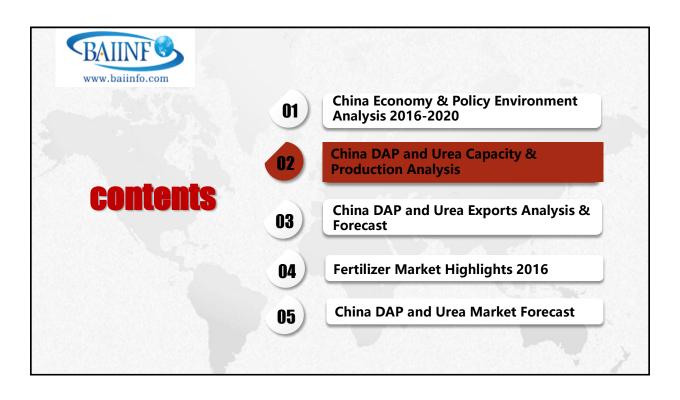
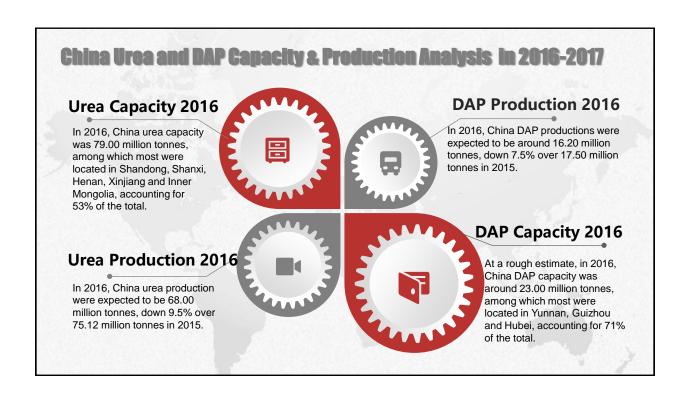
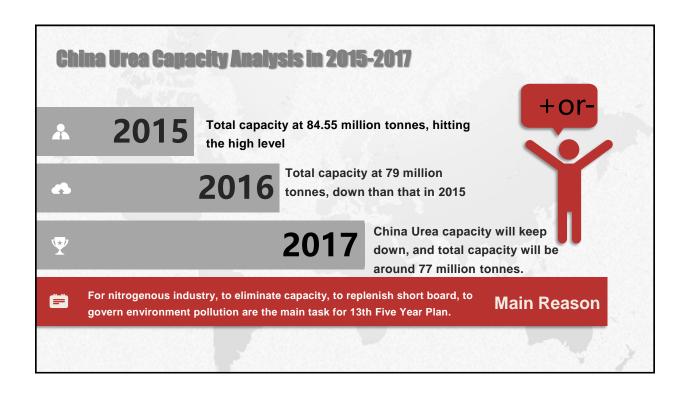


China GDP Rrowth Rate Analysis (by Quarter) Facing bearish economy and downward pressure of traditional 7.1 industries, the government introduced measures to promote the economy, so it's turning stable with structural optimization and better efficiency. 6.9 In the first half of 2016, the government expanded the demand 6.7 6.7 moderately and promoted the supply-side structural reform through entrepreneurship and innovation, so the GDP ran stable overall. 6.6 6.5 Q1 Ω2 Q1 Ω2 Above Scale Industrial Added Value Growth Rate (MoM) 2015 2016 With the above measures, China's industry economy showed an upward trend. New industries and new products became main support for industrial stability. Industrial structure adjustment, power conversion, transformation and upgrading progressed orderly. In the coming period, the economy will have a good development trend with steady progress. 4

