NVESTORDAYS

A successful transformation

Fluorochemicals

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Fluorochemical chain





Arkema's products

New products for a changing environment in emissive applications



Major impact from environmental regulations leading to new generations of products

- Montreal Protocol (Ozone Depletion Substances)
- Kyoto Protocol (Global Warming Potential)
- Substantial R&D commitment required
- Intellectual property and patents as key success factors
- Provide environmentally friendly solutions

Regional trends

Europe

- Limited market size and growth potential
- Transition to blends already achieved
- Rapid implementation of environmental regulations

Business unit overview

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Building a major competitive long term player

2004-2010

2004: a business to be reshaped

A new management team convinced of the business potential

A regional approach to a global strategy

- Restore competitiveness of European assets
- Participate in the transition towards blends in North America
- Become a major competitive player in Asia

Turn Pierre-Bénite into a competitive European site

Shutdown of 5 production units including HF

- Headcount reduction: 196 positions
- Closure of production units effective in 4Q'07
- Streamlining of site organization
- Divestiture of 2 non-core business plants (water treatment)

ARKEMA

New HFC plant in Calvert-City

Retrofit of an HCFC plant into HFC 32 component for new HFC blends

- HCFC 22 progressively replaced by HFC blends
- HFC32 is a component to manufacture HFC blends
- Supply HFC32 needs in North America
- Capex: around US\$45 million
- Largest plant in the world Capacity: 25,000 tonnes/year
- Start-up in July 2007
- Reinforce Calvert-City as an integrated fluorochemicals site

- Viewed as a commitment to remain long term in Fluorochemicals
- **Competitive supply to large A/C OEMs especially in North America**

Position Arkema among the world leaders in next-generation refrigerant fluids

Accelerate growth in Asia

Increase production capacity of HCFC 22 in Changshu (China)

- + 50% in 2006
- Supply of Asian markets and PTFE requirements

Regional alliance with Daikin, a leading global air conditioning manufacturer

- Arkema to bring proprietary technology and the Changshu industrial platform
- Daikin to bring 125 requirements for A/C integration
- Creation of a 60/40 manufacturing JV Arkema/Daikin to produce and market 125*
- Creation of a 40/60 JV Arkema/Daikin for the marketing of HFC blends
- Start-up early 2010

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Become a leading competitive player in Asia

Changshu development

ARKEMA

Adapt R&D programs to changing environmental regulations

Development of 125 proprietary technology

- From lab-bench to pilot plant in less than 2 years
- Proprietary technology contributed to the JV with Daikin

Improvement of HFC32 production process

- Capitalize on Zaramillo (Spain) experience
- Develop a world-scale plant in Calvert-City (US)

Low Global Warming Potential

 Identify the next generation low GWP solutions for car industry

Allocate significant R&D resources to build the future

2010: a profitable and growing business

A competitive and integrated asset base in each region

- Restored profitability in Pierre-Bénite
- Development of Calvert-City
- New partnership in Asia with Daikin

Next-generation products to meet new regulations and prepare the future

A successful transformation to efficiently adapt to new challenges of changing environmental regulations

