



Samantha Heath Director, London Sustainability Exchange (LSx) Planning Support for Low Carbon



London Sustainability Exchange

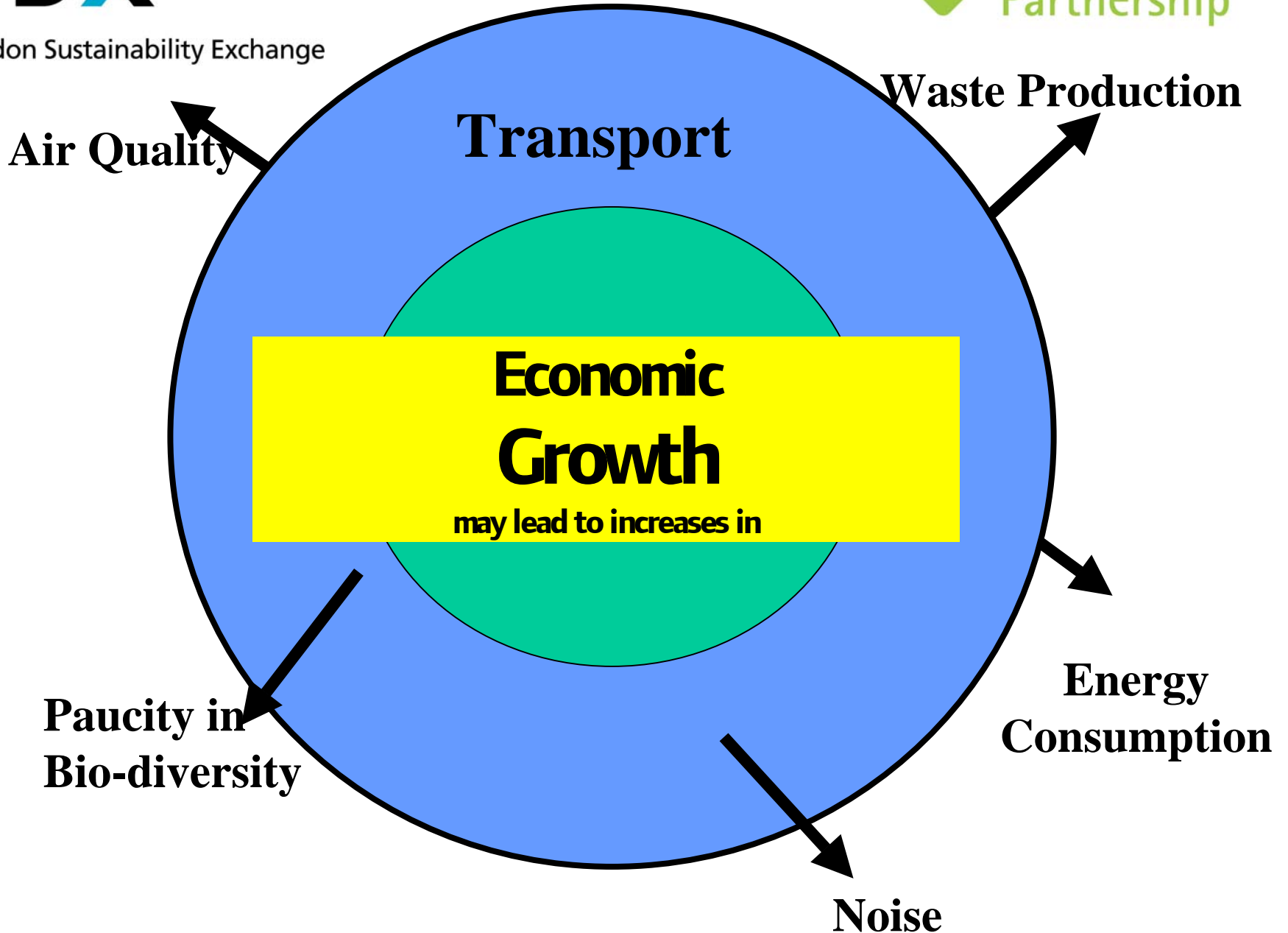


London Energy
Partnership





London Population Growth 2001-2016



Annual London Survey 2006



(MORI)

- **42%** disagree London is a green city Down from 50% in 2002
- **55%** disagree London is a clean city Down from 72% in 2002
- **53%** believe affordable housing is main priority for improvement Down from 60% in 2002





