Korea Mineral Information 2009







Ministry of Knowledge Economy [MKE]

Korea Institute of Geoscience & Mineral Resources [KIGAM]

PREFACE

This publication is complied from a comprehensive database, maintained by Korea Institute of Geoscience & Mineral Resources(KIGAM), through which we aim to provide a reliable and continuous set of data covering major minerals of Korea. In this volume we have included 11 selected minerals which provide information on trends of supply-demand balance, import and export by country in 2009. The objective of this publication remains to present the latest complete information obtained from official bodies.

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REFERENCE

KIGAM "Korea Mineral Statistics 2009"
KIGAM "Monthly Mineral Statistics 2009.3～2010.2"
KEEI "Yearbook of Energy Statistics"
KORES "Mineral Reserves of Korea 2009"

Bank of Korea Economic Statistics System (http://ecos.bok.or.kr)
K.C.I.A Cement Statistics (http://www.cement.or.kr)
KITA Trade Statistics (http://www.kita.net)

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1 Major Indicators

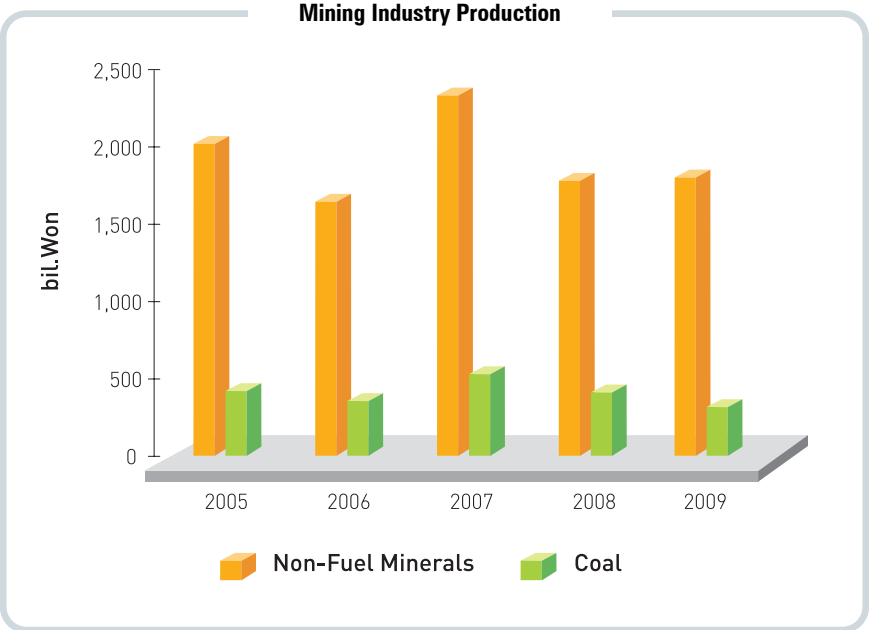
Mining Industry Production and GDP 2009

unit : bil. Won

GDP in 2009	1,063,059
Non-Fuel Minerals	1,731
Metallic	32
Non-metallic	1,699
Coal	256
Total Mining Industry Production	**1,987**

※ Source: Bank of Korea (Based on Tentative result)

※ Exchage rate : 1,276.4 Won/US$ (2009)

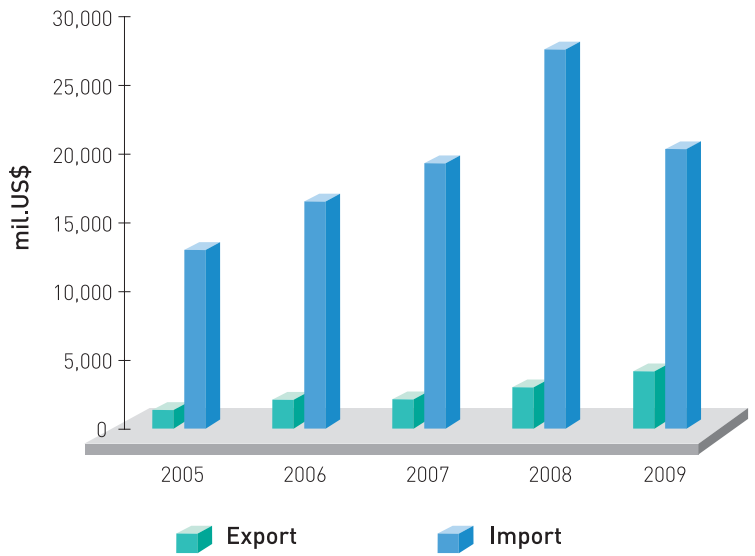


Shares of Minerals in Trade

unit : 1,000 US$

		Exports	Imports
Total Trade		363,533,561	323,084,521
Mineral Trade	Non-Fuel	3,614,775	10,833,375
	Coal	454	9,886,735
	Total	**3,615,229**	**20,720,110**

Mineral Trade (Coal Included)



1 Major Indicators

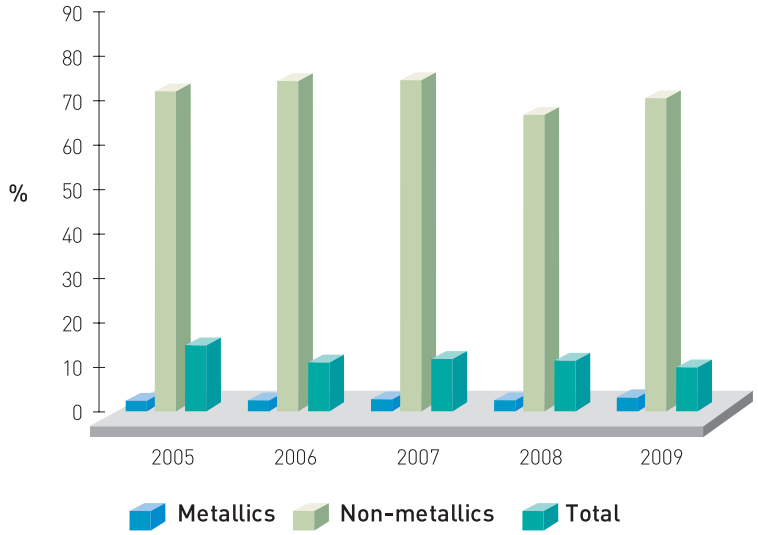
Non-Fuel Mineral Balance

unit : bil. Won

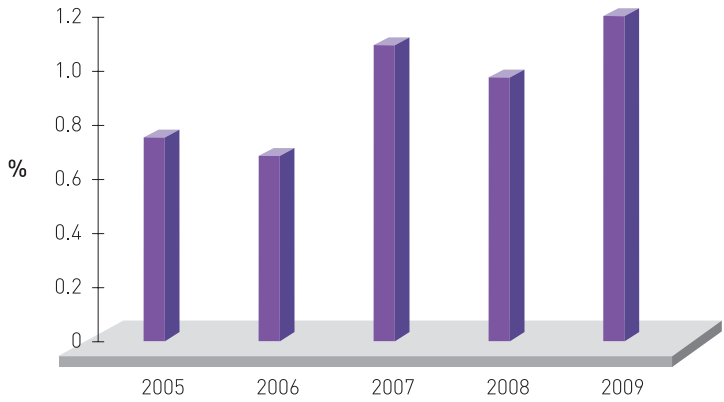
		2008	2009	2009/2008 (%)
Demand	Domestic Demand(A)	16,804.6	16,329.8	-2.82
	Exports(B)	2,544.2	4,613.9	81.35
		(2,307.5)	(3,614.7)	(56.65)
	Stock	524.3	423.5	-19.21
Demand(Supply) Total(C)		**19,872,6**	**21,367.3**	**7.52**
Supply	Production(D)	3,490.0	4,338.9	24.32
	(Domestic mine)(E)	(1,640.7)	(1,368.1)	(-16.62)
	Imports(F)	15,991.1	13,827.7	-13.53
		(14,503.2)	(10,833.3)	(-25.30)
	Previous Stock	391.5	3,200.6	717.53
Import Ratio (%)	**Total**	**90.24**	**91.62**	-
	Metallic	99.06	98.83	-
	Non-Metallic	34.44	31.51	-
Self-sufficiency Ratio (%)	**Total**	**9.76**	**8.38**	-
	Metallic	0.94	1.17	-
	Non-Metallic	65.56	68.49	-
Export Ratio (%)	**Total**	**12.80**	**21.59**	-
	Metallic	13.82	23.32	-
	Non-Metallic	5.77	3.49	-

* Exchange rate : 1,276.4 Won/US$ (2009)
* ( ) in export and import unit is mil. US$
* Coal is excluded
* (D) : the total production including byproducts from refineries
* (E) : Domestic mine site production only.
* Import Ratio = ((A-E)/A)*100
* Self-sufficiency Ratio = 1 - Import Ratio = (E/A)*100
* Export Ratio = (B/C)*100

