

**Outlook of
Products Supply & Demand
in Asia
by country and by product**

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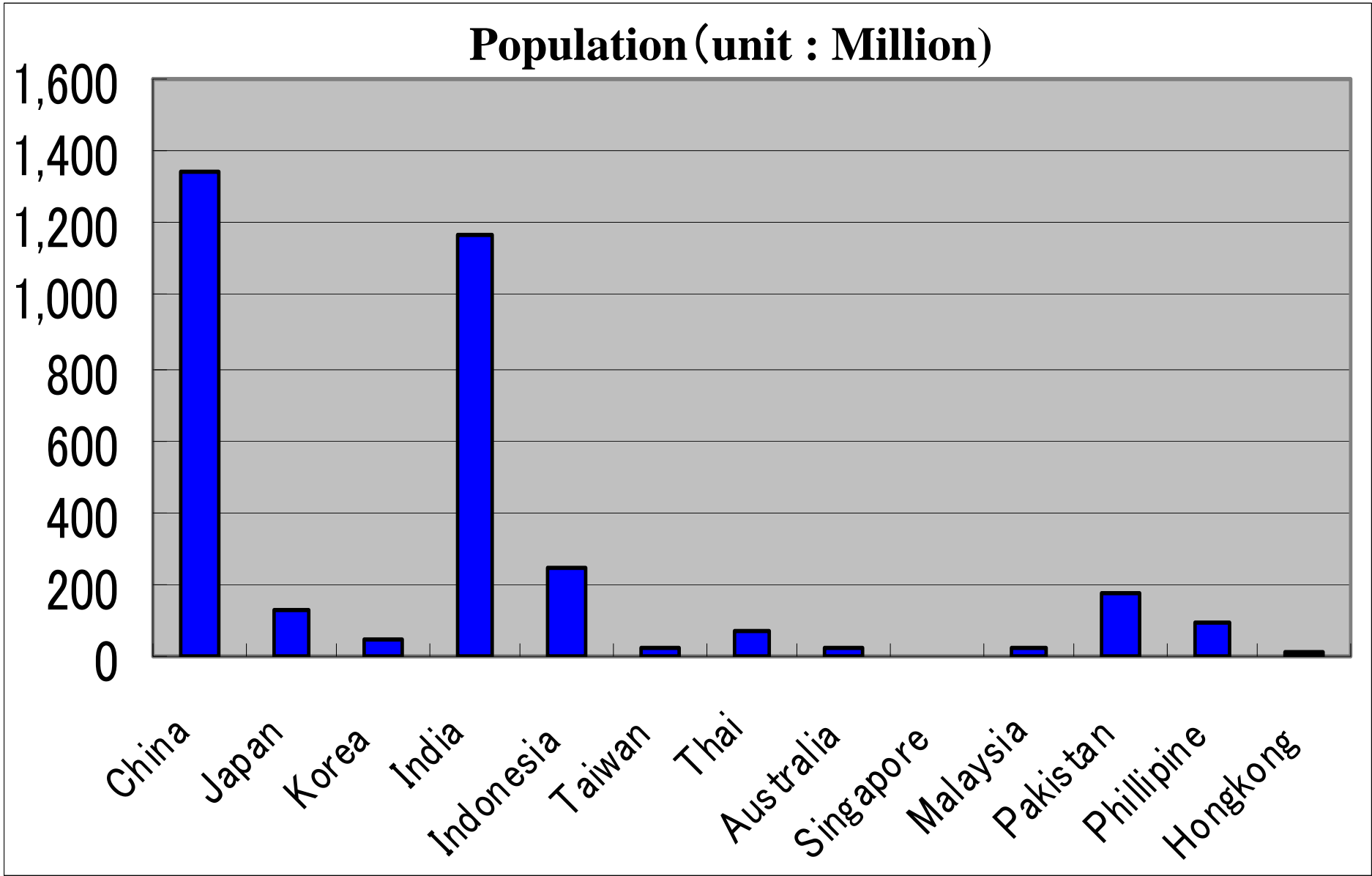
- 1. Basic Information of Asia**
- 2. Oil Products Demand in Asia (2009 /2015)**
- 3. Refining Capacity in Asia**
- 4. Demand & Supply Balance (Total)**
- 5. Demand & Supply Balance by Products**
- 6. Conclusion**