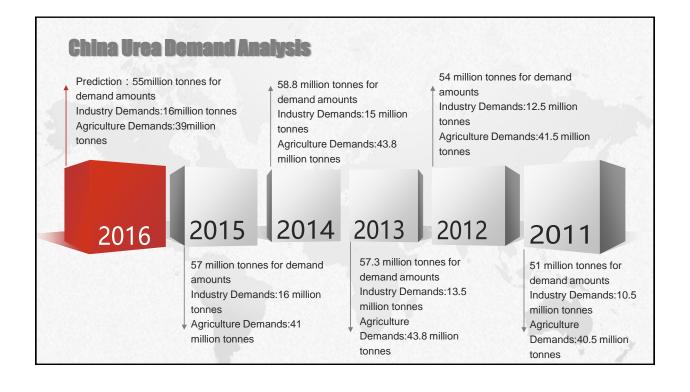


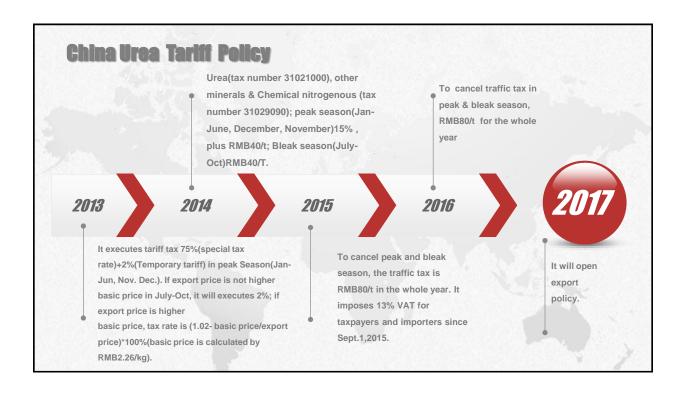


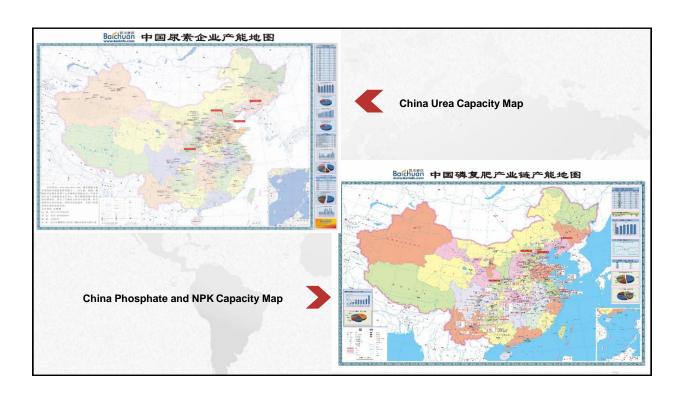


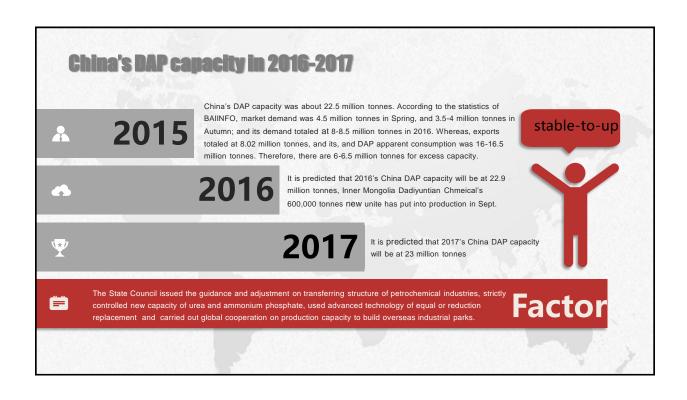
China Urea Capacity & Output Analysis in 2010-2017 Fast Growth of Capacity, oversupply for total amounts China Urea Production Condition in 2010-2017 Unit: 000'T 90,000 New capacity keep rising, while outdated 77,000 80,000 capacity was hard to left the market. So 65,000 70,000 capacity ran in oversupply. In the past ten 60,000 years, the average yearly growth rate of 50,000 40,000 urea reached 6.3%. During the 12th Five-30.000 Year Plan, the yearly growth rate was 5%. 20,000 The total new capacity reached 10,000 million tonnes, while outdated capacity 2010 2011 2012 2014 2015 2016 2017 2013 was lack of 13 million tonnes. Oversupply ■ Capacity ■ Output capacity get above 10 million tonnes.

