



Oil Price Changes and its Impact on LPG Supply and Demand 油价变化及 其对液化气的供需求影响

21st China LPG Conference 2016 第21届中国液化气会议2016

Kunming, China 中国昆明

16th to 18th March 2016 3月16至18日

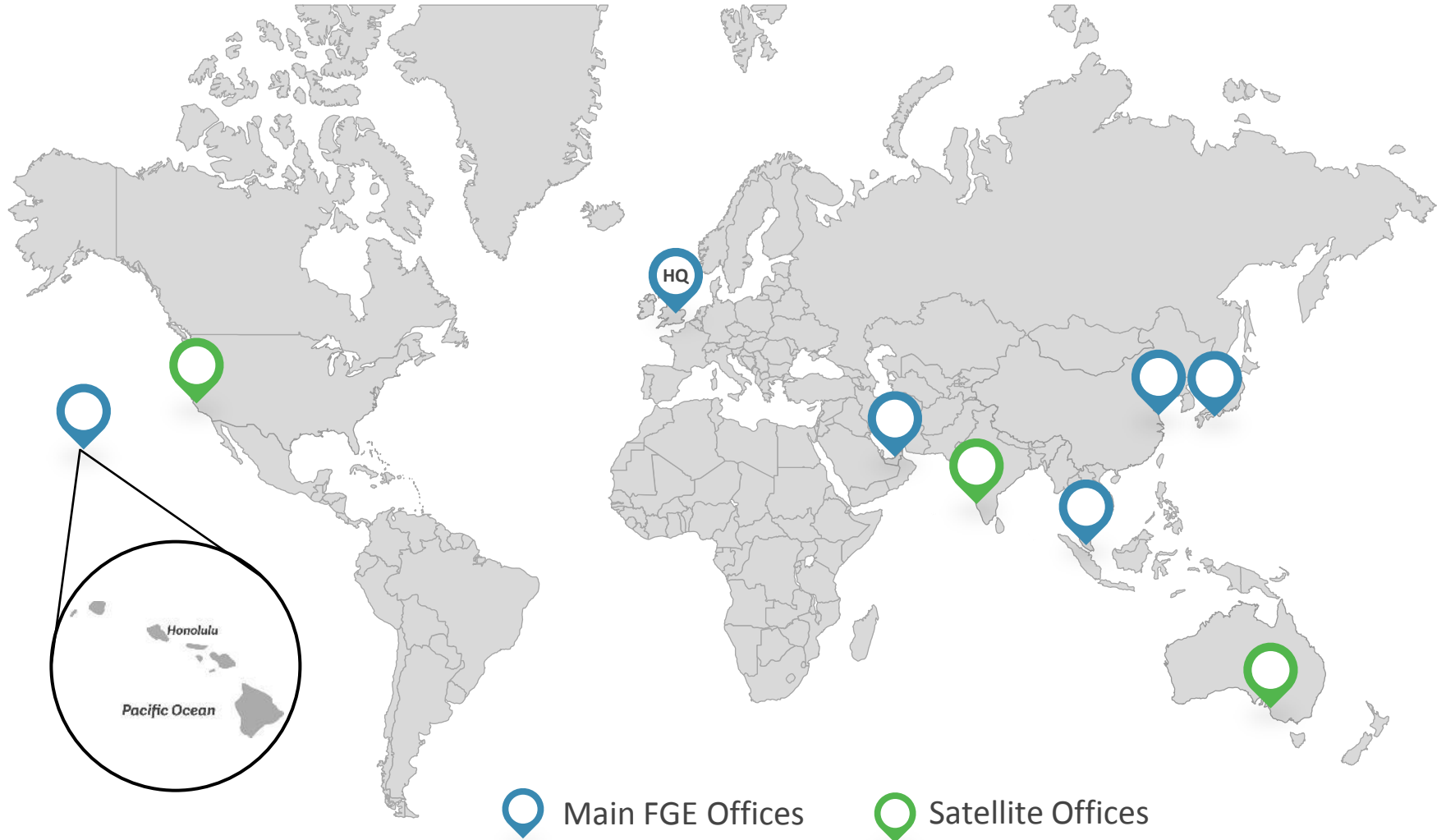
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Global Office Locations

