### **Carbone Lorraine**

Interim Results

September 14, 2005

## CARBONE LORRAINE

Dedicated Innovation, Dedicated Partner





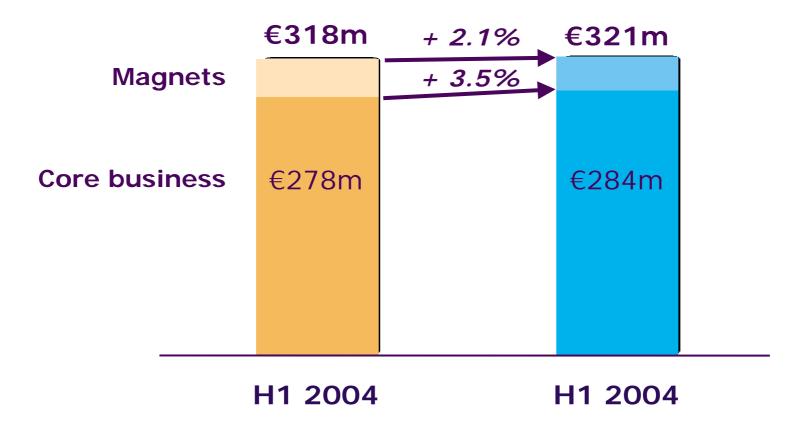


# Strong earnings growth

romising growth prospects



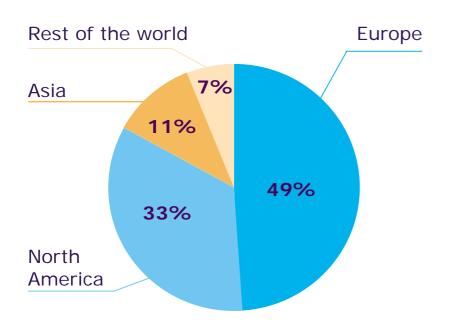
## Strong growth





## Growth across all the Group's regions

## Sales breakdown by region excl. Magnets



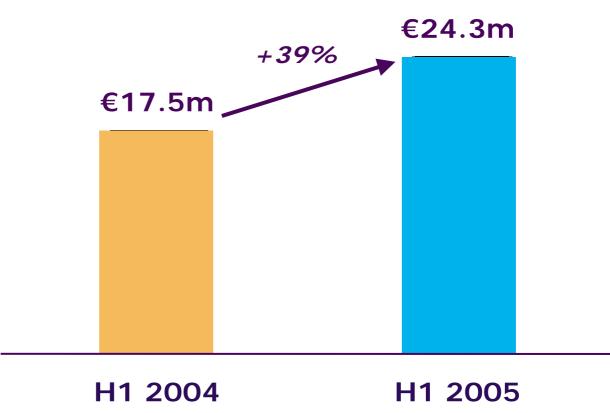
#### Sales\* growth excl. Magnets H1 2004 vs H1 2005

