen Group	10,057	59	
14	Ocean Tankers	8,544	80	
15	DHT Holdings	8,372	27	

Source: Compiled by NYK Line based on Clarkson Database

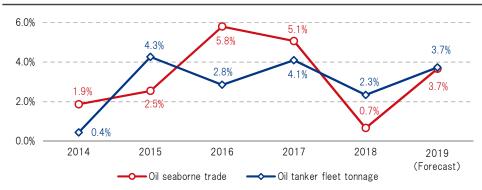
#### Volume and Forecast of Crude Oil Seaborne Trade



Source: Prepared by NYK Line based on materials including customs statistics and EIA materials

#### **Increase in Seaborne Trade and Fleet Tonnage**

(Sum of Crude Oil and Oil Product Tankers)

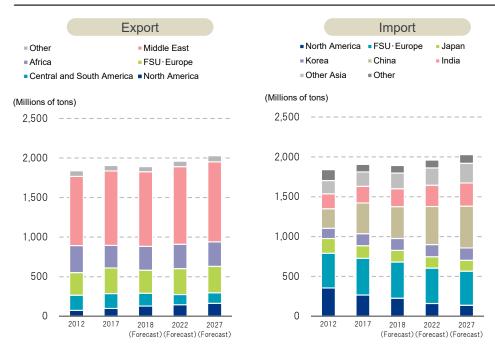


Source: Compiled by NYK Line referring Clarkson Oil & Tanker Trades Outlook (February, 2019)

# **Crude Oil Export and Import**

Source: 2017: GTA

After 2018: NYK Line (including estimation)

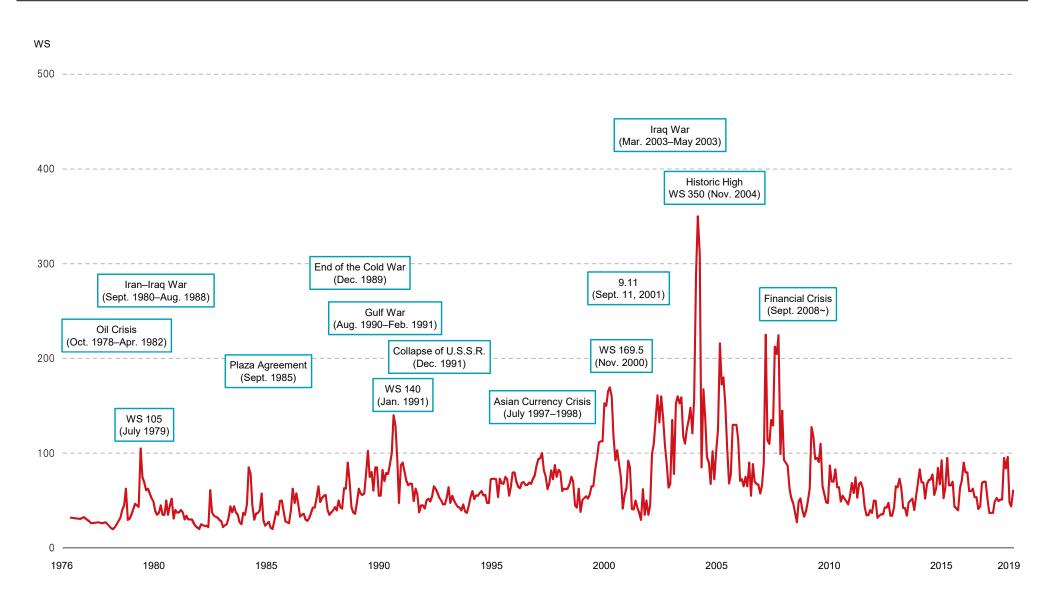


Source: 2017: GTA, After 2018: NYK Line (including estimation)



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# Oil Tanker Market (world scale)