London Energy
Partnership

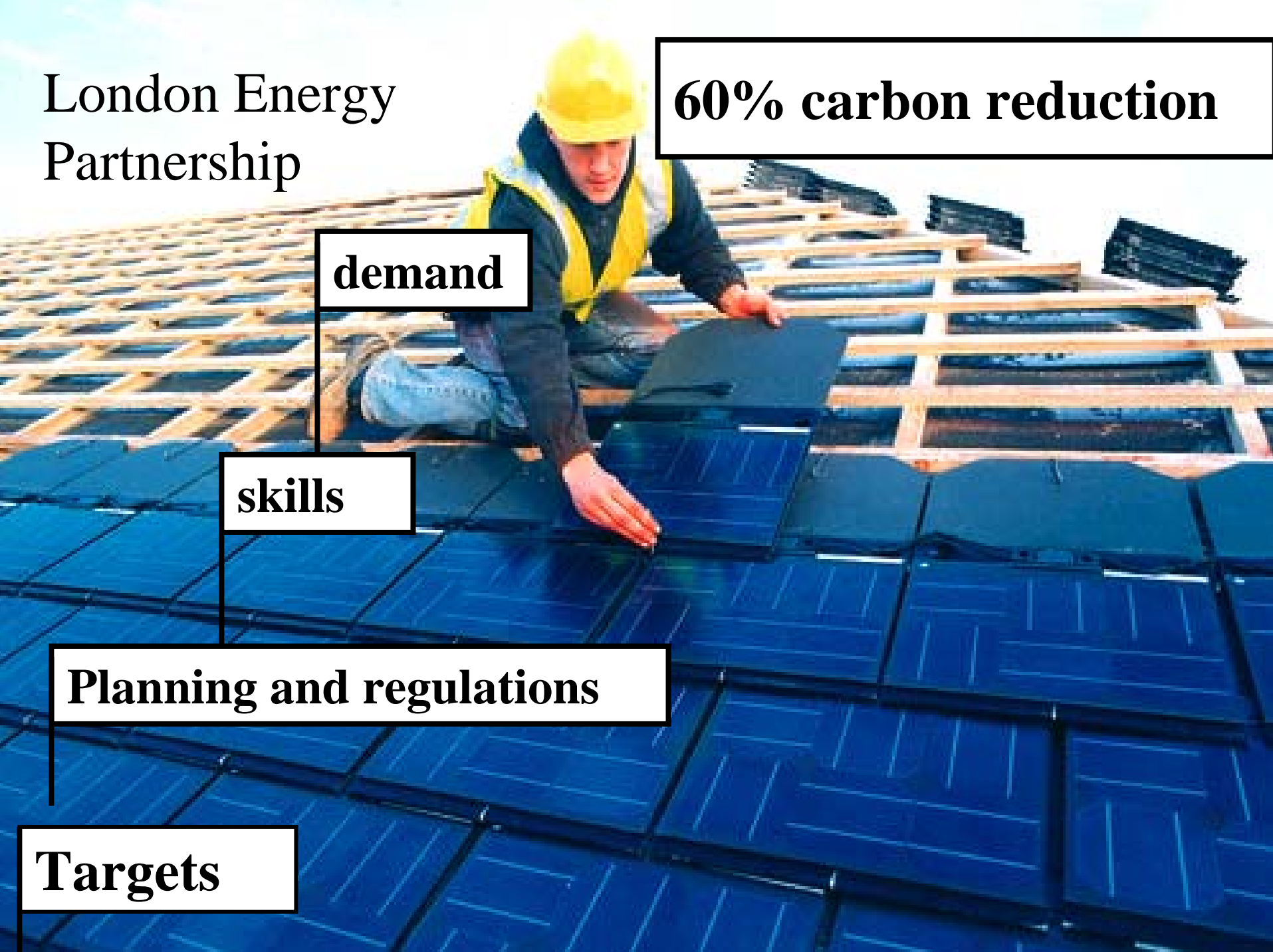
60% carbon reduction

demand

skills

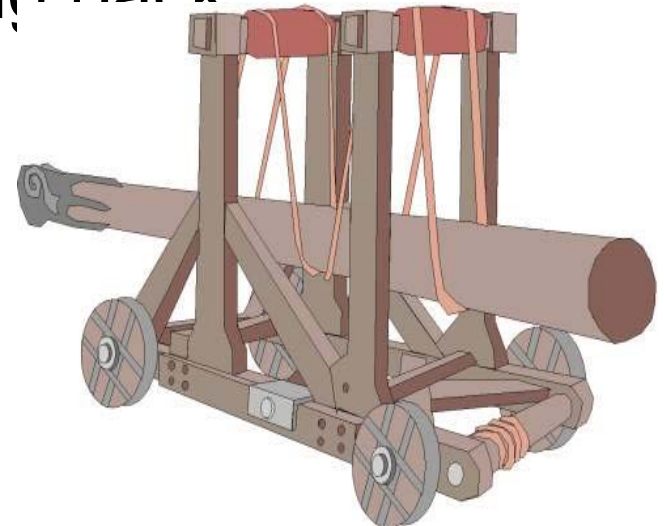
Planning and regulations

Targets



The Ernst & Young Country Attractiveness Indices Feb 2006.

