

The Special Relationship goes Green

Presented by Michael Norton



PRESENTATION OUTLINE

- WHO ARE CIBSE AND ASHRAE? WHY SHOULD THEY WORK TOGETHER?
- WHERE IS THE COLLABORATION?
- IS THERE A COMMON AGENDA?
- HAS SUSTAINABILITY BROUGHT A CLOSER TRANSATLANTIC RELATIONSHIP?
- WHAT NEXT?





A special relationship

- 400 YEARS OF TRANSATLANTIC RELATIONS
- HISTORY OF COLLABORATION
- **'WE SPEAK THE SAME LANGUAGE'**





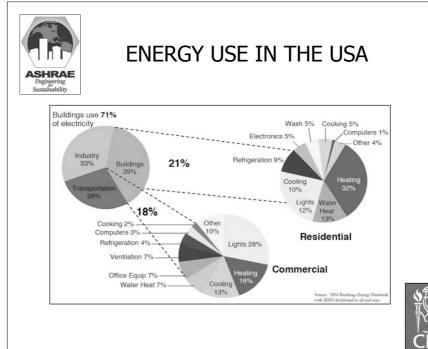


A BAD IMAGE!

- LOTS OF CARS
- TALL BUILDINGS
- WASTEFUL ENERGY USE
- LOTS OF ENERGY
- CHEAP ENERGY
- MASS CONSUMER SOCIETY



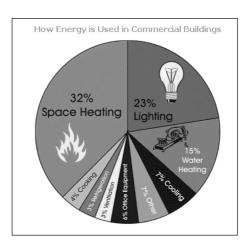








Potential FOR CHANGE





TERRY TOWNSEND 2007 ASHRAE PRESIDENT



"It is now our time to carry the fire of the ASHRAE Promise of a sustainable future"



'Working together'

- COMBINED EFFORT IN ENGINERING THE SOLUTIONS OF THE FUTURE
- CIBSE/ASHRAE GROUP & ASHRAE REGION AT LARGE
- CROSS COMMUNICATION ON IDEAS AND EXPERIENCES
- YOUNG ENGINEERS IN ASHRAE (YEA) & CIBSE YOUNG ENGINEERS' NETWORK (YEN)



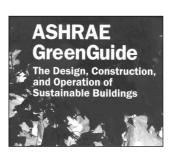
CIBSE Guide L: Sustainability meets





Similarities:

- Increase role of engineers
- Early involvement (load reduction etc.)
- Similar definition of sustainability
- Advocate / champion for sustainability
- Set targets at the start of the project





KEY ASHRAE DOCUMENTS

- ASHRAE Research Plan
- Sustainability Roadmap
- The Strategic Plan
- Energy Design Guide
- Advanced Energy Design Guide Series





ASHRAE RESEARCH PLAN

"Research and technology are the foundation of ASHRAE on which everything else is built"

- 1. Energy and Resources
 - 2. Indoor Environmental Quality
 - 3. Tools and Applications
 - 4. Equipment, Components and Materials
 - 5. Education and Outreach





KEY CIBSE DOCUMENTS

CIBSE Guide L: Sustainability forms part of a 'Sustainability Toolkit', which consists of three elements:

- 1. Guide L: Sustainability
- 2. The Introduction to Sustainability
- 3. Online Sustainability Engineering Tool





LEADING BY EXAMPLE

- ASHRAE HAVE PROMISED TO 'WALK THE TALK'
- CIBSE CARBON CLEAN UP





ASHRAE LEADING BY EXAMPLE

- ASHRAE propose to lead by example
- Redevelopment of ASHRAE headquarters
- The ASHRAE head quarters a living lab
- Compliance with ASHRAE standards





CIBSE SCHEMES

• CIBSE Low Carbon Consultants and Energy Assessors







Carbon 60 before 2020

The Government's timescale for reducing carbon emissions by 60% is 2050

CIBSE could be delivering the 60% reduction by 2020, or even earlier

Emphasis on 10 year payback







JOINT STATEMENT ISSUED IN JANUARY 2006 WITH JOINT MEASURES TO BE IMPLEMENTED

- Coordinated approach
- Low environmental impact designs
- Encourage energy efficiency
- Encourage renewable energy
- Educate building owners, users and engineers
- Provide information and advice