Asian Economic Zone

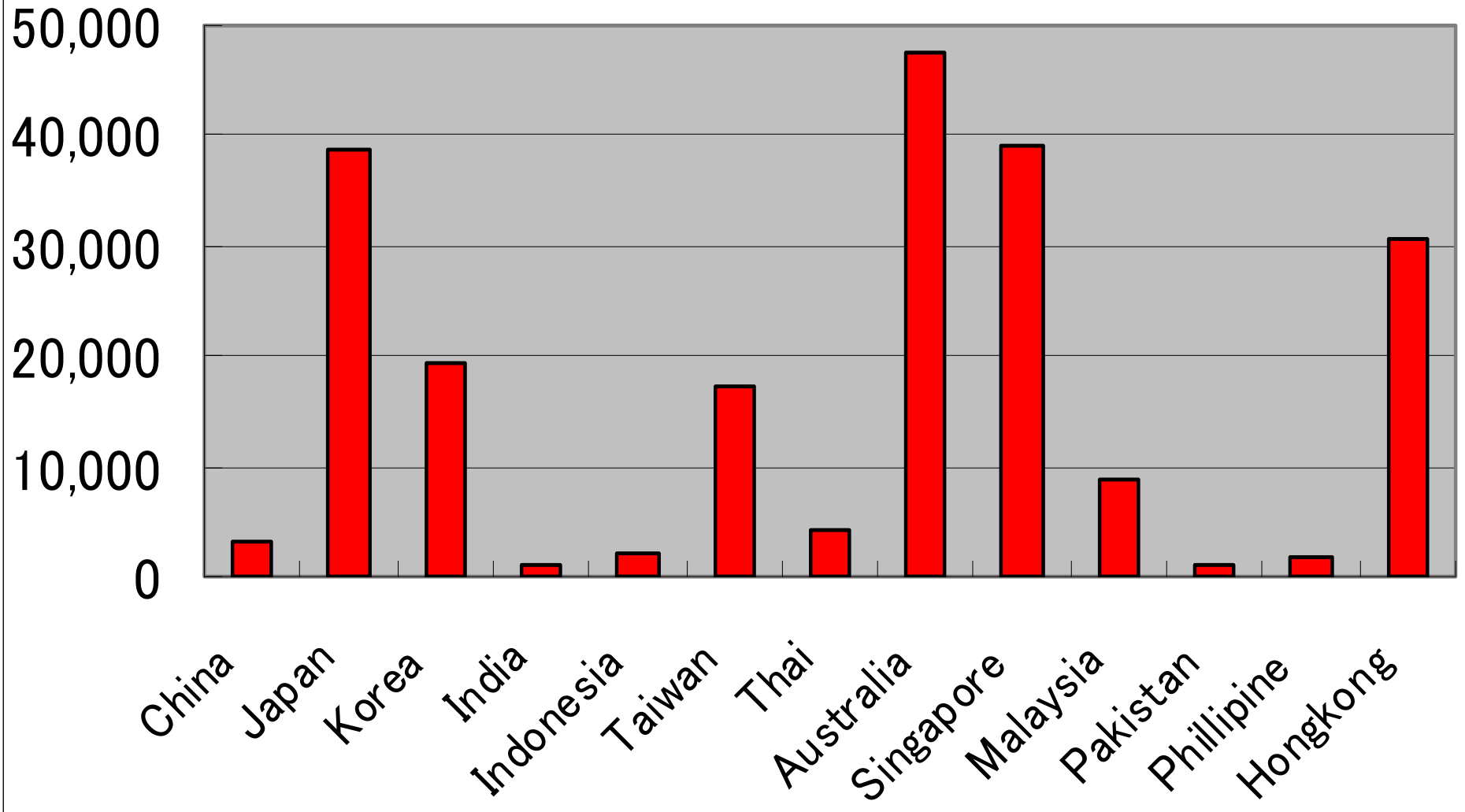
Ratio in World

- Population : 3, 342 Million (Approx.49%)
- G D P : 14.6 trillion US\$(Approx24%)

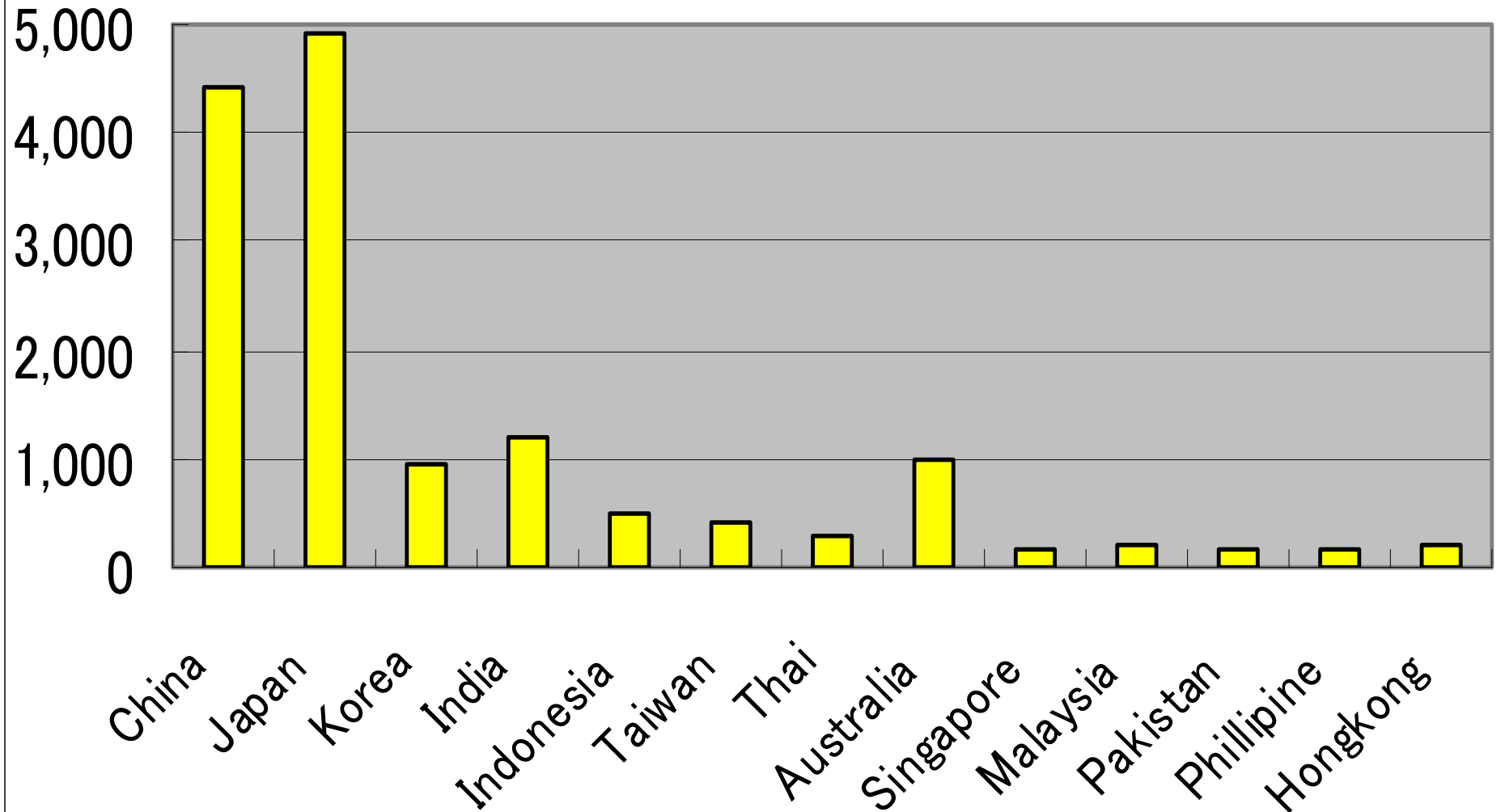
1. Basic Information of Asia ②



GDP per Person (unit : US\$)



Total GDP (unit : billion US\$)



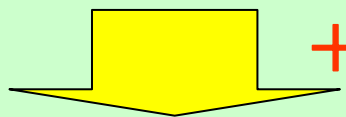
2. Oil Products Demand in Asia (2009 / 2015)

Actual GDP Growth (%)