Main and Satellite Offices



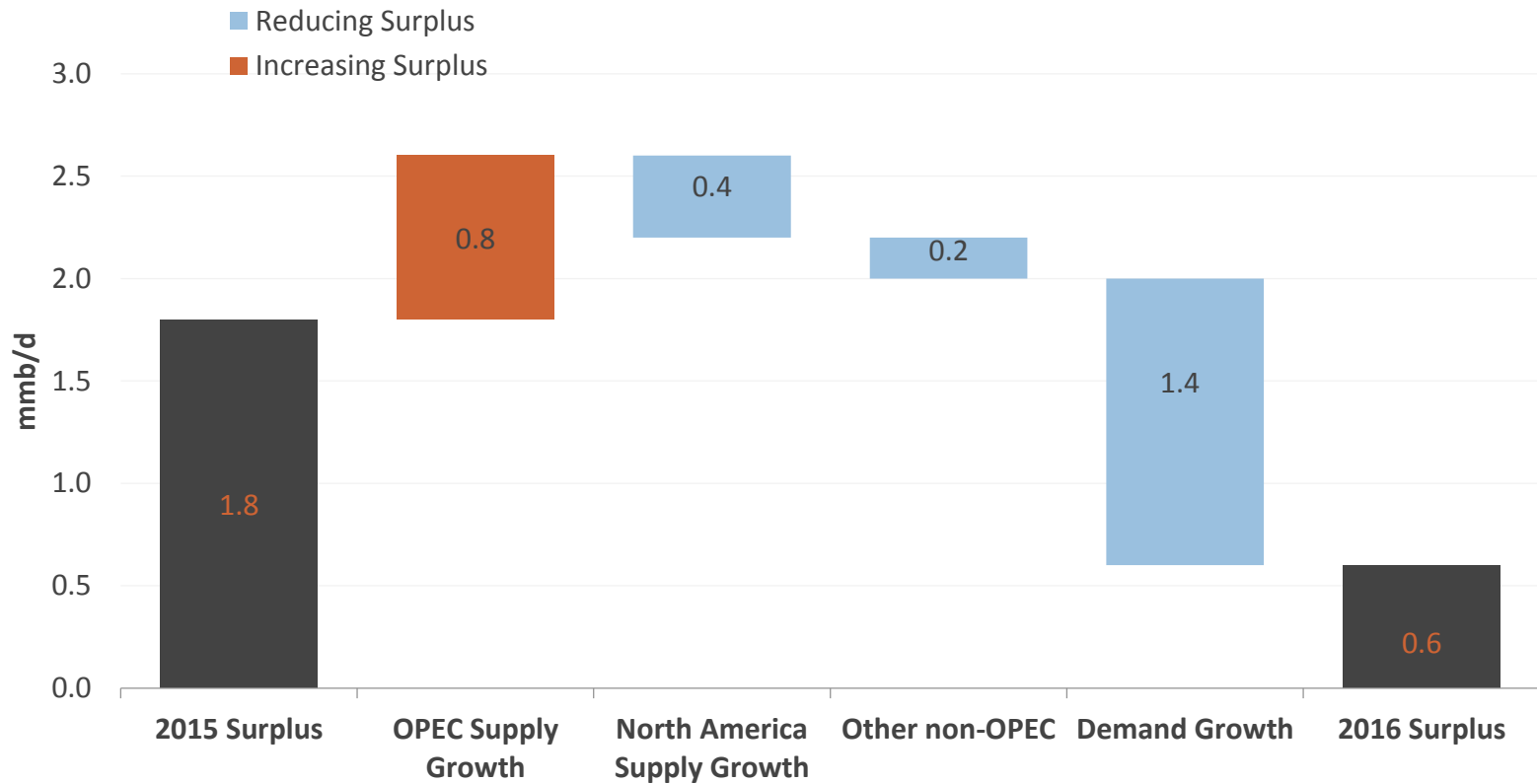
Overview – Lower Oil/LPG Prices

概观 - 下调的石油与液化气价格

Lower Oil Prices 低迷的石油价格

