

Asian Premium of Crude Oil and Importance on Preparation of Oil Market in Northeast Asia

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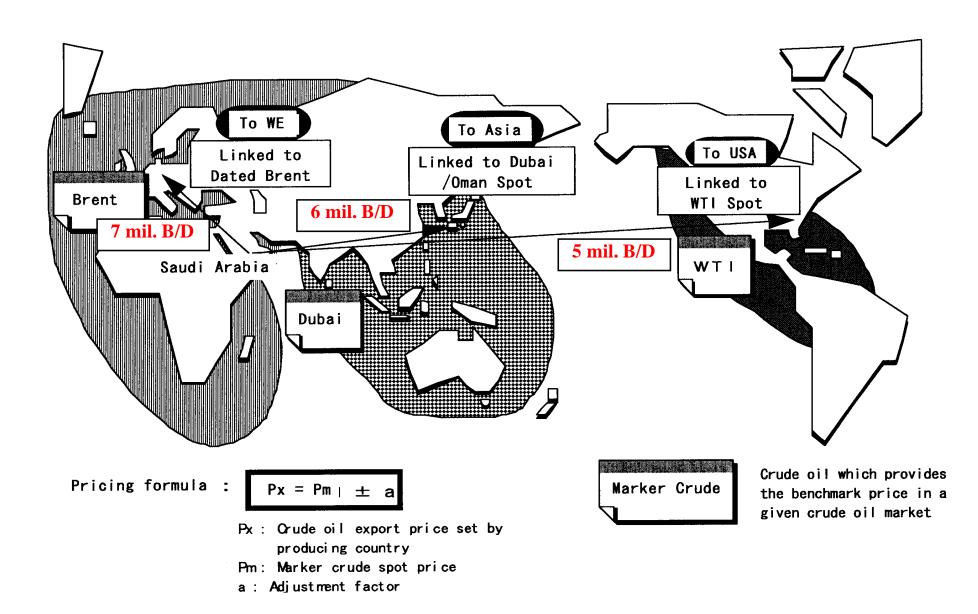
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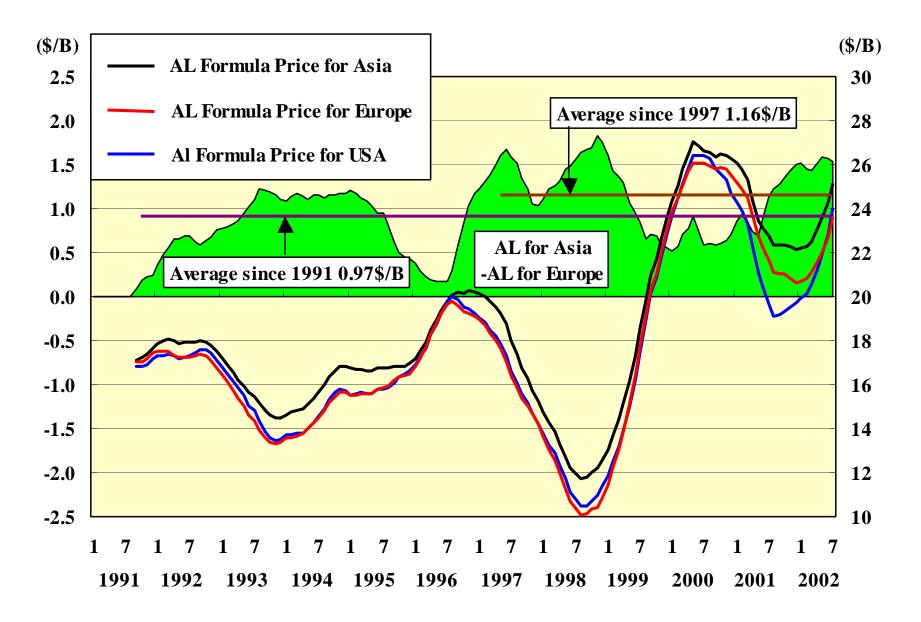
Crude Oil Pricing System since 1987





