

JETRO Global Trade and Investment Report 2023 -International Business Facing Fragmentation Risks-



Outline of the JETRO Global Trade and Investment Report 2023

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Section 1: Rulemaking and Policies of Major Countries and Regions Toward a Sustainable Society

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Key Points of JETRO Global Trade and Investment Report 2023

I. The World's and Japan's Economy and Trade

- In 2022, global trade increased year-on-year in both value and volume. However, the momentum began slowing down toward 2023. In addition to the uncertainty in the global economic outlook, high resource prices, food insecurity, and financial market instability are downside risks.
- The prolonged conflict in Ukraine, increasing trade-restrictive measures by major countries, and geopolitical risks including U.S.-China relations, are distorting the free trade regime.
- Trade relations among major countries and regions, which have been formed based on economic efficiency and comparative advantage, are gradually shifting in favor of like-minded countries with shared political values.

II Global FDI and Japan's FDI

- The strong investment recovery trend, which lasted about two years, turned around and shifted to a downward phase in the second half of 2022, due to the cascade of crises, including high inflation, high interest rates, and rising debt.
- Meanwhile, competition to attract strategic industries with large fiscal outlays, especially in the U.S. and the EU, is accelerating. Large investment projects by multinationals taking advantage of subsidies and tax incentives have increased. Competition among self-centered, inward-looking industrial policies and wariness of the risk of supply chain disruptions are causing changes in corporate investment behavior.

III Trade Rulemaking

- Economic security and supply chain resilience have encouraged countries to adopt independent policies and regulations which have increased uncertainty in the trade environment and inhibited the expansion and diversification of transactions.
- In a growing urgency to deal with fragmented rules, companies confront a new challenge to prepare for various issues beyond legal compliance, including consideration of geopolitical supply-chain risks, and responses to reputational risks.

IV Policies and Business for a Sustainable Society

- Legislation and societal demands for companies on human rights and environmental due diligence are steadily progressing, and appropriate responses throughout supply chains are essential. On the other hand, global investment in ESG bonds has declined in 2022. There is a sign of change in ESG investment trends.
- With the implementation of the EU's Carbon Border Adjustment Mechanism (CBAM), carbon pricing, which is being introduced around the world has entered a new stage. The calculation of greenhouse gas emissions is becoming an unavoidable issue for companies. Copyright © 2023 JETRO, All rights reserved

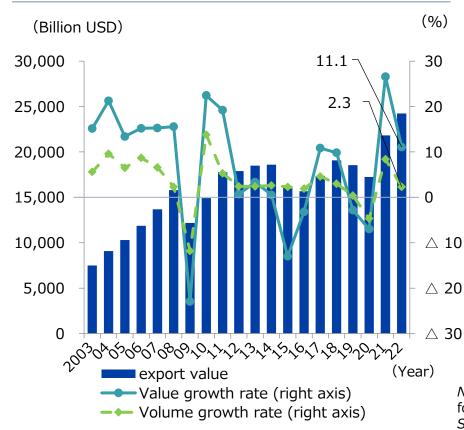
I. Global and Japanese Economy and Trade

~Rising risk of fragmentation in global trade flows~

Global trade at record high in 2022, but growth slows

- Global trade (trade in goods, estimated by JETRO) in 2022 was **24.24 trillion USD, and increased by 11.1% from the previous year.** This was a record high, but the growth slowed from the previous year (+26.6%).
- The growth rate of the trade volume (2.3%) was lower than that of the trade value (11.1%). This is likely related to the surge in prices of resources such as mineral fuels, metals, and food, which pushed up the overall trade value.

Global trade in goods (export-based)



Quarterly changes in trade values of 33 major countries/ regions by product (YoY)

				(Uni	t: %)	
		Exports				
		20	22		2023	
	Q1	Q2	Q3	Q4	Q1	
Total	15.1	12.5	10.0	- 0.5	- 0.1	
General machinery	6.9	0.7	1.4	- 5.5	- 1.2	
Semiconductor manufacturing equipment	9.6	9.4	7.5	- 2.3	- 10.5	
Electronical equipment	13.0	9.9	6.2	- 4.9	- 5.9	
Integrated-circuit	23.8	15.4	4.4	- 7.7	- 18.4	
Transport equipment	0.3	0.4	12.4	9.0	14.0	
Chemicals	18.6	10.5	4.4	- 6.1	- 5.3	
Food	10.4	9.2	8.1	4.5	5.3	
Mineral fuels	74.9	91.7	70.0	28.7	8.5	
Natural gas, etc.	80.2	130.1	105.1	29.9	8.5	
Crude oil	59.1	56.7	55.2	27.4	5.2	

Note: (1) Commodity classification is based on JETRO. (2) Calculated only for 33 countries/regions for which quarterly data for 2023 are available. Source: Compiled by JETRO from the Global Trade Atlas.

2 Increased trade between like-minded and neighboring countries

- In the first quarter of 2023, the trade value (export value) increased 16.5% over the same period in 2021.
- Trade within the USMCA region, between the U.S. and EU, and between China and ASEAN has had relatively high growth. On the other hand, trade between China and the EU, and the U.S. and Japan is growing at a lower rate. A trend toward **stronger trade relations with like-minded and neighboring countries** is about to emerge.

Global Trade Value Matrix (Q1 2023 trade value, growth rate over Q1 2021) (Millions USD, %)

	Import	World								
			USMCA		EU	Japan	Korea	Taiwan	China	ASEAN
Expor	t			U.S.						
Norld		5,810,903	999,965	732,576	1,834,502	184,704	151,018	78,964	514,490	448,873
		16.5	16.0	14.0	20.6	15.3	16.4	1.3	0.3	18.4
US	SMCA	793,495	399,316	226,400	107,395	23,259	18,612	10,238	47,480	28,350
		25.7	26.3	29.2	49.3	12.1	2.2	10.3	10.9	18.1
	U.S.	508,764	167,295		95,315	19,073	15,848	9,726	38,892	26,028
		25.9	22.9	-	53.8	9.6	1.2	13.1	10.8	17.0
EU		1,802,674	143,098	118,268	1,153,314	16,324	13,213	8,809	56,321	23,394
		13.1	7.6	5.4	17.8	- 7.1	- 11.5	12.6	- 14.2	2.7
Jap	pan	173,906	38,655	33,148	17,491		12,580	11,434	28,946	27,040
		- 3.9	5.8	4.9	1.0	-	- 1.1	- 7.9	- 24.0	0.1
Ko	rea	151,353	32,052	26,977	17,765	7,055		4,289	29,560	26,324
		3.4	18.3	18.1	9.8	3.1	-	- 17.1	- 18.8	11.9
Та	iwan	90,906	16,480	14,901	7,979	6,637	4,314		19,554	15,867
		- 0.6	12.1	12.1	24.8	24.4	1.2	-	- 25.1	3.1
Ch	ina	821,891	144,509	115,474	126,120	40,775	38,834	15,879		139,075
		15.8	0.4	- 3.3	14.3	5.3	22.4	- 7.2		32.3
AS	EAN	459,900	77,701	70,141	42,594	32,347	19,090	12,108	72,127	103,264
		16.5	19.8	18.3	15.1	15.6	20.5	5.2	19.9	16.0

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30% or more
Less than 20~30%
Less than 10~20%
Less than 0~10%
0~-10%
-10~-20%
20% or less

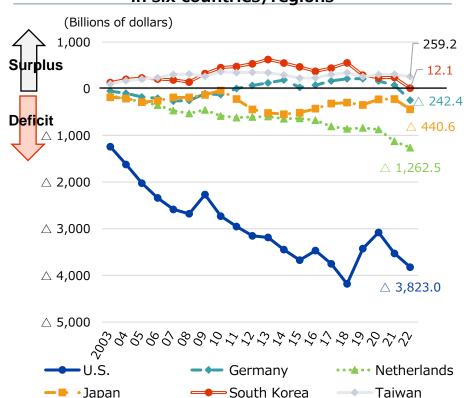
Notes: (1) Based on exports. (2) Taiwan's export data is not included in DOTS, so the Global Trade Atlas was used. The upper row shows the export value in Q1 2023, and the lower row shows the growth rate compared to Q1 2021.

Growing trade deficit, new risks with China are rising

- The U.S. trade deficit with China peaked in 2018 and narrowed once, but has begun to grow again. The trade deficits of the Netherlands, Japan, and Germany with China are also on the rise.
- The ratio of U.S. imports to China peaked at 21.6% in 2017 and declined to 13.4% January-May **2023**. The ratio of imports to China from the Netherlands, Japan, and Taiwan is also declining.

Trade balance with China

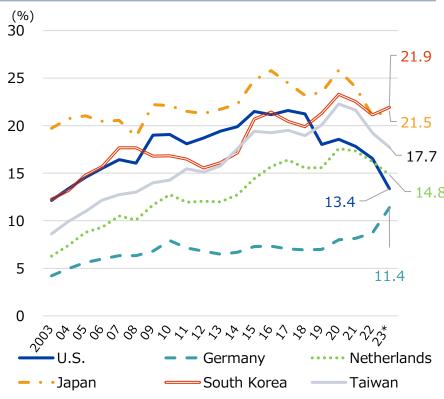
in six countries/regions



Note: Six countries/regions are the top five countries in terms of imports from China (excluding Hong Kong) and Taiwan in 2022.