...but expect ongoing volatility 但不要乞求油价不会持续波动

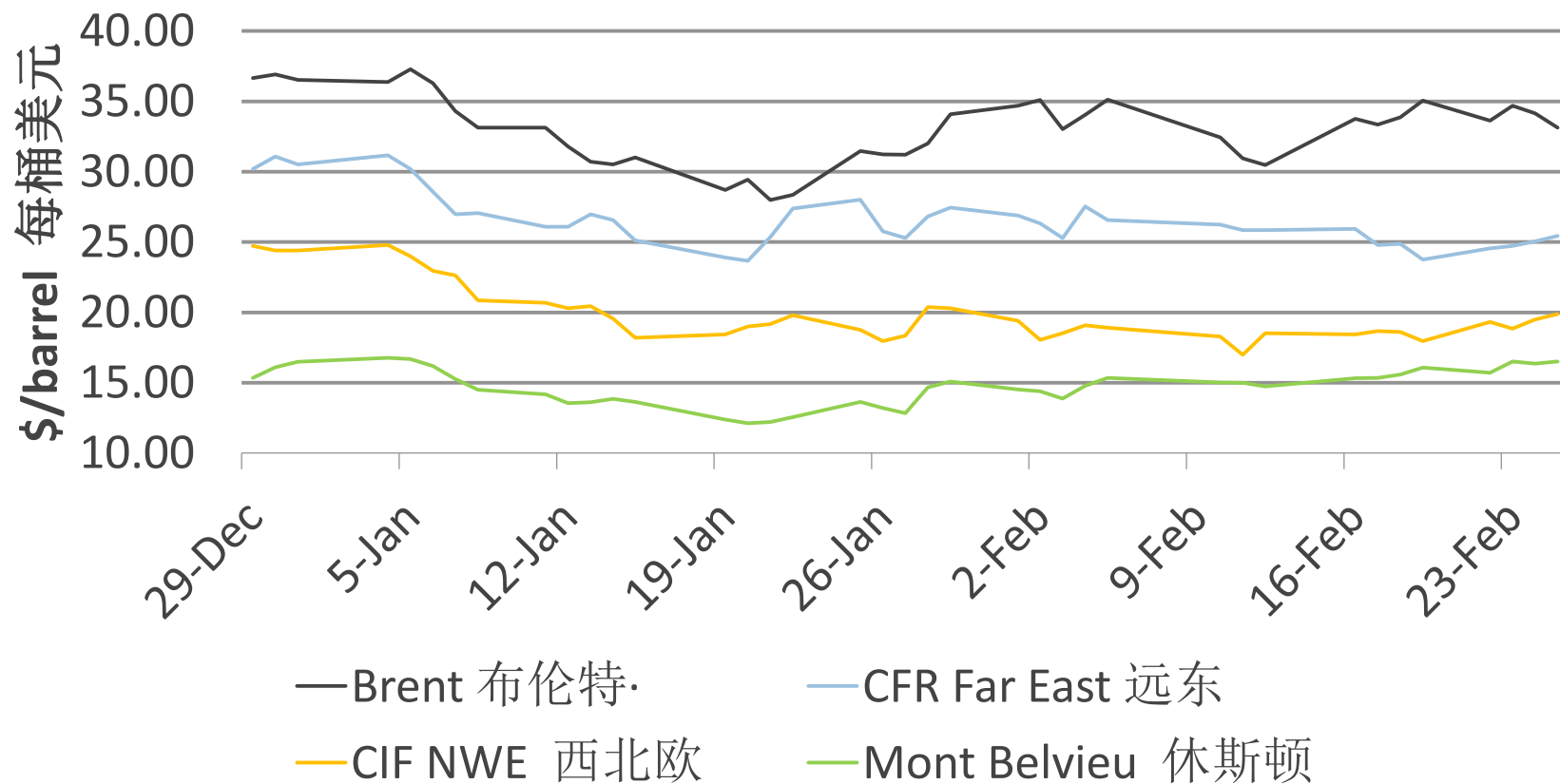
Oil Market Surplus (2015 vs 2016)