A VISION FOR CHANGE

- Utilise communication opportunities
- Embrace new technologies
- Collaboration between construction industry disciplines
- Total building solution





OUR RESPONSIBILITY

- Revolution in thinking
- Encourage use of renewable energy
- Promote low or zero carbon buildings
- Work with HVAC&R industry
- Social awareness improving our profile





YOUNG ENGINEERS

- CIBSE Young Engineers' Network
- Support and education for young engineers
- Knowledge exchange regarding new technologies
- Guiding the next generation towards awareness
- G4C Umbrella group young professionals
- ASHRAE Young Engineers (YEA)





WHAT NEXT?

- CONTINUED KNOWLEGE EXCHANGE
- YOUNG ENGINEERS TO CARRY THE COLLABORATION INTO THE NEXT GENERATION
- JOINT EVENTS AND LEARNING PROGRAMMES





CIBSE/ASHRAE Conference Sustainability - Niche to Norm 29-30 April 2008, Newcastle, UK

- MAKING SUSTAINABILTY THE NORM
- GUIDANCE ON SUSTAINABILITY AND LEGISLATION
- NEWCASTLE UPON TYNE IS A PRIME EXAMPLE OF SUSTAINABLE REGENERATION





SUMMARY

- THE US IS SERIOUS ABOUT ENERGY BUT FOR DIFFERENT REASONS WITH SECURITY OF ENERGY A PRIORITY
- ASHRAE HAS BEEN TALKING ABOUT ENERGY FOR OVER 30 YEARS BUT NOW IS PLAYING CATCH UP
- THE US CLIMATE CHANGE TECHNOLOGY PROGRAM SHOWS A COMMITMENT AT FEDERAL LEVEL





SUMMARY

- ASHRAE AND CIBSE HAVE MADE A JOINT COMMITMENT TO DESIGNING A SUSTAINABLE FUTURE
- BOTH ASHRAE AND CIBSE BELIEVE IN LEADING BY EXAMPLE AND MAKING PROACTIVE MOVES IN CHANGING THE WAY WE AS AN INDUSTRY OPORATE
- YOUNG ENGINEERS IN BOTH ORGANISATIONS ARE SEEN AS THE FUTURE AND ARE BEING ENCOUAGED TO WORK IN COLLABORATION AS THE NEXT GENERATION TO TAKE UP THE CHALLENGES
- THE JOINT CONFERENCE IN NEWCASTLE HIGHLIGHTS THE DESIRE TO WORK CLOSELY AND IN PARTNERSHIP FOR THE FUTURE





CONCLUSION

WHO ARE CIBSE AND ASHRAE? WHY SHOULD THEY WORK TOGETHER?

- LEADING PROFESSIONAL INSTITUTIONS IN THE DESIGN OF SERVICES FOR BUILDINGS
- A COMMON RESPONSIBILITY AND SIMILAR DIRECTION





CONCLUSION

WHERE IS THE COLLABORATION?

- WORKING TOGETHER TO PROVIDE DESIGN GUIDANCE
- GOOD COMMUNICATION WITH LESSONS AND IDEAS EXCHANGED
- JOINT STATEMENTS OF INTENT
- JOINT CONFERENCE





CONCLUSION

IS THERE A COMMON AGENDA?

- BOTH RECOGNISE THE PROBLEMS
- SIMILAR GOALS FOR CHANGE AND IMPROVEMENT
- DIFFERENCES IN APPROACH AND APPLICATION





CONCLUSION

HAS SUSTAINABILITY BROUGHT A CLOSER TRANSATLANTIC RELATIONSHIP?

- BOTH ON THE SAME SIDE
- ASHRAE LOOK TO US FOR A LEAD
- GLOBAL ISSUE NEEDING A GLOBAL RESPONSE





CONCLUSION

WHAT NEXT?

- CONTINUED COLLABORATION AND COMMUNICATION
- YOUNG ENGINEERS HAVING A GREATER ROLE
- MORE EMPHASIS ON A JOINT APPROACH WITH SIMILAR GUIDANCE FOR DESIGNERS





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QUESTIONS?