Source: Compiled by JETRO from Global Trade Atlas.

Ratio of imports to China by six major countries/regions



Note: For 2023: January to May for U.S., Japan, and South Korea; January to April for Germany, the Netherlands, and Taiwan. Source: Compiled by JETRO from Global Trade Atlas I rights reserved

Semiconductor-related products enter recessionary phase of market cycle

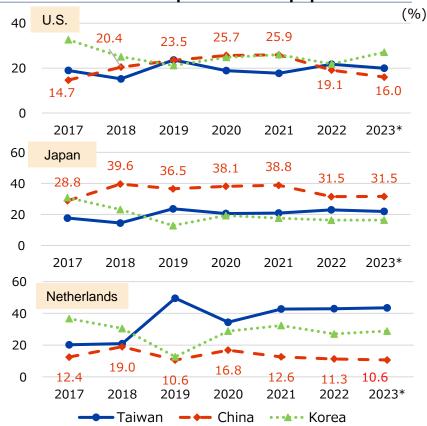
- In exports of semiconductor-related products, PCs, telecommunication equipment including cell phones, and memory devices grew slower than the previous year. This was mainly due to the market cycle.
- The U.S. export share of semiconductor manufacturing equipment to China shrank due to stricter **export controls to China from October 2022**. The contraction is also seen in Japan and the Netherlands, and is thought to be a spillover effect of the U.S. export controls.

Global trade by semiconductorrelated products (in terms of export value, 2022)

			USD, %)
		Composit	Growth
	Value	ion ratio	rate
Computers and components	6,877	2.8	- 2.2
Telecommunication equipment	6,144	2.5	- 7.6
Cell phones	2,825	1.2	- 2.8
Semiconductors and other electronic components (Note (3))	12,840	5.3	10.4
Integrated-circuits	11,042	4.6	9.1
Processors/controllers	4,076	1.7	16.3
Memory devices	2,408	1.0	- 8.8
Amplifiers	274	0.1	5.4
Other integrated circuits	4,052	1.7	15.4
Semiconductor manufacturing equipment	1,381	0.6	12.3
Microtomes	154	0.1	0.5
Semiconductor measurement and inspection equipment	73	0.0	8.2
Semiconductor, photomask and lectil inspection equipment	106	0.0	47.3
Silicon carbide	12	0.0	30.2
Silicon wafers	202	0.1	19.2

Notes: (1) Item classification is determined by JETRO. (2) The composition ratio is the percentage of the total global exports. (3) The growth rate is for reference only. HS codes that were split and integrated from HS2017 were done so in accordance with the revision of HS2022. Source: JETRO estimates

Changes in exports composition of semiconductor production equipment



Note: 2023 is the cumulative total from January to April.

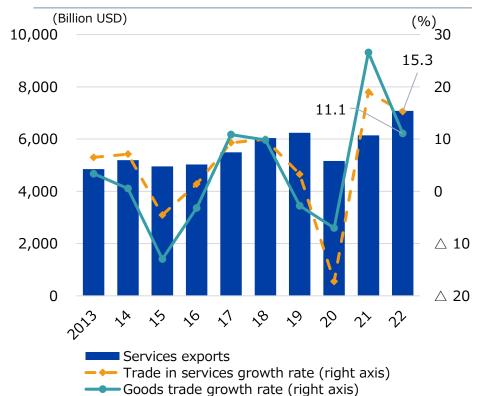
Source: Compiled by JETRO from Global Trade, Atlas, 2023 JETRO, All rights reserved

5

Trade in services rebounds on travel recovery

- In 2022, global trade in services (in terms of exports) exceeded 7 trillion USD for the first time, **growing**15.3% year over year. This is above the level of 2019 before the COVID-19 pandemic.
- By sector, <u>"travel" recovered sharply (+91.5% y-o-y)</u> due to the resumption of traveler traffic in many countries and regions, contributing significantly to the recovery in trade in services.

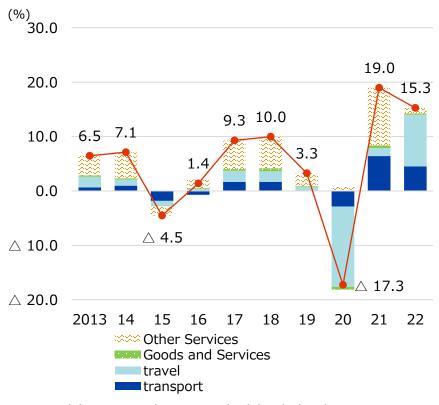
Global trade in services



Note: (1) Commercial services only. (2) Exports of services are estimates based on quarterly data. The growth rate of trade in goods is in value terms.

Source: JETRO estimates, WTO

Contribution of global trade in services by sector



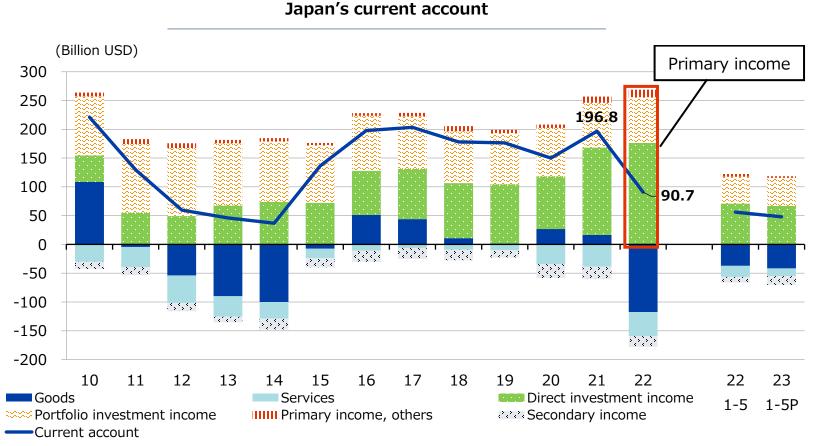
Note: (1) Commercial services only. (2) Calculated using estimates based on quarterly data.

Source: WTO

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6 Negative contribution of trade to Japan's current account has become serious

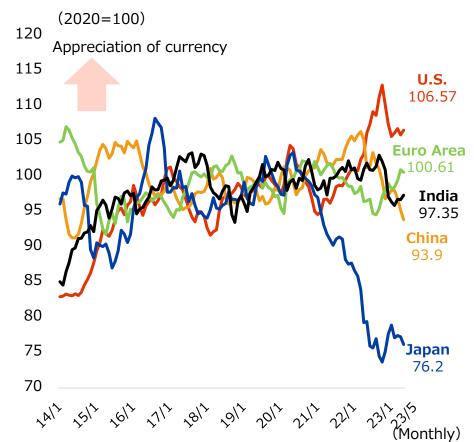
- Japan's account surplus in 2022 was \$90.7 billion, the <u>first time in eight years</u>, since 2014, that it has fallen below \$100 billion.
- While the primary income remained in a large surplus, the current account was pushed down by trade turning from a surplus of \$16.5 billion in the previous year to a deficit of \$117.6 billion.



7 Real effective exchange rates and policy rate trends in major countries and regions

- The yen has been depreciating rapidly from 2021 onward. The Japanese yen's real effective exchange rate index (2020=100) fell below 80 in April 2022, the **weakest** level **since 1971**.
- A series of policy rate hikes by major countries widened the interest rate gap with Japan, which maintains negative interest rates.

Real effective exchange rate indices for major countries and regions (monthly average)



Policy rates in G20 countries and regions

		(%)
Country/region	End of December, 2020	Endo of June, 2023
Argentina	38	97
Australia	0.1	4.1
Brazil	2	13.75
Canada	0.25	4.75
China	3.85	3.65
Euro Area	0	4
India	4	6.5
Indonesia	3.75	5.75
Japan	- 0.1	- 0.1
Korea	0.5	3.5
Mexico	4.25	11.25
Russia	4.25	7.5
Saudi Arabia	1.0	5.75
Republic of South Africa	3.5	8.25
Turkey	17	15
United Kingdom	0.1	5
U.S.	0 to 0.25	5 to 5.25

Note: (1) Countries/regions in red are those whose policy rates increased compared to the end of 2008. (2) Figures in bold indicate countries/regions that revised their interest rates from March to May 2011.

Source: Compiled from "central bank policy rate statistics" (BIS) and websites of national and regional central banks.

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Source: Compiled from Bank of International Settlements

8 | Significant increase in Japan's trade deficit in 2022

- In 2022, Japan's exports were \$751.6 billion, down 0.9% from the previous year, while imports were \$902.6 billion, up 16.6% (customs-cleared basis). Imports rose sharply due to higher energy prices. The trade deficit was the largest in history.
- Export and import volumes for 2022 were negative for the first time in two years, and remained negative between January to May 2023.