Lower LPG Prices

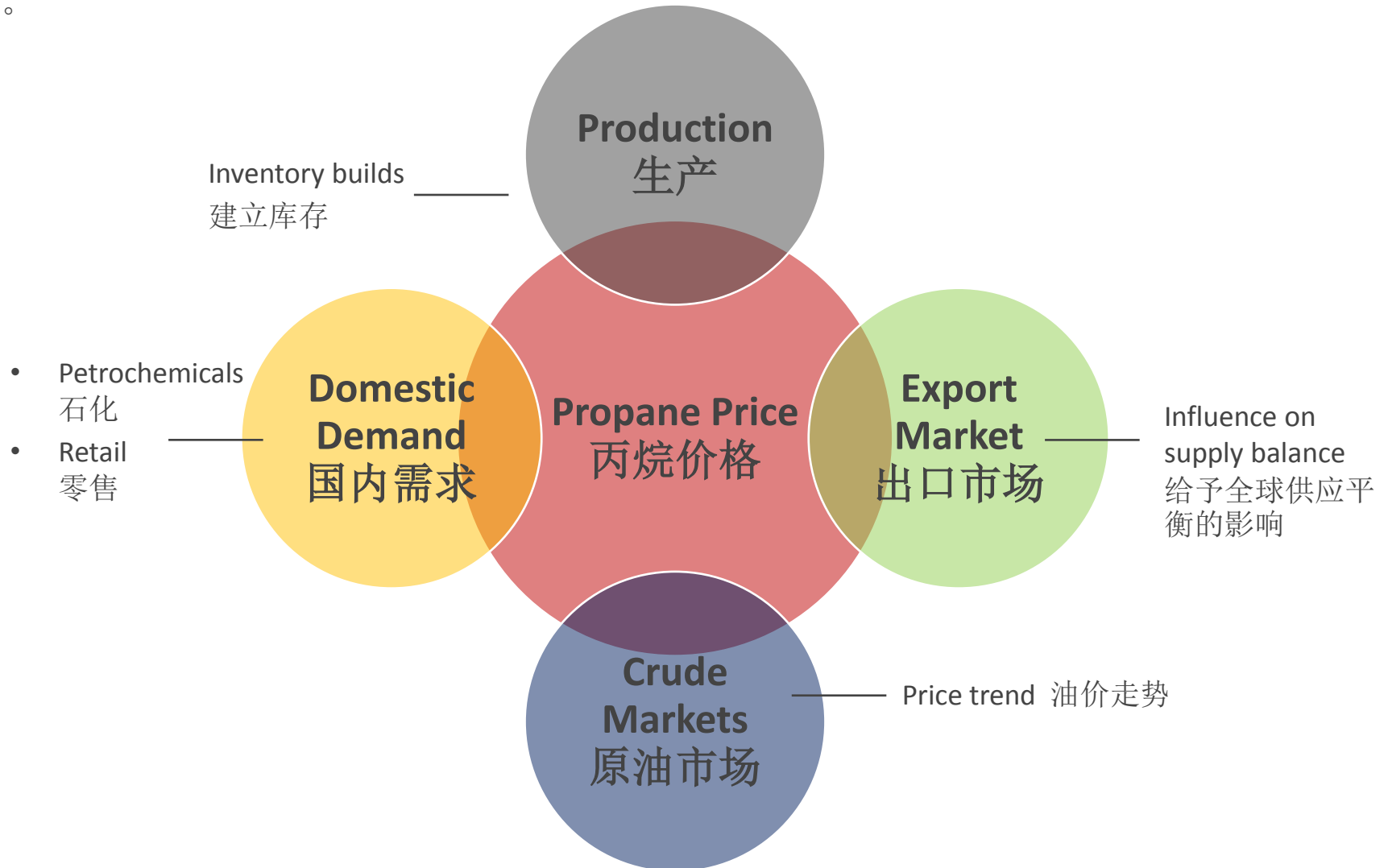
...they have tended to follow crude but by very different degrees