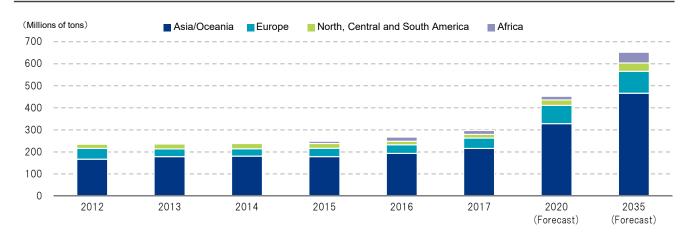
Company	Vess els	Capacity (Thousand cubic meters)	Capacity Share (%)
NYK Line	75	5,097	6.3%
Mitsui O.S.K. Lines	88	5,237	6.5%
K-Line	48	2,338	2.9%
Qatar Gas	60	-	-
Teekay	46	-	-
Marangas	28	-	-
Gaslog	27	-	-
MITSUI & CO.,LTD	26	-	-
MISC	26	-	-
Golar	17	-	-
Bergesen Worldwide	17	-	-
Dynagas	12	-	-
Shell	12	-	-
Sovcomflot	12	-	-
Bonny Gas	11	-	-
Knutsen	11	-	-
Seller/Buyer (Overseas)	70	-	-
Other Japanese Shipowners (Shipping & Trading Companies	30	-	-
South Korean Shipowners	29	-	<u>-</u>
Buyer (Japanese)	24	-	-
China	22	-	-
Other	92	-	-
Total	_	81,174	100.0%

(Research by NYK)

Note: LNG Tankers are usually co-owned by multiple companies. Number of vessels shown above are counted as one vessel regardless of the ownership percentage of the vessel. Capacity (1,000 Cubic Meters) shown above are assigned to individual companies in accordance with their ownership percentage of each vessel.

The number of LNG vessels in shipping fleets does not include remodeled floating storage and regasification units.

# **LNG Transactions and Demand Forecast by Major Market**



Source: Compiled by NYK Line with reference to IHS-CERA Report

# **LNG Export Countries**

#### 2018 Ranking of LNG export countries (mtpa)

2010114	2010 Italianing of 2110 export countries (intpu)			
Ranking	Country	mtpa	Share (%)	
1	Qatar	77.0	21.1	
2	Australia	72.1	19.7	
3	Malaysia	30.5	8.4	
4	Indonesia	26.5	7.3	
5	Algeria	25.3	6.9	
6	U.S.A. (Atlantic)	21.9	6.0	
7	Nigeria	21.9	6.0	
8	Russia	17.2	4.7	
9	Trinidad and Tobago	15.5	4.2	
10	Oman	10.8	3.0	
11	Egypt	7.2	2.0	
12	Brunei	7.2	2.0	
13	Papua New Guinea	6.9	1.9	
14	United Arab Emirates	5.8	1.6	
15	Angola	5.2	1.4	
	Total	36	5.0	
	·			

#### 2035 Ranking of LNG export countries (mtpa) (forecast)

Ranking	Country	mtpa	Share (%)
1	U.S.A. (Atlantic)	137.6	19.8
2	Qatar	108.2	15.6
3	Australia	92.9	13.4
4	Russia	61.6	8.8
5	Mozambique	49.5	7.1
6	Canada (Pacific)	32.6	4.7
7	Malaysia	32.0	4.6
8	Indonesia	24.7	3.6
9	Nigeria	21.9	3.1
10	Algeria	17.4	2.5
11	Trinidad and Tobago	15.5	2.2
12	Tanzania	15.0	2.2
13	Papua New Guinea	14.9	2.1
14	Egypt	12.2	1.8
15	Oman	10.8	1.6
	Total	69	5.8
	·		

Source: Compiled by NYK Line with reference to IHS-CERA Report



#### CO<sub>2</sub> reduction goal (Medium to long-term environmental goal)

CO <sub>2</sub> reduction per ton-mile FY2015 base year	FY2030	FY2050
Vessel Ocean transportation	-30%	-50%
Ripple effect to the entire supply chain	-40%	-70%

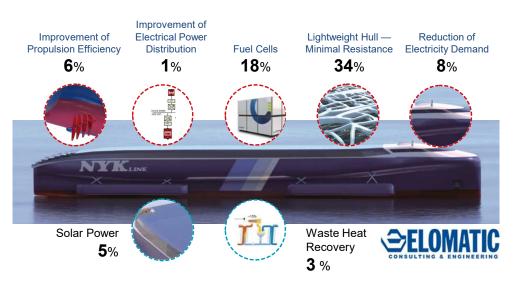
# NYK Promotes Decarbonization Through Exploratory Design of NYK Super Eco Ship 2050

A new future concept ship has been designed by incorporating innovative technologies that will result in an emission-free vessel — the "NYK Super Eco Ship 2050."