Japan's trade trends

(Million USD, %) 2023 2020 2021 2022 January -May 639,950 758,572 751,551 Total exports 290,278 (Rate of change) - 9.3 18.5 - 0.9 - 7.1 635,707 774,421 902,600 343,039 Total imports (Rate of change) - 11.8 21.8 16.6 - 6.6 Trade balance 4.243 - 15,849 - 151,049 - 52,761 - 20,091 - 135,201 (YoY difference) 19,325 2,157 Export volume index 91.0 101.9 100.0 90.7 (Rate of change) - 11.7 12.0 - 1.9 - 7.8 97.9 102.8 102.5 98.1 Import volume index 5.0 - 0.3 - 3.6 (Rate of change) - 6.4

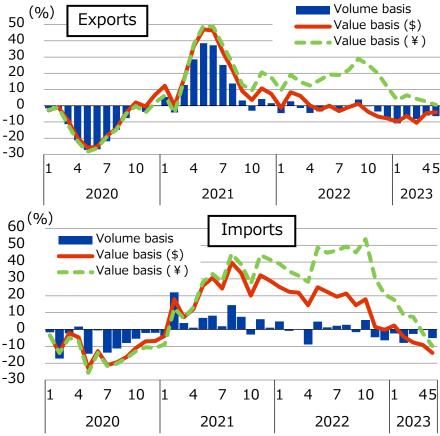
(In both of the charts)

Note: 1) JETRO converted the figures disclosed in JPY into USD.

2) The volume index is on a 2015 basis.

Source: "Trade Statistics" (Ministry of Finance), "Foreign Exchange Rate" (Bank of Japan)

Japan's import & export growth (year-on-year change)



90

General machinery exports remain steady, while movement slow in export volume

- In 2022, the export price index on a US dollar basis rose slightly from the previous year, but the volume index failed to reach that of the previous year. The export volume of passenger cars, which account for a large share of total exports, remained sluggish. On the other hand, exports of general machinery, such as semiconductor manufacturing equipment, continued to see steady growth.
- The yen has continued to weaken in 2023. While the export price in dollars declined, some items, such as food products, have increased in export value from the same period last year, due to volume growth.

Export volume and US dollar-based price index (2022)

(Volume : 2021 = 100)**Price** 115 Price Construction Volume + Machines Volume + Semiconductor manufacturing equipment **Medical Products** 110 Metal Working machines Miscellaneous General Buses, Tracks Inorganic Chemicals Machinery 105 Textiles **Electric Power** Rubber Manufactured Non-Ferrous Metals Machinery Power generating machinery Passenger Car 100 **Transport** Ships -Total Expoet Equipments Metals **Pump Centrifuges** Iron & Steel & Semiconductors, etc. Electrcal • **Products** Apparatus Food-stuff measuring & Non-Mtl.Min.Manufs controlling Parts of Motor Vehicles instruments **Electrical** Price Office machines 90 Metal Products Machinery Volume -Plastic Materials Price Chemicals Volume -85 Organic Chemicals

(US dollar-based Prices: 2021 = 100)

110

Note: JETRO created the dollar-based price index based on the 2015-based export volume index by commodity. 2021=100 for both export volume and dollar price. Source: "Trade Statistics" (Ministry of Finance)

100

Items with increased export volumes (Jan-May 2023)

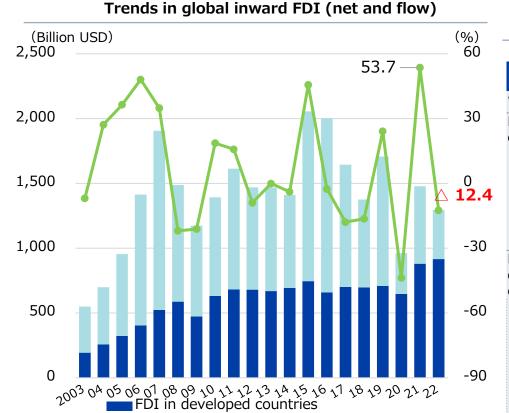
	Value (dollars)	-May 2023 Volume	2 ₽rice) (dollars)		
Foodstuff			ĺ		
Whisky	101.0	100.5	100.5		
Non-alcoholic beverages, etc.	100.1	113.3	88.4		
Beef (fresh and chilled, boneless)	100.6	115.9	86.8		
Textiles and textile products					
Synthetic filament woven fabrics (Polyester filament content ≥85% of total weight)	94.3	100.6	93.8		
Nonwoven fabrics (70g ≤150g /1m)	112.1	117.9	95.1		
Synthetic merino fabrics (dyed)	110.6	109.8	100.7		
General machinery					
Turbojet, turbopropeller parts	115.9	126.3	91.8		
Semiconductor ball/wafer manufacturing equip.	138.7	127.1	109.1		
Air conditioner parts	111.9	110.3	101.5		
Other					
Playing cards and other amusement cards	175.4	227.5	77.1		
Wheeled toys, dolls, plastic models, puzzles	93.1	105.0	88.7		
Ink cartridges	77.3	124.9	61.9		
Notes: (1) Japan's exports during Jan-May 2023, 4,459 items (HS 6-digit level.					

Notes: (1) Japan's exports during Jan-May 2023, 4,459 items (HS 6-digit level, about 92% of total export value) were analyzed. Top 3 items in export value in each category, those with an increase in export volume, YoY change. (2) Shading indicates year-on-year increase in export value (in U.S. dollars). Source: Global Trade Atlas, S&P Global, Inc.

II. Global FDI and Japan's FDIOverseas expansion of global and Japanese companies and investment in growth industries

1 Global FDI shifts back to the downside in 2022

- Global foreign direct investment (FDI) in 2022 declined 12.4% from the previous year. Investment to developed countries and regions pushed the total down by 36.7%. The U.S., the largest recipient of FDI, declined 26.5%. Cross-border M&A to the same country dropped by half.
- Meanwhile, <u>investment in emerging countries and regions increased 4.0%</u>. Brazil, ASEAN, China, and other countries saw boosted investment.



Inward FDI (net and flow) of major countries and regions in 2022

(Willion USD, %)						
Value	Growth rate	Composition ratio	Contribution			
1,294,738	-12.4	100.0	- 12.4			
378,320	- 36.7	29.2	- 14.8			
285,057	- 26.5	22.0				
-124,948	-	-	- 18.8			
61,629	194.9	4.8	2.8			
32,509	31.9	2.5	0.5			
- 18,681	-	-	- 3.9			
916,418	4.0	70.8	2.4			
222,305	4.1	17.2	0.6			
189,132	4.5	14.6	0.6			
49,355	10.3	3.8	0.3			
208,454	51.2	16.1	4.8			
10,041	39.3	0.8	0.2			
48,268	- 13.7	3.7	- 0.5			
44,929	- 43.5	3.5	- 2.3			
	1,294,738 378,320 285,057 -124,948 61,629 32,509 - 18,681 916,418 222,305 189,132 49,355 208,454 10,041 48,268	value rate 1,294,738 -12.4 378,320 - 36.7 285,057 - 26.5 -124,948 - 61,629 194.9 32,509 31.9 - 18,681 - 916,418 4.0 222,305 4.1 189,132 4.5 49,355 10.3 208,454 51.2 10,041 39.3 48,268 - 13.7	Value Growth rate Composition ratio 1,294,738 -12.4 100.0 378,320 - 36.7 29.2 285,057 - 26.5 22.0 -124,948 - - 61,629 194.9 4.8 32,509 31.9 2.5 - 18,681 - - 916,418 4.0 70.8 222,305 4.1 17.2 189,132 4.5 14.6 49,355 10.3 3.8 208,454 51.2 16.1 10,041 39.3 0.8 48,268 - 13.7 3.7			

(Both figures) *Note*: Definitions of developed countries/regions and emerging/developing countries/regions are based on UNCTAD classifications.

Source: UNCTAD

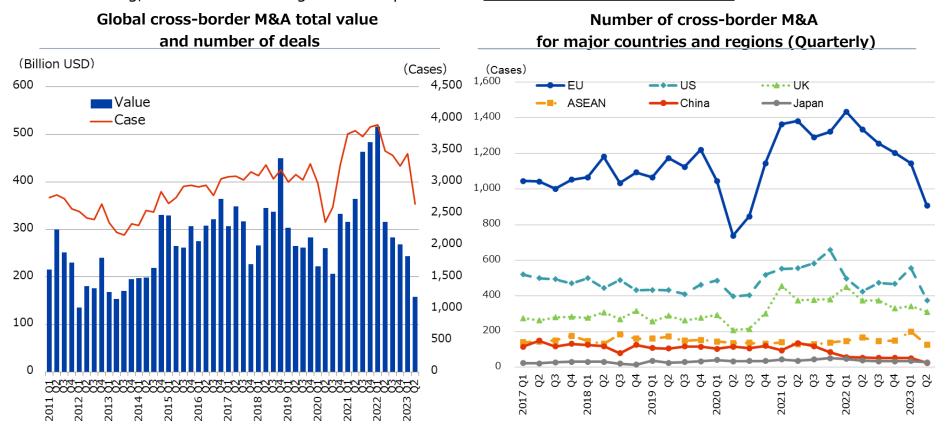
arowth rate

FDI in developed countries

(Million USD %)

2 Cross-border M&A peaked out in 1Q22

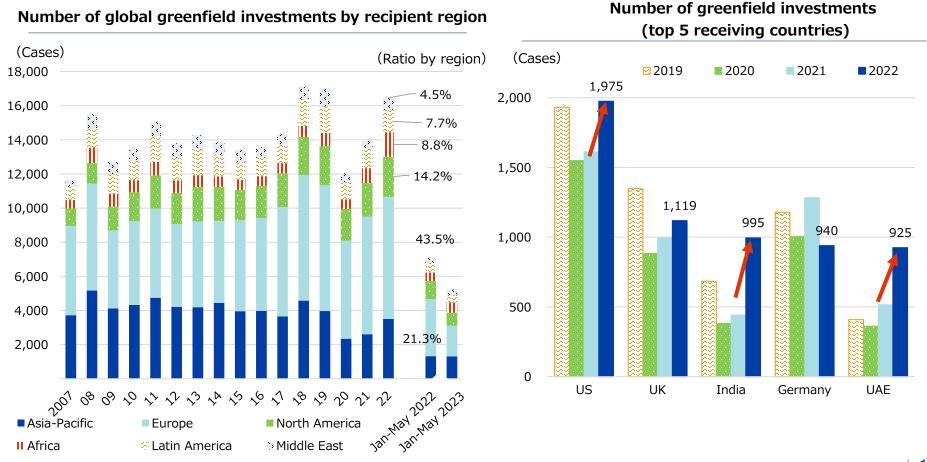
- Global cross-border M&A declined 14.8% to \$1,386.1 billion in 2022. The decline began in the second quarter of 2022 due to monetary tightening and increased uncertainty from the Ukraine conflict.
- In the EU and the U.S., the number of mergers and acquisitions in the second quarter of 2023 will fall to the level seen immediately after the COVID-19 outbreak in 2020. **In China**, where economic recovery is slowing, the number of mergers and acquisitions is **at its lowest level since 2010**.