Trends of Crude and Propane 原油和丙烷的趋势



The Battle over Belvieu 美国液化气价格之战

...some want prices up, others want them down.有的要价格上涨，其他的则要价格下滑。

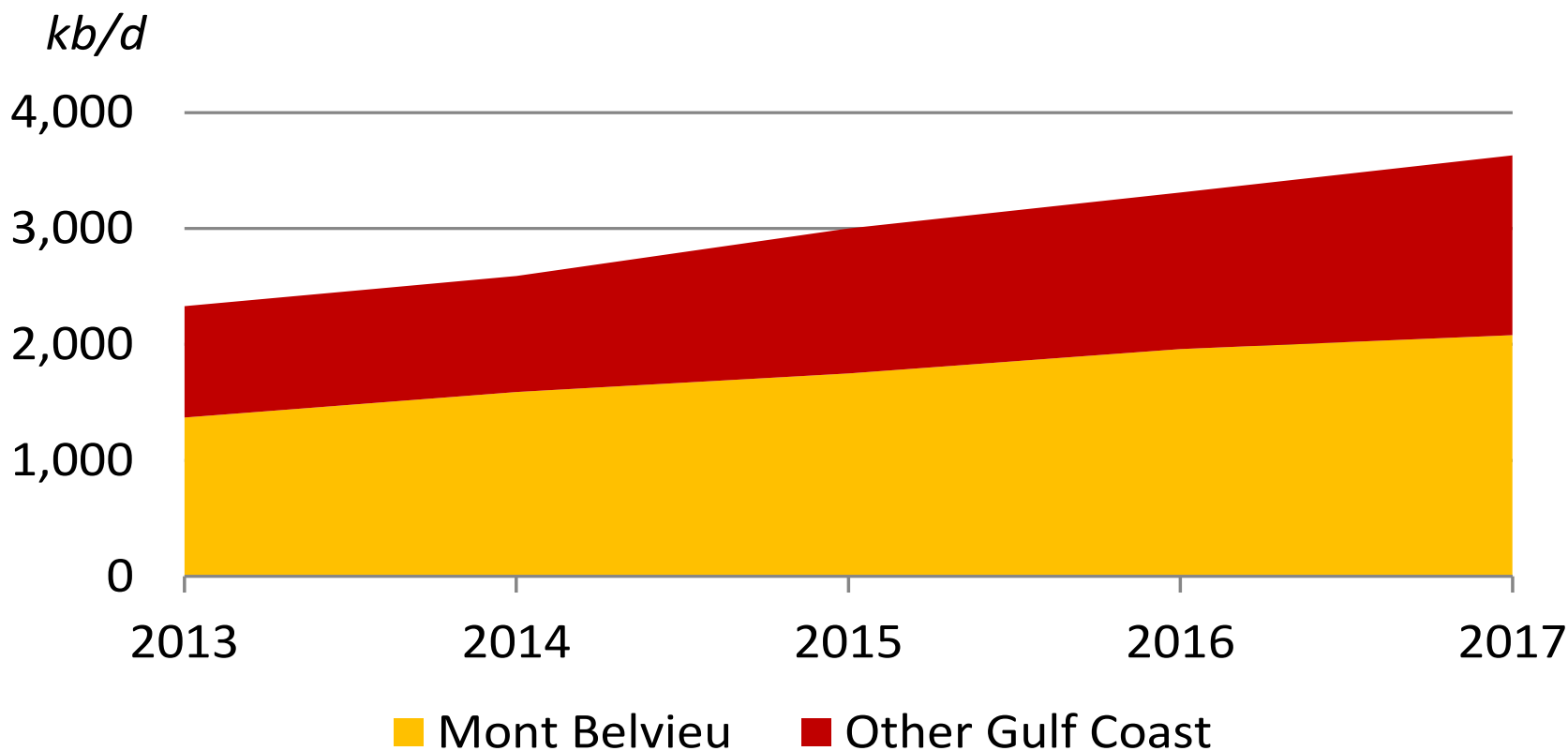


LPG – The US Implications 美国液化气影响

US NGL Production 美国天然气液体的生产

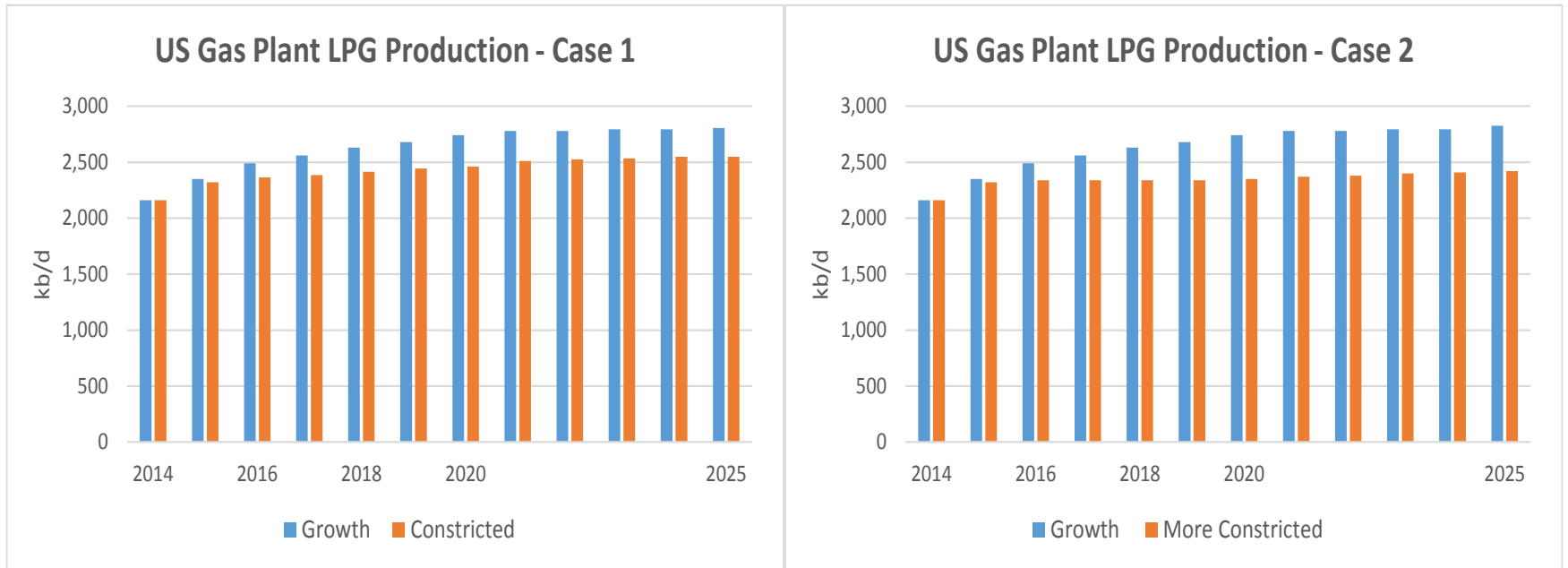