Europe	+3%
North America	+1%
Asia	+6%
Rest of the world	+19%
Group total	+3.5%



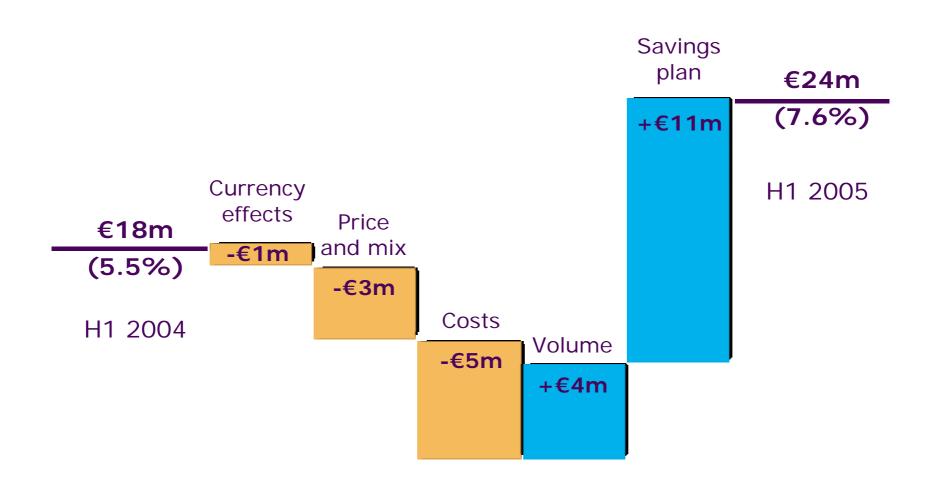
## Operating income: +39%





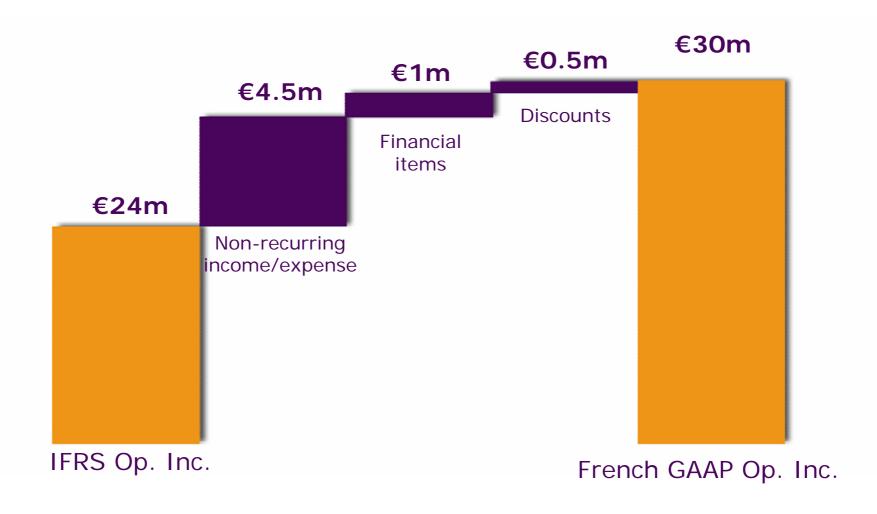


### Operating Income: +39%





## Restatement of Operating Income

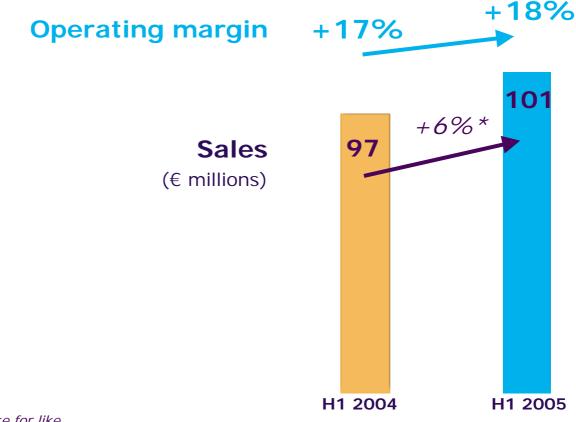




### **Advanced Materials and Technologies**

#### **Key strengths**

- World leader
- Technical expertise
- High profitability



\*Like for like

#### **Highlights**

- Sales and earnings growth
- Launch Chongqing plant construction

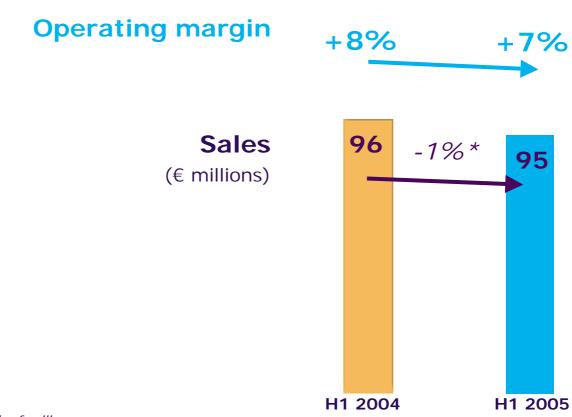


## **Electrical Components**

#### **Key strengths**

- World leader
- Customer service
- Diversity of industrial outlets

#### **Electrical Applications (brushes)**



\*Like for like

### **Highlights**

- Lower production in the US automobile industry
- Higher raw material prices

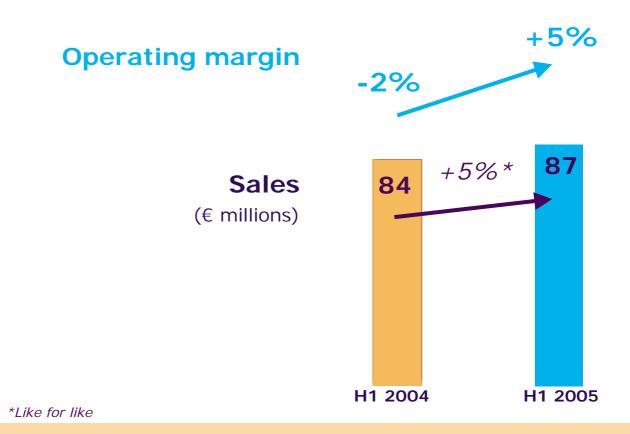


## **Electrical Components**

### **Key strengths**

- N°2 worldwide
- Comprehensive product range
- Technical leader

#### **Electrical Protection (fuses)**



#### **Highlights**

- Restructuring in Europe completed
- Strong demand in the US and Asia



### Magnets

#### **Key strengths**

- N°3 worldwide
- Restructuring completed successfully



\*Like for like

#### **Highlights**

Evreux plant closure under way



## **Net income, Group share + 40%**

(€m)	H1 2005	H1 2004
Sales	320.6	317.7
Operating income	24.3	17.5
<ul><li>Finance costs, net</li><li>Current and deferred income tax</li><li>Minority interest</li></ul>	(3.4) (8.1) (0.3)	(3.9) (4.5) (0.2)
Net income attributable to Carbone Lorraine's shareholders	12.5	8.9



