

# Growth & Global Imbalances Chinese & European approaches Sharing experiences : Bluestar Silicone within Bluestar

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May 23, 2011



Six sectors :

Bluestar, as a subsidiary of China National Chemical Corporation

(ChemChina), is among the top 15 WW Specialty Chemicals companies.

- Oil processing & refinery
- Basic chemicals

Created in May 2004

Sales : 18 billions €

140,000 employees

President: Mr Ren Jianxin

New Chemical Materials and Specialties

China National Chemical Corporation :

- Agrochemicals
- Rubber products
- Equipments

China National Bluestar in brief:

- Created in 1984 by Mr Ren (80% ChemChina - 20% Blackstone)
- President : Mr Lu Xiaobao
- Sales : 6 billions € (60% outside China)
- 4 major international subsidiaries :
  - Adisseo (France) Animal nutriction
  - Bluestar Silicones International (France)
  - Qenos (Australia) Polyethylene
  - Elkem (Norway) Silicon metal & Foundry products

Contribute to improving quality of life through its innovative solutions and pro-active commitment to Sustainable Development.



# **Chemical Industry : transforming materials for a better life**

- Life Science : pharmaceuticals, food industry, agro-chemicals
- Transport : aerospace, automotive
- Telecommunication : electronics
- Construction : new materials, paints & coatings
- Energy : solar, batteries, etc ....

### Western World Perception

- Mature industry, cyclical,
- Health Safety Environment risks
- Energy consumption
- Using non renewable resources (oil, gas and coal as major raw materials)



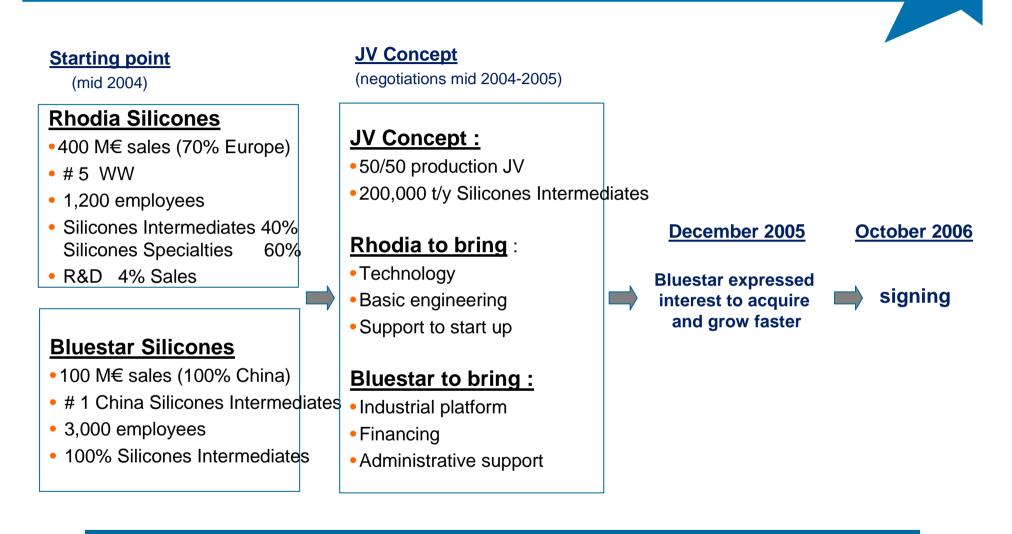
## **Chinese Perception**

- Booming industry, essential to support growth of major industrial sectors
- Essential for China to meet key challenges:
  - Growth energy consumption pollution
  - Health and food for 1.3 billion people
- Strategic industry getting into the future

Attracting the best students and engineers

France has still a #5 position W W but China already #2. It still represents, in France, 80 billion € sales and 13% of total exportation

# Our experience joining a Chinese State owned Company started in 2004, negotiating a production JV between Rhodia and Bluestar



### Since February 2007, we are part of Bluestar, a Chinese State owned Company.



Bluestar will :

- Just be interested to take advantage of our technology,
- Seek return on their investment by loading the business acquired with debts and asking for ST results
- Only support major investments in China to follow the growth
- Impose Chinese management at key executive positions
- Try to manage employees the way they do in China
- Benchmark our production costs in France versus Chinese production costs and shut down our Silicones Core Intermediates plant,
- Etc ... etc





# In reality, we joined a very pragmatic Group with long term strategic view

# Rhodia :

- In deep financial crisis (2003-2004)
- Shareholders requiring repositioning:
  - Keep businesses in # 1 or 2 WW positions
  - Get out of other businesses
  - Invest outside Western countries
  - Restructure : cutting on all costs, including R&D