This concept ship has been crafted as a 2050-model pure car and truck carrier (PCTC). The power needed to operate the ship has been cut by almost 67 percent by remodeling the hull to decrease water friction, reducing the weight of the hull, introducing fuel cells for electric propulsion, and relying on other highly efficient propulsion devices. Instead of fossil fuels, power for the ship would come from solar energy and hydrogen produced from renewable energy sources, all of which would lead to a reduction of CO2 by 100 percent and thus result in a zero-emission vessel.

The NYK Group will promote decarbonization through technical development that contributes to energy savings and greenhouse gas (GHG) reduction. By applying this to actual vessels, through the concept of NYK Super Eco Ship 2050, the company will continue to contribute to the sustainable development of society and enrichment of the group's corporate value.

#### 67% reduction in energy derived from fossil fuels compared with a 2014-built vessel



#### Promoting a Switchover to LNG as Fuel

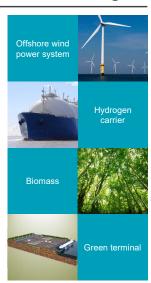
- By switching the fuel used in its ships from heavy fuel oil to liquefied natural gas (LNG), NYK will be able to cut CO2 emissions by about 30%, reduce nitrogen oxide (NOx) emissions by about 80%, and completely eliminate emissions of sulfur oxide (SOx).
- Since June 2016, NYK has been participating in a feasibility study on LNG bunkering facilities at the Port
  of Yokohama.
- Together with Engie SA, Mitsubishi Corporation, and Fluxys SA, NYK has established a service for supplying and selling LNG fuel under the global brand, Gas4Sea, and begun operations of facilities at the Port of Zeebrugge in Belgium.

#### Expansion of "green business" by utilizing maritime technologies

- Supplying and Marketing LNG Fuel
- Japan's First LNG-fueled Tugboat
  World's First LNG-fueled Pure Car and Truck Carrier
  World's First Purpose Build LNG Bunkering Vessel
- Development and sales of the coal boiler control optimization system (ULTY-V)
- Biomass transportation business
- Wind-power generation at finished-car logistics terminal in Belgium



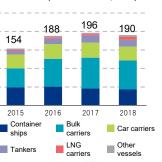




# **Utilizing Big Data to Optimize Vessels**

NYK is striving to ensure safe and energy-conserving shipping operations by making use of big data, such as information on the equipment and operations of ships during voyages. NYK's Ship Information Management System (SIMS) is its platform for utilizing big data. By installing the system, NYK has been able to operate and assign vessels more efficiently based on highly accurate information about vessel speeds, fuel consumption performance, weather, and other factors. NYK is working to improve the system's technologies and data analysis capabilities with a view to broaden the use of the system as an operational management platform tailored to the needs of each type of vessel in its fleet in the future.

#### Number of SIMS-equipped Vessels (as of March 31, 2019)





#### **PLAN**

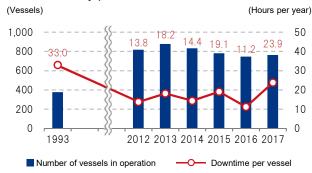
# Safety promotion system

Each year, the Safety and Environmental Management Committee, chaired by the president reviews activities for the previous year and sets targets and guidelines for the next year.

## Using downtime to measure safety

We use the time that ships are stopped due to accidents or problems as an indicator to measure the degree to which we have achieved safe ship operations. Our sea and land operations work together to bring us closer to the target of zero downtime.

