The Bartlett School for Environment, Energy & Resources

Director Tadj Oreszczyn **School Manager** Simon Buller

UCL

Energy Institute

Director Bob Lowe UCL

Institute

for

Environmental

Design &

Engineering

Director Mike Davies UCL

Institute for Sustainable

Director May Cassar UCL

Institute for Sustainable Resources

Director Paul Ekins



UCL Institute for Sustainable Resources

Vision: a world of globally sustainable resource use.

Mission: generate knowledge in the globally sustainable use of natural resources and train the future leaders in the field when faced with a growing global population and increased demand and competition for natural resources

UCLInstitute for Sustainable Heritage

At our communityfocussed Institute, our vision is a world that engages with heritage, appreciates its value and participates fully in its protection. The communities we wish to impact through our research and teaching are heritage groups, companies and decision-makers

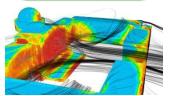






Heritage





Environment

UCL Energy Institute

Mission: Faced with the challenge of energy equity, security and climate change, the UCL Energy Institute aims to accelerate the transition to a globally sustainable energy system through world-class energy research, education and policy support.

UCLInstitute for Environmental Design and Engineering

Vision: a world in which development is sustainable, affording social, economic, technological, cultural and aesthetic innovation, and enhancing diverse ecologies, cultures and heritage.





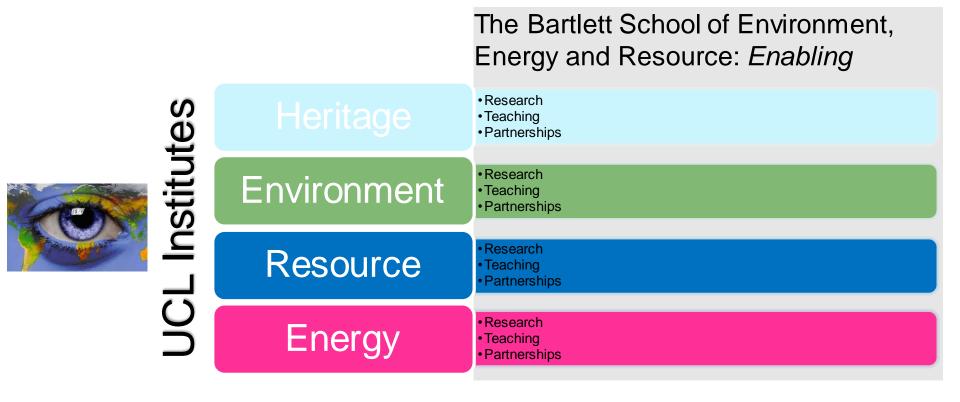
BSEER: A School to enable 4 world leading UCL Institutes in sustainability

What <u>unifies</u> the Institutes and makes the School different from other Schools within the Faculty?

- 1. Sustainability
- 2. Making a difference real world problem focus
- 3. Multi-disciplinarity cross faculty
- Research focus e.g. centers for doctoral training. Funded research powerhouse of the faculty.
- Rapid evolution
- Not just built environment













The Bartlett School of Environment, Energy and Resource: Enabling

Environment Resource

Research

Teaching

Partnerships

Budgets

Staff

Students

Energy



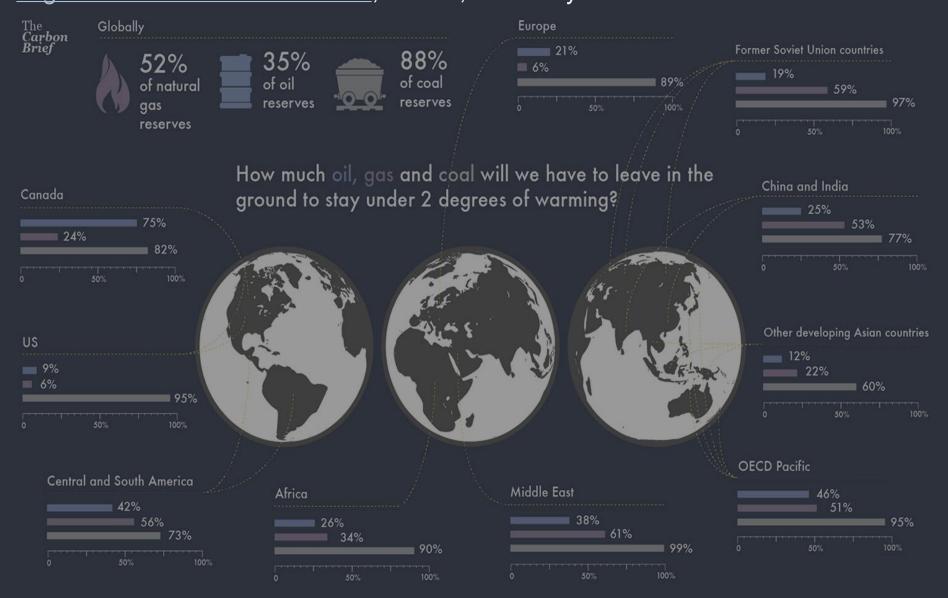


Average BSEER Academic does the following each year:

- Manages a £1M project
- Supervises 1.1 RA's
- Teaches 8 students
- Raises a £1/3 of a million funding per annum
- Writes 8 outputs (4 journal)
- Submits 3 research proposals and 1 consultancy
- Impact, 1.5 events, media, meetings with govt and stakeholders etc



"The geographical distribution of fossil fuels unused when limiting global warming to two degrees" C McGlade and P Ekins, Nature, 8 January 2015.