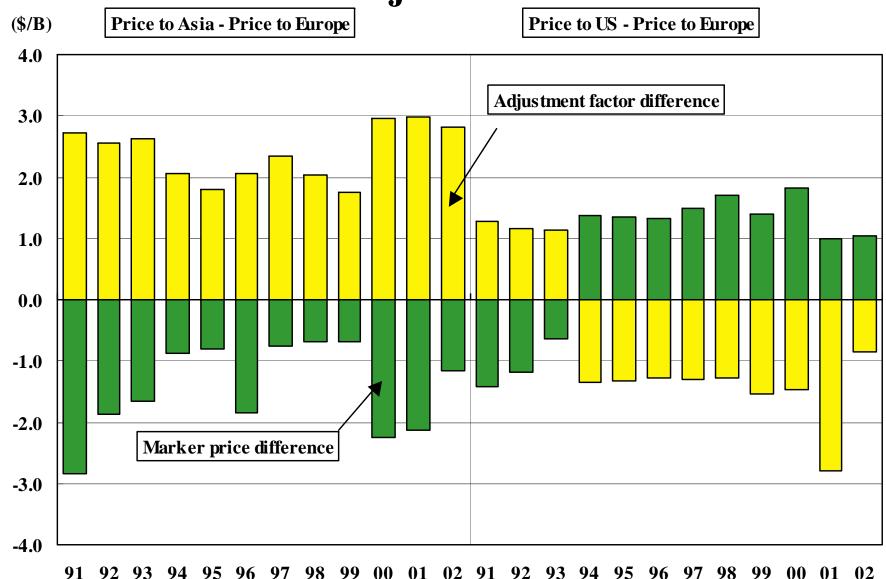
Asia Premium of Crude Oil





Difference between Marker Prices and Difference between adjustment factors



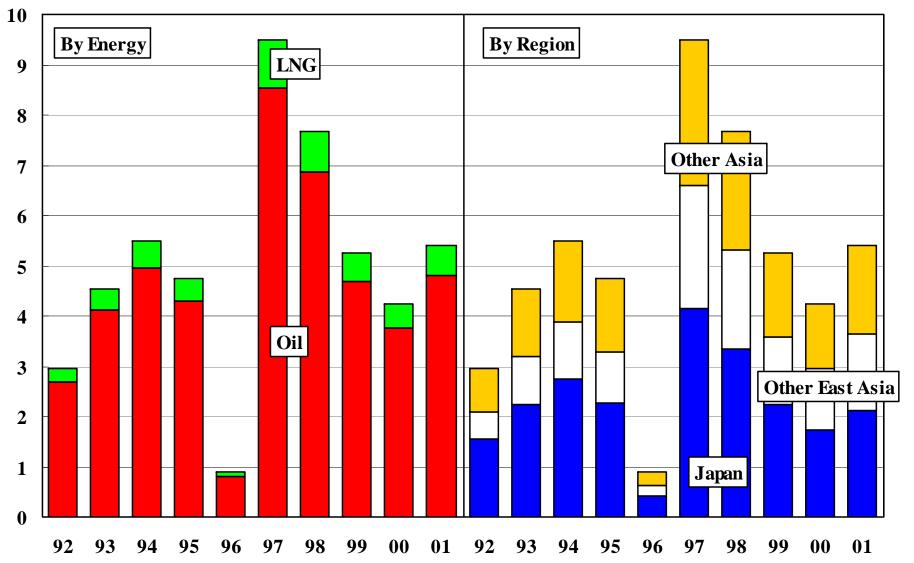


Income Transfer due to Asian Premium of Crude Oil

IEE

JAPAN

(Billion \$)