(Both figures) *Note*: Data up to the second quarter of 2023. *Source*: Workspace (Refinitiv) (as of July 4, 2023)

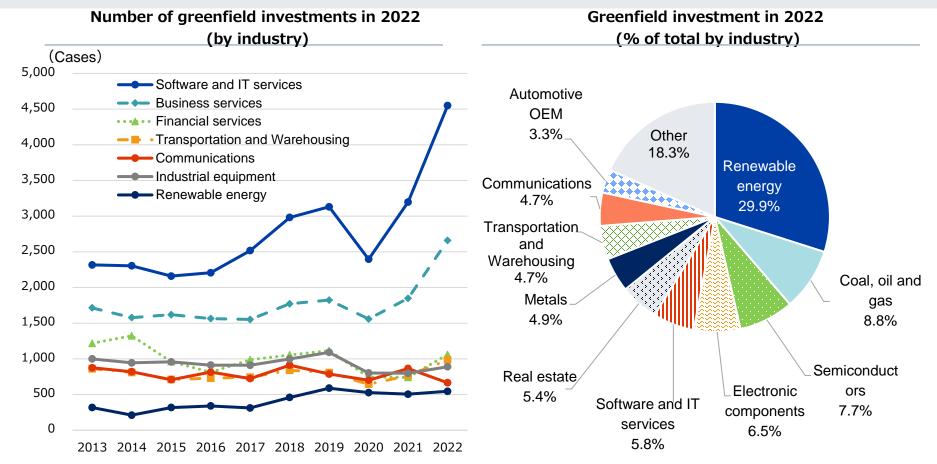
3 Global greenfield investment is strong

- <u>The number of global greenfield investments in</u> 2022 <u>(announced basis</u>) increased <u>17.6% to</u> 16,456. The level is close to the record high of 2018-19. Increases in the Asia Pacific, Africa, and the U.S. contributed to the increase.
- Investment in India surged 2.3 times that of the previous year, moving the country up to third place from seventh the previous year. Meanwhile, China, which ranked 7th in the same category in the previous year, did not do so well, falling 23.8% to 13th place (336).



4 Mega investment projects in renewable energy and semiconductors

- The increase in the number of global greenfield investments in 2022 is due to <u>strong growth in software</u> and IT services (+42.3%) and business services (+43.9%), as in the previous year.
- In value terms, the market increased by 63.7%. Driven by mega projects in renewable energy, fossil fuels, and semiconductors.



Note: Only the top seven industries are listed. (Both figures) *Source*: FDI Markets (Financial Times)

5 Competition to attract industry with huge subsidies and tax credits

- Major countries and regions, such as the U.S. and the EU, have been trying to attract Net Zero projects through massive subsidies and tax credits. <u>Competition to attract climate change-related projects is intensifying</u>, <u>involving large financial outlays.</u>
- The U.S. Inflation Reduction Act was the direct trigger for the EU Green Deal Industrial Plan in February 2023.

policy

competition



Inflation Reduction Act (enacted August 16, 2022)

- ✓ Largest expenditure in history (about 437 billion dollars over 10 years)
- Approximately \$369 billion in subsidies and tax credits for renewable energy and EV technology deployment projects
- ✓ Various requirements to strengthen Buy American policies in the application of tax credits, etc.
- ✓ Tax credits for EVs must meet <u>procurement</u> <u>requirements (see table below) for critical minerals</u> <u>and battery components.</u>

Important minerals in bamaterials	attery	Production and assembly of battery components		
% of material extracted/pr countries with which the U or recycled in North Ameri	.S. has FTAs	% of the price of items or assembled in North		
Sales period	Proportion	Sales period	Proportion	
During 2023	40%	During 2023	50%	
During 2024	During 2024 50%		60%	
During 2025 60%		During 2026	70%	
During 2026	70%	During 2027	80%	
After January 1, 2027	80%.	During 2028	90%	
		After January 1, 2029	100%	

Note: Critical minerals and battery components involving foreign entities of concern will be excluded from the deduction beginning in 2025 and 2024, respectively.

*Only vehicles assembled in North America are eligible for the tax credit.

Source: U.S. Internal Revenue Service

Green Deal Industrial Plan (announced February 2023)

- ✓ The plan was presented as a countermeasure to the U.S. Inflation Reduction Act, seen as a threat to the EU's Net Zero industry (see table below for a summary).
- ✓ Full-scale support for the location of global companies to prevent their net-zero industrial base from relocating outside the EU.
- ✓ Adopted the Interim Crisis and Transition Framework, which relaxes EU state aid regulations. Member states may provide up to a certain percentage of state aid for investments in related industries.

investments in	investifients in related industries.				
Main policies	Point				
Net Zero Industry Bill	Improving the regulatory environment, including expediting and simplifying licensing procedures for clean technology projects				
Important Raw Materials Bill	Identify strategic raw materials to strengthen the value chain and diversify sources of supply				
Relaxation of state aid rules	Enabling the provision of state aid for production activities of enterprises in netzero industries				
Establishment of the European Hydrogen Bank	Compensate for the difference in production costs between green hydrogen and fossil fuel-derived hydrogen to encourage green hydrogen-related investments				
Creation of the European Sovereignty Fund	Details of new budgets providing subsidies at EU level to be announced by summer 2023				
Launch of new trade- related initiatives	Creation of an important raw materials club by volunteer countries, international partnership in				

Source: European Commission

Semiconductor industry support measures to be introduced in major countries and regions

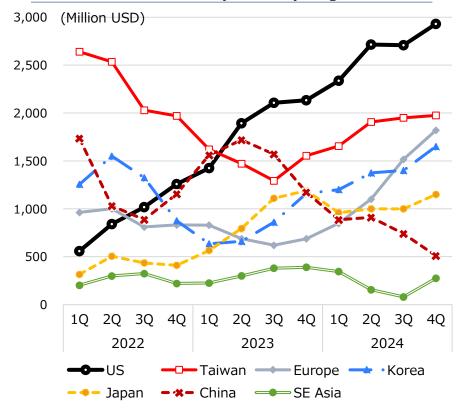
- While the semiconductor market is in decline, governments of major countries and regions are **intensifying** competition to attract semiconductor manufacturers in order to secure a stable supply of semiconductors for mid- to long-term market expansion, expanding support for global companies by investing huge budgets.
- In May 2023, Japan's Ministry of Economy, Trade, and Industry (METI) released a revised draft of its "Semiconductor and Digital Industry Strategy," setting a new goal of achieving "total sales of over 15 trillion ven for companies producing semiconductors in Japan" by 2030 (approximately triple the 2020 level).

Sem	Semiconductor industry support measures in major countries and regions (2022 and beyond)					
	Policy and rationale	Support				
US	The CHIPS and Science Act (CHIPS Plus Act) (effective August 2022)	Subsidies for the construction, expansion, or modernization of domestic facilities and equipment for the design, manufacture, and research and development of semiconductors (\$39 billion worth) Promotion of semiconductor-related R&D programs under the jurisdiction of the Department of Commerce (\$11 billion). A 25% tax credit for investments in semiconductor manufacturing.				
EU	·	The European Semiconductor Initiative consists of: 1) financial support for semiconductor R&D and production; 2) incentives for semiconductor production facilities; and 3) semiconductor supply chain monitoring and crisis response. The total amount of financial support and private investment by the EU and its member states is expected to be 43 billion euros. Of this amount, the EU budget allocated through 2027 is limited to 3.3 billion euros as proposed by the European Commission.				
Taiwan	(Articles 10-2 and 72) (effective January 2023)	The tax deduction is 25% of research expenditures for advanced technology and 5% of expenditures for new equipment and facilities used for advanced processes. The deduction is based on the size of the research and development project and the ratio of research and development to net sales. The total amount of the credit must not exceed 50% of the corporate tax amount.				
Korea	·	The tax credit rate for capital investment in national strategic technologies, including semiconductors, was increased from 8% to 15% (with an additional 10% credit).				
Japan	Introduction of Specified Advanced Information, etc.	The second supplementary budget for FY2022 will be used to strengthen the semiconductor industry, including securing domestic production bases for advanced semiconductors and strengthening the infrastructure for next-generation information and telecommunications systems. The second supplementary budget for FY2022 allocates a total of 1.3 trillion yen to strengthen the semiconductor industry.				
Source	e: Government documents in each country	y and region.				