...problems aplenty 问题重重

Planned US Gulf Fractionating Capacity



US LPG Production Forecasts 美国液化气生产预测

...forecasts coming down 预测开始下降了



Case 1 at \$60-80/barrel crude 在每桶原油60至80美元的情况下

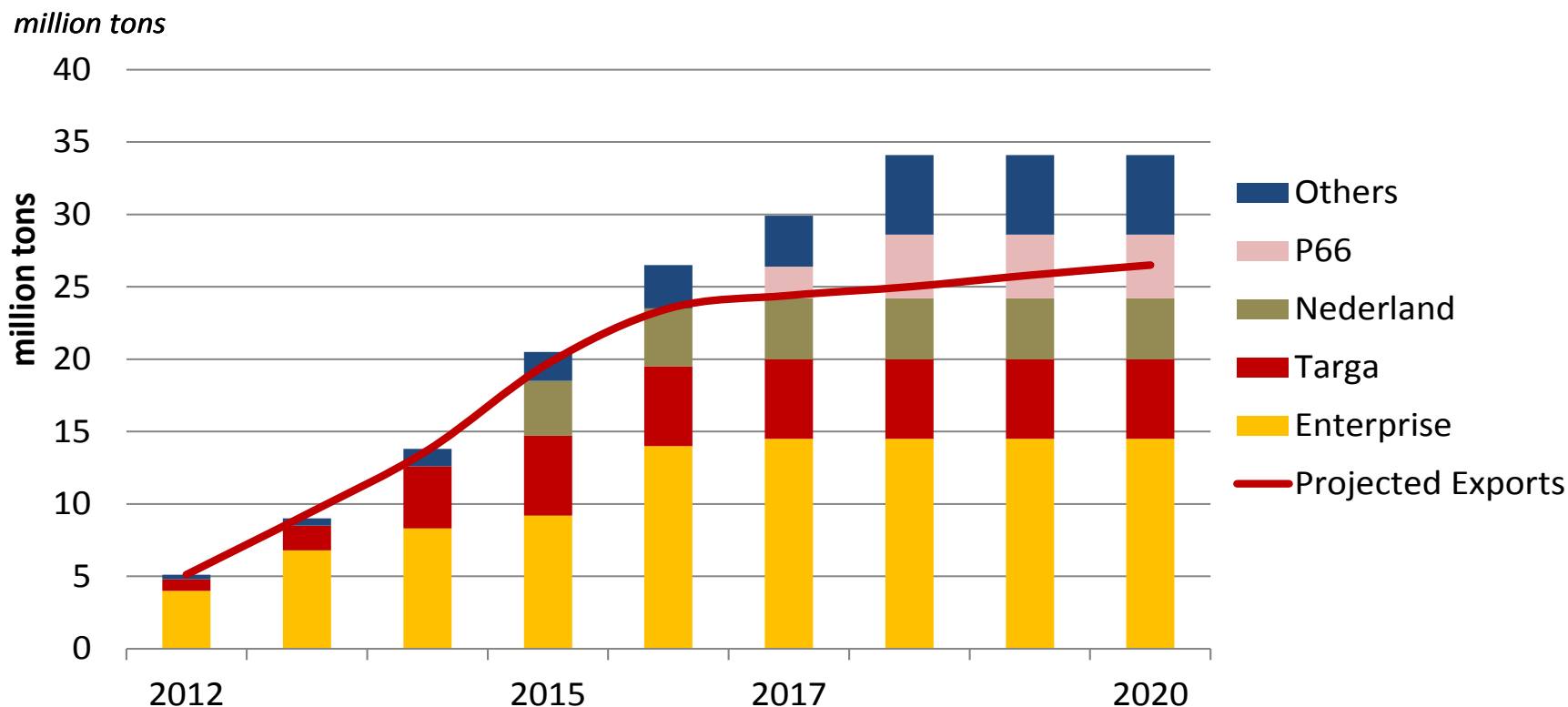
Case 2 at \$40-60/barrel crude 在每桶原油40至60美元的情况下