#### Hours of Delay per Vessel



## **Emergency response network**

We have created an emergency response network\*1 to prepare for maritime accidents and problems no matter where they occur in the world.

#### DO

#### Safety campaigns

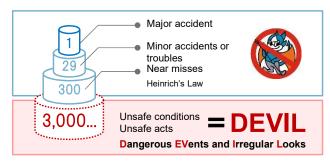
Every year, we conduct the Remember Naka-no- Se\*2 safety campaign in the summer and the Sail on Safety\*3 campaign in the winter.

#### **Emergency response exercises**

We conduct regular training to increase the ability of our employees to respond to accidents.

#### Near Miss 3000 activities

Inspired by Heinrich's Law\*4, we conduct Near Miss 3000 activities on board our ships as a proactive program to prevent accidents before they occur. We have developed this program from a nearmiss level to create what we call DEVIL Hunting activities that seek to eliminate accidents by identifying and addressing situations that are precursors to often overlooked problems. Further, we expanded the scope of the program to cover the entire NYK Group in 2006, and it also covers our partner shipowners and ship-management companies.



#### **Number of DEVIL Hunting Reported**

(Incidents)

2014	2015	2016	2017
55,633	57,483	63,698	71,160

#### POWFR+

NYK Shipmanagement Japan Co., Ltd., a vesse management subsidiary, is promoting a safety initiative called Power+, which is designed to improve attitudes and awareness related to safety among ship crewmen. The initiative was awarded a Seafarers Safety Initiative Grand Prize from Japan's Ministry of Land. Infrastructure. Transport and Tourism in fiscal 2015.



#### **CHECK**

#### **NAV9000**



In 1998, the NYK Group introduced NAV9000, which is a rigorous. self-imposed ship safety management system, in order to fulfil our responsibilities in terms of safety and environmental protection. This system requires ships, shipowners, and ship management companies to disclose information on safe ship operations and adhere to NYK standards for both ships we own and chartered vessels.

#### Breakdown of NAV9000 Audits (2014-2017)

	2014	2015	2016	2017
Ship audits	303	300	303	287
Company audits	31	30	32	30

#### **ACT**

### Identification of causes and improvements toward achieving our objectives

We use information on accidents in order to prevent their recurrence. We notify the fleet immediately when accidents occur, and follow up through means including safety bulletins\*5 that issue instructions to prevent recurrence once we have identified the causes and formulated countermeasures. Furthermore, NAV9000 inspections require ships, ship owners, and ship management companies to make improvements so that they can continue to operate vessels safely.

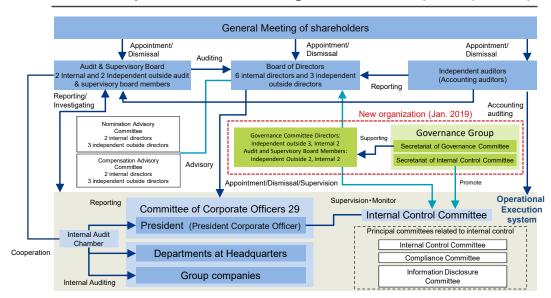
#### Advancements in Digitalization (Safety)

The key word for NYK over the medium and long term is Digitalization. We are developing ship operations support programs that include *Kirari* NINJA, Kirari MUSE, and Live for ship operator, as well as J-Marine NeCST\*6 and autonomous ship operations technology. Part of our development in using Big Data to predict and warn of abnormal operations. Further, we are making advancements in cyber security to prepare for the coming digital ship operations.