7 Investment in semiconductor plant construction

- Despite the deteriorating semiconductor market conditions, <u>investment in semiconductor front-end factory construction</u> is expected to reach a <u>record high in 2023.</u> According to international industry associations, a total of 97 construction projects will be underway this year, including 29 new construction projects worldwide.
- <u>The largest investment related to front-end factory construction in</u> 2023-2024 will be <u>for the U.S.</u>, followed by Taiwan. In the U.S., TSMC, Intel, and others are making progress with plans for large construction plants, assuming the application of subsidies under the CHIPS Plus Act.

Semiconductor front-end plant construction investment by country/region



Source: SEMI (March 2023), World Fab Forecast 1Q 23 Edition

Major FDI projects in semiconductors (Jan 2022 - May 2023)

(Billions USD)

		(2	10113 000)
Company (headquarters location)	Date of publication	Investment destination	
TSMC (Taiwan)	November 2022	US	280.0
Vedanta Resources (UK)	September 2022	India	195.0
Intel (US)	March 2022	Ireland	133.7
UMC (Taiwan)	February 2022	Singapore	50.0
Global Wafers (Taiwan)	February 2022	US	50.0
Micron Technology (US)	May 2023	Japan	37.0
IGSS Ventures (Singapore)	June 2022	India	32.2
ISMC (International Federation of Companies) (Israel)	May 2022	India	30.0
Infineon Technologies (Germany)	February 2022	Malaysia	22.0
STMicroelectronics (Switzerland)	July 2022	France	13.7
Merck (Germany)	April 2023	US	12.8
On Semi (US)	July 2022	Korea	10.0
(Source: fDi Markets (based on an	nouncement) 2	023 JETRO. All rights	reserved.

B Japan's outward FDI declined year-on-year, with M&As down 70%.

- <u>Japan's outward FDI in 2022 declined by 16.4% year-on-year</u> to \$175.6 billion, with few large-scale projects. Due to the sharp depreciation of the yen, FDI on a yen basis increased by 0.8% to 23 trillion yen. FDI in the first five months of 2023 also remained weak.
- Due to the weak yen and monetary tightening, <u>outward M&A (execution value) in 2022 was \$24.1 billion</u>, <u>down about 70% from the previous year</u>. This is the lowest level since 2009 (\$21 billion), when M&A fell due to the global financial crisis.

Trends Japan's outward FDI by type

(Billion USD) 300 Debt instruments Reinvestment of earnings 250 Equity capital Outward FDI 200 150 100 50 かかかかややりゃかかかか (In both of the charts)

Japan's outward FDI by country/region

				Jan May	
		2022	Growth rate	Jan-May 2023 (P)	Growth rate
A	sia	41,976	- 34.4	15,927	- 3.1
	China	9,185	- 25.2	3,423	- 5.4
	ASEAN	21,407	- 40.3	8,296	16.7
	Singapore	5,775	- 71.8	3,389	164.1
	Thailand	6,242	43.7	1,683	0.3
Ν	orth America	63,659	- 24.6	14,441	- 40.3
	US	61,025	- 26.4	13,635	- 40.7
La	atin America	14,201	31.3	5,332	- 2.6
O	ceania	11,358	47.3	4,415	- 14.9
Е	urope	42,052	2.4	19,896	53.3
	Germany	5,050	- 32.4	2,271	4.8
	United Kingdom	7,263	- 58.4	4,146	123.8
	Switzerland	5,021	49.5	1,767	13.5
W	/orld	175,557	- 16.4	61,601	- 6.2

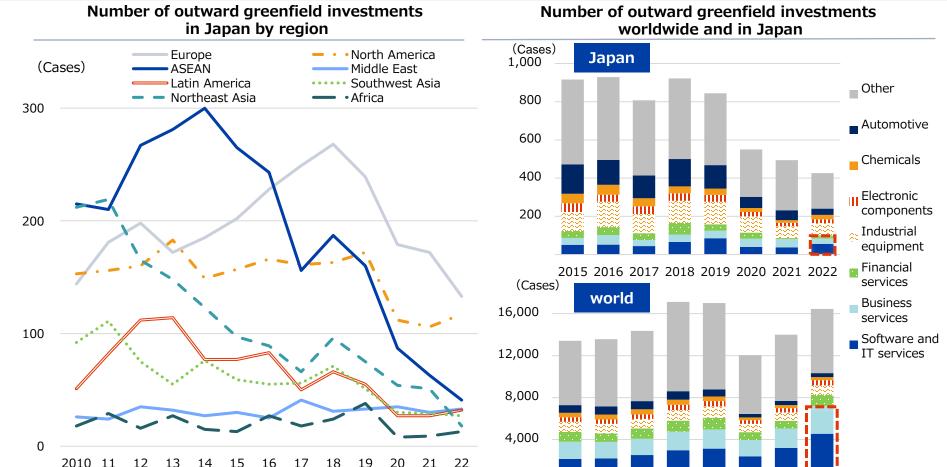
Note: JETRO converted the figures disclosed in JPY into USD

Source: "Balance of Payments Statistics" (Ministry of Finance, Bank of Japan)

(Million USD, %)

9 | Japan's outward greenfield investment shrinking

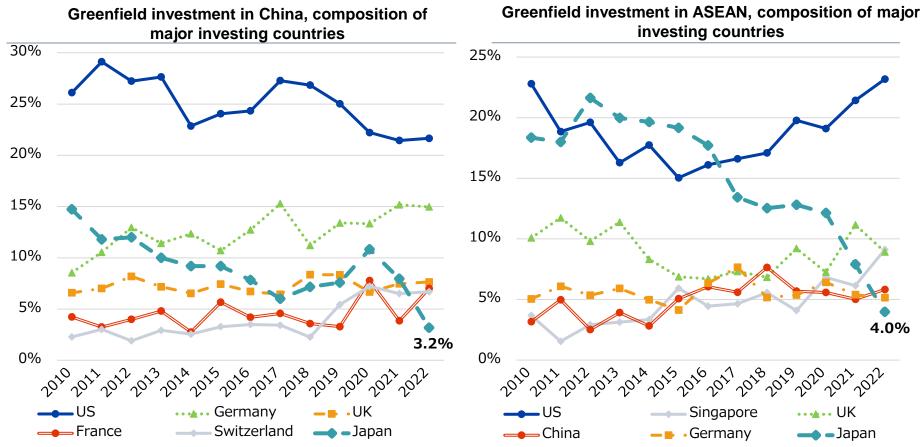
- In 2022, Japan had 423 outward greenfield investments, a record low for the third consecutive year.
- Worldwide, software/IT services and business services, which account for 40% of all industries, led growth. Japan saw sluggish growth in the number of investments in this sector, while the <u>mainstay industrial</u> <u>equipment and transportation equipment saw downward pressure</u>.



2015 2016 2017 2018 2019 2020 2021 2022

10 Japan's presence declines noticeably in investments for major Asian countries

- <u>Japan's presence</u> as a major investor in greenfield investments in China and Southeast Asia (numbers, announced basis) <u>has declined markedly</u>, with its share of total investment in China falling to 3.2% in 2022.
- While global greenfield investments in ASEAN in 2022 totaled 1,031, exceeding 1,000 for the first time in three years, investments from Japan, the second largest investor on a cumulative basis, totaled 41, down more than 20 from 63 the previous year.



(In both of the charts)

III. Trade Rulemaking

~ Trade and investment restrictions based on economic security increasingly impose higher costs on businesses~

1 | EU+18 impose Russian sanctions

- As of June 2023, 45 members, including EU-27, have imposed trade sanctions against Russia. The **G7**, **EU**, and Australia launched a price cap for Russian oil in December 2022.
- In response to food insecurity, over 35 countries introduced 96 export restrictions on agricultural products in the year since the invasion of Ukraine. Of these, only 13 were reported to the WTO.

Export restrictions on Ukraine war (in force, June 2023)



agricultural products

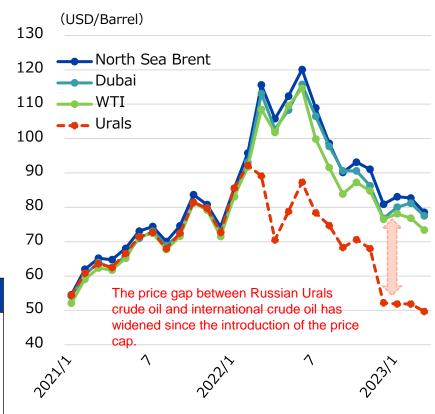
Effective export restrictions on non-

Effective export restrictions on both agricultural products (Source: ITC (as of June 30, 2023))

Price cap for Russian oil (G7, EU, Australia)

Coverage	Price cap	Start date	Contents
Crude oil	\$60	Dec 5, 2022	Sea shipment and
Oil products at a premium to crude oil (diesel, kerosene, gasoline, etc.)	\$100	Feb 5, 2023	insurance banned if the price exceeds the cap. Otherwise, it is
Oil products discounted against crude oil (fuel oil)	\$45	Feb 5, 2023	required to submit price certification.

