### Energy efficiency: a growth driver

**Investor Day** 

Claude Imauven November 15, 2010

## SAINT-GOBAIN

**CONSTRUCTION PRODUCTS** 

**Energy efficiency: a growth driver** 

1. Context: the increased need for energy efficiency

2. Saint-Gobain's solutions for the Habitat of tomorrow

3. Group-wide initiatives to develop energy efficient solutions

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## **Current energy consumption trends are not sustainable**



## Buildings account for 40% of energy consumed and around 30% of CO<sub>2</sub> emissions



### **Thermal efficiency: tightening regulations**



Source: EURIMA, ECOFIS-study "Mitigation of CO<sub>2</sub> Emissions from the European Building Stock"

# New-build: tightening of regulations across Europe...

- Energy Performance of Buildings Directive (introduced in 2010): "Nearly zero energy buildings" by 2020
- Some countries have already anticipated the new regulations: France (*BBC*\* 2012, *BEPOS*\*\* 2020), UK (Zero Carbon 2016)

**Energy consumption** 



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### ...and across the globe

#### United States

- Lagging behind Europe
- 11 States have adopted the 2009 International Energy Conservation Codes, which on average are only half as demanding as European regulations









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### **Growth of the renovation market**

### European Union:

- Large market: 210 million buildings
  - 50% built before the 1st oil crisis in 1973
  - Inadequate renovation
- European action plan: 20% improvement in energy efficiency by 2020
- E.g. France: thermal renovation market grew +9% each year between 2006 and 2008
- Developing countries, e.g. Eastern Europe and Russia:
  - Urgent need for renovation (insulation, windows)
  - New requirements in terms of comfort







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# 2. Saint-Gobain's solutions for the Habitat of tomorrow

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## Saint-Gobain's solutions the Habitat of tomorrow

**A.** Saint-Gobain's development model

**B.** Energy efficiency and environmental solutions

**C.** High added-value solutions for Habitat

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## Significantly oriented towards residential and renovation markets



# A global presence to meet energy efficiency needs in local markets



## Energy efficiency solutions for each stage of the economic development cycle



## Significant growth potential in mature countries

Energy efficiency markets growing in line with national wealth



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## Our solutions for meeting stricter thermal performance standards

#### **New regulations require:**

- Greater thickness in application
- Increasingly efficient solutions (reduce λ\*)

### Consequently:

- Mix evolves towards higher added-value products
- Isover sales growth in France (2009-2010):
  - 2% in m<sup>2</sup>
  - 8% in tons





\*The coefficient of thermal conductivity ( $\lambda$ ) is expressed in W / (mK) and represents the amount of energy through a wall for a sq meter of material. The lower the  $\lambda$ , the higher the insulating effect of the material.



## The race towards low lambda solutions is accelerating



\*The coefficient of thermal conductivity ( $\lambda$ ) is expressed in W / (mK) and represents the amount of energy through a wall for a sq meter of material. The lower the  $\lambda$ , the higher the insulating effect of the material.

### The increasing performance of insulating glass

- Solar gains exist even for north-facing buildings
- Triple-glazing with a high solar factor is more energy-efficient than a wall, regardless of the direction it faces
- Glazing should be expanded to improve the overall energy performance of buildings



SAINT-GOBAIN GLASS's triple glazing solutions in Salzburg

With solar gains, triple glazing is becoming more energy efficient than walls!

15.0 m

# Saint-Gobain's comprehensive, integrated solutions

#### Individual and collective housing: examples of interior and exterior solutions



### A portfolio rich in high performance solutions...



### ...for strong, profitable growth

- Planitherm for reinforced thermal insulation glazing A position of market leadership
  - Price per m<sup>2</sup> 3 times higher than for single glazing

### **ETICS**

 Annual sales growth of at least 10% over 2010-2015

### E-Glas

 Annual sales growth of +33% through to 2015

#### *ETICS* (External Thermal Insulation Composite Systems)



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Infrared image before and after installation of Weber insulating mortars, in Poland

For all these products, margins are significantly above those of basic products

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# High added-value solutions to save manpower...

#### Installation phase

- Industrial Mortars: Flooring
- Gypsum: plasters
- Pipe: Blutop
- Prefab market
- Development of mechanization

#### Flooring example:

Productivity of three men, according to the application method used

#### Maintenance phase

• Flat Glass: Bioclean self-cleaning glass

Surface covered (m<sup>2</sup>/hour)















# ... and improve our product mix and profitability

### Flooring

- Expected growth of nearly 10% per annum through to 2015
  - Sharp margin growth

#### Gyproc plasters

- Growth through:
  - Product development
  - Mechanization
  - Penetration vs. cement

#### Bioclean

- 20% growth per annum through to 2015
- Margins well above those for basic products





## High added-value solutions for increased comfort

- Growing demand for technical performance
  - Soundproofing
  - Moisture-resistance
  - Fire-resistance
  - Health
    - ► Air quality
    - Mould-resistance
  - Aesthetics













# Industry-leading solutions with high added-value

- Activ'Air, launched in 2010
  - Sales very quick to take off
- Placophonique (and other soundproofing solutions)
  - 100% premium on prices per m<sup>2</sup> compared to basic products

#### Privalite

• 27% growth per annum through to 2015

For all these products, margins are significantly above those of basic products









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#### The complementary nature of the Group's three Business Sectors drives delivery of energy efficient solutions



# **R&D for developing increasingly innovative solutions**

- Leadership achieved through the creation of cutting-edge technologies for energy efficiency markets (TEL process, thin pipes)
- Common approach between R&D and Marketing departments
  - Shared view of the market
  - Combined effort on the innovation portfolio
  - Reinforced customer orientation to realize the Habitat solutions of tomorrow







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### Habitat marketing initiatives to boost growth

- Cross-business marketing approaches: Habitat committees already in place in 26 countries
- Action plans based on 6 common themes:
  - Strategic market intelligence
  - Specification and projects
  - Combined solutions and innovation
  - Customer training
  - Targeted cross-business offers
  - Communication and promotion





### **Examples of Habitat committee initiatives**



US: publication of a brochure to raise awareness of energy efficiency issues in the Habitat market among business referral agents



South Africa: successful training courses run by the Saint-Gobain Academy, with a 100% hiring rate on graduation and the creation of extremely loyal future customers



France: dedicated comprehensive range of products for healthy buildings bringing together 12 banners





UK: management of key accounts for 2012 Olympic Games

### Training: a unique asset offered by Saint-Gobain

#### Significant skills and training needs

- New businesses in the value chain
- New training needs regarding materials and solutions, regulations and financial aid
- Different points of contact between industrial businesses and Building Distribution



### **Conclusion - Energy efficiency**

#### Fundamental growth markets

- High added-value solutions for energy efficiency in Habitat markets
- A solid organization to capture growth
  - Three complementary Sectors to develop, produce and commercialize sustainable Habitat solutions
  - Innovation
  - Marketing Habitat
  - Training







# **Conclusion - Energy efficiency: a growth driver**

- Factors unique to Saint-Gobain...
  - Strong focus on EEE\*
  - Broad portfolio of high added-value solutions in Habitat markets

### …to deliver growth…

 Superior to the growth of the underlying markets

### ...and profitability

- Exceeding current profitability
- Exceeding profitability of basic products





EEE\* solutions as % of Sales\*\*

High added-value Habitat solutions as % of Sales\*\*



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