		Result		Expectation		伸び率 (%)	
		2007	2008	2009	2010	'06-'09	'09-'15
NIES	Korea	5.1	2.2	-2.3	1.8	3.4%	5.1%
	Taiwan	5.7	0.1	-6.2	1.6	-4.4%	-2.9%
	Hong Kong	6.4	2.5	-4.0	1.5	-3.7%	2.0%
	Singapore	7.8	1.1	-4.9	1.3	5.0%	3.5%
ASEAN	Thai	4.9	2.6	-3.8	3.2	0.6%	1.7%
	Indonesia	6.3	6.1	4.8	5.7	2.1%	2.4%
	Malaysia	6.3	4.6	-3.0	2.9	1.2%	2.1%
	Philippine	7.2	4.6	1.0	2.3	0.9%	0.7%
China		13.0	9.0	7.5	8.1	3.1%	5.1%
Japan		1.8	-3.2	-3.0	1.1	0.8%	2.1%
India		9.3	7.3	6.0	6.8	7.4%	2.9%
						-1.2%	3.1%
						-3.3%	2.5%
						7.2%	4.1%
						-0.7%	0.7%
						2.3%	3.4%
						0.7%	2.6%

Increment in Demand

2009: 24, 252MBD



+4, 053MBD

2015: 28, 315MBD

3. Refining Capacity in Asia

Unit : MBD



Country	2009	2015	Expansion
China	8,789	12,014	3,225
Japan	4,552	4,547	-5
India	2,994	4,394	1,400
Korea	2,620	2,670	50
Singapore			0
Taiwan			0
Indonesia			6
Thai			69
Australia			0
Malaysia			30
Pakistan			260
Philippine			0
Vietnam			131
New Zeala			20
Others			40
Total	26,041	31,266	5,266

Capacity Expansion

Approx. + 5,200MBD

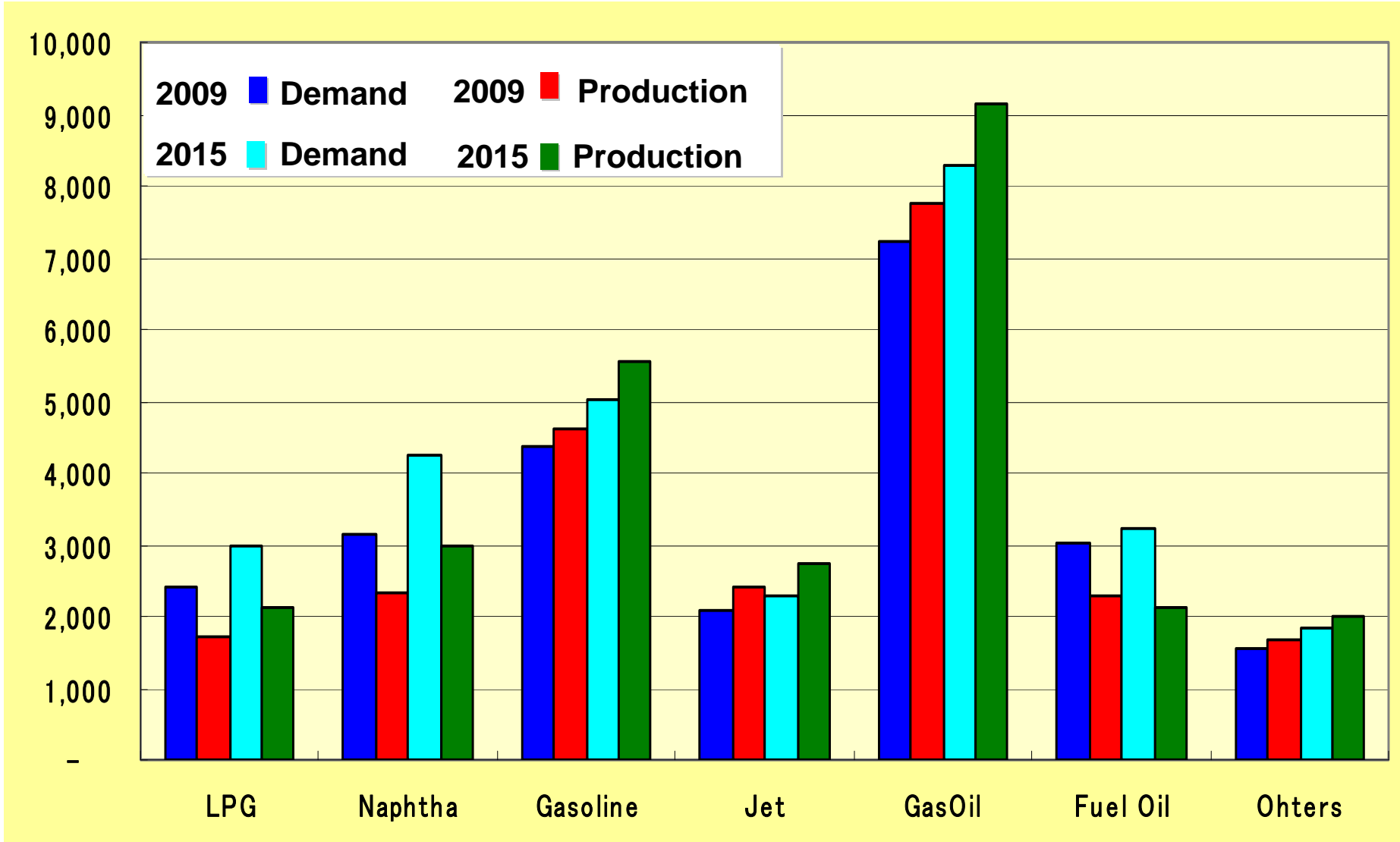
By 2015

(mainly China + India)