International crude oil price (monthly average)



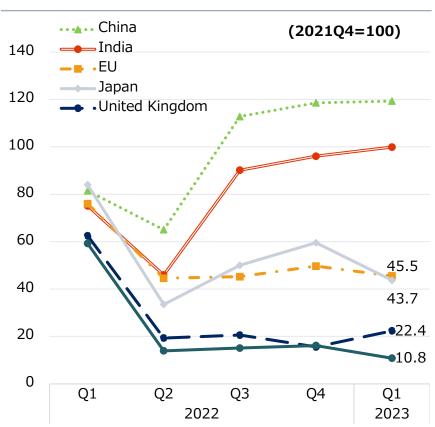
Source: World Bank. Prepared based on Commodity Prices, etc.)

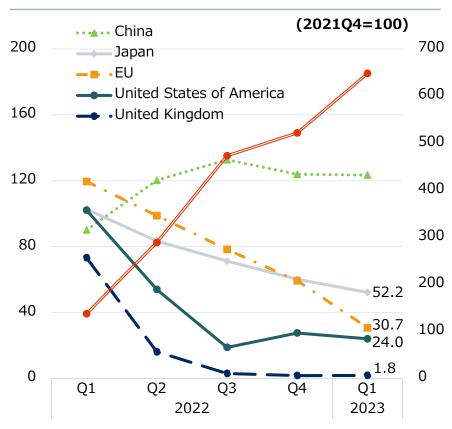
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2 | Fragmentation seen in trade with Russia

- The G7 and EU have decreased their trade with Russia since the 1Q of 2022 on pre-invasion basis after they imposed Russian sanctions late February 2022.
- India and China increased imports of Russian oil below international prices. <u>India's imports in</u> the first quarter of 2023 are about 6.5 times higher than in the fourth quarter of 2021.

Exports to Russia by countries/regions (index basis) Imports from Russia by countries/regions (index basis)





Source: Global Trade Atlas

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3 A New Perspective on Trade

- The US and Europe suggest a shift in the conventional view of free trade and globalization, as supply-chain resilience and geopolitical risks have risen as more urgent policy agendas.
- International cooperation frameworks have evolved based on this new perspective. Concrete outcomes have been developed to deal with economic security.

US



President Joe Biden

- [T]he fundamental changes taking place in terms of international trade.
- [W]e found the cheapest labor in the world···sent the work to those···I'm not doing that anymore.
- [W]e are <u>attracting capacity to build here in</u> the United States.

Joint press conference after the US-UK summit on June 8, 2023

EU



Ursula von der Leyen, President of the European Commission

- [W]e also have to be clear-eyed about a world that has become more contested and geopolitical.
- [T]he topic of economic security has become a
 priority for us and for many of our partners.
 at release of the Economic Security Strategy on June 20, 2023

Jake Sullivan, National Security Advisor



- [E]conomic dependencies that had built up over the decades of liberalization had become really perilous.
- [I]n the name of oversimplified market efficiency, entire supply chains of strategic goods... moved overseas.

Brookings Institution on April 27, 2023



Charles Michel, European Council president

- We must restore the proper balance in our economic relations with China
- We need to <u>address critical supply chain</u> <u>vulnerabilities</u> and protect European interests."

Post-EU summit press conference, June 30, 2023

G7

De-risking = NOT "decoupling" Supply chain resilience Critical minerals / semiconductors / batteries

Economic coercion

Adjustment platform

Multilateral export controls

TTC

Emerging technology
Generative AI /

EV charging and 3D printer standardization

Sustainability
Coordination on incentive
/ HRDD collaboration

Economic security

Simplification of re-export control / Legacy semiconductor overproduction

Digital

6G / International assistance

4 | Countering economic coercion as a key

- The US, EU and Japan have <u>clearly stated that countering "economic coercion" will be a</u> <u>major trade policy challenge</u>. Unilateral countermeasures are being developed.
- Multilateral coordination on the countermeasures regarding China have also progressed.

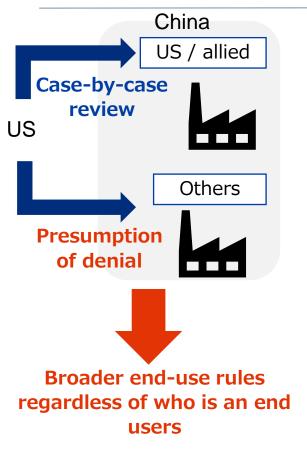
Countemeasures on economic coercion by major countries / Multilateral coordination

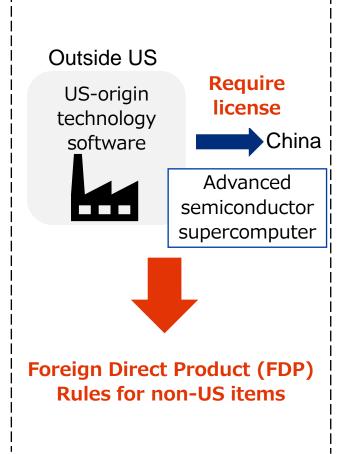
Country & region/framework	Countermeasures against economic coercion
EU	In March 2023, the Commission had reached a political agreement on the Draft Regulation on Anti-Coercion (published in December 2021), which would allow the implementation of countermeasures on economic coercion by non-EU countries. If they imposes economic coercion on the EU or a member state, such as trade or investment restrictions, the Commission will consider countermeasures and, with the approval of the member states, implement them.
US	"The Countering Economic Coercion Act" reintroduced to the Senate in February 2023 includes a provision that gives the President the authority to reduce tariffs and take trade promotion measures on products from countries and regions affected by economic coercion, in addition to countermeasures.
Japan/US	Both parties agreed to counter economic coercion and unfair and unclear lending practices in July 2022. Both committed to cooperate with like-minded partners to address and respond to economic coercion, effectively counter non-market policies and practices, and deliver a coordinated message to the international community, including multilateral fora such as the WTO, OECD, G7, and G20.
US, EU	The parties affirm the willingness to cooperate and explore joint initiatives with other like-minded countries to identify and assess economic pressures, enhance resilience, and deter and counter them, and to use the means at their disposal to counter economic pressures to the fullest extent.
G 7	It expresses serious concern about economic coercion and urges all countries to refrain from its use. It launched a "Coordination Platform against Economic Coercion" and proposed early warning, rapid information sharing, regular consultations, situation assessment, pursuit of a coordinated response, and countermeasures against coercion. A commitment to assist countries and entities subject to intimidation.
Australia, Canada, Japan, New Zealand, UK, US	In June 2023, these parties issued a Joint Declaration against Trade-Related Economic Coercion and Non-Market Policies and Practices. They committed to strengthen international cooperation to effectively deter and address economic coercion and non-market policies and practices.

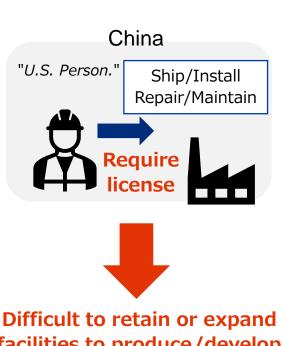
New era of export control, semiconductors at stake

- New US export control rules for China over advanced semiconductors on October 7, 2022, **have a wider impact on the supply chains** of global companies.
- This is a departure from the traditional approach of targeting individual entities of concern.

U.S. export controls related to advanced semiconductors (equipment) to China (October 7, 2022)





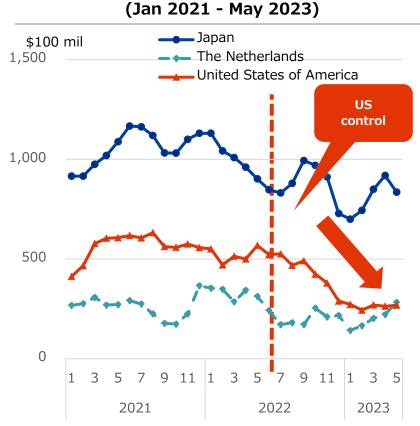


facilities to produce/develop advanced semiconductors

6 | Spreading export controls hit Japan

- The US export controls have had an indirect impact on companies even if they are not under its control. Some have <u>lost sales to US companies and refrained from exporting to China</u>.
- China regulates minerals for semiconductors, followed by trilateral controls.

China's imports of semiconductor production equipment



Note: HS8486, imports are 3-month backward moving averages.

Source: Global Trade Atlas

Company comments

- All shipments of advanced equipment from U.S. manufacturers to China have stopped. The impact (decrease in orders) was significant.
- Japanese and US equipment are complementary, not competing. Without U.S.-made equipment, there is no point in installing Japanese equipment.
- The company can hardly export to China's advanced semiconductor production facilities, due to hesitant for export to to avoid being investigated.

Source: Interviews by JETRO

Export control related to semiconductors

Rules / Subject items
23 equipment items (deposition, exposure, cleaning, edging, etc.). Blanket license is applicable to 42 countries and regions.
Eight items, including deep ultraviolet (DUV) lithography Extreme ultraviolet (EUV) lithography systems are covered starting in 2019.
Gallium and germanium related items used in next generation semiconductor materials, etc., Exporters are required to submit proof of end-user and end-use applications on application.