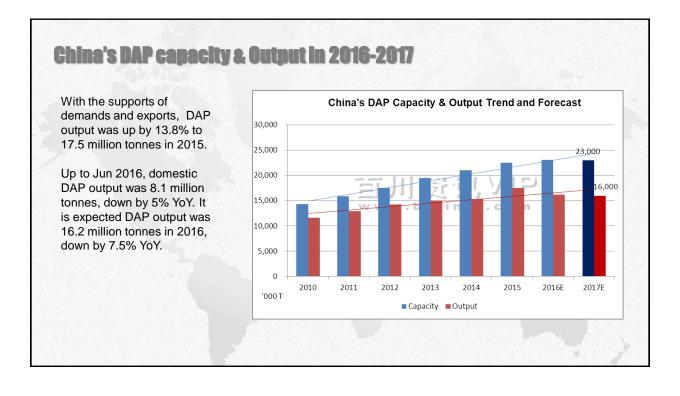
China Urea Operation Rate Analysis Operation Rate Ups & Downs China Urea Operation Rate in 2014-2016 73.00% Date 2014 2015 2016 71.00% Jan 66.27% 67.03% 67.90% 69.00% Feb 69.95% 68.22% 68.95% 67.00% 69.26% Mar 70.58% 65.18% 65 00% 2014 -2015 Apr 68.82% 66.93% 63.73% 63.00% 2016 61.00% 69.79% 70.28% 62.03% May 59.00% June 68.94% 68.83% 60.86% Jan Feb Mar Apr May June Jul Aug Sept Oct Nov Dec July 67.09% 68.79% China urea kept down in the first half of 2016. Operation 68.63% 69.45% Aug rate declined in 2013. China urea capacity added 66.35% 68.91% Sept continually, the demand of industry and agriculture was Oct 67.17% 70.34% limited. Exports were limited because of bleak Nov 66.52% 70.69% international market. Most of enterprises stopped or cut production after hit the cost line. Dec 65.74% 69.10%

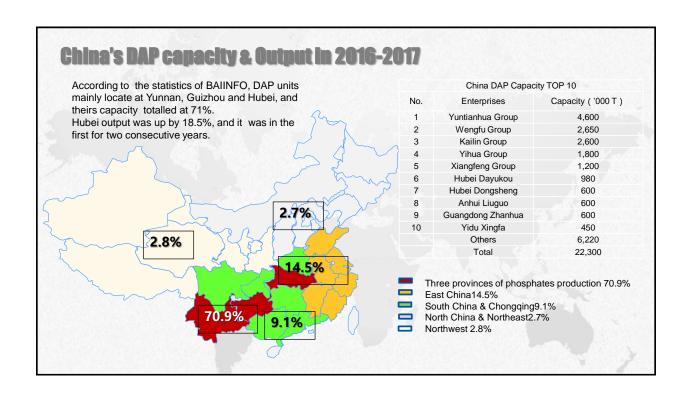












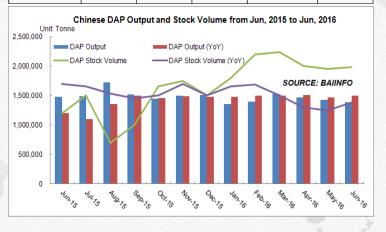
China DAP Output, Sales Volume and Stocks

The right-hand chart shows the data of the output, sales volume and stock of DAP in China, 2016. (Data source: China Phosphate Industry Association)

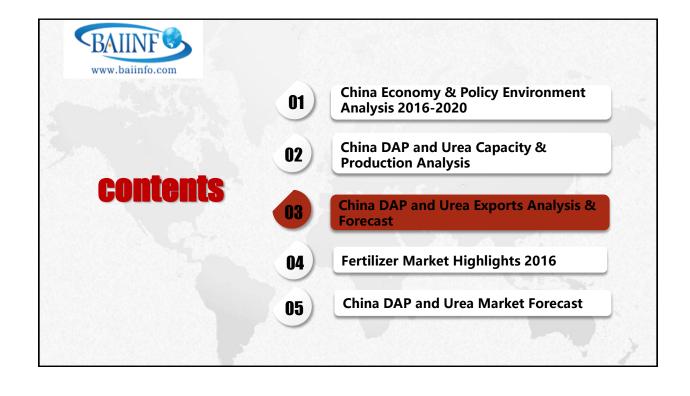
It is predicted that Chinese DAP output in 2016 will be 16.2 million tonnes and the sales volume will be 15 million tonnes. The ratio of production and marketing is about 94%. Supported by the encouragement policy of increasing efficiency by producing reduction or keeping output unchanged, the ratio of production and marketing in 2017 will be the same with that in 2016.