#### Cash flow statement

#### **Operating activities**

(€m) H1 2005 H1 2004

- Cash flow
- Change in the WCR
- Tax

Net cash flow

- 35.8 (30.3) (3.0) **2.5**

#### **Investing activities**

- Increase in property, plant and equipment
- Increase in financial assets
- Disposals

**Cash flow** 

- (9.1) (24.0) 1.2 (31.9)
- (10.5) (10.6) 7.0 (14.1)

Total cash flow

(19.5)

(11.6)

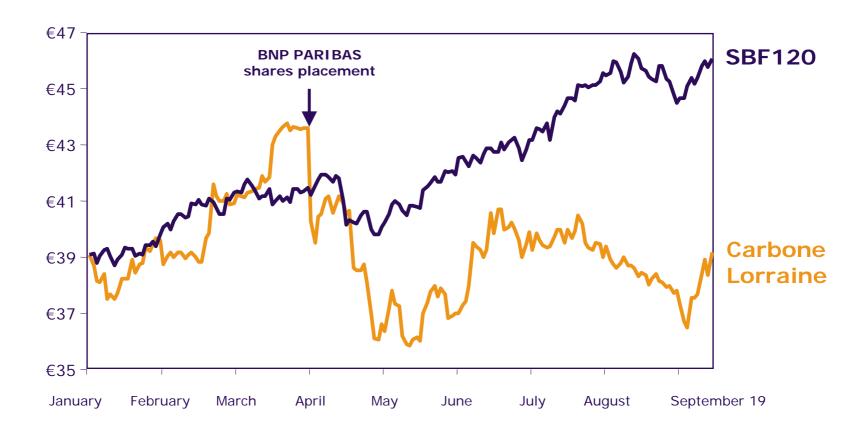


## Simplified balance sheet

	(€m)	June 30, 2005	Dec. 31, 2004
Non-current assets		372	332
Working capital requirement		161	136
Deferred tax		18	22
Total assets		551	490
Equity		278	255
Provisions		56	60
Employee benefits		53	50
Net debt		164	125
Total equity and liabilities		551	490
Net debt/equity		0.59	0.49



## Carbone Lorraine's 2005 share price





### Second-half trends

- Promising outlook in Advanced Materials and Technologies
- Savings plan implemented successfully
- No upswing in the North American automobile industry
- Gloomy economic conditions in Europe

Strong growth of 2005 Operating Income

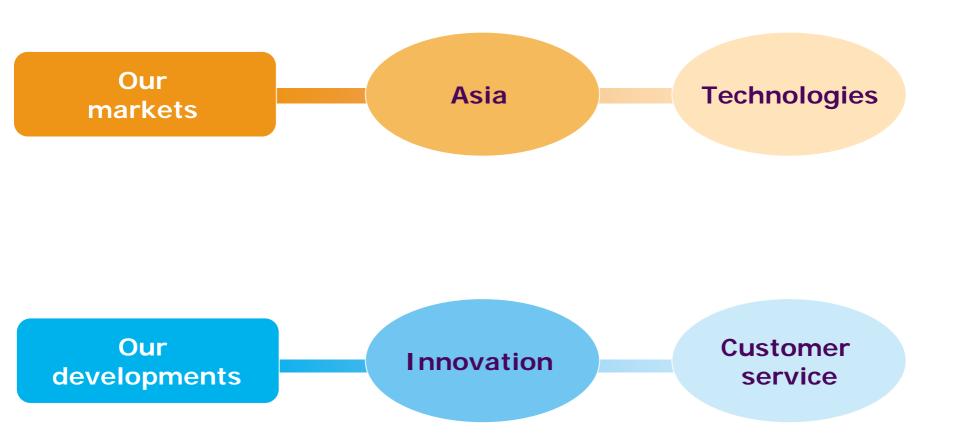


Strong earnings growth

romising growth prospects



## Four organic growth drivers





## Four organic growth drivers

Our markets

**Asia** 





(Virtual picture)



## Electrical Components in China and in India



- General-purpose fuse line now in service
- Launch of a fuse line for semiconductors
- Manufacture of power-isolating switches

## **Chennai Electrical Applications**

- Transfer of production lines to an advanced technology unit
- First-class quality and high profitability



- Development of fuses for semiconductors
- Launch of a line of general-purpose fuses



#### **AMT in Asia China**

## Kunshan High temp\_applications

- Commissioned in April 2005
- Major order book for 2006.