‘The UK, which has so far been scored highly on the basis of its big development pipeline, has dropped from **3rd to 4th** in the Long-Term All Renewables Index as industry concern grows over **grid and planning issues** that are still holding back development momentum’





Legislation

London Plan

Part L

Climate Change Levy

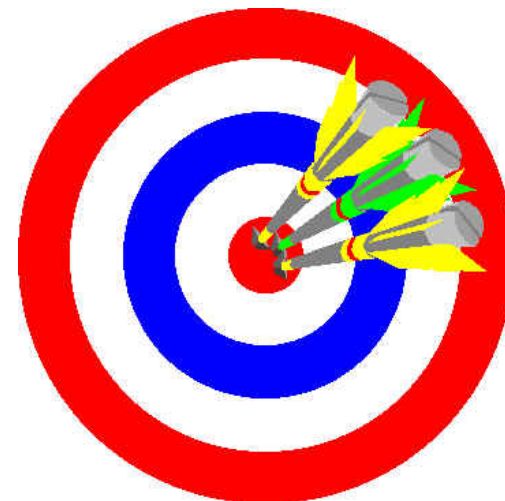
EU Directives & their implementation



London Targets

- 450 parts per million (currently 380)
- CO2 emissions targets (15% by 2010; 20% by 2015 (Further Alterations London Plan);
- 60% by 2025 Climate Change Action

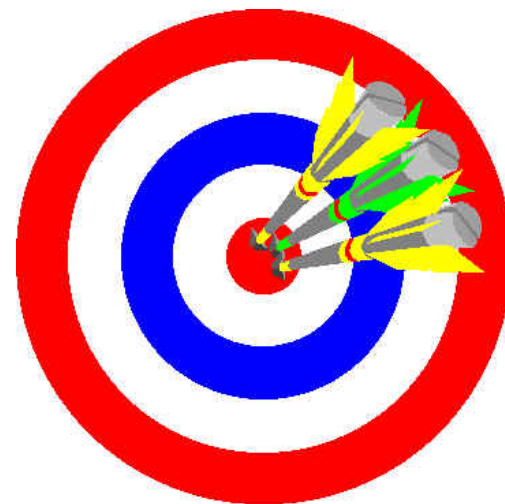
Plan



London Plan

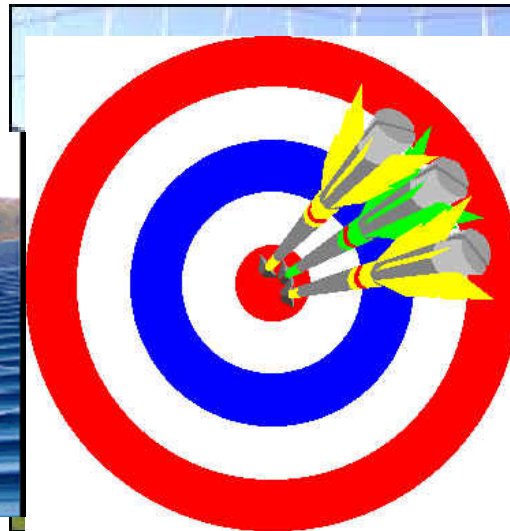
Tackling Climate Change Further Alterations of the London Plan Policy 4A.15

- Minimise emissions
- Adopt sustainable design
- Prioritise decentralised energy