LPG – The Global Implications 全球液化气影响

US Future LPG Exports 美国液化气出口的发展趋势

...the export build-up will slow down 出口积聚将放缓

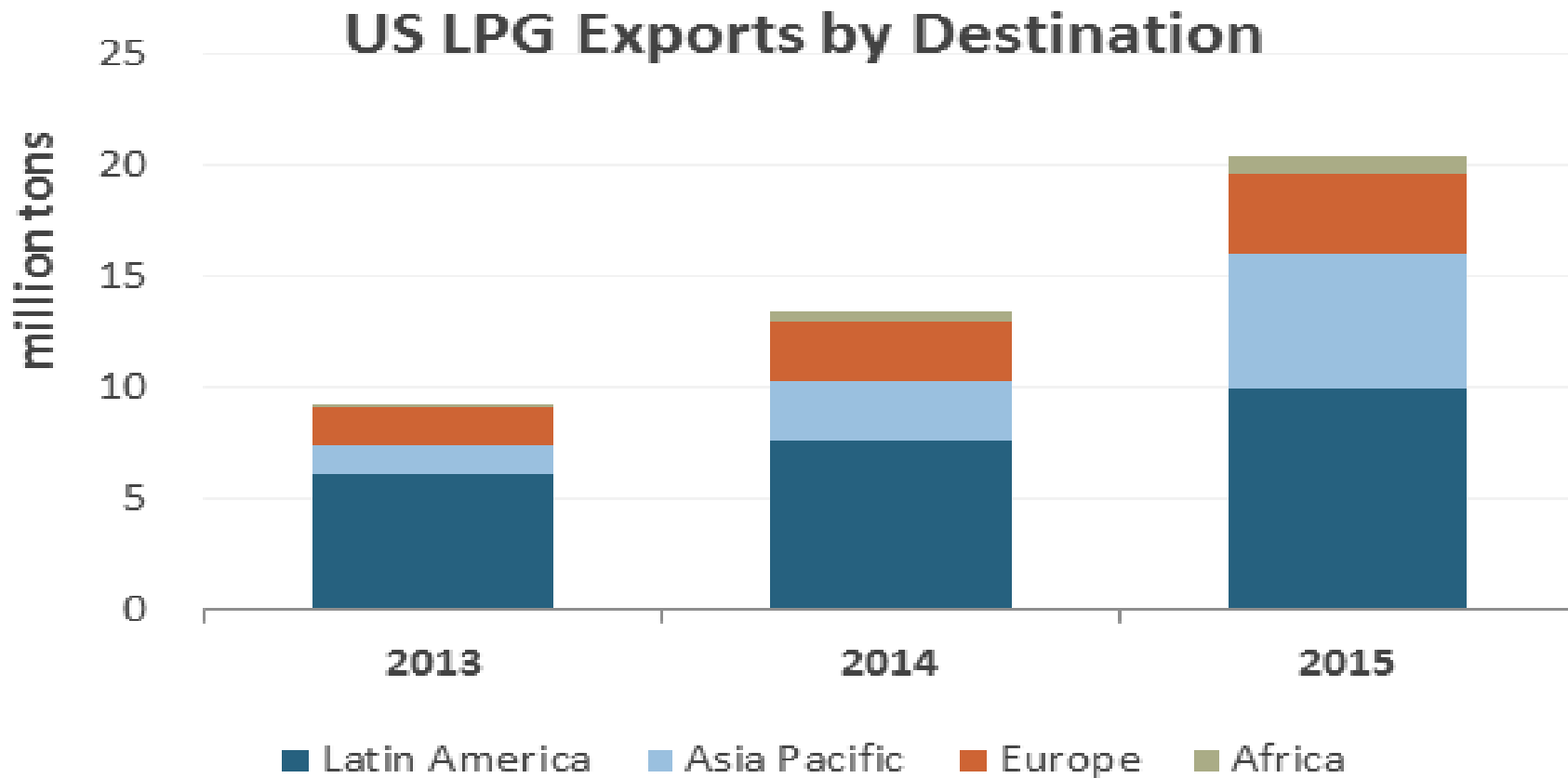
US LPG Export Capacity, by Company



But There is Some Good News 但也有好处还是有的

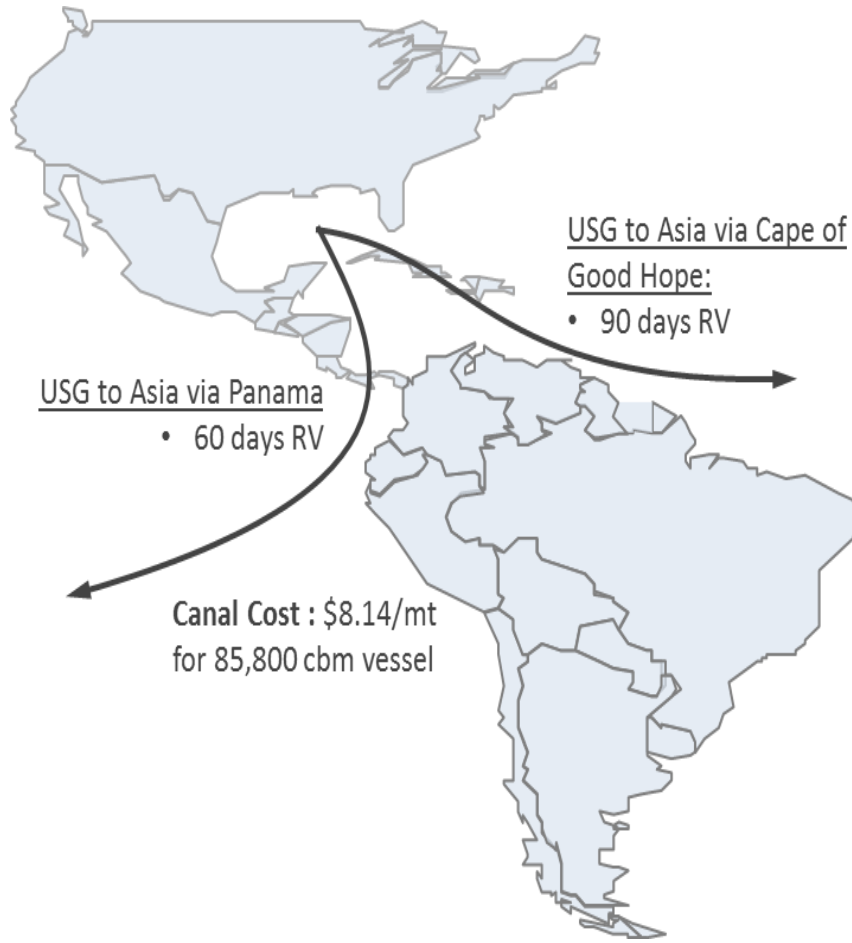
...the world needs LPG from the US and has become more dependent on it

现在，全球已经需要美国液化气了，而且依赖性越来越大。



And the Good News – Part Two 还有好消息

...the wider Panama Canal should be available for US-to-Asia trade this year at cheaper freight
 将于今年扩大的巴拿马运河应为美国至亚洲航线带来更低廉的运费



VLGCs capable of transiting existing canal

On Water	On Order
Clipper Sirius (75,000)	2x Solvang TBN (78,700)
Ronald N (75,000)	2x Petredec TBN (78,700)
Clipper Victory (75,000)	4x TMS Cardiff (78,700)
Karoline N (75,000)	

Tolls for LPG Carriers

Tier (cubic metre)	Laden	Ballast
1st 5000	\$5.50	\$4.40
Next 20,000	\$2.35	\$1.88
Next 30,000	\$2.30	\$1.84
Subsequent	\$1.80	\$1.44

Lower Oil Prices, new LPG Demand? 低油价, 新需求?