Mineral Self-Sufficiency Ratio



Self-Sufficiency Ratio of Metallics

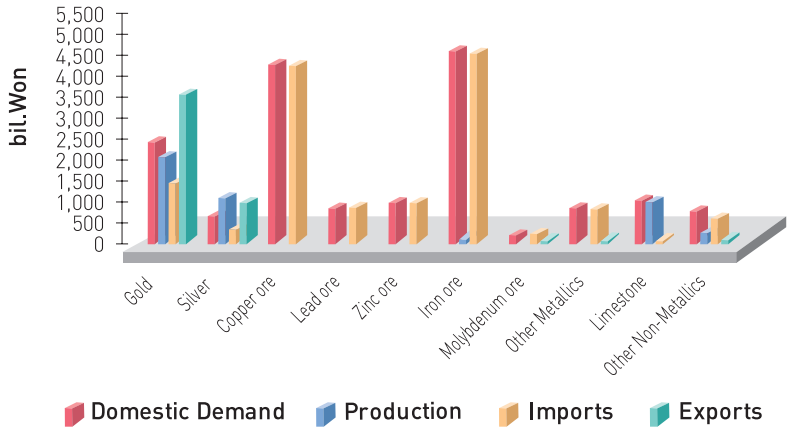


Mineral Commodity Balance 2009

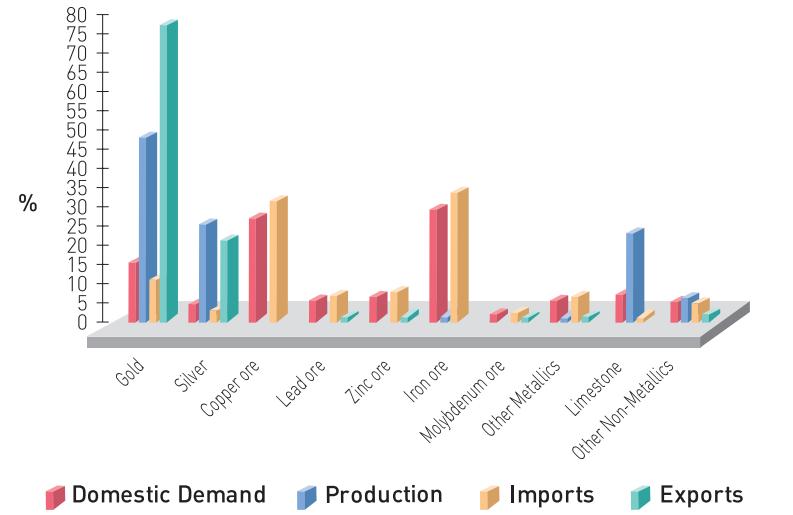
unit : bil. Won

	Commodity	Domestic Demand	Exports	Stock	Total Demand	Production	Imports	Stock (Pre. Y)
Metallic	Gold	2,393.8	3,518.9	57.6	5,970.3	2,041.5	1,423.0	2,505.8
	Silver	620.4	937.6	37.5	1,595.6	1,059.7	299.2	236.6
	Cu conc	4,254.1	0.9	51.1	4,306.1	0.0	4,203.8	102.2
	Pb conc	811.2	10.8	11.1	833.1	0.6	822.8	9.7
	Zn conc	947.2	7.1	62.7	1,017.1	1.7	946.8	68.6
	Iron ore	4,570.3	2.6	143.8	4,716.6	24.3	4,516.3	176.1
	Mo oxide	177.7	35.8	2.3	215.8	1.9	213.3	0.5
	Mn ore	188.3	0.9	0.6	189.7	0.0	189.7	0.0
	Ti ore	46.3	4.0	5.0	55.3	12.2	41.9	1.2
	Others	572.8	30.3	0.0	603.1	0.0	565.5	37.6
	Sub Total	**14,582.2**	**4,548.7**	**371.7**	**19,502.6**	**3,141.9**	**13,222.5**	**3,138.2**
Non - Metallic	Talc	12.7	5.9	0.3	18.9	0.6	18.1	0.2
	Pyrophyllite	21.6	3.5	11.0	36.1	23.8	0.1	12.3
	Feldspar	21.5	2.1	2.5	26.1	20.2	2.4	3.5
	Clay minerals	111.2	4.7	3.6	119.5	37.4	75.0	7.1
	Limestone	1,006.0	3.8	19.6	1,029.5	967.5	41.0	21.0
	Silica stone	84.6	0.5	3.9	88.9	72.7	12.4	3.8
	Silica sand	54.5	0.6	3.5	58.6	12.1	42.1	4.3
	Diatomite	15.7	0.6	0.0	16.3	0.0	16.3	0.0
	Phosphate	117.8	0.1	0.0	118.0	0.0	118.0	0.0
	Sulfur	29.4	23.6	0.0	53.0	51.9	1.2	0.0
	Serpentine	4.6	0.0	1.5	6.0	4.2	0.0	1.8
	Others	260.2	19.9	5.7	285.7	3.6	273.7	8.4
	Sub Total	**1,747.7**	**65.2**	**51.8**	**1,864.7**	**1,197.0**	**605.2**	**62.5**
	Total	**16,329.9**	**4,613.9**	**423.6**	**21,367.3**	**4,338.9**	**13,827.7**	**3,200.7**

Supply/Demand by Minerals



Share of Commodity in Supply-Demand



Imports of Non-fuel Minerals by Country

unit : Mil US$

	2007			2008			2009		
No	Country	Amount	%	Country	Amount	%	Country	Amount	%
1	Australia	3,073.9	25.0	Australia	4,571.4	31.5	Australia	3,421.2	31.6
2	Chile	1,528.3	12.4	Chile	1,626.5	11.2	Brazil	1,174.6	10.8
3	Peru	945.7	7.7	Brazil	1,546.4	10.7	Indonesia	1,148.2	10.6
4	S. Africa	913.0	7.4	S. Africa	981.5	6.8	Chile	896.5	8.3
5	Brazil	890.7	7.2	Peru	790.4	5.4	Peru	666.5	6.2
6	U.S.A	671.2	5.5	China	659.7	4.5	U.S.A	420.0	3.9
7	Indonesia	646.8	5.3	Hong Kong	509.5	3.5	S. Africa	412.0	3.8
8	China	609.7	5.0	Indonesia	485.9	3.4	Hong Kong	379.3	3.5
9	Switzerland	556.9	4.5	Japan	434.5	3.0	Japan	378.8	3.5
10	Japan	346.1	2.8	U.S.A	395.9	2.7	Germany	290.3	2.7
11	Hong Kong	306.7	2.5	Germany	334.7	2.3	Argentina	264.1	2.4
12	Argentina	281.1	2.3	Argentina	294.2	2.0	China	241.4	2.2
13	Germany	274.0	2.2	Switzerland	269.9	1.9	Canada	208.0	1.9
14	India	228.6	1.9	U.K	205.0	1.4	P.N.G	172.4	1.6
15	Bolivia	177.2	1.4	Bolivia	197.9	1.4	India	127.4	1.2
16	Canada	139.7	1.1	Canada	190.3	1.3	Mexico	123.3	1.1
17	U.K	104.5	0.8	India	180.5	1.2	New Caledonia	94.1	0.9
18	Mexico	101.3	0.8	P.N.G	159.9	1.1	Bolivia	61.0	0.6
19	P.N.G	101.3	0.8	Nauru	87.0	0.6	Philippines	50.0	0.5
20	Kazakstan	68.0	0.6	Gabon	69.1	0.5	U.K	36.2	0.3
21	Guinea	35.9	0.3	Morocco	63.0	0.4	Vietnam	21.2	0.2
22	Honduras	34.9	0.3	Mexico	57.2	0.4	Gabon	20.6	0.2
23	Morocco	30.6	0.2	Philippines	43.5	0.3	Mongolia	19.8	0.2
24	Philippines	24.4	0.2	New Caledonia	39.2	0.3	Morocco	18.8	0.2
25	Others	202.7	1.6	Others	310.1	2.1	Others	187.6	1.7
	Total	**12,292.8**		**Total**	**14,503.2**		**Total**	**10,833.4**	**100**

Top 5 Importing Countries

unit : %

Minerals	1,000 US$	1	2	3	4	5
Gold	1,114,876	Hong Kong(33.6)	Australia(25.6)	German (25.0)	Japan (12.8)	Switzerland(0.7)
Silver	234,443	Japan(66.8)	USA(14.4)	Australia(11.1)	China(3.0)	France(2.0)
Copper ore	3,293,513	Indonesia(34.7)	Chile(18.0)	ustralia(13.1)	Peru(9.3)	Argentina(8.0)
Lead ore	644,638	Australia(39.7)	Peru(26.2)	Chile(13.6)	U.S.A(7.7)	S. Africa(4.9)
Zinc ore	741,768	Peru(25.7)	U.S.A(22.3)	Chile(19.7)	Australia(13.5)	Mexico(7.1)
Iron ore	3,535,285	Australia(61.7)	Brazil(30.5)	S.Africa(4.0)	India(2.4)	Canada(0.9)
Moly oxide	167,124	Chile(30.6)	China(24.1)	U.S.A(22.9)	Mongolia(11.2)	Canada(2.7)
Manganese ore	148,641	Australia(61.1)	S. Africa(23.2)	Gabon(13.8)	Brazil(1.1)	U.S.A(0.4)
Titanium ore	32,855	Australia(51.9)	India(23.3)	Malaysia(16.5)	S.Africa(7.4)	Vietnam(5.2)
Zircon sand	7,435	Australia(68.5)	U.S.A(12.1)	S. Africa(9.0)	Ukraine(8.8)	China(1.3)
Bauxite	21,689	Australia(75.8)	China(24.2)	-	-	-
PGM	314,964	S. Africa(60.2)	U.K(10.1)	Japan(8.1)	U.S.A(6.9)	Russia(4.0)
C. Graphite	12,579	China(84.3)	Japan(9.5)	German(5.5)	U.K(0.5)	U.S.A(0.1)
Talc	14,174	China(82.3)	Japan(10.2)	U.S.A(3.3)	Italia(0.8)	France(0.6)
Kaolin	58,786	U.S.A(51.3)	China(29.0)	Brazil(7.9)	Japan(3.2)	Indonesia(2.2)
Limestone	32,100	Japan(43.4)	China(22.4)	Vietnam(16.7)	U.S.A(10.9)	Malaysia(3.2)
Silica stone	9,707	China(33.2)	Turkey(17.0)	SriLanka(15.9)	Japan(9.9)	India(8.2)
Silica sand	33,010	Vietnam(40.9)	Australia(30.1)	China(9.9)	Taiwan(8.6)	Malaysia(4.4)
Diatomite	12,752	China(47.8)	U.S.A(21.4)	France(15.1)	India(5.8)	Japan(3.9)
Fluospar	18,984	China(47.9)	Mexico(38.3)	Japan(5.7)	Mongolia(5.7)	Thailand(2.2)
Phosphate	92,431	China(47.2)	Morocco(20.3)	Togo(17.1)	Jordan(9.3)	Nauru(4.1)
Sulphur	925	Japan(65.7)	China(14.6)	Philippines(9.6)	U.S.A(7.8)	Indonesia(2.3)
Mica	28,246	Japan(40.7)	China(26.4)	U.S.A(20.9)	S.Africa(6.2)	India(1.7)
Magnesite	61,245	China(66.1)	Japan(25.0)	U.S.A(2.3)	srael(2.2)	U.K(2.2)
Gypsum	16,022	Thailand(44.5)	China(35.8)	Japan(9.7)	U.S.A(3.8)	Belgium(3.5)
Diamond	51,135	India(63.8)	Israel(13.3)	Belgium(11.0)	Hong Kong(5.2)	U.K(1.8)

Exports of Non-fuel Minerals by Country

unit : Mil US$

	2007			2008			2009		
No	Country	Amount	%	Country	Amount	%	Country	Amount	%
1	Japan	310,893	21.6	Hong Kong	572,255	24.8	Hong Kong	1,509,453	41.8
2	Hong Kong	213,971	14.8	Japan	435,341	18.9	Japan	578,326	16
3	China	183,789	12.7	China	218,016	9.4	Australia	342,617	9.5
4	Australia	137,172	9.5	Singapore	202,296	8.8	U.K	285,300	7.9
5	Singapore	135,324	9.4	Taiwan	189,765	8.2	Taiwan	241,936	6.7
6	Taiwan	125,508	8.7	Australia	186,851	8.1	China	167,391	4.6
7	Thailand	97,841	6.8	Thailand	172,758	7.5	Thailand	128,855	3.6
8	U.S.A	48,120	3.3	U.K	96,116	4.2	Singapore	126,578	3.5
9	Philippines	41,525	2.9	Philippines	56,428	2.4	Switzerland	112,106	3.1
10	India	39,912	2.8	Netherlands	47,238	2.0	Philippines	38,501	1.1
11	U.K	34,026	2.4	India	41,546	1.8	Malaysia	20,209	0.6
12	Netherlands	21,572	1.5	Malaysia	18,405	0.8	U.S.A	15,908	0.4
13	Vietnam	11,509	0.8	Swaziland	15,856	0.7	India	10,885	0.3
14	Malaysia	8,847	0.6	Vietnam	11,637	0.5	Vietnam	8,987	0.2
15	Turkey	8,295	0.6	U.S.A	11,049	0.5	Germany	7,589	0.2
16	Germany	6,776	0.5	Brazil	10,183	0.4	Indonesia	4,638	0.1
17	Indonesia	5,163	0.4	Indonesia	5,168	0.2	Netherlands	4,319	0.1
18	Brazil	3,525	0.2	S.Africa	1,597	0.1	Chile	3,658	0.1
19	Estonia	3,155	0.2	Qatar	1,519	0.1	Hungary	1,152	-
20	U.A.E	623	-	Mongolia	1,496	0.1	Turkey	818	-
21	S. Africa	594	-	Peru	1,346	0.1	Brazil	702	-
22	Belgium	531	-	Poland	1,135	-	Spain	561	-
23	Sri Lanka	503	-	U.A.E	1,002	-	Israel	500	-
24	Israel	485	-	Turkey	967	-	U.A.E	454	-
25	Others	2,007	0.1	Others	7,535	0.3	Others	3,333	0.1
	Total	**1,441,667**		**Total**	**2,307,505**		**Total**	**3,614,777**	

Exports of Major Minerals

unit: 1,000 US$

Mineral	2005	2006	2007	2008	2009
Gold	262,288	825,857	678,892	1,270,820	2,756,868
Silver	241,619	446,588	517,556	676,622	734,563
Sulphur	21,268	23,293	25,181	94,451	18,499
Moly ore	29,847	13,350	67,076	138,661	28,032
Clay	6,043	6,350	5,056	4,125	3,649
Magnesite	4,690	5,655	5,367	5,895	5,675
Titanium ore	4,165	5,229	7,060	6,655	3,109
Pyrophyllite	3,897	3,944	4,092	4,987	2,705
Diamond	3,905	3,345	4,230	6,640	4,042
PGM	47,349	2,475	77,490	59,455	22,587
Mica	381	2,097	3,097	2,737	3,250
Talc	1,268	1,855	2,316	3,103	4,649