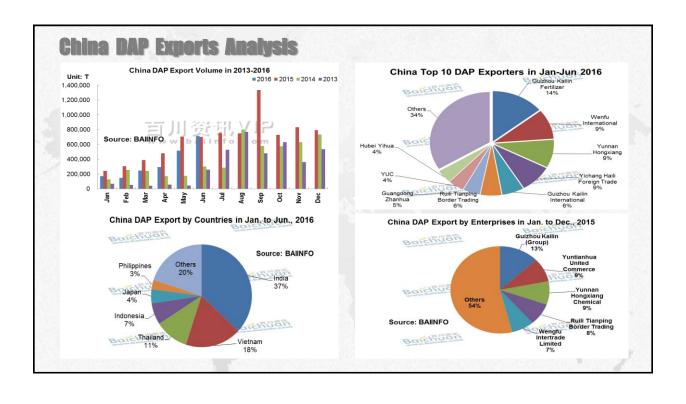
Domestic DAP manufactures got narrowed benefits in 2016, in line with declining outputs and increasing stockpiles. Some enterprises in Yunnan and Guizhou produced DAP goods according sales. Therefore, the whole producing rate in the regions decreased obviously. It is expected that the output, sales volume and stock of DAP in 2017 will be flat with that in 2016, and DAP enterprises with proper inventories will maintain the sales strategy of producing according to sales.

| | Jun(Tonne) | MoM(%) | YoY(%) | Jan-Jun(Tonne) | YoY(%) |
|--------------|------------|--------|--------|----------------|--------|
| Output | 1,260,000 | -5.7 | -12.6 | 8,108,000 | -5.2 |
| Sales Volume | 1,242,000 | -25.3 | -10.0 | 7,620,000 | -9.9 |
| Stock | 1,926,000 | 1.3 | 58.0 | | |



| Data of DAP Operating Rate in Fluctuation | | ctuation | Producing Rates of DAP Manufactures in China, 2014-2016 | | |
|---|--------|----------|---|--|--|
| Month | 2014 | 2015 | 2016 | 75% — 2014 — 2015 — 2016 | |
| Jan | 52.58% | 69.50% | 59.27% | 70% | |
| Feb | 57.31% | 70.16% | 58.00% | 65% | |
| Mar | 61.56% | 70.63% | 62.67% | | |
| Apr | 60.69% | 68.31% | 64.33% | 60% www.baiinfo.com | |
| Мау | 61.16% | 61.27% | 59.32% | 55% | |
| Jun | 61.42% | 64.89% | 59.00% | 50% | |
| Jul | 60.37% | 64.76% | 56.23% | SOURCE: BAIINFO | |
| Aug | 65.00% | 66.52% | | Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec | |
| Sep | 68.46% | 66.24% | | The whole operating rate of DAP in Chinese market was in a downward trend in the | |
| Oct | 66.76% | 64.00% | | first half of 2016. In Sep-Oct, as the peak season of the consumption of fertilizer | |
| Nov | 69.34% | 62.54% | | coming, the operating rate will go up to a certain extent. However, the who operating rate of 2017 will be in a stable trend mainly. | |
| Dec | 68.63% | 56.94% | | In 2015, DAP operating rate was at the hightest, being pulled by the export statuse | |
| Average | 62.77% | 65.48% | 59.83% | that year. In 2014, DAP enterprises hiked up operating rates because of obvious | |





Forecast of China's DAP Exports in 2017

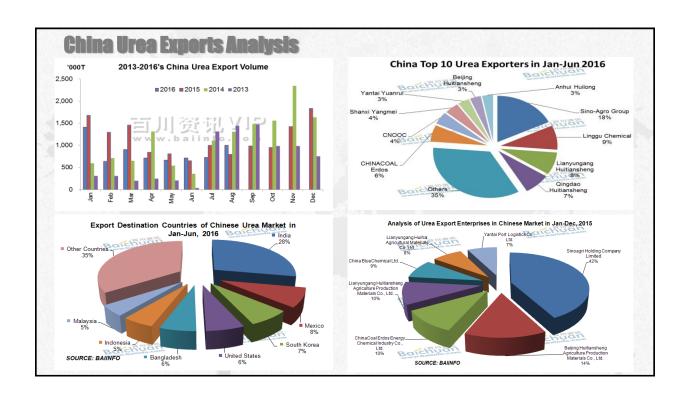
It is estimated that total DAP export volume of China may be about 6 million tonnes in 2017, on the assumption that Chinese fertilizer export tariffs would be canceled or relative policies could be loosened. Two main reasons are as follow:



Firstly, market demands all around the world remain huge. It was heard that India predicts to import 5.5-6 million tonnes in 2017. India, as the biggest export destination country, takes about 50% DAP export volume of China. Moreover, Mosaic Company, the biggest producer of phosphate fertilizer in the world, may be confronted with limited supply due to the issue of ardealite storage yard.

| Year DAP Export | | India | | Jan-Dec | |
|-----------------|--------|---------|-----------|---------|--|
| /'000T | Volume | Jan-Aug | (Jan-Aug) | (India) | |
| 2015 | 802 | 433 | 216 | 387 | |
| 2016E | 540 | 359 | 159 | 260 | |
| 2017E | 600 | - | - | 288 | |

Secondly, DAP capacity in China is excess. DAP export remains being the main development power of Chinese phosphate fertilizer industry. If the export tariff is canceled, the cost of DAP export will reduce; and then, the international competitiveness of Chinese phosphate fertilizer industry could be strengthened.