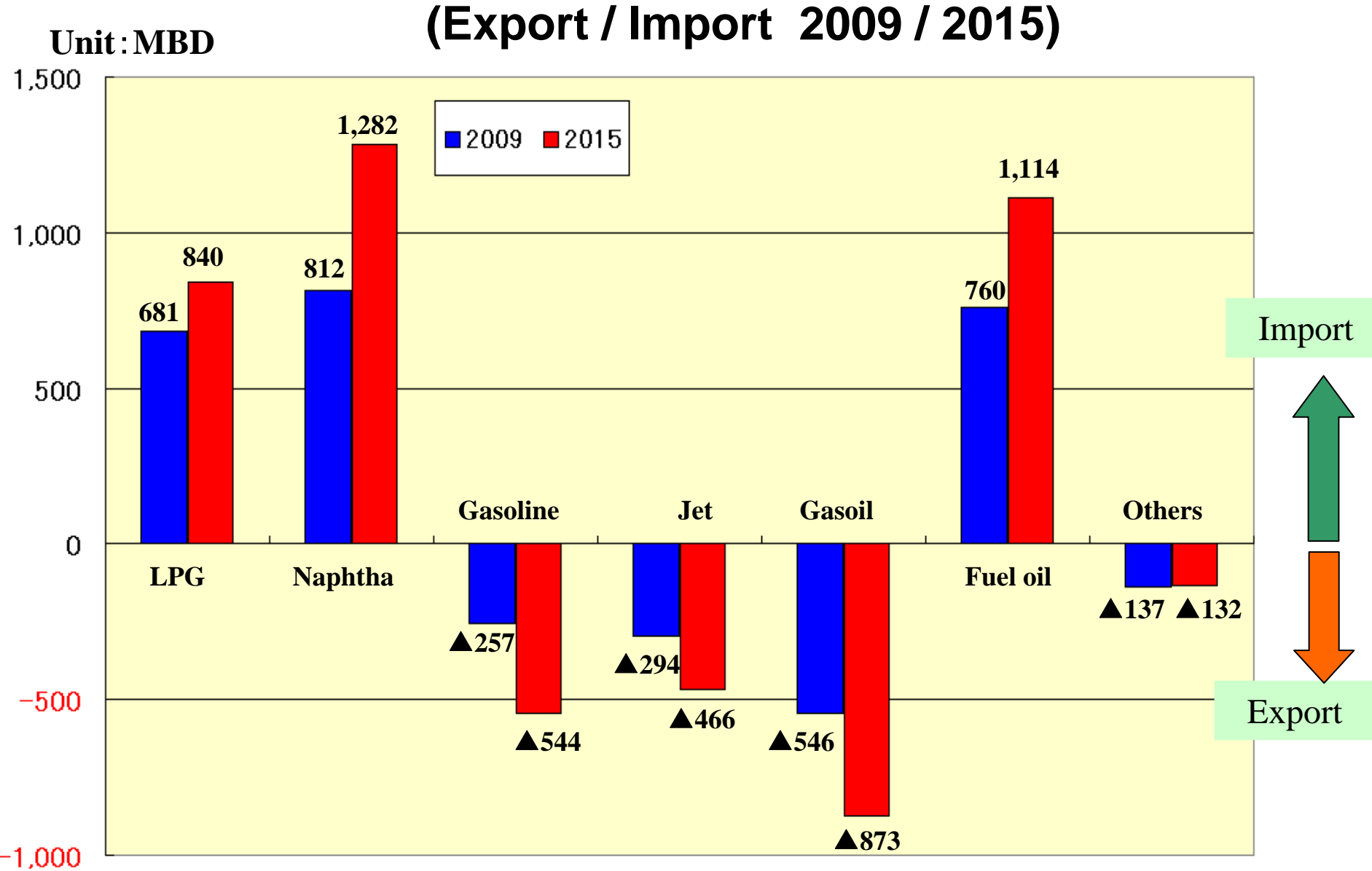
4. Demand & Supply Balance (Total)

(Demand / Production 2009 / 2015)

Unit: MBD



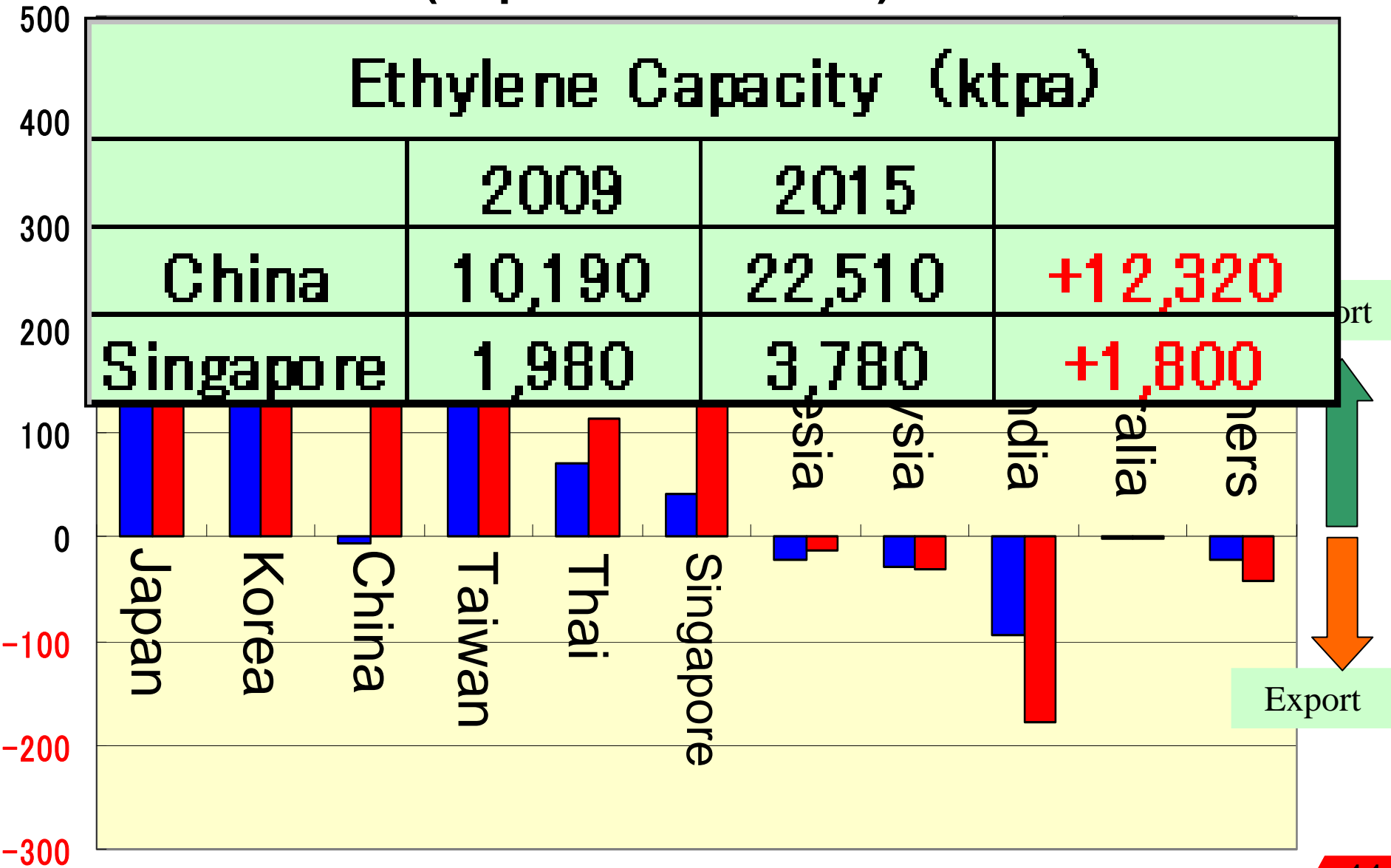
4. Demand & Supply Balance (Total)