Exports by Mineral Groups

unit: 1,000 US$

	2005	2006	2007	2008	2009
Precious Metal	551,256	1,274,920	1,293,938	2,006,897	3,514,018
Other Metallic ore	40,662	41,511	108,972	169,583	49,669
Non-metallic Mineral	47,844	53,456	58,636	131,024	51,088
Total	**639,762**	**1,369,884**	**1,441,667**	**2,307,505**	**3,614,775**

1 Major Indicators

Major Mineral Production

Mineral	Unit	2005	2006	2007	2008	2009
Gold	kg	42,485	43,505	47,078	37,989	51,186
*(Domestic origin)	kg	(1,853)	(1,582)	(3,098)	(1,593)	(2,024)
Silver	kg	1,218,849	1,377,659	1,393,935	1,461,886	1,740,078
*(Domestic origin)	kg	(41,489)	(56,256)	(57,369)	(76,196)	(81,512)
Lead ore	mt	100	34	24	449	2,064
Zinc ore	mt	153	32	4,067	3,672	4,441
Iron ore	mt	212,971	227,437	290,802	365,883	445,405
Titanium ore	mt	157,433	179,982	193,953	226,069	120,236
Talc	mt	83,471	64,118	9,557	6,438	5,997
Pyrophyllite	mt	885,559	677,465	798,054	892,625	617,411
Feldspar	mt	508,644	427,378	398,513	344,257	622,770
Clays	mt	2,767,091	2,399,458	2,630,358	2,494,162	2,115,239
Limestone	mt	81,432,069	79,404,053	86,121,391	87,281,780	81,611,729
Marble	mt	41,531	17,566	21,972	23,047	15,680
Silica stone	mt	2,868,370	2,920,676	3,510,699	3,325,162	3,536,372
Silica sand	mt	461,181	1,436,776	2,191,266	1,756,709	454,714
Diatomite	mt	2,193	3,460	2,360	2,540	2,440
Serpentine	mt	278,252	234,921	159,047	132,335	660,000
Mica	mt	36,623	30,356	42,385	49,474	150,321
Zeolite	mt	173,435	160,056	157,408	217,691	235,226

※ Domestic mine site production only

Shares of Production by Major Minerals

unit : %

Rank	Mineral	2005	2006	2007	2008	2009
1	Limestone	74.6	74.3	72.7	74.4	70.7
2	Gold(Domestic origin)	2.4	2.5	5.0	3.6	5.9
3	Silica stone	5.5	5.2	4.6	4.9	5.3
4	Silver(Domestic origin)	0.9	1.7	1.8	2.9	3.6
5	Clays	3.5	3.3	3.4	3.2	2.7
6	Iron ore	0.6	0.7	1.0	1.6	1.8
7	Pyrophyllite	2.7	2.0	2.2	2.6	1.7
8	Feldspar	1.9	1.3	0.9	0.8	1.5
9	Titanium ore	0.5	0.6	0.6	0.9	0.9
10	Silica sand	0.9	3.0	3.7	3.2	0.9
Cumulative Sum of 10 Minerals		**93.7**	**94.5**	**95.7**	**98.1**	**95.1**

Numbers of Operating Mines

Minerals	2005	2006	2007	2008	2009
Au-Ag-Cu	17	8	11	14	15
Pb-Zn	1	1	3	2	2
Iron ore	1	1	1	1	1
W-Mo	-	2	3	3	1
Other Metallics	3	3	4	3	4
Metallics sub-total	**22**	**15**	**22**	**23**	**23**
Graphite	2	2	1	-	-
Talc	3	5	4	3	3
Pyrophyllite	25	26	28	24	18
Feldspar	26	26	25	21	19
Clays	150	146	146	135	135
Limestone	132	128	130	126	124
Silica stone	43	45	39	45	40
Silica sand	22	20	16	20	16
Diatomite	3	3	2	2	1
Serpentine	5	6	5	7	3
Mica	23	21	18	20	16
Zeolite	12	11	8	11	10
Rock Crystal	5	4	4	1	2
Nephrite	5	2	4	5	1
Other Non-metallics	-	3	-	-	1
Non-metallics sub-total	**456**	**448**	**429**	**420**	**389**
Total	**478**	**463**	**451**	**443**	**412**

2 Mineral Commodity Summaries

2.1 Gold

Supply-Demand Balance

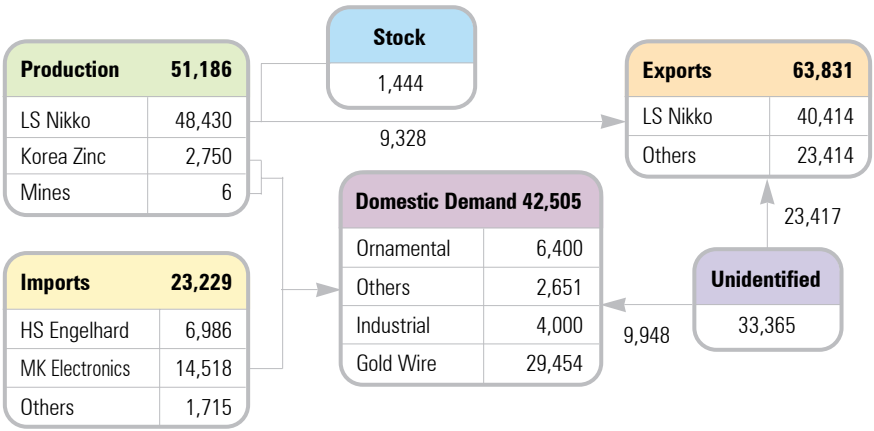
unit : kg

	2005	2006	2007	2008	2009
Domestic Supply	43,245	44,668	47,510	39,570	114,012
Import	56,742	42,916	60,610	48,382	36,874
Total	**99,987**	**87,584**	**108,120**	**87,952**	**150,886**
Demand	80,052	42,115	71,546	41,561	59,870
Export	19,935	45,469	36,574	46,391	91,017

* Stock data does not coincide with that of next year due to the grade difference of articles traded
* Trade data is sum of powder, unwrought and semi-manufactured
* Domestic supply : Production + Stock(pre.year)

Commodity Flow (estimated) 2009

unit : kg



* Unwroughted Gold only
* Production from LS Nikko, Korea Zinc is by-product of smelters

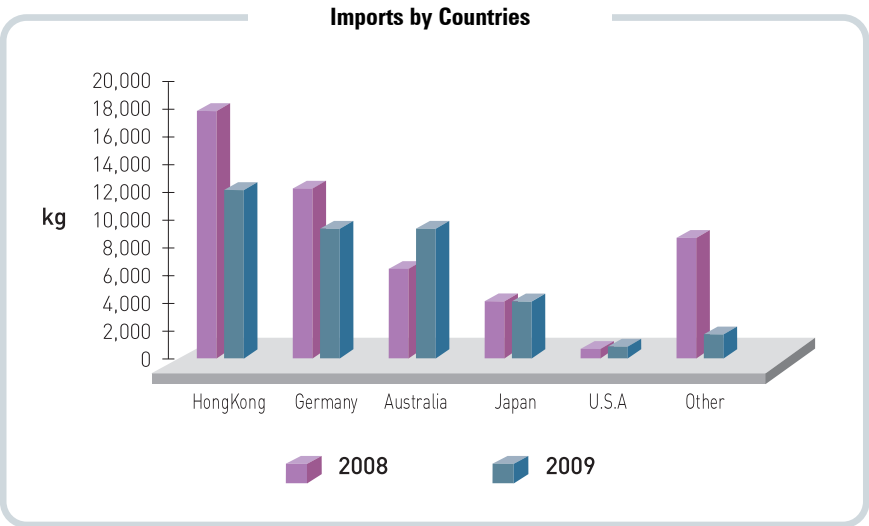
Imports

	2008		2009	
	kg	1,000 US$	kg	1,000 US$
Powder	9	40	53	992
Lump, billet, grain	23,385	661,147	10,918	344,581
Other unwrought forms	9,054	243,241	12,311	390,574
Wire for semiconductor	3,867	92,650	3,055	85,989
Other wire	173	1,372	104	1,018
Bars, rods and shapes	9,326	262,036	8,891	278,242
Plates, sheets and strips	549	13,195	146	3,953
Other	2,019	10,721	1,396	9,527
Total	**48,382**	**1,284,402**	**36,874**	**1,114,876**

Gold Commodities Imports by Major Countries : 2009

unit : kg

	Lump, billet, grain		Other unwrought forms		bars, rods and shapes		Other	
1	Australia	9,050	Hong Kong	10,470	Germany	8,879	U.S.A	497
2	Hong Kong	1,324	Japan	1,736	Hong Kong	8	Japan	247
3	Japan	258	Philippines	31	Turkey	2	Switzerland	113
4	Switzerland	200	U.A.E	18	Mexico	1	Liechtenstein	169
5	U.A.E	27	Cameroon	22	Ghana	1	Germany	134



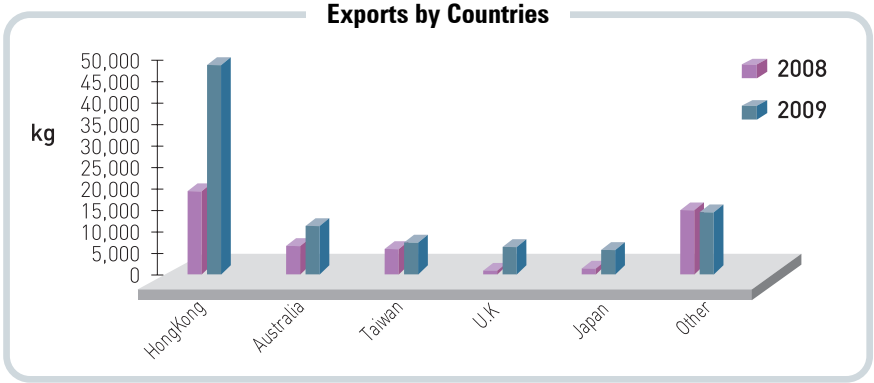
Exports

	2008		2009	
	kg	1,000 US$	kg	1,000 US$
Powder	1	6	11	72
Lump, billet, grain	29,310	820,931	50,117	1,560,158
Other unwrought form	577	15,207	13,714	421,904
Wire for semiconductor	11,748	309,274	12,895	365,308
Other wire	673	18,737	395	4,901
Bars, rods and shapes	2,279	60,349	7,9502	43,034
Plates, sheets and strips	1,329	34,290	4,737	139,771
Other	474	12,025	1,198	21,721
Total	**46,931**	**1,270,820**	**91,017**	**2,756,868**

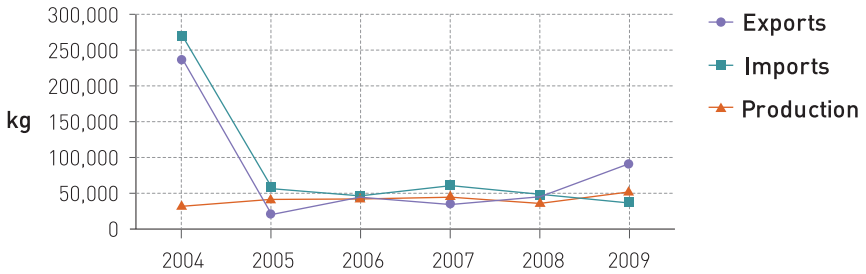
Gold Commodities Exports by Major Countries 2009

unit : kg

	Lump, billet, grain		Other unwrought forms		Bars, rods and shapes		Plates, sheets and strips	
1	Hong Kong	23,269	Hong Kong	12,783	Hong Kong	6,254	Hong Kong	4,598
2	Australia	10,800	China	683	Japan	1,402	Philippines	122
3	U.K	5,904	Vietnam	187	China	282	Japan	11
4	Switzerland	3,700	Japan	56	Singapore	8	Taiwan	1
5	Japan	3,571	Mexico	5	Vietnam	4	Indonesia	4