Asia Premium Having Large influences to International Competitiveness in Economy

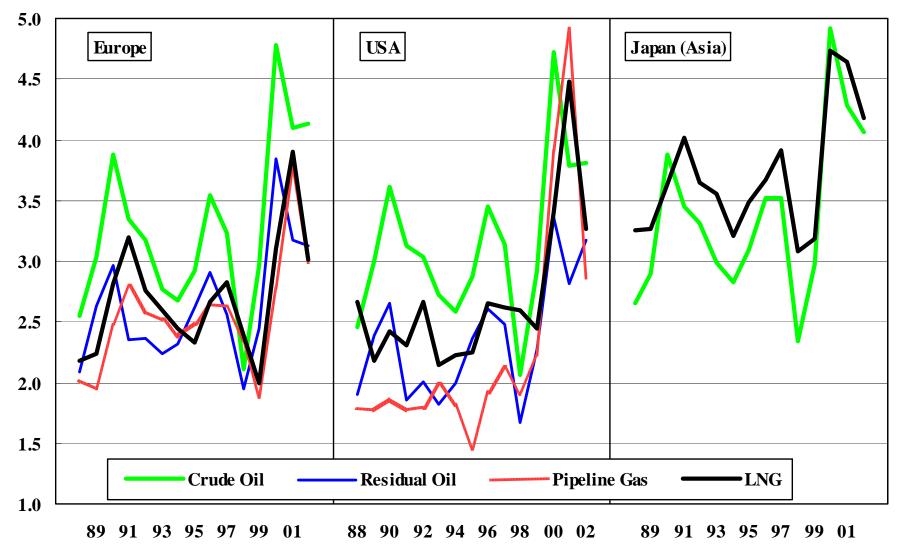


- Additional income transfer of 5 to 10 billions \$ from Asian consuming countries to oil producing countries
- Worsening refinery margin since 1999—recently expanded to minus value of about 1\$/B
 - # reducing refinery margin due to demand slowdown and surplus refining capacity since 1997
 - # minus refinery margin due to higher crude oil price since 1999# lowering refinery operation in Singapore, Korea and so on
- Asia Premium is not limited to oil but exposed on whole energies # Price of other energies such as LNG is raised through crude oil price # LNG has an original problem for Asian premium
 - # LPG contract price showing ups and downs like emergency time one-way force by producing countries

Asian Premium of LNG

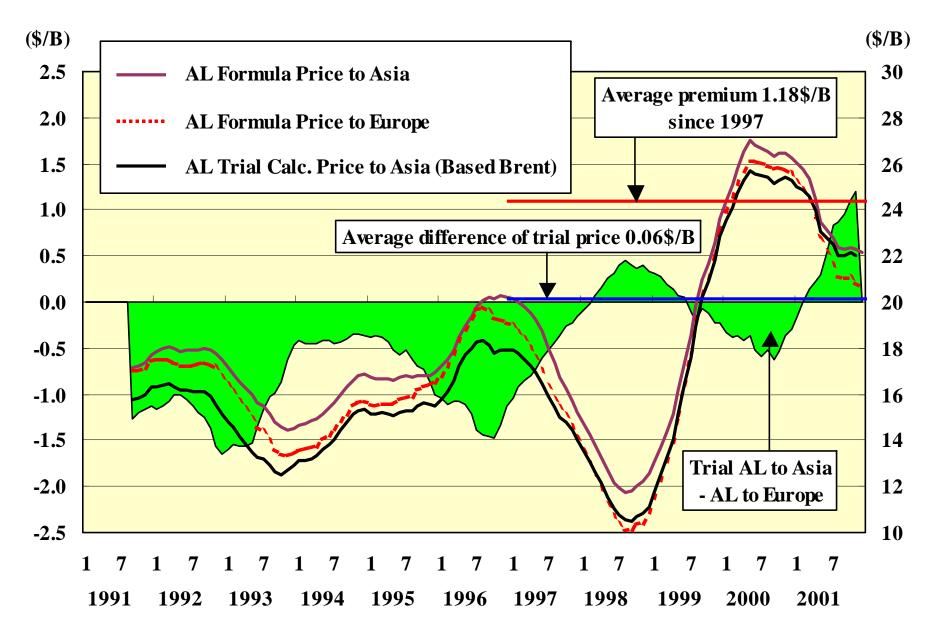


(US\$/MMBtu)



Proposal (1) : Pricing Based on Brent





Problems in Pricing Proposal (1)



• Price formation not reflecting oil supply-demand in Asia

Brent price is formed with reflecting oil supply-demand in Europe# Easy to be influenced by special problems in US oil supply-demand# Not always consistent with oil supply-demand environments in Asia

• Problems of price manipulation due to production decrease in Brent

The existence of price manipulation such as notorious squeeze# Twin market relation between physical spot / forward and IPE future