## Chongqing High temp. applications

- Equipment order placed
- First sales in 2006
- Fully operational early 2007

### Shanghai Anti-corrosion equipment

- Noble metals workshop commissioned in Sept. 2005
- Rapid start-up



### AMT in Asia: India & Japan

## Bangalore High temp. applications

- Inauguration of the workshop in March 2005
- Initial deliveries in September 2005

## **Tokyo**Anti-corrosion equipment

- Nippon CL joint venture agreement signed in July 2005
- In operation since September

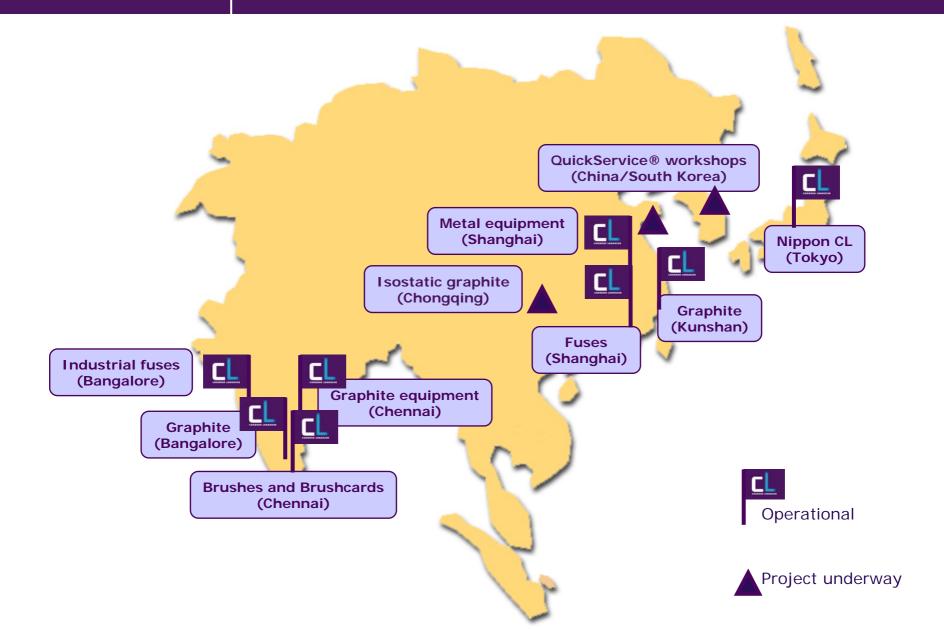
### Chennai

Anti-corrosion equipment

- Inaugurated in February 2005
- Major order for 2006



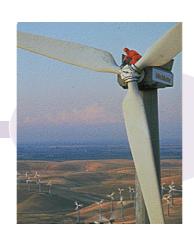
## Asia is our priority





## Four organic growth drivers

Our markets



**Technologies** 





## **Expand in fast-growing technological markets**



Renewable energies

Windmills

+ 10%

Slip-ring assemblies and brushes

Fuses

Braking

Solar power

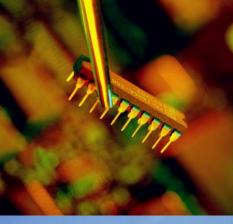
Purified graphite

Fuses

+ 30%



## **Expand in fast-growing technological markets**



**Electronic components** 

**Silicon** 





**Diodes** 

Power electronics equipment suppliers

**Power semiconductors** 

Fuses

Cooling devices



## Four organic growth drivers



Our developments

**Innovation** 



#### **Innovation**



## Anti-corrosion equipment: CL Clad

- Project Brazing technology making it possible to clad steel with noble metals
  - Main applications in reactors for the chemicals and pharmaceuticals industries

### **Timetable**

Purchase of equipment **Completed** 

Construction of the kiln **H1 2006** 

Initial deliveries

H2 2006



#### Innovation



#### **Electrical Protection:**

## Fuses for railway lightning arrestors

Project Smart fuse technology helping to identify and signal defecting lightning arrestors in railway systems

#### **Timetable**

SNCF approval

Obtained

Initial sales (SNCF)
End of 2005

Other rail networks **2007** 



## Four organic growth drivers



Our developments

**Customer service** 



#### **Customer service**



## **Brand Labeling**

Project Outsourcing by customers of fuses and fuseholder manufacturing activities that were previously carried out in house

### **Status**

Equipment order Completed

Initial production Underway Fully automated production

End 2006