5. Demand & Supply Balance by Products

Unit: MBD

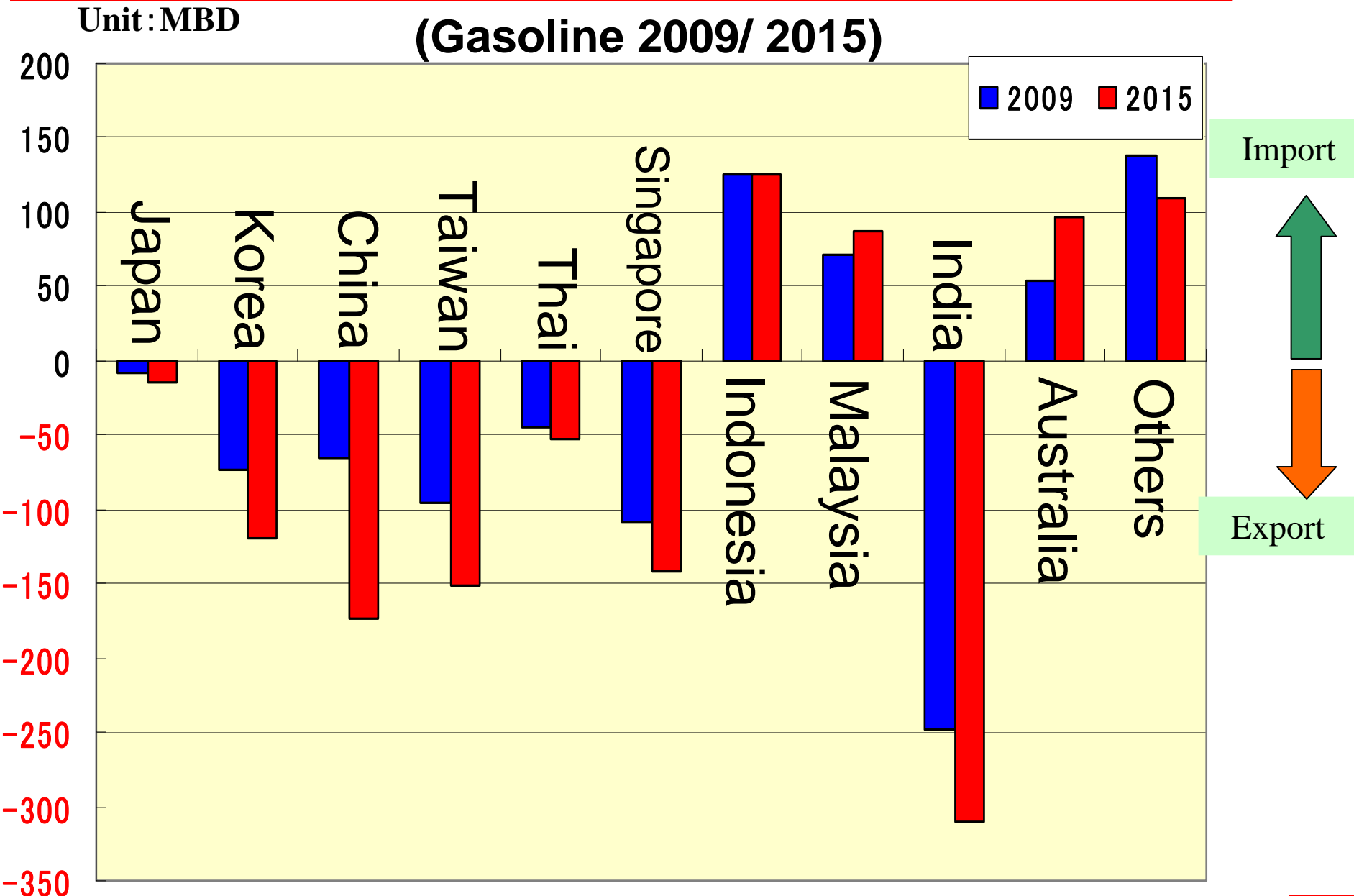
(Naphtha 2009/ 2015)



Commercial Flow (Naphtha) 2009~2015



5. Demand & Supply Balance by Products



Commercial Flow in Gasoline(2009~2015)