Product Price Difference between Singapore and Rotterdam

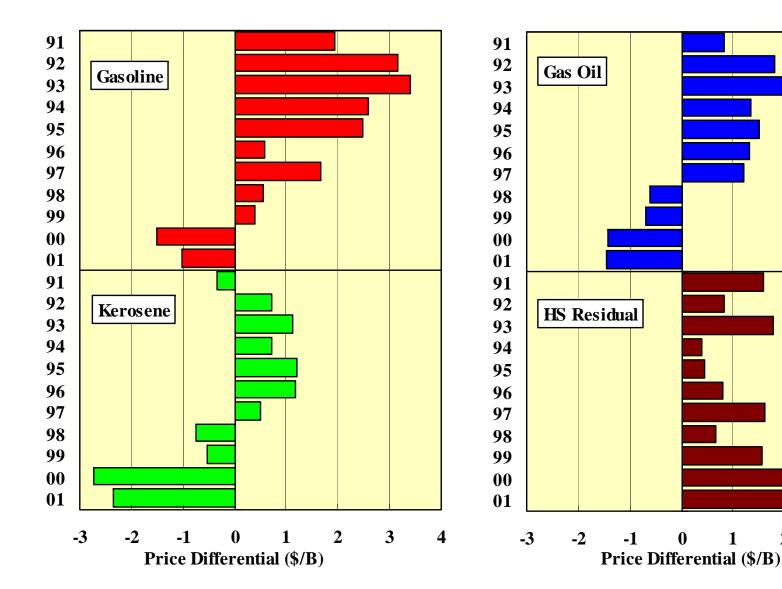


3

2

4

(Singapore price – Rotterdam price)