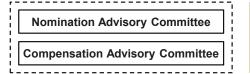
- \*1 Emergency Response Network: Our emergency response network divides the world into four regions. This enables us to respond quickly and minimize damage in the event of any accident or problem anywhere on the seas.
- \*2 Remember Naka-no-Se Campaign: We conduct this campaign every July, the month in which an oil spill occurred from the very large crude oil carrier Diamond Grace at Naka-no-Se in Tokyo Bay in 1997, to ensure that the lessons from the spill are not lost.
- \*3 Sail on Safety Campaign: We conduct this campaign over the winter months of December and January with a primary focus on rough weather safety.
- \*4 Heinrich's Law: A formula regarding work-related accidents stating that there are 29 minor accidents and 300 near misses behind every major accident.
- \*5 Safety Bulletins: We publish a safety information journal to raise awareness and issue instructions to the entire fleet on piracy, terrorism, and other matters of concern in voyages as well as causes of accidents and problems and prevention measures.
- \*6 J-Marine NeCST: Joint development of ship operations support devices among NYK, MTI, and JRC. Awarded the 2018 Hydrographic Technology Encouragement Award. Electronic chart compatibility provides support for voyage planning, while communications with weather forecasting, hydrographic forecasting, and other systems allows the centralized management and sharing of ship operating data.



#### NYK's Corporate Governance Organization Chart (As of April 2019)



#### Nomination - Compensation Advisory Committee Performance-Based Remuneration Plan



#### **Committees Members**

Chairman : Chairman Members : President Independent directors (3)

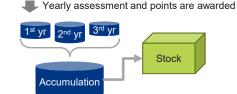
· · · Independent directors have majority

#### Introduction of Performance-Based Stock Remuneration Plan

Plan with transparency and objectivity introduced in 2016 for directors and corporate officers

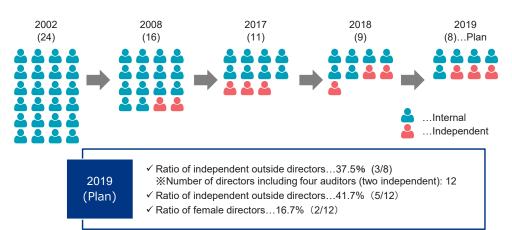
Aim: To motivate directors as well as share same interests with shareholders Structure: Stocks to be delivered after a certain period based on achieving business performance goals





#### Initiatives to Improve Effectiveness of the Board

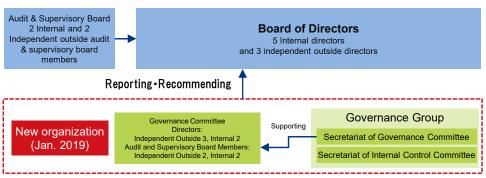
- Slimming down the board of directors
- Reducing the term to one year from two years
- Increasing independent directors



#### **Establishment of Governance Committee**

In response to illegal conduct by group subsidiaries inside and outside Japan, NYK recognized the need to strengthen its corporate governance. The company thus established the Governance Committee in January 2019, tasking the committee with the following objectives:

- Strengthen objective and independent supervision and monitoring of the organization by having outside officers play a leading role
- Identify and report problems; actively make recommendations for improvements
- The newly established Governance Group will act as the secretariat of the committee



\*Number of members will be based upon the approval by the ordinary general meeting of shareholders in June 2019