Forecast of China's Urea Exports in 2017

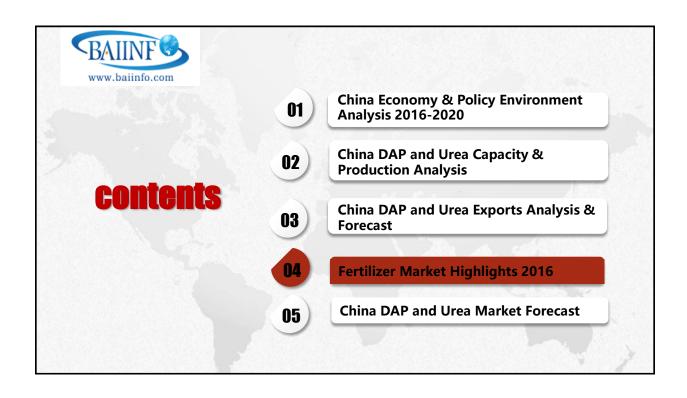
China urea export volume is estimated at around 10 million tonnes in 2016. Statistics showed that in Jan. to Aug., China urea export volume was at 6.78 million tonnes, including 1.76 million tonnes to India, which was 46% downward compared with figure of 3.25 million tonnes last year. Also, China's total export volume saw year-on-year decrease as well. It was mainly because that the popularized application of India's NCU urea negatively impacted the purchase for agricultural urea. Besides, the recovered export from Iran, the new capacity release in the Middle East and higher self-sufficiency ratio in USA were also at play.



| Year /'000T | Urea Export Volume | Jan-Aug | India (Jan-Aug) | Jan-Dec (India) |
|----------------|-----------------------|---------|--------------------|--------------------|
| 7/Jul/05 | 1,375 | 854 | 325 | 595 |
| 2016E | 1,000 | 678 | 176 | 250 |
| 2017E | 900 | - | - | - |

China's export volume of urea is estimated at 9 million tonnes around in 2017.

There are two reasons. Firstly, the cost of urea increases year-on-year. In the second half of 2016, the preferential electricity price policy for fertilizer enterprises was cancelled, then urea production cost increased. Besides, in the fourth quarter, natural gas price is expected to increase by 20%, and the preferential policy will be cancelled gradually. In general, urea production and circulation cost will rise along with the cancelled preferential policies of transportation, natural gas, electricity and tax, directly weakening China urea's competitiveness in international market. Secondly, international suppliers with urea at low price keep putting new capacity into operation, which squeezes China urea's market share, such as suppliers in Iran and Middle East.







China Urea Market Forecast

Lost of Export Advantage

Domestic Demand Structure Transformation

Excess Production Capacity

Climate Abnormality

Along with the stronger urea export from Iran and Middle East, China has to keep reducing price to win more orders due to lack of cost advantage. As can be seen from India's first two tenders in 2016, China has already lost bargaining power. In the second half of 2016, China fertilizer producers have to make concessions consecutively in urea export along with the weaker domestic demand.

Grain price slides down as a whole, which weakens farmers' enthusiasm for planting and changes plant structure and area. In previous years, downstream industrial products had good export performance, but export volumes of rubber plate, compound fertilizer and other downstream products of urea shrink greatly this year. Those affect domestic demand for urea.

Except that Sinopec took the initiative to halt its units of urea, other producers only halted or switched to other production after running at losses for consecutively several years. That exacerbated the overcapacity.

After May Day holiday, the low temperature affected the fertilizer usage in agriculture, thus there was no concentrated release of demand. In Jun., heavy rain, hail or even tornado came to most regions of China, then some farmlands were destroyed. Urea demand from farmers was seriously weakened as a result.







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Session Chair: Brent HEIMANN, Arab Potash Company, Jordan and Chairman of the IFA Technical & SHE Committee

- Kremena TENEV and Hayoung LEE
 IFC International Finance Corporation (World Bank Group), USA
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