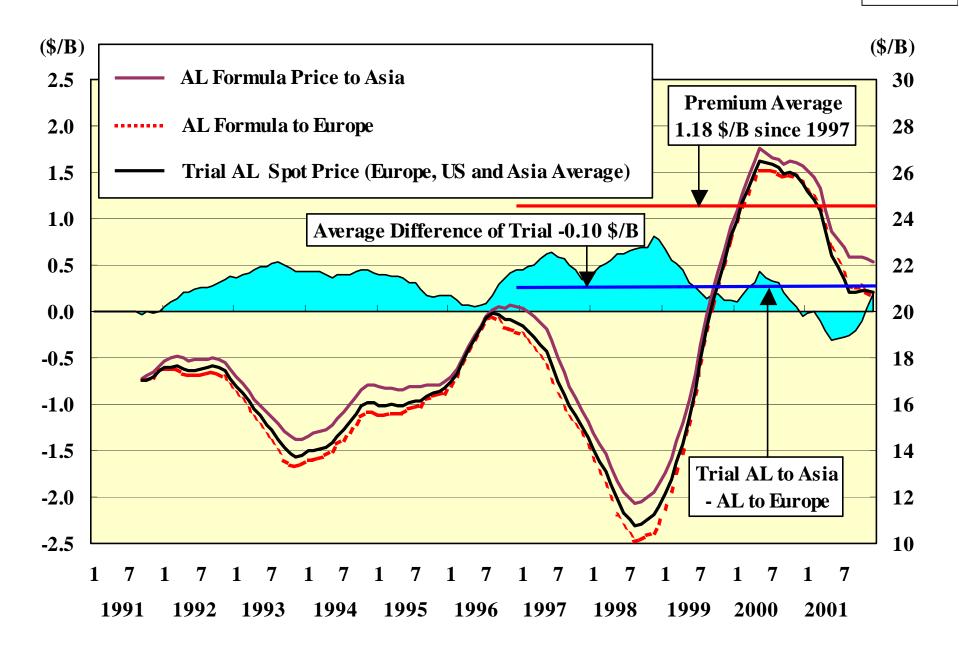


Importance of Oil Market Preparation in Asia



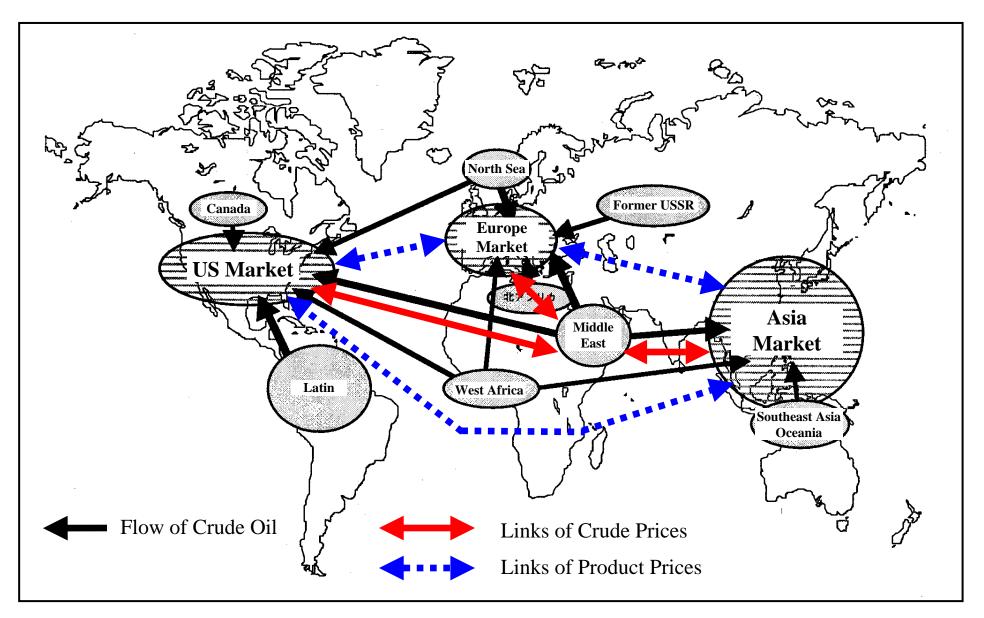
- Oil market not prepared in Northeast Asia, large consuming area
 - # Large consuming area with oil demand of 12 millions B/D which is a similar size to Europe/US
 - **#** Oil market is not prepared in the center of large consuming area
 - **# Singapore market is a just intermediate position for northeast Asia**
 - # Necessary to send information signals reflecting energy competitive relations in large consuming area
- Required conditions for preparation of oil product market in Asia
 - # Streamlining and expansion of oil product trades within Asian region
 - # Deregulation and privatization of oil industries in Asian Consuming Countries# Unification for quality standard of oil products in Asia

Proposal (3) : Pricing Based on AL Spot Prices



Global Links of Oil Markets





Spot Trading of Middle East Crudes and Stabilization of Crude Oil Price



- Factors affecting violent fluctuations of crude prices
 - **# Too high OPEC price band and production controls**
 - # Weakened supply cushions such as insufficient refining capacities and low level of oil inventory
 - **# Overshooting reactions in future market and bottlenecks in spot market**
 - **# Reflection of marginal supply-demand by marginal price marker**
- Formation of marker price by spot trading of ME crudes
 - **# ME crudes are the mainstream reflecting global supply-demand balance**
 - # Without direct interventions, spot trading is consistent with production controls
 - **# Stabilization of crude prices is serious subject also for oil producers**

Some room to suggest the adoption of spot trading to oil producers from the viewpoint of stabilization of crude prices?

Viewpoints on Crude Oil Price Level in IEE JAPAN Asia Situations which **One-way forced price by producer** consumers should avoid with first priority **Competitive level with alternative crudes in Asia Competition between ME and African, North Sea crudes Situations which** Price set up by producers through consumers should effort considering competitive conditions in the to reduce premium market Level where FOB price at delivery point in ME producer are consistent among consuming areas **Crude oil price level which is not a handicap for Asia in** international competitions of economy is required – Issues which ME producers should also consider

Middle and Long-term Subjects aiming at Reducing Asian Premium



• Preparation of oil product markets in northeast Asia and Asia

Streamlining and expansion of oil markets in various consuming areas # Formation of the linkages of oil markets between Asia and Europe/US

• Developments of alternative crudes except ME crudes

Procurement of increasing crude oils in the West of Suez such as West African crudes

Developments of neighboring oil resources such as Sakhalin and east Siberia

Developments of liquid fuels (GTL) from coal and natural gas

• Further reinforcement of flexibilities in consuming areas

Flexible combinations of crude oil processing and oil product import/ export
Reinforcement of flexibilities in fuel selection in consumer sides