Source: Press release by Governments Copyright © 2023 JETRO. All rights reserved.

7 | Information to manage risk

- Beyond trade compliance, management of business risks related to economic security requires
 analysis of a wide range of information regarding products, business partners, end-use.
- Among many responses to risks, reviewing the supply chain requires complex considerations.

Illustration of risk management response

	Thustration of risk manage	
Scene	Examples of correspondence	
Before transaction	In transactions, note the following (see the figure on the right). ◇Is it subject to the regulation? ◇Any security concerns with partners? ◇Any risk of military diversion?	
Contracts	Anticipate that they will be exempted if sanctions make transaction unfillable. Adopt a "force majeure," which exempts the supplier from liability in the event of unforeseeable events (e.g., regulations, natural disasters, wars, etc.). Exclude executives who may be subject to export control from the decision making process. Aware of a risk of discrimination if nationality is a hiring requirement.	
Reviewing supply chains	Diversify suppliers and/or transactions. Avoid large volume orders at a single time. Consider the following in supply-chains Relationship with the country/region Critical items or NOT Introduction of security-related regulations Investment incentives FTAs that lead to cost reduction Reputation risk, etc.	

Matters that require attention



Product

- Subject to export controls?
- Any risks to human rights?
- Critical/emerging technologies?

Who

Counterparty

- Any entities of concern?
- Any restrictions on the destination?
- Any suspicions in the transaction? (Refusal to witness or installation/nondisclosure of information, etc.)

How

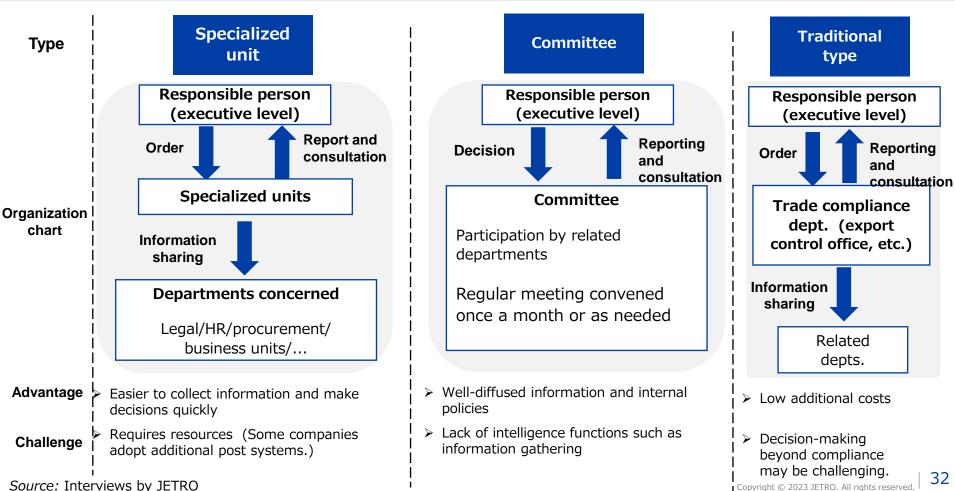
Use

- Aware of the uses?
- Any risks of military use?
- Performance match the business purpose?

Source: Interviews by JETRO

Japanese firms building structure for economic security

- While there are various patterns in systems to deal with economic security, awareness of its need is increasing. The rise in geopolitical risks have led to a movement to establish specialized units.
- Some do not set up specialized units, but rather use a meeting body consisting of the person in charge and relevant departments, or as an extension of the existing system.



IV. Policies and Business for a Sustainable Society

~Evolving legalization and policy formation in human rights and environment: What companies are required to respond~

1 Global ESG bond issuance fell in 2022

- ESG bond issuance has been expanding year by year, but declined slightly in 2022 due to rising interest rates caused by monetary tightening by central banks in various countries. Despite this, green bond issuance in China and the EU has risen. China overtook the U.S. to become the top in the world.
- Financial authorities in the EU and the U.S. are <u>stepping up their scrutiny of "greenwashing"</u>, in which products and services claiming to be green are not so in reality. In countries such as the US, thorough information disclosure and the introduction of related regulations may have led to a decline in green bond issuance.

ESG bond issuance in the world

(Billions USD) 1,000 Africa 157.9 800 Latin America 159.5 115.7 Supranational 191.9 600 North America 120.6 204.6 Asia-Pacific 86.2 189.6 400 Europe 160.1 42.6 68.1 440.4 200 83.3 335.1 266.7 60.5 38.0 152.1 83.3 74.0 0 2017 2022 2018 2019 2020 2021

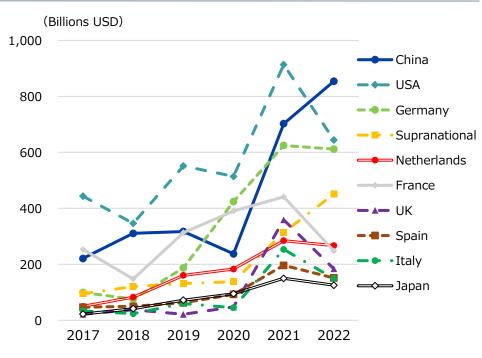
Note: As of the end of 2022.

ESG bond issuance is the sum of green, social, and sustainable bond issuance. Supranational includes the EU and the European Investment

Bank, etc.

Source: Created by publicly available data from the Climate Bonds Initiative.

World's top 10 countries, etc. in green bond issuance



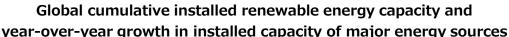
Note: As of the end of 2022.

Supranational includes the EU and the European Investment Bank, etc.

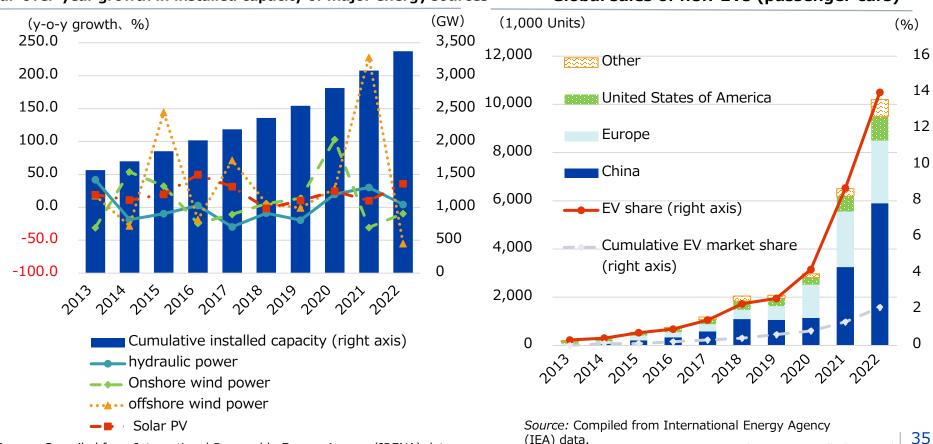
Source: Created by publicly available data from the Climate Bond Initiative.

Installed renewable energy capacity and EV sales steadily increasing The share of renewable energy in the world's installed electric power capacity is 40.2%,

- exceeding 40% for the first time, while the growth of wind power generation has slowed.
- Global EV sales exceeded 10 million units for the first time in 2022. The sales share is 14.0% and the cumulative share is 2.1%.



Global sales of new EVs (passenger cars)



(IEA) data.

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3 | EU implements Carbon Border Adjustment Mechanism (CBAM)

- In May 2023, a new system of border adjustment measures for greenhouse gas emissions came into effect, which will gradually replace the EU Emissions Trading Scheme's free emission quotas with a new measure against "carbon leakage" for specific import products from countries outside the EU region.
- The provisional application (transitional period) will begin in October 2023. Importers of the subject products will be obliged to report information such as total embedded emissions and the carbon price paid in the country of origin by one month after each quarter.

EU CBAM Timeline

(i) Submit quarterly CBAM reports during the transition period

(ii) The importer or agent needs to be an "Authorized CBAM Declarant".

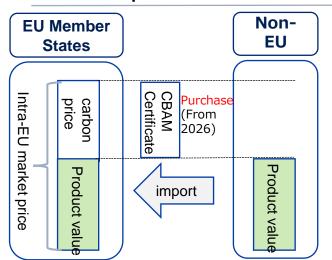
(3) Declare total emissions, purchase and submit CBAM certificates

Transition period begins October 2023 Prior to importation after full-scale application

Full-scale application starts in 2026

2034 free allowance abolished

Concept of the EU CBAM



Note: (1) Excluding countries/regions that are fully linked and integrated into the EU-ETS. (2) During the transition period, adjustments are made according to the free allowance of EU-ETS. In addition, a deduction could be made for the carbon price paid in the country of origin

Items covered by EU CBAM

Classification	Target products
Cement	Kaolin clay, cement clinker, white cement, alumina cement, other hydraulic cements
Electricity	Electric power
Fertilizer	Nitric acid and nitrous sulfuric acid, anhydrous ammonia and ammonia water, nitrates, nitrogen fertilizers and other fertilizers
Iron and steel	Iron and steel (except ferrosilicon, ferrosilicomanganese and other silicon compounds and steel scrap), condensed iron ore, steel sheet piles and welded steel shapes, rails (railroad construction materials), cast iron pipes, steel pipes and fittings, structures and parts thereof, steel storage tanks, drums, cans and other containers, screws, Bolts, nuts, rivets and other steel products
Aluminum (Al)	Aluminum ingots (except scrap), powder, flakes, rods and profiles, wires, plates, sheets and strips, aluminum foil, aluminum pipes and fittings, containers such as tanks, drums and cans, aluminum containers for compressed or liquefied gases, stranded wires, cables, braids, etc. (except electrically insulated) (excluding electrically insulated ones), and other aluminum products
Chemicals	Hydrogen

Note: (1) For details on eligible items, it is necessary to check the CN code.