#### Bluestar :

- Technology is definitively the driving force for such an acquisition and has to be transferred in a professional way:
  - Core Intermediates : Chinese to take the lead (size growth)
  - Specialties : International teams to take the lead (experience – complexity)

➢ R&D to stay in Europe for efficiency + IP protection

- International teams are best to manage outside China :
  - We keep the current management and empower them
  - We fully support investing in R&D and people even during the crisis
- European business can't be profitable unless we invest in it :
  - Additional maintenance investment (2 x more)
  - Growth projects in Specialties
  - > 5 years to reposition the business
- Strategic acquisition of Elkem (Norway) in order to :
  - Improve our cost position in Europe (back integration)
  - Grow in Silicones Specialties (solar application, etc...)

Bluestar has a strong corporate culture encouraging entrepreneurship, team work and taking advantage of cultural differences. When operating abroad like in France we have to act as the "best citizen" in all our responsibilities.

## How did we benefit in return from our technology transfers in China

- In chemical processes, you don't make progress unless you :
  - support continuous R&D efforts
  - you invest regularly in a new plant or equipments
  - > at stake : yields, energy consumption, effluents, etc...
- Joining Bluestar has created the following levers :
  - Critical mass in Silicones Intermediates to increase overall R&D,
  - Process engineers + engineering company cooperating to define and build new plant,
  - Major equipments have been redesigned to take advantage of process improvement, know how and new technology,
  - New designed reactors have been invested in the Chinese plant, supporting modifications in the European plant,
  - European team + Chinese team both working on pilot scale equipment for continuous progress
  - Back integration into our major raw material (silicon metal with the Elkem acquisition) is opening new opportunities for process optimization.

Principle : " no internal competition" : Chinese plant to supply Chinese and Asian market, European plant to supply Europe and Africa, North America and South America to be supplied by the most competitive plant preferably.



# Challenge to the world : "China # 2 world largest economy is also one of the world poorest"

USA

300

~ 47.000

#1

. Population (million)
. GDP / capita (USD/capita)

_		
	<u># 2 China</u>	<u>multiple</u>
	1,300	x 4
	~ 4,300	x 1/11

#### **Challenge for Western Economies**

- Growth employment local competitiveness versus imports
- Aging population immigration education
- Standard of leaving versus "States Deficits"
- Fight against destructive "speculation"
- Management of scarce resources
- Fair competition :
  - Free access to "booming economies"
  - Fair currency appraisal
  - Innovation, technology, brand protection
  - Fair share of world issues : climate, terrorism, human rights, etc...

#### **Challenge for Chinese Economy**

- Maintain growth above 8% on a continuous basis
- Improve standard of leaving (consumption, health care, ...)
- Manage scarce resources : energy, food, water, air, technology ... educated trained experience people
- Balanced development :
  - Country side / cities
  - Coast / inner regions
- Inflation + real estate bubble
- From the world's factory floor to a technological power
- Low quality products to more added value safer products
- Dependence on export and dollar (trade surplus)

#### Chinese economy and Western economies are totally interdependent but also competing to control their future.



# From fear to mutual benefits and demands : progress measured with facts and not intentions (Bluestar Silicones experience within Bluestar)

# From fear to (most recent press quotes)

- "China is becoming very arrogant"
- "China will be the technological leader in 2050"
- "Chinese enterprises are buying all Europe"
- "China is stealing our technologies and killing our jobs"
- "China is taking control of world strategic scarce resources"
- "China is manipulating its currency"
- "China needs to act as a responsible # 2 WW economy"
- "China is dominating ... is # 1... is # 2, etc..."

#### .... Mutual benefits

- Million of people getting out of poverty
- Huge attractive market
- Successful partnerships (automotive, energy, etc)
- Successful acquisitions (Western in China and Chinese in Western)
- Contribution to key innovations
- Scarce resources management (climate, renewable energies, etc...)

#### .... Mutual demands (both sides)

- Continuous progress in terms of fair open economy and intellectual property rights
- Commitment to a more balanced sharing of wealth
- Contribution to peace, human rights, world challenges

BLUESTAR

 Reduction of deficits and fight against destructive speculation and corruption

Moving from fear and anxiety to confidence and respect requires to spend time knowing each other : "s'apprivoiser" comme le Petit Prince et le Renard de St Exupéry and to keep being demanding on both sides to meet respective obligations