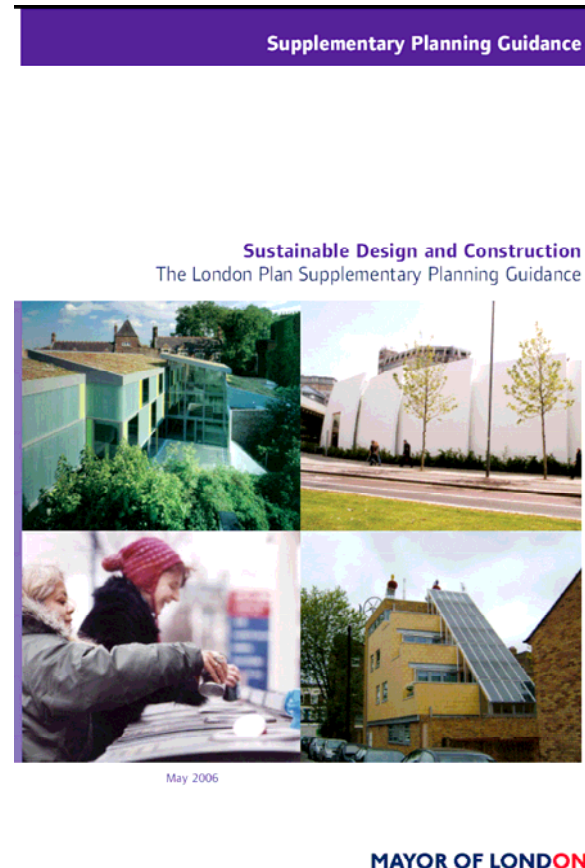
London Targets

- Renewable energy targets (power 100,000 homes and heat 40,000 by 2010; one zero carbon development in every borough by 2010; 7,000 domestic PV; 250 commercial PV; 6 large wind turbines; 500 small wind generators)
- CHP targets (double 2000 levels by 2010)
- Reduce fuel poverty in London by 2016



Supplementary Planning Guidance

- 10% on site energy generation
- 50% materials (by mass) to be sourced within railhead, recycling centre or plant within 35 miles
- Use less than 110 litres per head per day (prefer 70 litres)

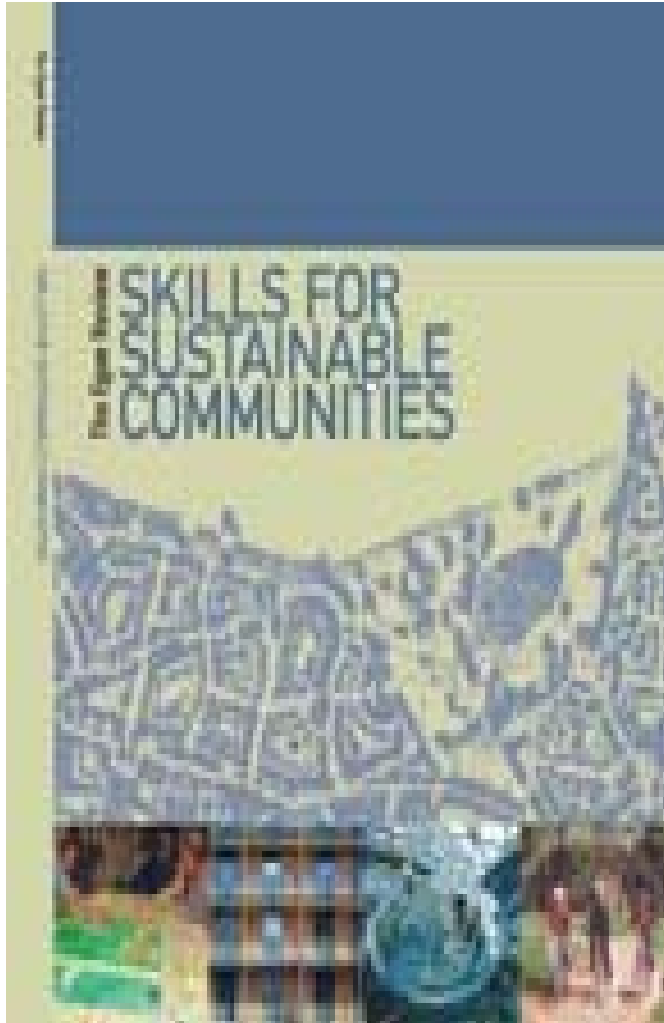


Skills and training

Planners – capacity building



- What do we need to do to make it happen?