(2) The Commission will evaluate whether to add additional products to be covered by the end of 202536

Source: European Commission, Council of the EU Copyright © 2023 JETRO. All rights reserved.

4 Decarbonization throughout supply chains

- An increasing number of companies are encouraging their suppliers to calculate and reduce greenhouse gas (GHG) emissions in order to reduce emissions throughout supply chains. Some companies are setting their own targets for their suppliers to set science-based emission reduction targets (SBT).
- For SMEs, to calculate and to get the picture of their emissions will not only maintain and strengthen relationships with existing clients, but will further lead to the development of new clients. Grasping emissions per product will help differentiate the company from competing products.

Classification of emissions in supply chains (schematic diagram)

Supply chain emissions = Scope 1 (in-house)
+Scope 2 (in-house)
+Scope 3 (upstream)
+Scope 3 (downstream)

Upstream (Scope 3)

- Raw materials
- Transportation and delivery
- Commuting
- Other

In-house Direct:

Fuel combustion (Scope 1)

Indirect:
Use of electricity
(Scope 2)

Downstream (Scope 3)

- Use of products
- Disposal of products
- Other

<u>Scope 1:</u> Direct greenhouse gas emissions by company-owned or controlled resources (fuel combustion, industrial processes)
<u>Scope 2:</u> Indirect discharge of GHG derived from the use of electricity, heat and steam supplied by other companies

Scope 3: Indirect emissions other than Scope 1 and Scope 2

(Emissions of other companies related to the activities of the operator)

Source: Ministry of the Environment, Ministry of Economy, Trade and Industry, etc.

Decarbonization policy in procurement

	Decarbonization policy in procurement			
	Company name	Target year	Summary	
-	Takeda Pharmaceutical	2024	Have suppliers responsible for 67% of emissions from purchased products and services, capital goods, and transportation and delivery (upstream) set SBT targets	
	comany	2024	Completion of SBT target setting by suppliers representing 80% of emissions for goods and services purchased	
	Genex	2024	Share GHG reduction targets with 90% of suppliers of products and services and have them develop SBT targets	
	Daiwa House Industry Co.	2025	Have 90% of suppliers set SBT targets	
	Sony Group	2025	10% equivalent of GHG in the supply chain raw material and component suppliers and contract manufacturers to set SBT-equivalent targets	
	Navtesco	2025	Have all major suppliers set reduction targets, aiming for SBT by 2030	
	Hamamatsu Photonics	2026	Have major suppliers, which account for 76% of emissions from purchased products and services, set SBT targets	
	Renesas Electronics	2026	Have suppliers (including outsourced production) set SBT targets equivalent to 70% of emissions from purchased products and services	
	Bridgestone	2026	Have suppliers set SBT targets for 92% of emissions related to purchased products and services	
	Sekisui House	2026	Increase materiality indicator "supplier SBT target setting rate" to 80%.	
	Source: Ministry of the Environment data, company websites			

Source: Ministry of the Environment data, company websites, and various media reports.

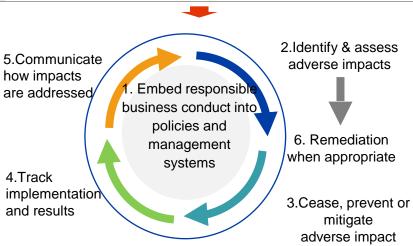
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Responsible behavior required of companies

• On June 8, 2023, the OECD revised the OECD Guidelines for Multinational Enterprises for the first time in **12 years.** The guidelines include a requirement for companies to align with internationally agreed targets on climate change and other issues, as well as the importance of conducting due diligence downstream in the supply chain. In September 2022, the Japanese government released "Guidelines on Respecting Human Rights in Responsible Supply Chains".

International Principles Calling for Voluntary Initiatives

	Major International Principles, Declarations, etc.
UN	The Ten Principles of the Global Compact
ON	Guiding Principles on Business and Human Rights
ILO	Declaration on Fundamental Principles and Rights at Work
ILO	Multinational Enterprises (MNE) Declaration
	Guidelines for MNE
OECD	(June 2023, first revision in 12 years)
	Due Diligence Guidance for Responsible Business Conduct



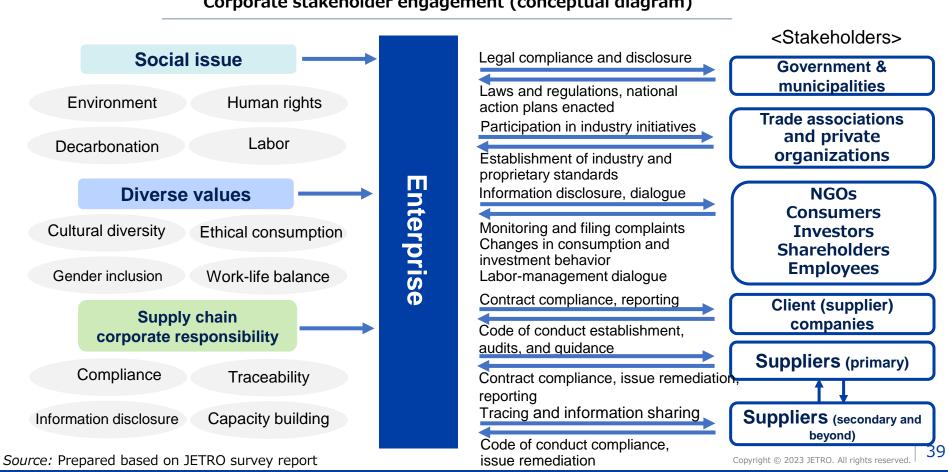
Structure of Japan's Guidelines on Respecting **Human Rights (September 2022)**

General remarks	Outline of business effortsApproach to efforts to respect human rights
Human rights policy	 Points for consideration when establishing a human rights policy Points for consideration after establishing a human rights policy
Human rights due diligence	 (1) Identification and assessment of adverse impacts (2) Prevention or mitigation of adverse impacts (3) Tracking effectiveness of the efforts (4) Communication and information disclosure
Remedy	Grievance mechanismState-based remedy mechanism

Sustainable and responsible procurement policy

- Companies are required to develop, manage, and operate responsible procurement policies to comply with their obligations in response to various social issues and to address requests from various stakeholders, including consumers and NGOs, both on their own and through their suppliers.
- Characteristics common to leading companies in sustainable procurement include participation in industry initiatives, risk management throughout the supply chain, and consideration of diverse values.

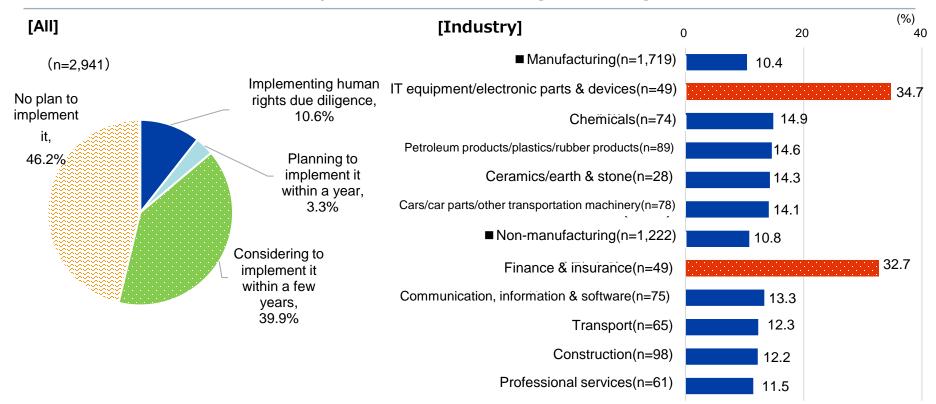
Corporate stakeholder engagement (conceptual diagram)



7 Human rights due diligence of Japanese companies on the move

- Japanese companies that have implemented human rights due diligence account for 10.6% of the total. Including those companies that "plan to implement it within a year" or "are considering implementing it within a few years," 50% of the companies are implementing HRDD or indicate a willingness to do so.
- In the information and communication machinery/electronic components and devices and finance and insurance sectors, 30% of companies reported that they "conduct" HRDD.

Status of implementation of human rights due diligence



Notes: (1) In both figures, "n" is the number of companies excluding "no response" from the number of responding companies. (2) "Plans to implement or considering implementation" is the sum of "Have not yet implemented but plan to implement within a year" and "Have not yet implemented but considering implementation within a few years".

Source: "FY 2022 Survey on the International Operations of Japanese Firms" February 2023 (JETRO)

JETRO Global Trade and Investment Report 2023

International Economy Division, Research and Analysis Department Japan External Trade Organization (JETRO)







- Note: The original report is available only in Japanese. Figures may not sum up to the total due to fractional units.
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