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Included Again in the Dow Jones Sustainability Index	The Dow Jones Sustainability Index (DJSI)* recognizes companies that exceed certain standards for sustainability using detailed research to assess their economic, environmental, and social performance.  * The DJSI is an investment index jointly operated by S&P Dow Jones Indices LLC, a U.Sbased investment research firm, and RobecoSAM AG, a Switzerland-based firm that conducts CSR research and ratings.	Dow Jones Sustainability Indices In Collaboration with RobecoSAM
Selected for FTSE4Good Index for the 16th Straight Year	The FTSE4Good Index* is one of the two leading indexes for investors who are concerned about corporate social responsibility. The other major index is the DJSI.  * FTSE4Good Index: Launched by the UK-based FTSE Group, which is jointly owned by the Financial Times and the London Stock Exchange.	FTSE4Good
Included in the MSCI ESG Leaders Indexes	NYK has been included in the MSCI ESG Leaders Indexes, which are internationally leading stock indexes for socially responsible investing. Developed by U.Sbased MSCI Inc., the MSCI ESG Leaders Indexes recognize companies that are particularly outstanding according to environmental, social, and corporate governance criteria.	MSCI Constituent MSCI ESG Leaders Indexes
ESI Award for Best Green Shipping Line from Port Authority in France	For the fifth consecutive year, NYK was recognized with an Environmental Ship Index (ESI)* award as a Best Green Shipping Line by Haropa, a French port authority jointly managed by the ports of Le Havre, Rouen, and Paris.  * The ESI evaluates the environmental impact of shipping operations based on the amount of nitrogen oxide (NOx) and sulfur oxide (SOx) emitted by vessels. Every year since 2012, the Haropa port authority has rated vessels calling at the three ports it manages and awarded shipping companies that attain high scores on the ESI.	BEST GREEN SHIPPING LINE
Scored the Highest-Rated 'A' for Climate Change by CDP Survey	NYK has been highlighted as a global leader on corporate climate action by environmental impact non-profit organization CDP*, achieving a place on the Climate Change A List.  * An international non-profit that drives companies and governments to reduce their greenhouse gas emissions, safeguard water resources and protect forests. Since 2003, CDP has been sending out questionnaires every year to major companies around the world and evaluates the corporate action.	CDP DISCLOSURE INSIGHT ACTION A LIST 2018 CLIMATE CHANGE
Receives Green Bond Award at 2018 Sustainable Finance Awards	NYK has received the Green Bond Award at the 2018 Sustainable Finance Awards held by the Research Institute for Environmental Finance (RIEF), which promotes "green finance" to address environmental issues.	RIEF Sustainable Finance Awards
Selected as a White 500 Company for Third Consecutive Year	"White 500" acknowledges excellent large companies that strategically carry out efforts in cooperation with an insurer to manage employee health. NYK has been included in the "White 500" for third consecutive year.	2018 健康経営優良法人 Health and productivity ホワイト500



NYK Included in for GPIF	ı Three ESG Indexes	NYK has been included in three new ESG indexes, the first being the FTSE Blossom Japan Index created by global index provider FTSE Russell, and the two others being the MSCI Japan ESG Select Leaders Index and the MSCI Japan Empowering Women Index created by MSCI. The Government Pension Investment Fund for Japan, one of the world's largest pension funds, has selected these three indexes as benchmarks for its ESG investment strategy.	FTSE Blossom Japan  MSCI 2018 Constituent MSCI Japan ESG Select Leaders Index  2018 Constituent MSCI Japan Empowering Women Index (WIN)
2016 Ship of the	Year	The 14,000 TEU containership NYK Blue Jay has been named the 2016 Ship of the Year in the Large Cargo Ship category by the Japan Society of Naval Architects and Ocean Engineers (JASNAOE).	THE RESERVE OF THE PARTY OF THE
NYK Cruises Re World Cruise	ceives Top Awards for 2018	At the 2018 Cruise of the Year Awards, the 2018 world cruise produced by NYK Cruises Co. Ltd., an NYK Group company, was recognized as the year's top cruise and thus awarded the Grand Prix award sponsored by the Japan Oceangoing Passenger Ship Association (JOPA) and the Minister award given by Japan's Ministry of Land, Infrastructure, Transport and Tourism (MLIT).	
MT-FAST Receivence the Environmen	ves Japan's 2018 Minister of t Award	MT-FAST, a fuel-saving device jointly developed by NYK Group company MTI Co. Ltd. and Tsuneishi Shipbuilding Company, has been recognized with Japan's 2018 Minister of the Environment Award.	MT-F-HST
	"Companies with Greatest IR" and "Companies with Efforts in IR"	NYK has been included in the "Companies with Greatest Improvement in IR" and "Companies with Best Continual Efforts in IR" categories compiled by Japan Investor Relations Association (JIRA) for 2018. NYK is the only company in the maritime industry to be recognized by these awards.	Companies with Greatest Improvement in IR Continual Efforts in IR Continual Ef



