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Environmental Advisor, Mayor of London, 2004-2008

Reducing Carbon Emissions in London
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LONDON’S CLIMATE LEADERSHIP

• Battle to prevent catastrophic climate change will be won or lost in cities
• London set out to demonstrate that this is possible
• Ken Livingstone made tackling climate change a defining feature of administration
• Attempted to integrate climate change into broader vision for liveable city
• Compelled by ecological reality, rather than electoral pressure or government compulsion
LONDON CLIMATE CHANGE ACTION PLAN

60% reduction by 2025

Breakdown of ground-based transport sector’s contribution (%)
- Lower carbon fuels: 16%
- Mode shift to lower carbon forms of travel: 20%
- Improved physical infrastructure: 35%
- "Eco-driving" on all modes: 10%
- More efficient operating (public & private transport): 20%

Ground Based Transport
- Domestic: 38%
- Industrial: 33%
- Commercial & public sector: 7%

44 mt CO₂ (8% of UK emissions)

Breakdown of domestic sector’s contribution (%)
- Energy supply: 44%
- New build: 5%
- Behavioural change: 18%
- Lighting & appliances: 13%
- Thermal efficiency: 10%

Breakdown of commercial and public sector’s contribution (%)
- New build: 5%
- Energy supply: 50%
- Behavioural change: 25%
- Improved physical infrastructure: 20%

Breakdown of supply sector’s contribution (%)
- Micro-generation: 7%
- Local heat & power networks: 31%
- Energy from biomass & waste: 15%
- Changes in National Grid mix: 47%
GREEN TRANSPORT

• Sustainable transport underpins low-carbon city
• Congestion charge the catalyst
• £13bn investment programme
• 40% increase in bus passengers
• 80% increase in cycling
• Achieved 5% modal shift away from private car travel
COMMERCIAL AND PUBLIC SECTOR

- Majority of emissions from energy use in buildings
- Half of buildings will still be in use in 2050
- Building Retrofit programme
- Capital investment paid out of energy savings
- Recession-proof investment?
DECENTRALISING ENERGY SUPPLY

• Two thirds of energy wasted in National Grid
• But limited renewable energy opportunities in London
• Focus on CHP and energy from waste
• Target of 25% energy demand met through locally produced energy by 2025
• Planning powers used to stimulate change
CITIES AS CATALYSTS – THE C40
“We don’t have to reduce our quality of life to tackle climate change. But we do have to change the way we live.”

Ken Livingstone
Mayor of London 2000-2008