



Paradigm Shift and Challenges of LP Gas Tatsuhiko Yamasaki Chairman **Japan LP Gas Association** International LP Gas Seminar 2014 March 6 2014

Members	LP Gas importers and producers based in Japan	
Chairman	Tatsuhiko Yamasaki (President, Astomos Energy Corporation)	
Number of members	14	J-LP GAS,
Established	1963	

Member companies

- Astomos Energy Corporation
- Cosmo Petroleum Gas Co., Ltd.
- EMG Marketing Godo Kaisha
- ENEOS GLOBE Corporation
- Itochu Corporation
- Iwatani Corporation
- Japan Gas Energy Corporation

- JAPEX-SKS
- Kygnus LP-Gas Co., Ltd.
- National Federation of Agricultural Co-operative Association

1

- Showa Shell Sekiyu K.K.
- Sumitomo Corporation
- Taiyo Oil Co., Ltd.
- Tokyo Gas Co., Ltd.



contents

1. Supply and Demand of LP Gas

2. Price Trends of LP Gas

3. Paradigm Shift and Challenges of LP Gas

4. Conclusion
∼ In response to the direction of the new energy policy ~

2. Price Trends of LP Gas

3. Paradigm Shift and Challenges of LP Gas

4. Conclusion ∼ In response to the direction of the new energy policy ∼

1.1 Trend of LP Gas Demand by Sector

Japan's LP Gas demand peaked in FY1996 and continued to make a gradual decline until FY2011. The figure edged up in FY2012 due to demand for power generation.



LP Gas Demand (FY1992 – FY2012)

Source: "LP Gas Demand Outlook" by the Liquefied Petroleum Gas WG, Petroleum Products Demand Outlook Committee, METI



1.2 Comparison of Main LP Gas supplying countries to Japan

The amount of LP Gas supply is on the decline in line with the demand trend. Among LP Gas supplying countries to Japan, the ratio of the Middle East has reduced, while that of non-Middle East regions such as the United States is increasing.

Change of the LP Gas Supply (CY2005,2013)

Quantity by supplying countries (CY2005,2013)



Country	CY2005		CY2013		2012/2005
	Q'ty	Share	Q'ty	Share	2013/2005
Saudi Arabia	5,136	38.2 %	1,475	12.7%	<mark>28.7</mark> %
UAE	3,239	24.1%	2,861	24.7%	88.3%
Qatar	1,242	9.2 %	3,402	29.4 %	274.0%
(others)	1,677	12.5%	1,360	11.7%	81.1%
Middle East total	11,294	84.0%	9,098	78.6%	80.6%
USA	33	0.2 %	952	<mark>8.2</mark> %	2907.0 %
Australia	1,084	8.1%	585	5.1%	53.9%
East Timor	0	Ι	569	4.9%	—
(others)	1,029	7.7%	371	3.2%	46.0%
Non-Middle East total	2,145	<mark>16.0%</mark>	2,477	21.4%	115.5%
Total	13,440		11,574		86.1%

Source: Japan LP Gas Association

Unit: Thousand tons



2. Price Trends of LP Gas

3. Paradigm Shift and Challenges of LP Gas

4. Conclusion ∼ In response to the direction of the new energy policy ∼

2.1 Transition of CP and Comparison with A.L. Crude Prices

Increasing price fluctuations of LP Gas in recent years, showing an upward trend.





2.2 Transition of CIF Prices by Source

The prices of LP Gas and LNG reversed briefly, but LNG continues to stay more competitive.



2. Price Trends of LP Gas

3. Paradigm Shift and Challenges of LP Gas

4. Conclusion ∼ In response to the direction of the new energy policy ∼

3.1 New energy policy of the Japanese government

The government has reviewed "Basic Energy Plan" to promote the deregulation of the Electric utility industry and the Urban Gas utility industry as well.

Directions of New Basic Energy Plan

Improved Position of LP Gas

- Diversified supply source of LP Gas is reducing geopolitical risks
- Distributed energy with unique characters of portability and low greenhouse gas emissions
- Clean energy that is useful in emergency as well as in normal times

Policy direction

- "Last stronghold" energy supply in emergency
- Further strengthening the supply by increasing the national stockpiling and reinforcing the supply facilities such as core bottling stations
- Promoting usages of LP Gas by improvement of the local LP Gas supply system

Electric system deregulation

Full market liberalization leading up to the separation of power production and distribution / transmission

Urban Gas system deregulation

Debates commenced for full market liberalization

Intensifying competition among different energy



3.2 Diversified LP Gas procurement ~ increasing exportable availability of LP Gas in the United States~

Due to Shale-associated LP Gas production in the United States, the supply sources of LP Gas to Japan can be diversified.



Source: Clarksons Gas

Resources and Energy, Ministry of Economy, Trade and Industry Japan LP Gas Association

3.3 Diversified LP Gas procurement ~ Development of new supply sources~

New supply sources in the Pacific Rim region, etc. being under development in association with the new natural gas projects.





3.4 Diversified LP Gas procurement ∼after completion of the Panama Canal Expansion Project∼

The completion of the Panama canal project will make LP Gas out of U.S Gulf easily accessible to Far East Asia.

Maritime route	One-way transportation duration	Freight rate
① AG / Far East	18 days	\$50/Mt (market rate)
2) USGC/ Far East	45 days	\$156/Mt (market rate)
③ <u>USGC/ Far East (via Panama)</u>	22 days	\$83/Mt

As of February 2014





Japan LP Gas Association

3.5 Supply-side reinforcement ~Strengthening the LP Gas reserve system~

Completion of national reserve bases for securing stable energy supplies. J-LPGA to start how the Japanese importers can contribute more effectively to secure LP Gas supply.





3.6 Supply-side reinforcement ~Functions of the bases and the core bottling stations~

Enhancing the functions of the bases and the core bottling stations to ensure stable supplies of LP Gas even in emergency.







3.7 Demand-side reinforcement ~Partnership with local authorities~

Working with the local authorities to promote LP Gas to save lives at the disasters.



2. Price Trends of LP Gas

3. Paradigm Shift and Challenges of LP Gas

4. Conclusion

 \sim In response to the direction of the new energy policy \sim

4.1 In response to the direction of the new energy policy ①

The Japan LP Gas Association has reviewed the "Mid- to Long-Term Vision for the LP Gas Industries for 2030" and implemented the plans to create new LP Gas markets.





4.2 In response to the direction of the new energy policy 2

The Japan LP Gas Association has reviewed the "Mid- to Long-Term Vision for the LP Gas Industries for 2030" and implemented the plans to create new LP Gas markets.



D Japan LP Gas Association