Trend of Exports/Imports, Production



2.2 Silver

Supply-Demand Balance

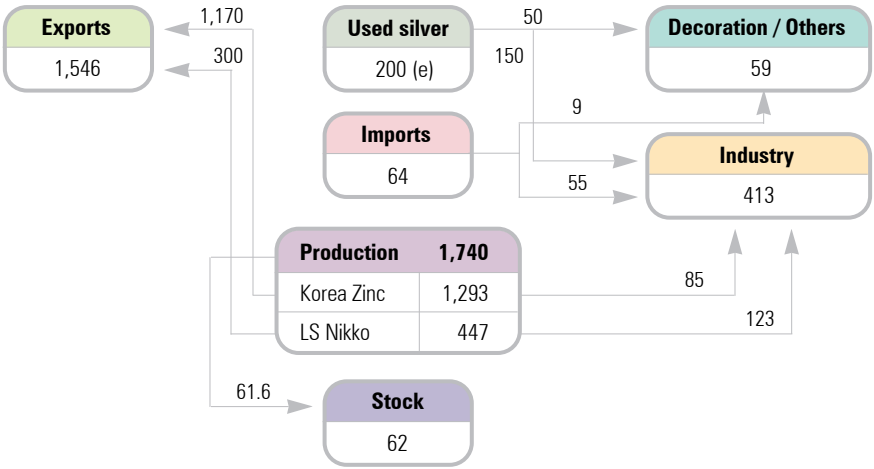
unit : kg

	2005	2006	2007	2008	2009
Domestic Supply	1,263,952	1,403,986	1,451,845	1,522,034	2,092,629
Import	663,703	1,184,122	1,207,046	1,238,023	1,068,933
Total	**1,927,655**	**2,588,108**	**2,658,981**	**2,760,057**	**3,197,561**
Demand	654,774	1,174,539	1,153,951	904,503	1,197,262
Export	1,272,881	1,413,569	1,504,940	1,855,554	2,000,300

※ Stock data does not coincide with that of next year due to the grade differences of articles traded.
※ Trade data is sum of Powder, Unwrought and Semi-manufactured.
※ Domestic supply : Production + Stock(pre.year)

Commodity Flow (estimated) : 2009

unit : ton



※ Unwroughted Silver only
※ Production from LS Nikko, Korea Zinc is by-product of smelters

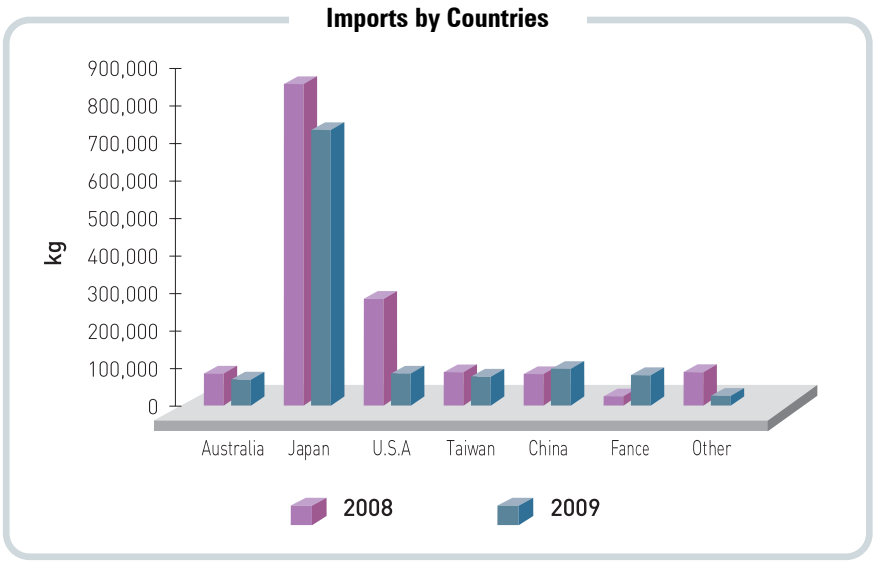
Imports

	2008		2009	
	kg	1,000 US$	kg	1,000 US$
Powder	960,642	241,712	941,960	194,615
Unwroughted(4N >)	113,016	56,564	62,851	30,025
Unwroughted(other)	44,752	21,216	1,414	545
Bars, rods and shapes	23,273	815	4,687	723
Plates, sheets and strips	6,380	2,274	6,496	2,688
Wire	75,683	7,904	45,172	4,423
Other	14,277	1,397	6,353	1,423
Total	**1,238,023**	**331,882**	**1,068,933**	**234,442**

Silver Commodities Imports by Major Countries 2009

unit : kg

	Powder		Unwroughted(4N >)		Unwroughted(other)		Other	
1	Japan	669,204	Australia	54,694	Japan	4,252	Japan	40,304
2	U.S.A	67,724	China	6,732	Thailand	281	France	2,122
3	China	76,380	Hong Kong	1,126	Germany	7	Germany	1,937
4	France	65,486	Canada	25	U.S.A	146	Taiwan	507
5	Taiwan	62,663	Japan	3	Spain	1	China	139



※ Silver ore is excluded

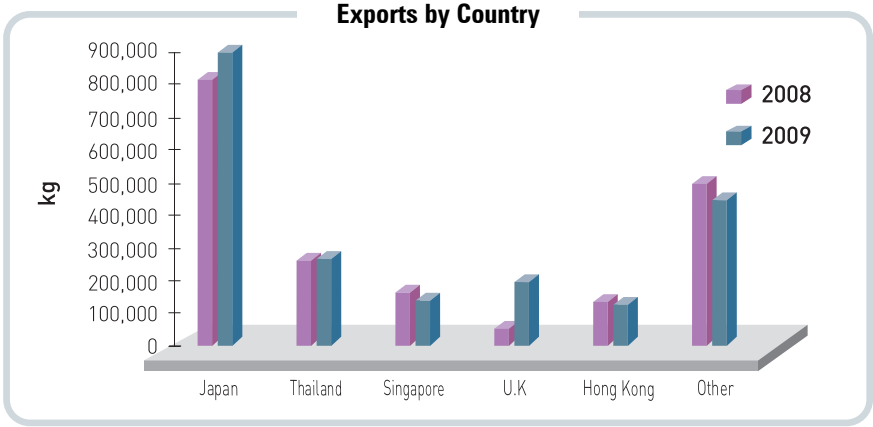
Exports

	2008		2009	
	kg	1,000 US$	kg	1,000 US$
Powder	59,195	5,251	65,200	5,091
Unwroughted (4N >)	1,242,929	604,276	1,475,989	677,855
Unwroughted (other)	50,488	2,648	70,376	4,718
Bars, rods and shapes	168,750	10,437	153,179	8,478
Plates, sheets and strips	5,349	2,096	17,606	2,708
Wire	312,476	47,133	200,624	27,942
Other	16,367	4,780	17,324	7,772
Total	**1,855,554**	**676,622**	**2,000,298**	**734,564**

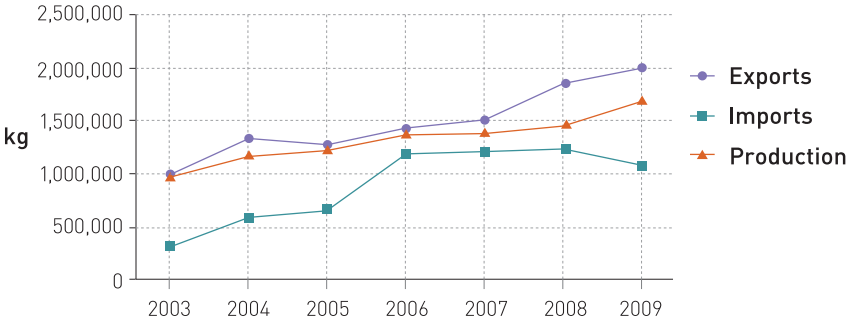
Silver Commodities Exports by Major Countries 2009

unit : kg

HS	Powder		Unwroughted (4N>)		Plates, sheets		Wire	
1	Hungary	43,291	Japan	806,012	China	2,551	China	57,769
2	China	8,531	Thailand	190,000	Hong Kong	2,419	Japan	15,821
3	Japan	6,795	U.K	180,009	Thailand	666	Hong Kong	12,619
4	Singapore	2,517	Singapore	109,800	Japan	1,180	Taiwan	4,212
5	Taiwan	2,168	Hong Kong	99,070	Malaysia	395	U.S.A	7,438



Trend of Exports/Imports, Production



2.3 Copper ore

Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	41,995	70,261	69,015	36,856	135,050
Production	41	16	6	4	14
Imports	1,393,659	1,458,115	1,402,886	1,483,914	1,597,263
Total	**1,435,695**	**1,528,389**	**1,471,908**	**1,526,653**	**1,732,326**
Demand	1,365,410	1,459,369	1,428,547	1,390,436	1,661,205
Exports	24	5	627	1,168	3,587
Stock	70,261	69,015	42,734	135,049	67,533

Smelting & Refining Capacity

Company	Capacity
LS Nikko	560,000 ton/year

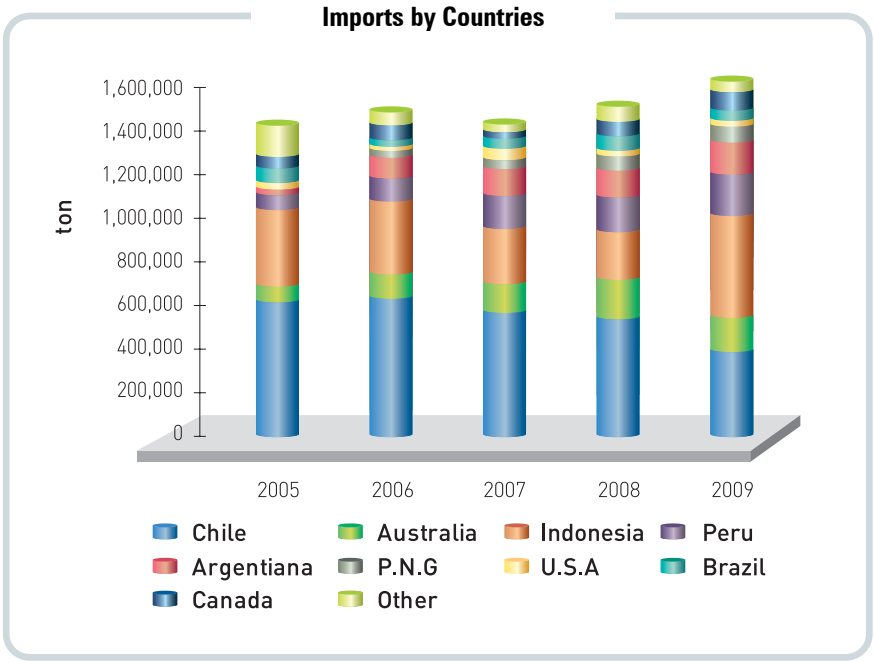
Imports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Indonesia	218,431	482,440	469,433	1,144,176
Chile	501,087	1,254,562	358,728	591,775
Australia	184,358	523,456	154,695	430,700
Peru	159,769	301,027	189,748	306,759
Argentina	125,367	294,157	139,505	264,094
P.N.G	64,645	159,941	80,126	172,417
Canada	67,149	129,795	84,014	155,753
Brazil	72,625	180,353	46,966	88,947
U.S.A	19,999	46,448	29,951	53,347
Other	70,486	141,846	44,097	85,545
Total	**1,483,914**	**3,514,025**	**1,597,263**	**3,293,513**

Copper Concentrate Imports



2 Mineral Commodity Summaries



Refined Copper Supply-Demand

unit : ton

	2008	2009	2010(prospect)
Domestic Consumption	780,073	900,911	830,000
Exports	126,176	86,665	130,000
Total	**907,249**	**987,576**	**960,000**
Domestic Sales	537,925	531,701	550,000
Imports	369,324	455,875	410,000

