Energy Efficiency in Buildings

Routes into the Future

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SusChem Objectives

- Strengthen competitiveness of chemical industry in Europe based on technology leadership
- Focus on societal needs, contribute to sustainable development
- Boost sustainable chemistry research in Europe
- Add business through innovation
- Improve EU economic and regulatory conditions to inspire chemical/biotech innovation
- Engage the best researchers
- Participation from almost all European Member States
- SusChem Board includes academics and industrialists plus positions for consumer organisation and financial community
- Participants in technology groups include various SMEs and downstream users (e.g. automotive and electronics industry)
- Horizontal group participants include NGOs, consultants, etc. and many more …
SusChem: Strong interest and overlap with energy and construction topics.
SusChem - Clear Focus on Step/Wave 2 & 3 of EeB Roadmap

Integration of renewable & cleaner energy sources
Water and waste management
Next - generation lighting
Passive heating and cooling
Management of Distributed Energy Resources
Innovative construction & retrofitting materials
Innovative building envelope
Advanced windows
Thermal insulation & management

Smart systems for energy management
Smart metering
Safety & security
Smart materials & surfaces
Advanced telecommunication
Self cleaning surfaces
Adaptability / accessibility
Sound insulation & active noise abatement
Remote diagnostics / monitoring
Indoor environmental quality systems

Energy	Smartness	Health & Comfort

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SusChem - Clear Focus on Step/Wave 2 & 3 of EeB Roadmap

Research for new materials / technologies for:

• Clinker reduction in concrete
• Self-healing features in concrete
• Smart coatings
  - electrochromic / photochromic
  - self-cleaning, anti-scratch, anti-skid
• High performance insulation
SusChem - Vision for Materials

• Europe: world's leading supplier of advanced materials
• Innovation in materials technology driven by societal needs and contributing to improved quality of life
• Identification of opportunities, in close co-operation with the value chain, leading to materials with new and improved properties
• Rational design of materials with tailored macroscopic properties based on their molecular structure
• Products made available by improving and combining the benefits of traditional materials and nanomaterials
• Convergence of market demand and technology development: opportunities for new enterprises in the materials sector