Some happening in the retail sector, other markets dependent on relative prices. It is mainly East
 有些新需求出现在零售领域, 其他市场则依赖于替代燃料价格。主要需求还是亚洲市场

Propane Imports 丙烷进口 (million tons 百万吨)

	2015	2016
Japan/Korea	11.9	11.9
China (with Taiwan)	9.3	10.0
SEA	3.7	4.0
South Asia	3.7	4.0
Pacific	0.4	0.4
NW Europe	7.9	8.3
Med	5.1	5.5
N. Africa	1.7	2.0
Americas	8.3	8.4
Total Imports (East)	34.0	36.0
Total Imports (West)	23.0	24.2

Butane Imports 丁烷进口 (million tons 百万吨)

	2015	2016
Japan/Korea	4.4	4.0
SEA	4.3	5.0
China (with Taiwan)	4.1	5.0
South Asia	5.2	6.0
Pacific	0.0	0.0
NW Europe	1.7	1.7
Med	3.1	3.2
N. Africa	5.0	5.0
Americas	1.5	1.7
Total Imports (East)	18.0	20.0
Total Imports (West)	11.3	11.6

Some Concluding Remarks 结论

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- Sadly it is all doom and gloom on the LPG front at present.
可悲的是，液化气市场目前处于一个困境。
- Our company is predicting the recovery in oil prices.
本公司是预测油价回升。
- We are optimistic on the LPG export trade.
我们都对液化气出口贸易十分看好。



Thank You

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