2.4 Lead & Zinc Ore

Supply-Demand Balance

- Lead Ore

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	46,694	58,563	110,663	53,560	31,889
Production	100	34	24	449	2,064
Imports	260,048	242,751	256,367	235,875	312,228
Total	**306,841**	**301,348**	**367,054**	**289,884**	**346,181**
Demand	168,860	60,815	179,454	179,188	290,523
Exports	79,418	129,870	134,041	78,807	19,068
Stock	58,563	110,663	53,560	31,889	36,591

- Zinc Ore

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	80,959	113,907	171,785	104,298	176,999
Production	153	32	4,067	3,672	4,441
Imports	1,283,183	1,307,811	1,333,481	1,486,580	1,342,234
Total	**1,364,295**	**1,421,750**	**1,509,334**	**1,594,550**	**1,523,674**
Demand	1,250,366	1,249,486	1,388,113	1,345,312	1,217,223
Exports	22	479	16,923	72,239	144,524
Stock	113,907	171,785	104,928	176,999	161,927

Refining Capacity

Company	Lead	Zinc
Korea Zinc	200,000	430,000
Youngpoong	-	280,000
Total	**200,000**	**710,000**

* Secondary Lead Production capacity: 86,000 ton/year

Imports

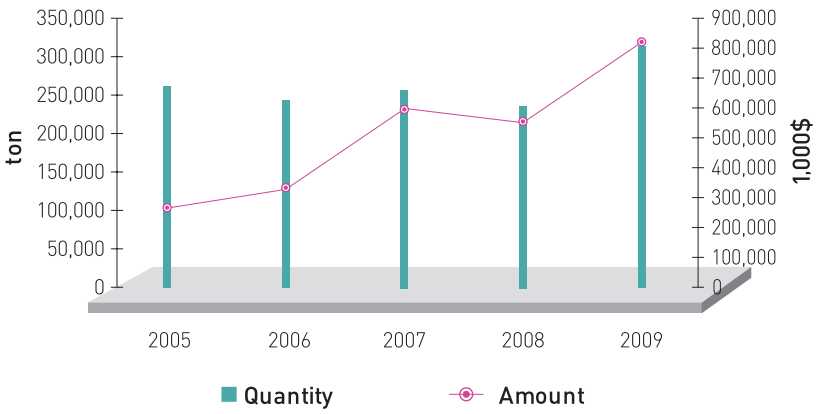
- Lead Ore

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Australia	83,403	201,420	255,764	110,244
Peru	64,858	150,389	169,067	76,605
Chile	9,722	227,781	87,991	42,331
U.S.A	25,472	47,204	49,370	25,624
S. Africa	16,162	30,171	31,652	29,219
Mexico	-	-	28,062	8,678
Bolivia	23,017	75,398	20,644	5,220
Indonesia	2,647	1,177	1,989	13,907
Myanmar	-	-	97	400
Other	10,594	15,917	2	0
Total	**235,875**	**549,457**	**644,638**	**312,228**

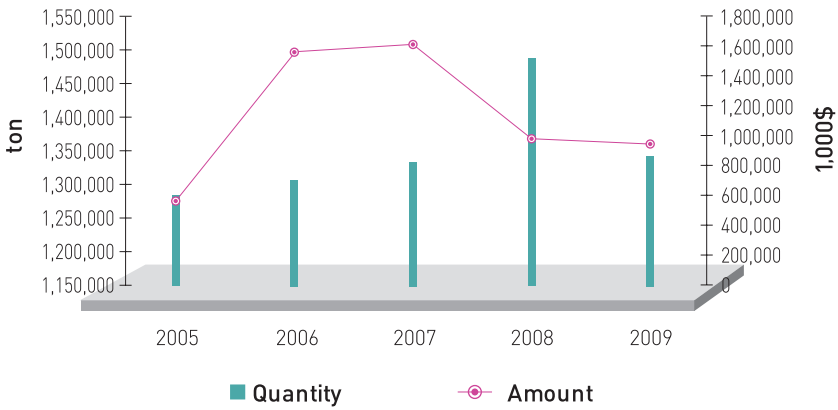
- Zinc Ore

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Peru	454,927	314,901	373,336	190,605
U.S.A	201,022	128,284	276,813	165,690
Chile	175,630	129,084	237,800	146,414
Australia	383,675	216,754	205,944	100,295
Mexico	5,508	3,544	86,057	52,740
Bolivia	159,012	122,543	81,632	40,343
Canada	37,229	16,337	29,170	14,897
Philippines	1,968	1,375	20,140	9,382
Armenia	-	-	6,308	5,733
Other	67,609	46,187	25,035	15,669
Total	**1,486,580**	**979,009**	**1,342,234**	**741,768**

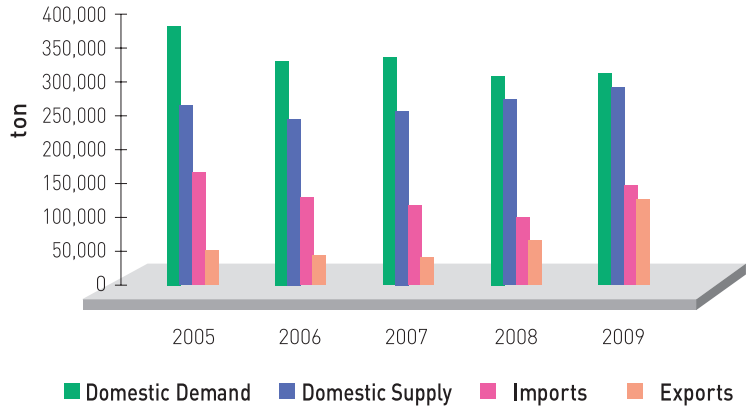
Lead Ore Imports



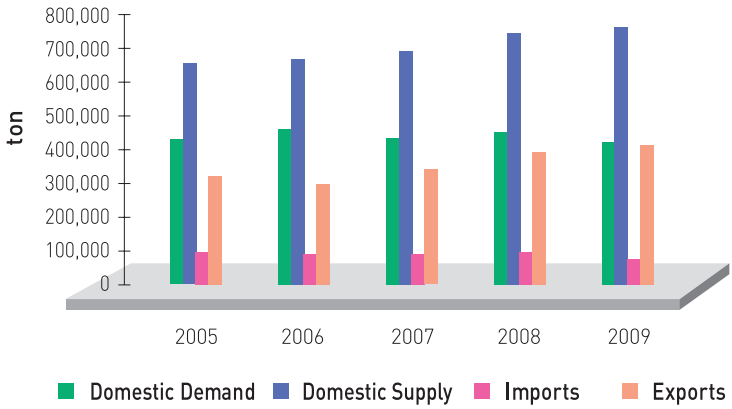
Zinc Ore Imports



Lead Ingot Supply-Demand Trends



Zinc Ingot Supply-Demand Trends



2.5 Iron Ore

Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	2,782,342	2,795,400	3,366,371	2,046,504	3,299,808
Production	212,971	227,437	290,802	365,883	455,405
Imports	43,459,232	43,895,431	46,176,285	49,542,331	42,079,806
Total	**46,454,545**	**46,918,267**	**49,833,458**	**51,954,718**	**45,835,019**
Demand	43,659,085	43,407,367	47,777,024	48,649,939	43,060,955
Exports	59	144,530	9,930	4,971	79,019
Stock	2,795,400	3,366,371	2,046,504	3,299,808	2,695,045

Imports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Australia	34,136,778	3,126,088	27,475,847	2,183,017
Brazil	12,132,161	1,359,280	11,561,524	1,078,484
South Africa	1,530,969	185,058	1,486,295	141,572
India	1,072,905	91,600	1,066,489	83,729
Canada	278,724	40,224	341,734	32,285
Chile	164,651	17,453	147,789	19,148
China	104	32	69	24
Netherlands	20	8	20	7
Germany	-	-	26	6
Sweden	5	4	5	5
Switzerland	83,585	8,392	-	-
Other	522	51	8	9
Total	**49,542,331**	**4,846,418**	**42,079,806**	**3,538,285**

2 Mineral Commodity Summaries

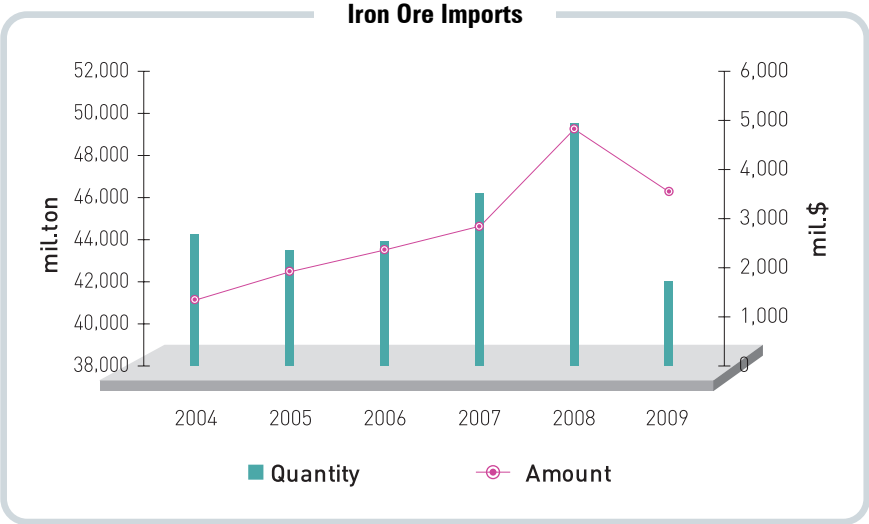
Smelting Capacity

Company	Capacity (ton/year)
POSCO	33,100,000

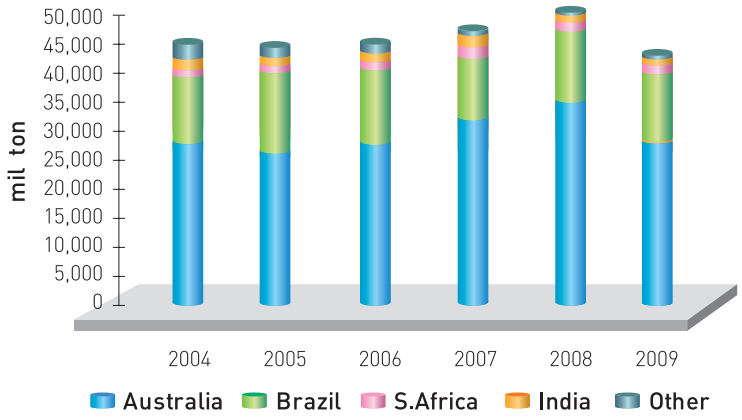
Mine Production

unit : ton

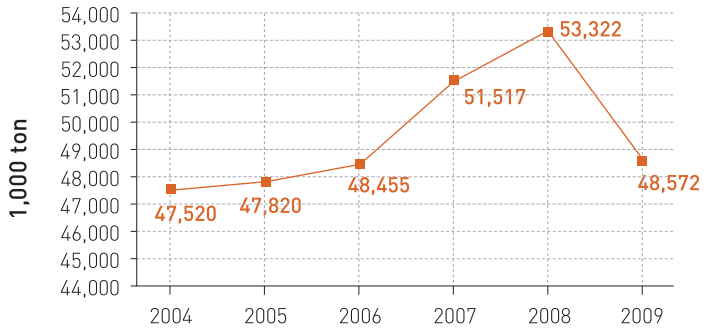
Mine	2006	2007	2008	2009
Sinyemi	227,437	290,802	365,883	454,911
Ger-do	-	-	-	494



Iron Ore Imports by Country



Crude Steel Production



2.6 Limestone

Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	1,590,327	1,836,407	1,549.495	1,746,786	1,772,580
Production	81,473,600	79,421,619	86,121,391	86,066,767	81,611,729
Imports	1,298,745	1,482,130	1,336,971	1,481,351	1,191,039
Total	**84,362,672**	**82,740,156**	**89,007,857**	**89,294,904**	**84,575,348**
Demand	82,495,427	81,150,376	87,198,375	87,470,820	82,832,438
Exports	30,838	40,285	62,696	38,334	85,979
Stock	1,836,407	1,549,495	1,746,786	1,785,750	1,656,930