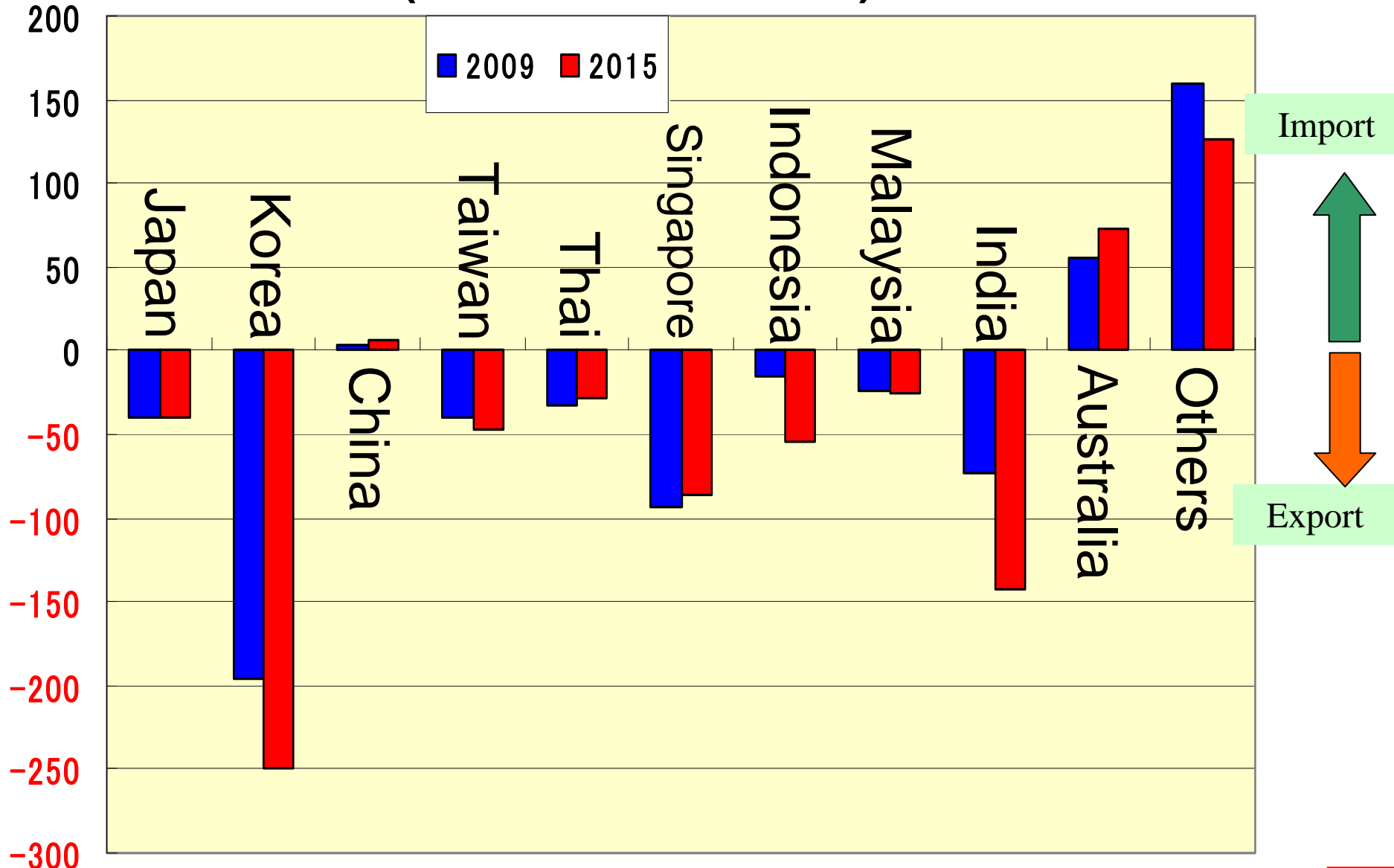
➡ Import
➡ Export



5. Demand & Supply Balance by Products

Unit: MBD

(Kero/Jet 2009/ 2015)



Commercial Flow in Kero / Jet(2009~2015)

Import

Export

Europe

Middle East

USA



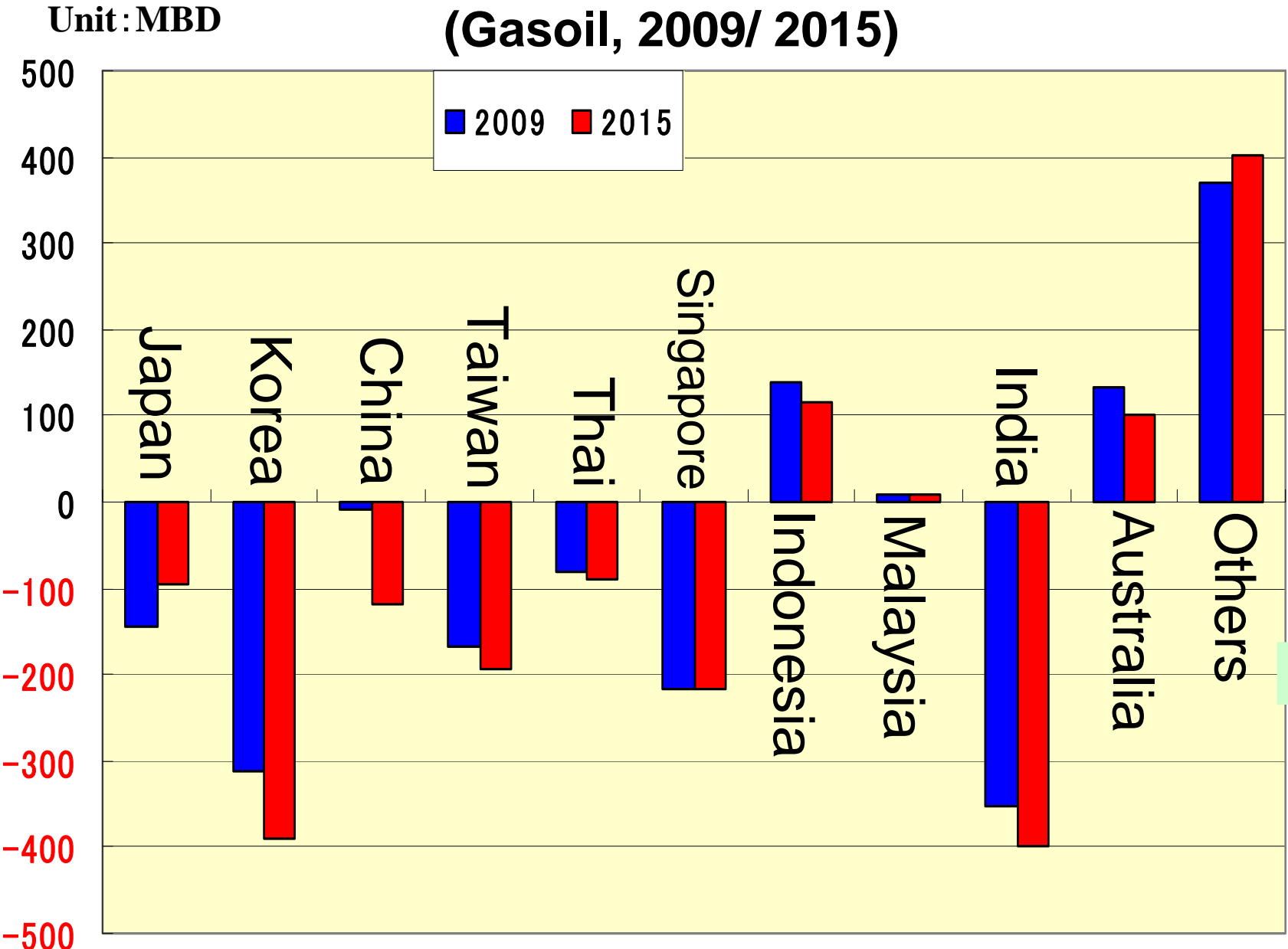
5. Spec Regulation : Variety of Spec among countries



● Gas Oil (Sulfur)

	2008	2009	2010	2011	2012	2013	2014	2015
Japan	10ppm							
Korea	10-30ppm	10ppm						
Australia	50ppm	10ppm						
New Zealand	50ppm	10ppm						
Singapore	50ppm		10-50ppm	10ppm				
Taiwan	50ppm			10ppm				
Thai	350ppm				50ppm			10ppm
China (City)	50ppm							
(Others)	500ppm	350ppm					50ppm	
India (City)	350ppm		50ppm					
(Others)	500ppm		350ppm					50ppm
Phillipine	500ppm				350ppm			
Malaysia	500-3500ppm		500ppm		50ppm			
Vietnam	500-2500ppm			500ppm		50ppm		
Indonesia	3500ppm				500-3500ppm			500ppm
Pakistan	5000ppm~	500-5000ppm		500ppm		350-500ppm		350ppm