We firmly believe that attempting to upskill professionals in isolation will not produce the outcomes we are seeking..... We want to see planners interacting with tenant associations, highways engineers teaming up with urban designers, There is no quick fix - sustainable communities are a holistic long-term (Paragraph 3.8)

- Quality control
- Renewables
- Network
- High end skills
- New build
- Retrofit Mainstreaming
- Funding



Planners' feelings towards work

London School Economics SusCon

- Majority feel valued in work (61% agree or strongly agree) that is of medium-high responsibility (89%)

BUT

- 32% expect to leave their position within 1 year, 62% within 5 years



Planners when asked about sustainable construction knowledge

London School Economics SusCon

- Only 5% felt very knowledgeable; 19% felt not at all knowledgeable
- 27% felt not at all able to advise applicants
- 35% did not know if they had access to SusCon experts (inside or outside the LA)
- 58% never or rarely discuss SusCon with others inside the LA; 65% with other outside the LA



Of the 50% with access to SusCon Best Practice London School Economics SusCon

- 55% often using SusCon best practice, whenever possible
- 37% only using it when obliged to
- 75% thought this information fitted well with their daily job



Planning policy: making it happen

- **Clear policy**
- **Clear definitions**
- **Clear guidance**
- **Training/ capacity building**



Planning policy: making it happen

- **Initially training and support to planners and planning committee members including:**

- **Summary Documents about energy**



- **Energy efficiency & renewable energy training sessions delivered (Jan – Mar 2005) to**

- 28 Local Planning Authorities (> 338 planning officers) in house
- 17 Elected Member Committees (> 75 Elected Members) in house
- 12 London Housing Associations

- **Boroughs with policies**

Planning policy: making it happen cont..

- **Designers (architects & engineers): seminars & articles.**
- **Direct support to London borough planners**
 - Consultants working with the case officer cases – pre & post application
 - Key learning include:
 - a) ongoing learning and support needed
 - b) Meetings with GLA, LB and developer a good opportunity
 - c) Use of existing energy expertise, which planners may not be aware of
- **Next phase: training the university and CPD**

Practical implications of the Mayor's energy targets
- What are planners expecting?
Energy Assessment – tips on what to include with your
planning submission

Designers seminar, 22nd November 2005

delivered by FABER MAUNSELL | AECOM

on behalf of  LONDON RENEWABLES



Toolkit



LONDON
RENEWABLES

Integrating renewable energy into new developments:
Toolkit for planners, developers and consultants



London Renewables, much funded by the Department of Trade and Industry, comprises representatives of the Greater London Authority, the London Development Agency, the Association of London Councils, the Government Office for London, EEP Energy, London First, Imperial College London, London Sustainability Exchange, voluntary, the Renewable Power Association, Creative Environmental Networks and the London Environment Collaborators Forum.

- **London Renewables Toolkit**
 - Paper toolkit, published in September 2004 (7 months after the London Plan)
 - Provides info. on different renewable technologies most applicable to London (including what they look like, constraints they have and planning / legislative issues), the types of development they most suit and the costs and their benefits
-
- **Electronic Toolkit – *Low Carbon Designer – as covered***

Zero carbon development: Support for planners

Key stakeholders to be Involved	At what Stage?	Main Areas of Interest (what information will they be interested in?)	Motivational Factors (what will influence them?)
Planning - development/ building control and policy	<ul style="list-style-type: none"> • Design brief • Application <p>For building control,</p> <ul style="list-style-type: none"> • Post-consent • Post-construction 	<ul style="list-style-type: none"> • Can the requirements in the design brief be enforced? • Are the requirements in the design brief consistent with borough, regional and national policy? • What will be the planning impacts of any proposed zero carbon systems? 	<ul style="list-style-type: none"> • Policy requirement to do this, in local plan/ LDF, and London Plan (if such policies are included) • Response to feedback from stakeholders • Response to the wider remit of local or government sustainable development agenda • Working in partnership and influencing others

Summary Documents

- planners
- developers
- housing associations
- councillors
- architects
- the construction industry
- estate agents



LONDON
RENEWABLES



Renewable Energy in London:
The Role of Planners

Next phase: University and CPD modules for planners

- London Energy Partnership
- RTPI
- TCPA
- Greater London Authority
- London Energy Partnership
- University of Westminster
- University College London.
- London South Bank University
- Kingston University.
- Asset Skills
- Government Office for London
- Representative London Boroughs incl. Haringey, Islington & Merton

Modules will cover..

- Introductory climate science.
- The impacts of Climate Change (with specific reference to the UK and London).
- Targets for emission mitigation and how this relates to the responsibilities of local authorities
- Key low-carbon design elements (materials, orientation, density etc).
- Issues to consider with regard to the proposed use-class of the development (e.g. heat loads, seasonal use patterns).
- Scale and timing



Zero Carbon Construction

2020

Low Carbon Projects
Mainstream



2012

Olympics



Revised London Plan,
Refined targets

2008

More demonstration projects

London Plan,
SPG Sustainable
Construction

Now