Mine Production

unit : ton

Mineral	2005	2006	2007	2008	2009
Limestone	**77,865,076**	**76,154,177**	**82,653,898**	**83,469,504**	**77,923,306**
- Cement	60,530,059	60,238,943	65,597,517	66,711,721	62,778,412
- Iron making	9,209,494	8,574,110	9,030,795	8,900,968	8,125,319
- Chemical	7,307,470	6,450,572	6,749,491	7,057,642	6,348,282
- Other8	17,993	890,552	82,653,898	83,469,504	77,923,306
Dolomite	**2,264,055**	**2,176,513**	**2,408,173**	**2,266,476**	**2,382,949**
- Iron making	1,088,213	1,054,162	1,309,722	1,246,463	1,317,923
- Other	1,175,842	1,122,351	1,098,451	1,020,013	1,065,026
Calcite	**1,302,998**	**1,073,363**	**1,058,270**	**1,545,801**	**1,305,474**
Marble	**41,531**	**17,566**	**23,022**	**23,047**	**15,680**
Total	**81,473,600**	**79,421,619**	**86,143,363**	**87,304,828**	**81,627,409**

Sales from mines 2009

unit : ton

	Limestone	Calcite	Dolomite	Marble	Total
Agriculture	578,807	407	165,178	-	744,392
Ceramics	1,519,188	26,760	60,329	-	1,606,277
Chemistry	2,624,216	2,244	174,320	-	2,800,780
Construction	813,399	30,641	184,200	16,888	1,045,128
Cement	62,349,113	215,1442	63,337	-	62,827,594
Desulfurization	568,723	116,440	-	-	685,163
Environment	418,637	42,666	24,473	-	485,776
GCC	613,648	691,911	-	-	1,305,559
Glass	267,212	-	253,380	-	520,592
Steel	7,796,841	-	787,500	-	8,584,341
Milling	60,755	5,292	-	-	66,047
Sugar mill	58,212	-	-	-	58,212
Unknown	517,886	13,056	340,374	-	871,316
Total	**78,186,637**	**1,144,561**	**2,253,091**	**16,888**	**81,601,177**

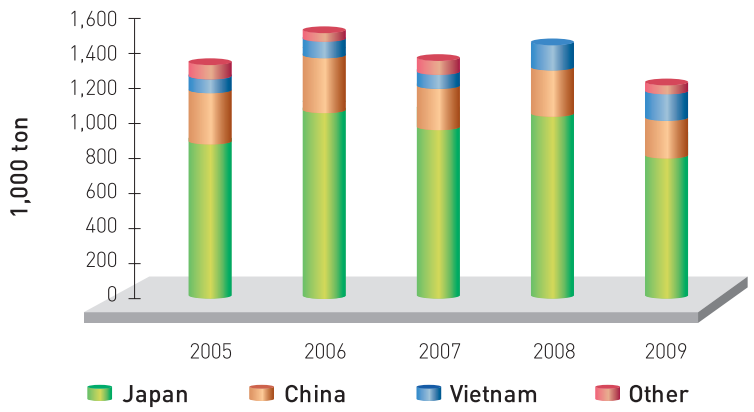
Exports

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Limestone	157	35	48	20
Other limestone	192	45	367	98
Uncalcined Dolomite	36,438	912	83,581	1,504
Calcined Dolomite	58	28	1	58
Ramming mix Dolomite	1,489	706	1,982	1,306
Crude Marble	79	18	81	83
Cutting Marble	165	23	45	3
Total	**38,578**	**1,767**	**86,105**	**3,072**

Imports

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Limestone	1,459,446	41,683	1,178,952	29,562
Other limestone	346	53	346	53
Uncalcined Dolomite	8,350	1,038	9,431	1,634
Calcined Dolomite	10,508	2,807	815	204
Ramming mix Dolomite	2,702	1,306	430	268
Crude Marble	883	324	430	268
Cutting Marble	2,188	1,118	1,507	374
Total	**1,484,423**	**48,329**	**1,191,911**	**32,363**

Imports by Country



2.7 Pyrophyllite

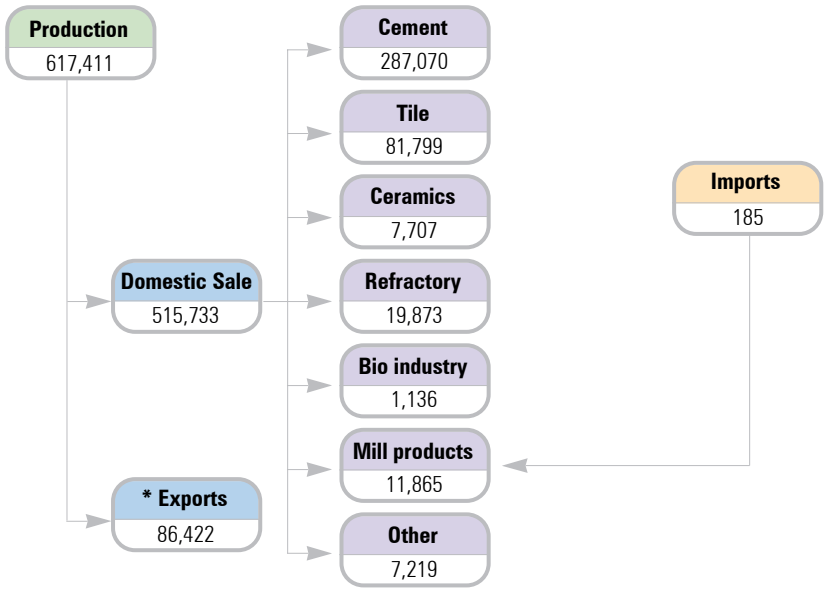
Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	291,363	306,901	255,033	303,494	318,157
Production	885,559	677,465	798,054	892,625	617,411
Imports	6,475	6,423	4,889	6,115	185
Total	**1,183,397**	**990,789**	**1,057,977**	**1,202,234**	**935,753**
Demand	749,284	611,277	653,290	765,924	576,272
Exports	127,212	124,479	101,193	118,152	72,785
Stock	306,901	255,033	303,494	318,157	286,696

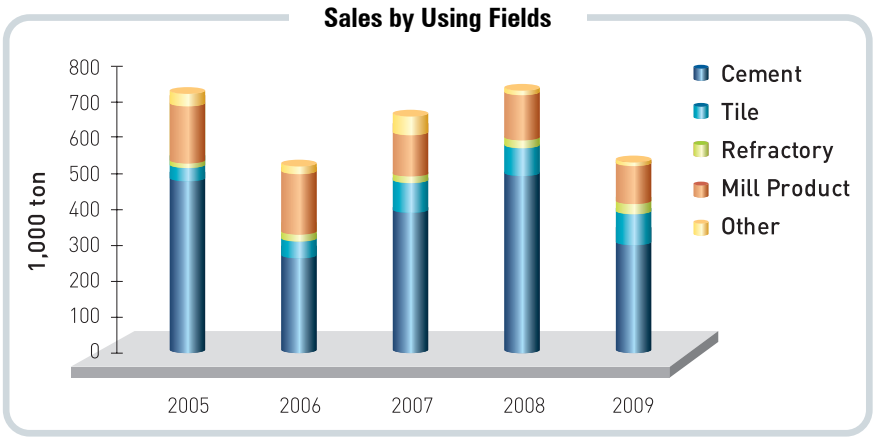
Commodity Flow (estimated) 2009

unit : ton



* Since the data is summed based on the monthly reports from each mines, export data differs from the customs data.

2 Mineral Commodity Summaries



Exports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Japan	99,250	4,479	56,472	2,400
Taiwan	13,300	407	16,300	302
Malaysia	5,600	101	-	-
China	2	1	-	-
Vietnam	-	-	13	3
Total	**118,152**	**4,987**	**72,785**	**2,705**

Imports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
China	4,625	543	105	29
U.S.A	490	187	79	31
Other	1,000	32	0	0
Total	**6,115**	**762**	**185**	**60**

2.8 Silica Stone

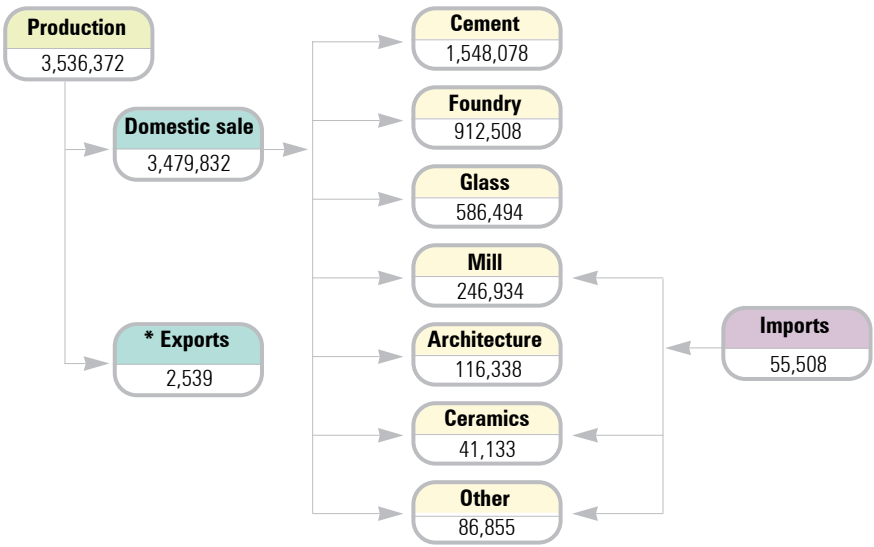
Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	170,827	182,817	155,795	160,745	185,513
Production	2,868,370	2,920,676	3,510,699	3,325,162	3,563,372
Imports	31,101	36,558	48,849	50,962	55,508
Total	**3,070,298**	**3,140,050**	**3,715,343**	**3,536,868**	**3,777,393**
Demand	2,886,445	2,983,239	3,550,748	3,348,968	3,585,286
Exports	1,036	1,017	3,850	2,387	2,539
Stock	182,817	155,795	160,745	185,513	189,568

Commodity Flow (estimated) 2009

unit : ton



※ Since the data is summed based on the monthly reports from each mines, export data differs from the customs data.