# History

Global Logistics Matter

Bulk Shipping Matter

Management Plan Matter

Others

Tilott	Global Logi	
1885	Yubin Kisen Mitsubishi Kaisha and Kyodo Unyu Kaisha merge on September 29 to form Nippon Yusen Kaisha (NYK); new company inaugurates operations on October 1 with a fleet of 58 steamships.	
1945	Only 37 vessels, totaling 155,469 gross tons, remain after World War II.	
1951~ 1957	Resumed liner services to Bangkok, New York, Seattle, Europe and others.	
1959	Crude Oil Tanker, Tanba Maru, commissioned	
1960	Iron Ore Carrier, Tobata Maru, commissioned.	
1962	World's first large LPG carrier, Bridgestone Maru commissioned.	
1964	NYK and Mitsubishi Shipping Co. Ltd. merge; newly enlarged NYK Group owns 153 vessels of 2,287,696 deadweight tons.	
	World's first chip carrier, Kure Maru, commissioned.	
1968	Hakone Maru, Japan's first fully containerized ship, begins service on new California route.	
	Near Seas and domestic coastal services transferred to Kinkai Yusen Kaisha Ltd.	
1969	Car Carrier, Toyota Maru No.5, commissioned.	
	NYK Line (Hong Kong) Ltd. and NYK (Thailand) Co. Ltd. established.	
1971	Container service to Europe begins.	
1978	NYK, three other Japanese shipping companies, and All Nippon Airways Co. Ltd. established Nippon Cargo Airlines (NCA).	
1983	NYK Line (Singapore) Pte. Ltd. established.	
	LNG shipments from Indonesia to Japan initiated.	
1985	Double-stack container train service begins between Los Angeles, Chicago, and Cincinnati in cooperation with Southern Pacific Transportation.	
1988	NYK Line (North America) Inc. established.	
	Hong Kong Logistics Center completed.	
1989	NYK Bulkship (USA) Inc., and NYK Bulkship (Europe) Ltd. established.	
	NYK Line (Europe) Ltd. Established. Bangkok, Los Angeles, and Sydney logistics centers open.	
1990	World-class luxury cruise ship Crystal Harmony begin service.	
	Nippon Liner System Co. Ltd. Acquired.	
1991	Los Angeles and Oakland container terminals open.	
	Laem Chabang (Thailand) Container Terminal opens.	
	NYK Line (Australia) Pty. Ltd. and NYK Shipping (N.Z.) Ltd. established.	
1992	Kaohsiung (Taiwan) Container Terminal opens.	
1993	Liner service begins between the west coast of South America and Europe.	
	Double-hull tanker Takamine Maru completed.	
1994	NYK Line (Deutschland) GmbH, NYK Line (Benelux) B.V., and NYK Line (Sverige) AB established.	
	Kobe and Yokohama container terminals open.	
1995	NYK Line (China) Co. Ltd. established.	
1996	LNG Shipments from Qatar to Japan initiated.	
1998	NYK and Showa Line Co. Ltd. merge, adding three owned vessels of 549,031 deadweight tons and 75 chartered vessels of 6,140,134 deadweight tons to the shipping lineup.	
	Introduction of NAV9000, a rigorous self-imposed safety management system	