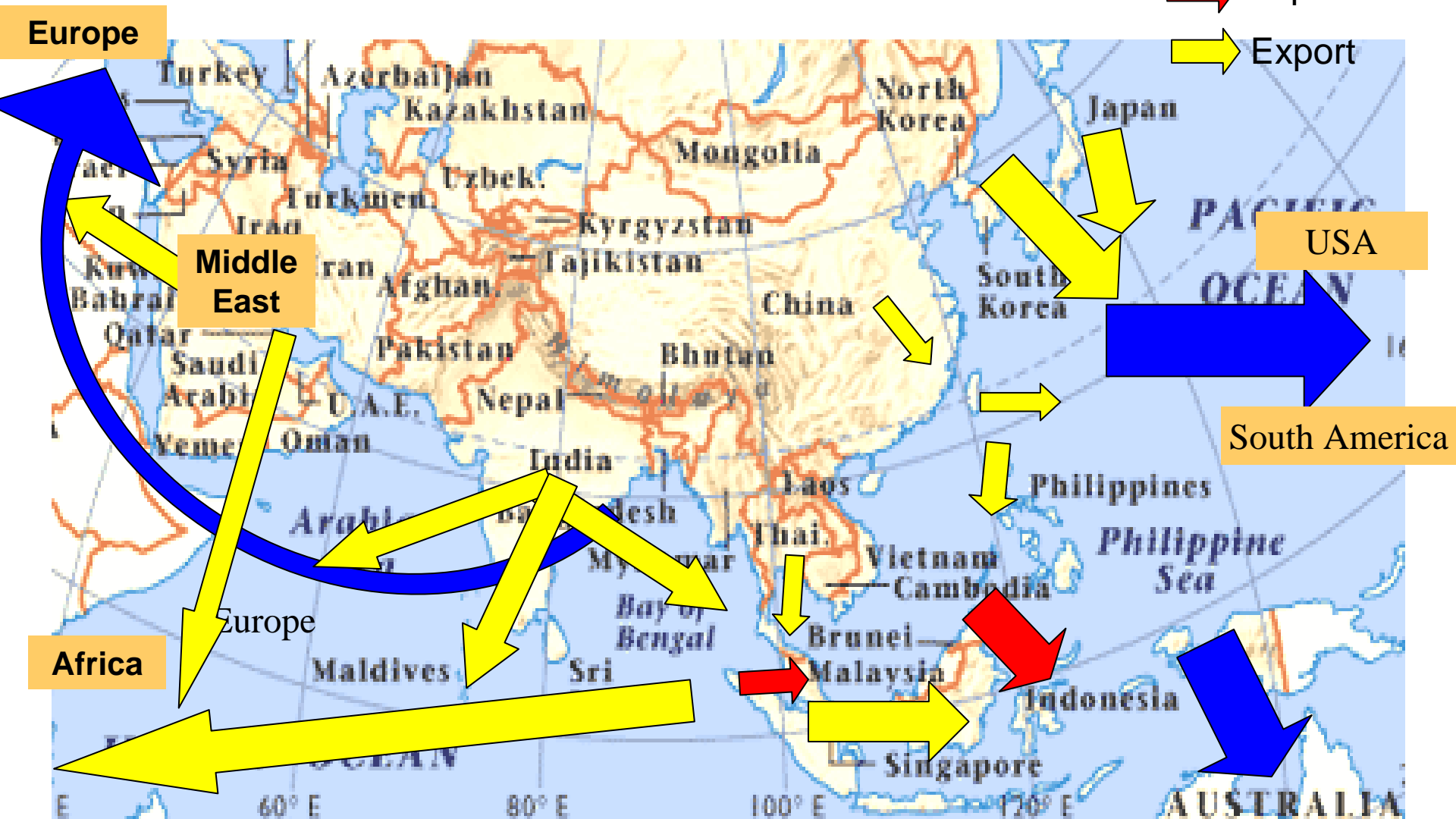
5. Demand & Supply Balance by Products



Commercial Flow in Gasoil (2009~2015)