Imports

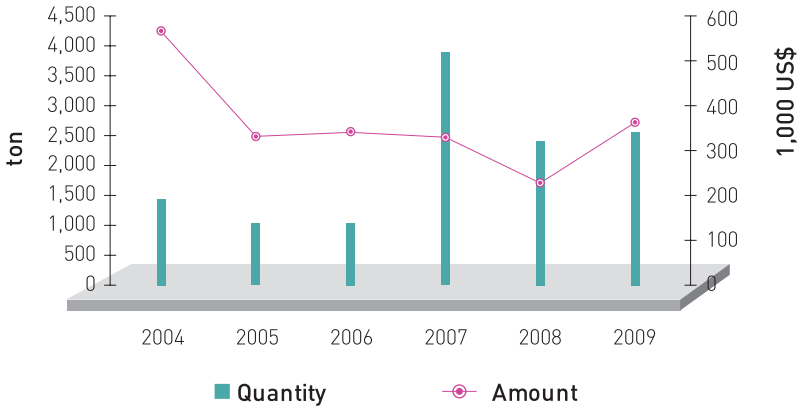
	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Quartz (containing less than 0.06 % of Impurities)	171	82	2,241	589
Quartz (containing not less than 0.06 % but not more than 0.1 %)	3,219	356	3,014	95
Quartz (containing more than 0.1 % of impurities)	16,814	2,842	20,186	3,177
Quartzite (crude ore roughly trimmed)	1,766	104	2,356	135
Quartzite (other than crude or roughly trimmed)	28,992	5,453	27,711	5,711
Total	**50,962**	**8,837**	**55,508**	**9,707**



Exports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Containing more than 0.1 % of impurities	379	128	473	169
Quartzite (other than crude or roughly trimmed)	2,007	99	2,065	192
Total	**2,387**	**227**	**2,539**	**361**

Trend of Exports



2.9 Feldspar

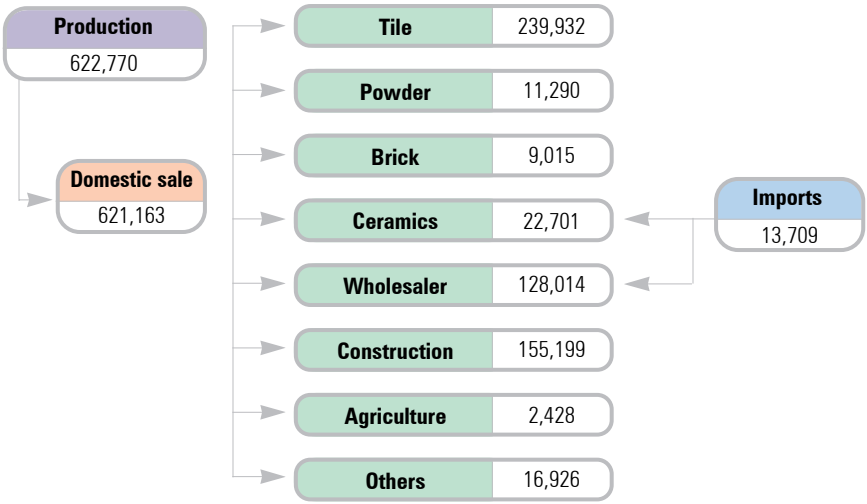
Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	166,463	167,700	186,290	104,191	106,805
Production	508,644	427,378	398,513	344,257	622,770
Imports	5,504	5,232	6,929	10,157	13,079
Total	**680,611**	**600,310**	**591,732**	**458,605**	**742,654**
Demand	494,486	392,819	463,630	339,967	644,152
Exports	18,425	21,201	23,912	11,833	20,347
Stock	167,700	186,290	104,191	106,805	78,156

Commodity Flow (estimated) 2009

unit : ton



Imports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
China	7,940	668	10,320	1,294
India	1,090	103	1,493	134
Malaysia	766	238	875	288
U.K	323	120	253	166
Italy	-	-	99	32
Japan	8	1	40	5
Taiwan	-	-	0	0
U.S.A	9	3	0	0
Brazil	-	-	0	0
Other	21	14	1	0
Total	**10,157**	**1,147**	**13,079**	**1,919**

Exports

Country	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Japan	6,850	315	16,523	796
Indonesia	3,908	856	3,504	747
China	746	235	320	94
Vietnam	329	75	-	-
Total	**11,833**	**1,481**	**20,347**	**1,637**

2.10 Clay Minerals

Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	292,273	263,582	264,725	265,401	398,613
Production	2,767,091	2,399,458	2,630,358	2,494,162	2,115,239
Imports	353,519	363,747	391,776	360,147	313,409
Total	**3,412,883**	**3,026,787**	**3,286,859**	**3,119,710**	**2,827,261**
Demand	3,073,811	2,690,257	2,963,571	2,669,534	2,583,027
Exports	75,491	71,805	57,887	51,636	39,911
Stock	263,582	264,725	265,401	398,540	204,323

※ Clay minerals means the legally defined kaoline which comprehensively represents kaolinite, bentonite, acid clay, china stone, kairome and kibushi.

Production

unit : ton

	2005	2006	2007	2008	2009
Kaoline	702,295	603,519	688,330	954,584	695,351
Pottery stone	372,641	355,317	365,246	227,715	194,806
Bentonite	85,177	61,137	56,429	71,052	84,963
Acid clay	84,632	46,314	65,136	70,711	99,802
Clay	1,522,346	1,333,171	1,455,217	1,170,199	1,076,316
Total	**2,767,091**	**2,399,458**	**2,630,358**	**2,494,262**	**2,151,238**

Selling volume by using field

unit : ton

	Bio industry	Brick	Construct-ion	Ceramics	Whole -sale	Powder	Refrac-tory	Tile	Agricul-ture	Cement	Unknown
Kaolinite	2,058	282,176	30,499	28,537	11,519	5,301	136,033	153,155	12,389	263	37,380
Pottery stone	-	3,347	60,655	20,973	13,573	1,068	16,173	55,169	–	–	6,877
Clay	30	42,092	1,250	26,125	22,020	–	14,150	109,705	48	–	1,285

Imports

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Kaoline, not calcine	134,738	30,863	122,006	29,034
Kaoline, calcined	38,645	12,066	33,905	10,102
Kairome	1,890	437	2,037	424
Kibushi	326	171	294	165
Kaolinic clay	40,933	6,090	31,462	5,592
Kaolinic clay, calcined	1,690	409	2,414	591
Bentonite	138,787	15,337	121,166	12,840
Acid clay	298	88	123	36
Pottery stone	2,841	230	2	2
Total	**360,148**	**65,691**	**313,409**	**58,786**

Imports by Country

	2008		2009	
	ton	US$	ton	US$
China	163,993	19,117	146,863	17,029
U.S.A	120,931	32,058	115,754	30,151
Brazil	30,473	6,601	18,661	4,655
Indonesia	8,841	1,228	8,955	1,273
India	11,764	942	5,925	538
Vietnam	8,543	757	4,749	495
U.K	3,827	1,449	3,722	1,196
Australia	2,806	372	2,012	355
Japan	2,169	1,495	1,967	1,854
Other	5,800	1,63	44,801	1,240
Total	**359,147**	**65,653**	**313,409**	**58,786**

Export

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Kaoline, not calcined	11,165	1,110	5,899	629
Kaoline, calcined	472	483	1,745	656
Kairome	-	-	-	-
Kibushi	-	-	-	-
Kaolinic clay	84	84	14	167
Kaolinic clay, calcined	388	130	154	104
Bentonite	3,032	759	5,075	1,117
Acid clay	-	-	-	-
Pottery stone	36,496	1,579	27,023	975
Total	**51,553**	**4,061**	**39,910**	**3,648**

Exports by Country

	2008		2009	
	ton	US$	ton	US$
Japan	37,710	2,307	28,958	1,354
Taiwan	9,673	594	3,932	318
China	1,683	566	2,270	825
Thailand	330	77	1,843	371
Malaysia	-	-	1,206	199
Singapore	843	139	817	143
Indonesia	799	167	312	83
Uzbekistan	107	89	176	164
Srilanka	167	56	126	42
Others	324	130	270	149
Total	**51,636**	**4,125**	**39,910**	**3,648**

2.11 Talc

Supply-Demand Balance

unit : ton

	2005	2006	2007	2008	2009
Stock(pre. year)	9,806	8,735	12,329	8,298	2,483
Production	83,471	64,119	9,557	6,438	5,996
Imports	137,310	117,085	119,124	141,284	81,886
Total	**230,587**	**189,939**	**141,010**	**156,020**	**90,365**
Demand	215,265	169,469	122,536	142,367	72,425
Exports	6,586	8,141	10,176	11,170	15,081
Stock	8,735	12,329	8,928	2,483	2,859

Imports

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
Not crushed, not powdered	701	69	850	77
Not crushed, not powdered, other	32,009	2,336	7,756	569
Crushed or powdered	9108,574	19,144	73,280	13,529
Total	**141,284**	**21,548**	**81,886**	**14,174**

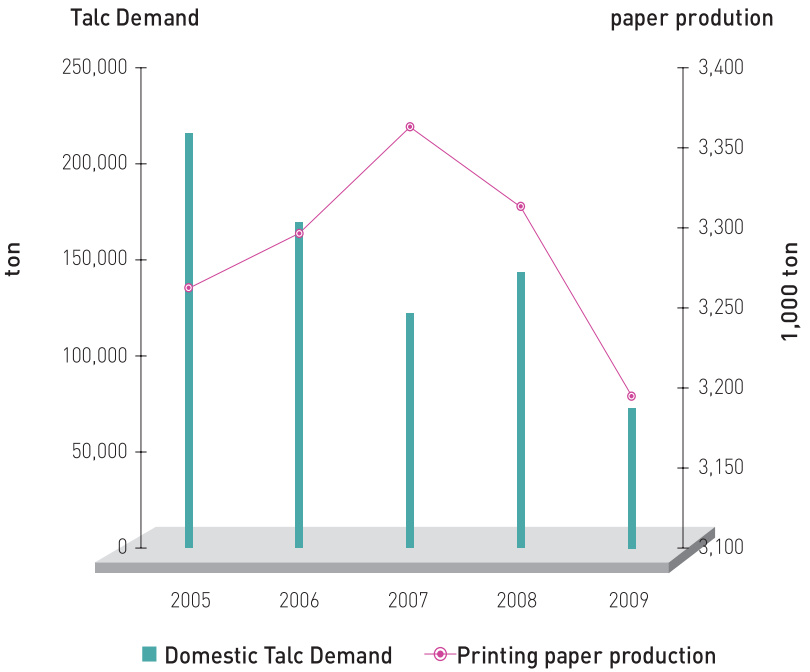
Imports by Country

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
China	135,895	18,466	79,099	11,665
U.S.A	1,744	1,488	956	1,441
Japan	3,024	1,057	1,193	467
Italy	245	201	107	120
France	52	46	74	92
Other	324	291	457	389
Total	**141,284**	**21,549**	**81,886**	**14,174**

Exports by Country

	2008		2009	
	ton	1,000 US$	ton	1,000 US$
China	5,495	1,637	7,740	2,363
Singapore	4,318	822	5,266	1,025
Malaysia	700	243	562	215
Indonesia	256	155	439	546
Hong Kong	-	-	352	96
Other	247	16	11,442	406
Total	**11,170**	**3,104**	**15,801**	**4,651**