1999	Liner Division and Car Carrier Division obtain ISO 9002 certification.		
	NYK 21 "New Millennium Declaration" an in-depth analysis of medium and long term management		
2000	challenges announced.  NYK Logistics (China) Co. Ltd. established.		
2001	NYK Shipmanagement Co. Ltd. established in Singapore.		
2002	NYK (including chartered fleet) obtains ISO14001 certification, world's first for a shipping company.		
	NYK 21 "Forward 120," the company's medium and long-term group management vision, announced.		
2003	Invests in Dalian Port Car-carrier Terminal.		
	All NYK logistics subsidiaries uniformly rebranded as "NYK Logistics."		
2004	MTI (Monohakobi Technology Institute) established for the development of new technology.		
	New medium-term management plan, "New Horizon 2007," released.		
2005	Nippon Cargo Airlines (NCA) becomes a consolidated subsidiary of NYK.		
	NYK Lauritzen Cool AB established.		
2006	Luxury cruise ship Asuka II to cover Japanese market began service.		
2007	Local trade headquarters in Sao Paulo established for container transport operations for South Africa and Central/South America service routes.		
2008	NYK-TDG Maritime Academy opens in the Philippines.		
	New Horizon 2010, the company's new medium-term management plan, released.		
2009	Emergency Structural Reform Project "Yosoro".		
	Exploratory design for NYK Super Eco Ship 2030.		
	Participation in project for ultra-deepwater drillship to be chartered by Petrobras.		
2010	Headquarter function of Liner Trade segment's transfered from Tokyo to NYK Group South Asia Pte. Ltd. in Singapore.		
	Yusen Logistics established to integrate the NYK Group's logistics.		
	Two module carriers equipped with an Innovatiove air-lubrication system delivered.		
2011	NYK invested in Knutsen Offshore Tankers ASA and entered into offshore shuttle tanker business.		
2011	New medium-term management plan, "More than shipping 2013", released.		
2012	The members of Grand and The New World alliances create The G6 Alliance and cooperate for new Asia– Europe container services.		
2013	NYK jointly participates in wheatstone LNG project in Australia.		
2014	NYK Bulk & Projects Carriers Ltd. began operations.		
2015	New medium-term management plan, "More than shipping 2018", released.		
2016	NYK Line issues its Corporate Governance Guidelines		
2017	NYK announces the full-acquisition of Yusen Logistics to make it a wholly owned subsidiary.		
2017	THE Alliance started services.		
	New medium-term management plan, "Staying Ahead 2022 with Digitalization and Green", released.		
2018	OCEAN NETWORK EXPRESS PTE. LTD. started offering service.		
	NYK Promotes Decarbonization through Exploratory Design of NYK Super Eco Ship 2050.		



Head Office	3-2, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005, Japan Phone: +81-3-3284-5151 Web site: https://www.nyk.com/english/
Closing Date	The Company's books are closed on March 31 each year.
Ordinary General Meeting of Shareholders	The ordinary general meeting of shareholders is held in June each year.
Common Stock	Number of authorized shares: 298,355,000 Number of issued and outstanding shares: 170,055,098
Stock Listing	NYK's shares are listed for trading on the following stock exchanges: the first sections of Tokyo and Nagoya exchanges.
Number of Shares per Unit	The Company's stock is traded in units of 100 shares each.
Share Registrar and Special Management of Accounts	Mitsubishi UFJ Trust and Banking Corporation Head office: 4-5, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8212, Japan
Public Notices	The Company's public notices are available through electronic distribution. https://www.nyk.com/ir/stock/koukoku/ However, in the event that electronic distribution is impossible, due to an accident or other unavoidable circumstances, the Company's public notices will appear in the Nihon Keizai Shimbun, published in Tokyo, Japan.
Independent Auditor	Deloitte Touche Tohmatsu

# **Ratings**

Rating and Investment Information, Inc.	BBB+
Japan Credit Rating Agency, Ltd.	A-
Moody's Japan K.K.	Ba1

# **Principal Shareholders**

Shareholder	Number of shares held
The Master Trust Bank of Japan, Ltd. (Trust Accounts)	11,692,100
Japan Trustee Services Bank, Ltd. (Trust Accounts)	11,357,900
MINAMI AOYAMA REAL ESTATE CO.,LTD.	8,247,800
Mitsubishi Heavy Industries, Ltd.	4,103,831
Meiji Yasuda Life Insurance Company	3,447,326
Japan Trustee Services Bank, Ltd. (Trust Accounts 5)	3,105,600
Tokio Marine and Nichido Fire Insurance Co., Ltd.	2,894,578
Japan Trustee Services Bank, Ltd. (Trust Accounts 9)	2,801,500
JP MORGAN CHASE BANK 385151	2,478,550
STATE STREET BANK WEST CLIENT – TREATY 505234	2,372,412

# 1,500

1/1 4/1 7/1 10/1

10/1

2016

2017

Stock Price Range (Tokyo Stock Exchange)\*

2018 \*The stock price before October 2017 have been adjusted to reflect the reverse stock split.



1/1

(yen)



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