➔ Import

➔ Export

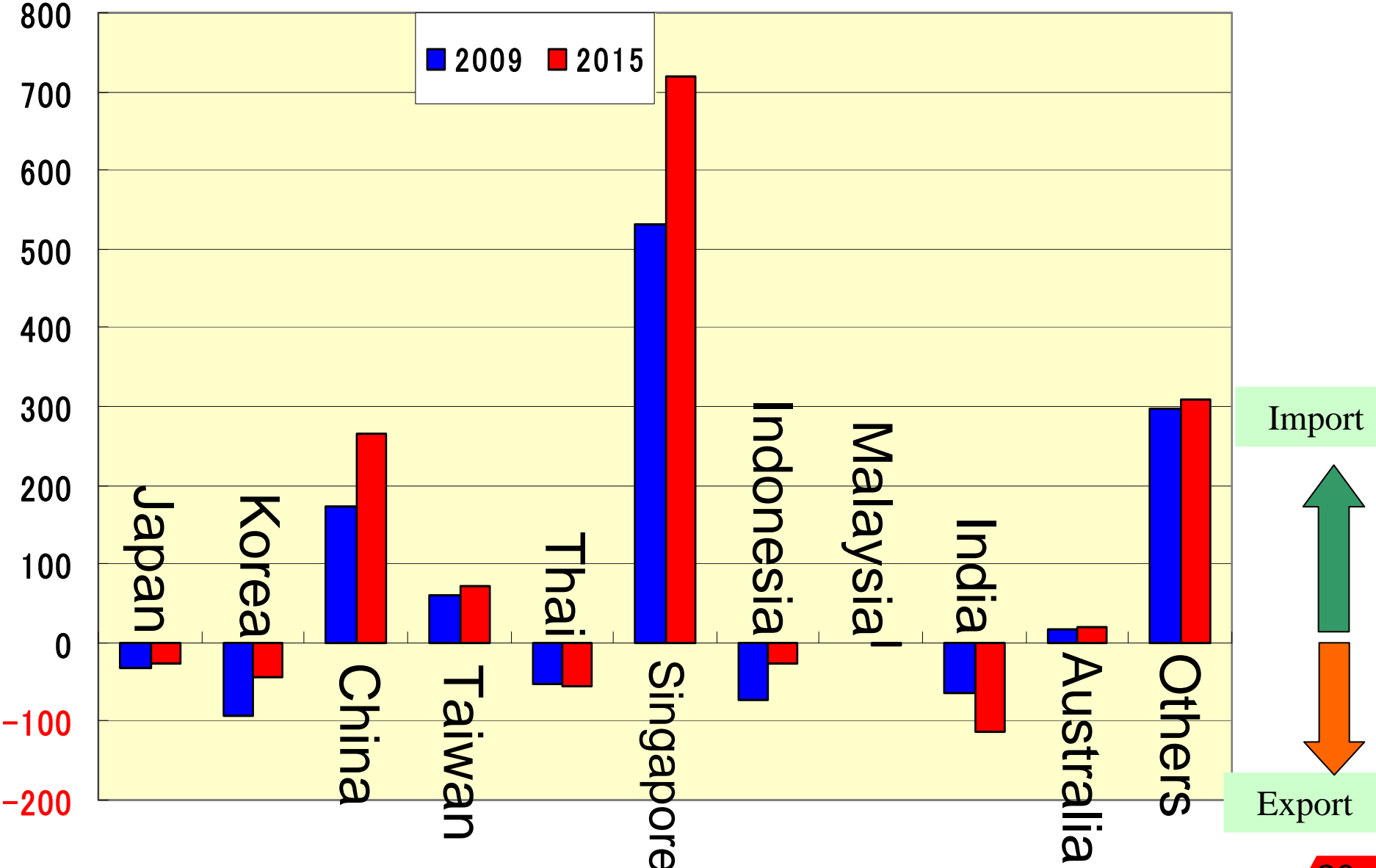


※10ppm Gasoil flow

5. Demand & Supply Balance by Products

Unit: MBD

(Fuel Oil, 2009/ 2015)



Commercial Flow in F/O(2009~2015)



6. Conclusion

Demand & Supply Balance by Products in North East Asia 2009/2015

	2009				
	Japan	Korea	China	Taiwan	Total
Naphta	379	306	-7	189	867
Gasoline	40	240	7	47	320
Gasoil	-94	-389	-119	-194	-796
Fuel oil	-27	-45	265	73	266

Gasoline, Jet and Gasoil supply will exceed demand significantly in 2009 and the surplus position will expand further toward 2015.

How should we cope with this problem?

※Black color means import position, Red color means export position

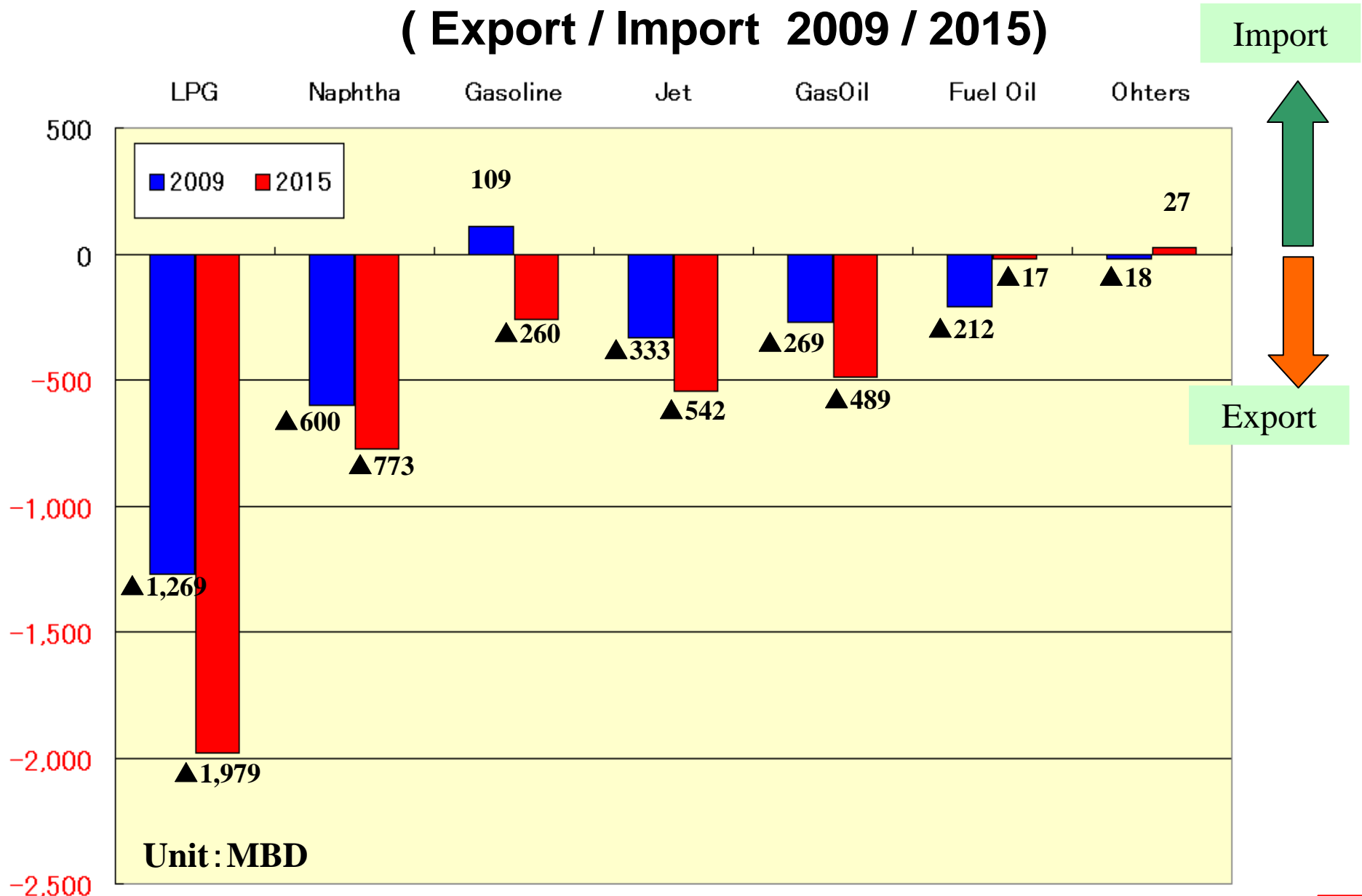
Thank you very much!!

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(Reference) Middle East Demand & Supply Balance (Total) 光

(Export / Import 2009 / 2015)



Import

Export