Domestic Talc Demand & Printing Paper Production



3 Appendix

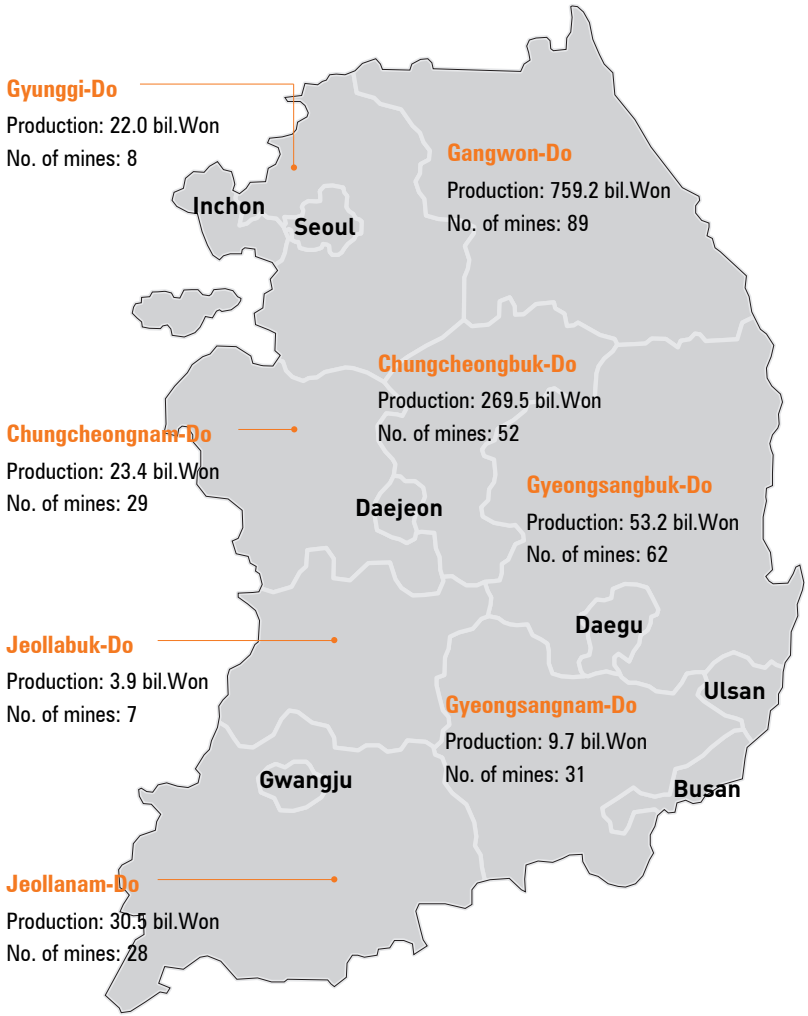
3.1 Mineral Reserves

unit : 1,000ton, placer gold : kg

Commodtiy	Grade	Reserves	Mineral	Grade	Reserves
Gold	Au 7.5g/t	5,692	Kaoling		110,773
Silver	Ag 170.5g/t	7,917	(Kaoline)		(9,253)
Copper	Cu 2.2%	2,317	(China stone)		(85,836)
Lead	Pb 2.2%	16,907	(Acid clay)		(7,157)
Zinc	Zn 3.3%		(Bentonite)		(4,840)
Iron ore	Fe 40.5%	46,012	(Aluminous clay)		(3,687)
(Titaniferrous)	(TiO_2 19.2%)	(1,189.3)	Mica		12,173
Tungten	WO_3 0.5%	16,715	(Sericite)		(6,531)
Molybdenum	MoS_2 0.4%	6,865	(Mica)		(5,156)
Manganese	Mn 19.6%	360.0	(Vermiculite)		(486)
Antimony	Sb 2.0%	22.0	Talc		11,131
Tin	Sn 2.0%	947.0	Crystalline graphite		2,595
Placer gold	Au 0.885g/m^3	2,857	Fluospar		477
	(Purity 80.2%)		Zeolite		29,661
Rare earth	R_2O_3 2.13%	25,972.0	Diatomite		3,440
Limestone		10,334,047	Wollastonite		4,234
(Limestone)		(9,776,579)	Alunite		29,305
(Dolomite)		(490,131)	Serpentine		32,884
(Marble)		(67,337)	Asbestos		695
Pyrophyllite		73,577	Rock crystal		45
Silica stone		1,461,682	Barite		842
Feldspar		99,916	Andalusite		1,041
			Silica sand		6,055

※ Source : Korea Resources Corporation

3.2 Mining Activity by Region (Non-Fuel Minerals)



3.3 Refining capacity

unit: 1,000ton/year

	Copper		Lead	Zinc		Steel	
	LS-Nikko	Korea Zinc	Korea Zinc	Young-poong	Korea Zinc	Pohang	Gwang Yang
2006	510	20	200	280	430	32,620	
2007	560	20	200	280	430	32,400	
2008	560	20	200	280	430	33,100	
2009	560	20	200	280	430	33,100	

3.4 Clinker Capacity & Production

unit : 1,000ton

	Capacity (1,000 ton/year)		Clinker Production						
	Clinker	Cement Mill	2003	2004	2005	2006	2007	2008	2009
Ssangyoung	15,161	16,749	13,231	12,964	12,332	12,219	13,159	13,086	12,815
Tongyang	10,045	11,572	9,027	8,201	7,381	7,771	7,803	7,728	7,107
Hanil	7,131	7,213	5,187	5,204	4,244	4,106	5,008	5,195	5,225
Hyundai	6,864	7,906	5,615	5,107	4,541	4,325	4,720	5,054	4,623
Sung Shin	9,686	12,374	7,697	6,641	5,548	5,576	6,071	6,073	5,659
Lafarze Halla	6,633	9,125	6,838	6,306	5,469	5,796	5,977	6,052	5,821
Asia	4,147	4,211	3,251	3,115	2,900	2,276	2,978	2,859	2,835
Koryo	660	2,178	729	713	657	655	577	747	712
Total	**57,158**	**65,354**	**51,575**	**48,251**	**43,071**	**42,723**	**46,293**	**46,795**	**44,798**

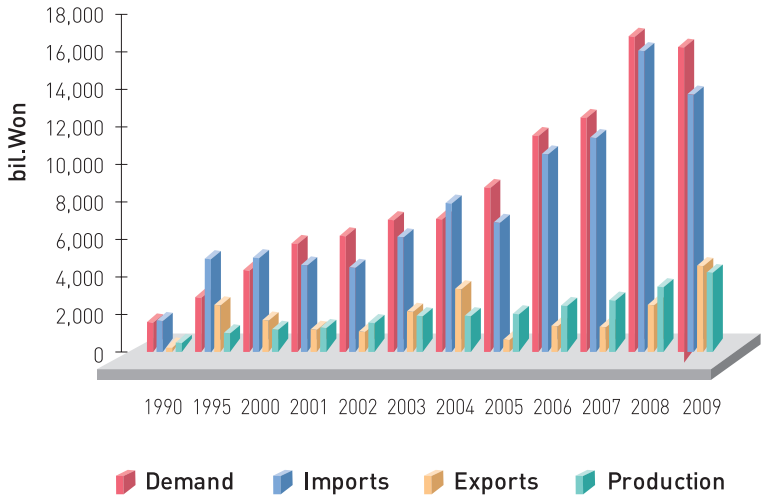
※ Source : Korea Cement Industrial Association

3.5 Yearly Non-Fuel Minerals Supply-Demand

unit : bil.Won

Year	Domestic Demand	Exports	Stock	Production		Imports	Stock (pre. year)	Exchange Rate(1US$=)
				*Total	Mine			
1990	1,621	239	85	548	493	1,753	86	708.0
1995	2,917	2,517	182	1,059	900	4,958	158	771.0
2000	4,462	1,660	792	1,203	861	5,091	172	1,130.6
2001	5,742	1,187	955	1,343	879	4,595	954	1,290.8
2002	6,189	1,105	624	1,561	1,050	4,502	1,001	1,251.2
2003	7,030	2,188	210	1,897	1,150	6,102	679	1,191.8
2004	7,106	3,375	652	1,937	1,173	7,947	588	1,144.7
2005	8,755	640	268	2,069	1,164	6,925	516	1,024.3
2006	11,543	1,370	452	2,434	1,171	10,539	799	955.5
2007	12,473	1,340	867	2,759	1,296	11,423	497	929.2
2008	16,804	2,544	524	3,490	1,641	15,991	392	1,102.6
2009	16,330	4,614	424	4,339	1,368	13,828	3,201	1,276.4

* Total production is included byproducts of gold and silver from refineries



3 Appendix

3.6 GDP Trend

unit : bil.Won

Year	GDP	Non-Fuel Minerals			Coal	GDP Share (%)		Exchange rate Won/US$
		Metalic Mine	Non-Metallic Mine	Total		Non-fuel Mineral	Coal	
2000	578,665	9	1,516	1,525	512	0.26	0.09	1,131.12
2001	622,123	4	1,649	1,654	367	0.27	0.06	1,290.99
2002	684,264	5	1,732	1,738	314	0.25	0.05	1,250.65
2003	724,675	8	1,765	1,772	290	0.24	0.04	1,191.85
2004	779,381	19	1,951	1,970	283	0.25	0.04	1,143.74
2005	810,516	20	2,192	2,212	337	0.27	0.04	1,024.31
2006	847,876	24	2,216	2,240	358	0.26	0.04	955.51
2007	901,189	31	2,270	2,301	482	0.26	0.05	929.2
2008	920,331	23	1,725	1,748	369	0.19	0.04	1,102.59
2009	1,063,059	32	1,699	1,731	256	0.16	0.02	1,276.4

※ Source: Bank of Korea

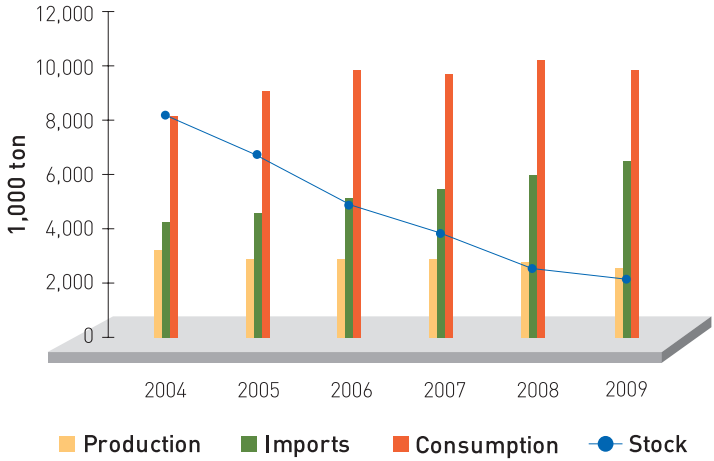
3.7 Major Energy Indicator

	Energy Consumption (1,000 TOE)		Composit of Primary Energy (%)						Per capita Energy Consumption (TOE)
	Primary Energy	Final Energy	Coal	Petroleum	LNG	Hydro	Nuclear	Fire wood & other*	
2000	192,887	149,852	22.3	52.0	9.8	0.7	14.1	1.1	4.08
2001	198,409	152,950	23.0	50.7	10.5	0.5	14.1	1.2	4.19
2002	208,636	160,451	23.5	49.1	11.1	0.6	14.3	1.4	4.38
2003	215,067	163,995	23.8	47.6	11.2	0.8	15.1	1.5	4.49
2004	220,238	166,009	24.1	45.7	12.9	0.7	14.8	1.8	4.58
2005	228,622	170,854	24.0	44.4	13.3	0.6	16.1	1.7	4.73
2006	223,372	173,584	24.3	43.6	13.7	0.6	15.9	1.9	4.83
2007	236,454	181,455	25.2	44.6	14.7	0.5	13.0	2.0	5.01
2008	240,752	182,576	27.4	41.6	14.8	0.5	13.5	2.2	4.94
2009	242,190	182,718	28.3	42.2	13.4	0.5	13.1	2.5	4.97

※ includes new & renewable energy
Source: Korea Energy Economics Institute

3.8 Coal

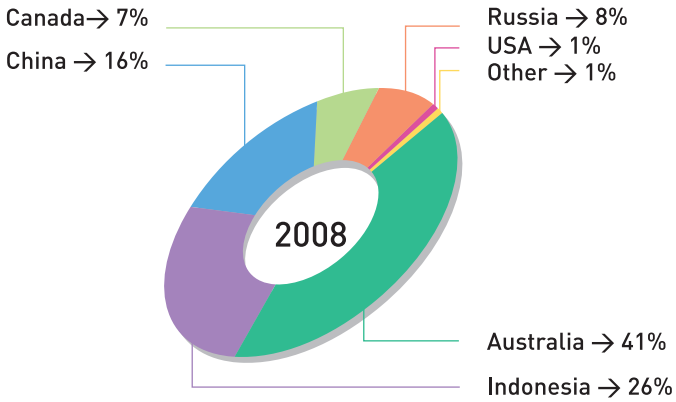
Supply & Demand of Anthracite

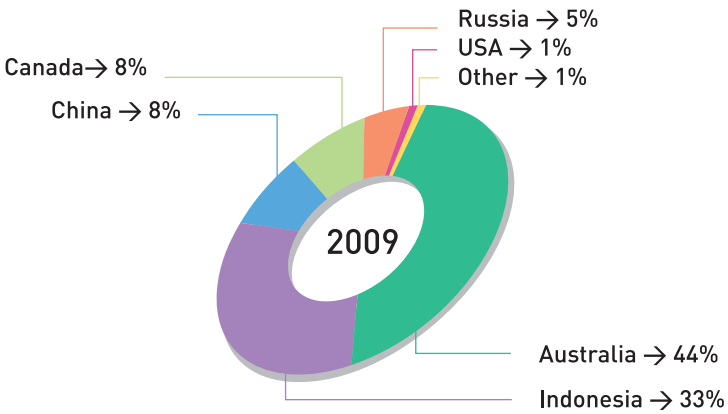


Imports of Bituminous Coal



Imports of Bituminous Coal by Country





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