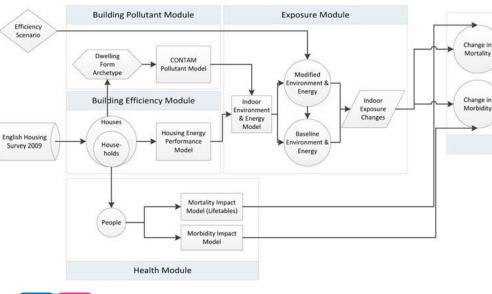
Top climate paper in 2015 for news and social media



Energy Demand and Health

Can the health benefits of energy efficiency be greater than the energy cost savings?

Impact – DECC Fuel Poverty Team, DECC National Household model, global negotiations, Paris COP





1.8 million downloads in the first 6 days! 983 unique media coverage BBC World, ABC, TIME, Financial Times and Wall Street Journal. 4th highest ever published by the Lancet. Briefings to the White House, UK Cabinet Office and DECC. Presentations on COP21 in Paris.

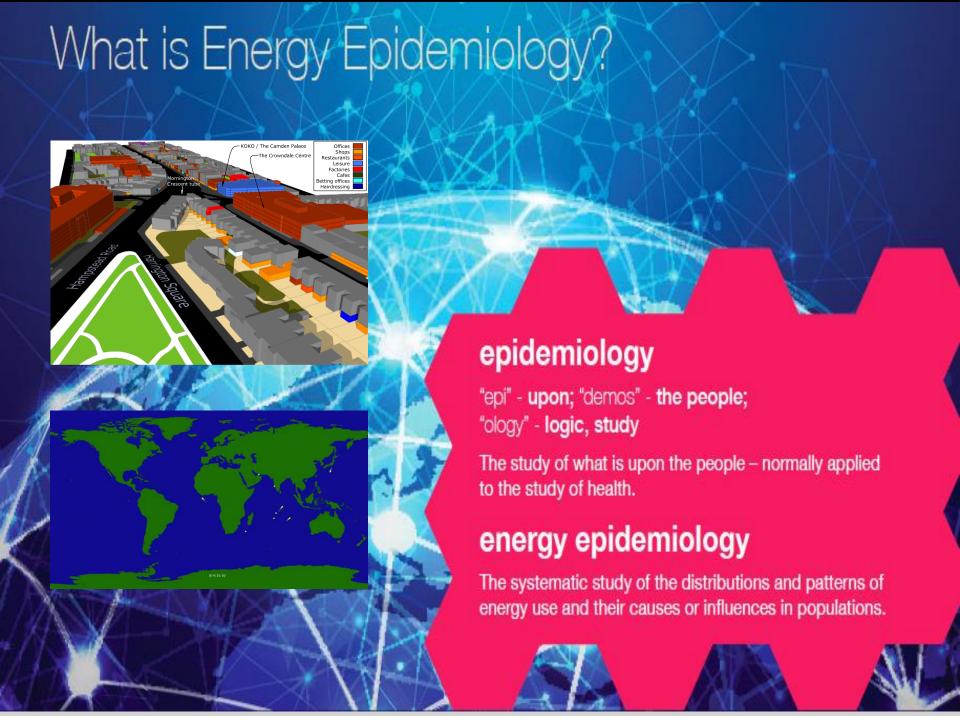
Resource Energy

Heritage Environment

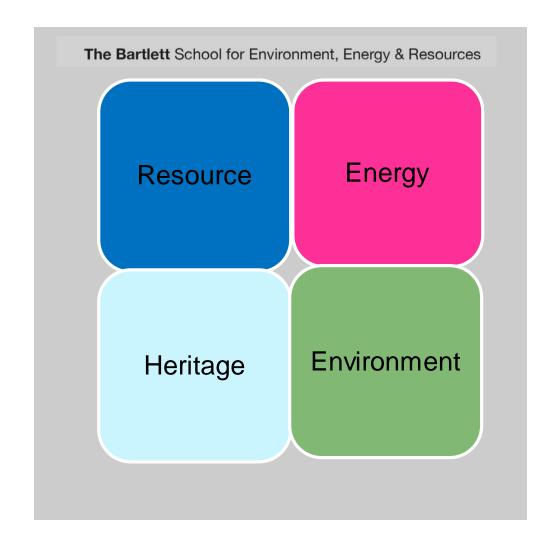
The Bartlett School for Environment, Energy & Resources

Disease

Impact Module













UCL Institute for Sustainable Resources

UCL Institute for Sustainable Heritage





Interdisciplinary Methods Development

- Heritage Science
- Socio-technical (technology deployment)
- Macro-economic
- System Dynamics
- Food/water/energy/climate nexus
- Energy Epidemiology





1999 UCL funded 3 new academic posts to set up a new virtual Energy Institute

7 years later the Bartlett School of Environment, Energy and Resources hosts 4 new Institutes:

- 110 staff, 370 students
- Teaching: 6 postgraduate courses
- Research: 123 projects, value £46M, 242 journal papers per annum
- Events: 60 per annum, 145k web site users, 8,000 twitter followers
- Total income: £13.2M no direct expenditure by College.
- All physically based in Central House not virtual

