

LEEDS ENERGY CONSERVATION AUTHORITY



WARM HOMES
COOL PLANET

*HOME ENERGY EFFICIENCY
AND CONSERVATION PLAN
1996 to 2011*

WARM HOMES COOL PLANET

Has been Prepared and Published by:
Leeds City Council as **E**nergy **C**onservation **A**uthority
Defined under Section One of the
Home **E**nergy **C**onservation **A**ct (1995)

WARM HOMES COOL PLANET

CONTENTS

PREFACE

- 1.0 INTRODUCTION
- 2.0 SUMMARY

Section 1

- 3.0 THE HOME ENERGY CONSERVATION ACT
- 4.0 THE AIM OF THE ACT
- 5.0 THE MEASURES DEFINED UNDER THE ACT
- 6.0 THE REPORTS-MANDATORY AND DISCRETIONARY ELEMENTS

Section 2

- 7.0 A DESCRIPTION OF LEEDS INCLUDING PUBLIC AND PRIVATE SECTOR HOUSING

Section 3

- 8.0 A DESCRIPTION OF THE CURRENT ENERGY LEVEL OF THE HOUSING STOCK
- 9.0 A DESCRIPTION OF THE MEASURES REQUIRED TO ACHIEVE A 30% ENERGY EFFICIENCY IMPROVEMENT IN THE HOUSING STOCK AND THE FINANCIAL RESOURCE INVOLVED
- 10.0 AN ASSESSMENT OF CARBON DIOXIDE (CO₂) SAVED BY THE APPLICATION OF MEASURES

Section 4

- 11.0 A PERSONAL CIRCUMSTANCES STATEMENT

Section 5

- 12.0 WARM HOMES COOL PLANET: A STRATEGY FOR ACTION

Section 6

- 13.0 STATISTICAL BREAKDOWN OF THE ENERGY RELATED ELEMENTS OF THE LEEDS HOUSING STOCK AT 1 APRIL 1996

Section 7

- 14.0 ANNUAL UPDATES STATISTICAL ANALYSIS AND HECA PROGRESS REPORTS (1997 TO 2011)

APPENDICES

1. Works to be carried out by the Authority on its own stock
2. Works to be carried out or funded by the authority on other stock
3. Works to be carried out by Housing Associations on their stock
4. Works to be carried by other agencies on any stock
5. Works to be carried out by owners/private landlords as a result of advice and encouragement
6. Grants or loans to be given by the authority
7. Initiative to encourage householders to undertake work
8. Initiatives to encourage householders to change behaviour
9. Initiatives to involve other organisations/agencies in encouraging change in behaviour.
10. Business, groups, organisations, Local Authority departments and individuals consulted or involved with H.E.C.A
11. Requests to the Secretary of State for the Environment to support or encourage others to assist the E.C.A to achieve H.E.C.A objectives.
12. Department of the Environment summary index.

PREFACE

A "Private Members Bill" entitled "**The Home Energy Conservation Bill**" was passed by Parliament and given Royal Assent in mid 1995 coming into force on 1st April 1996. "**The Home Energy Conservation Act (1995)**" places responsibility on the Local Authority to prepare and publish a report with annual updates that will facilitate a 30% energy efficiency improvement in the housing stock in that Authorities administrative area. This over a predetermined time of between ten & fifteen years.

The Authorities housing providers under Section One of "**The Home Energy Conservation Act (1995)**" (H.E.C.A) are to be defined as Energy Conservation Authorities (E.C.A.'s). Leeds City Councils Department of Housing Services is, therefore, the E.C.A. on behalf of Leeds City Council and has published "**Warm Homes-Cool Planet**", a fifteen-year energy efficiency plan for housing in the city, to discharge the Authorities duties under the Act. The "Warm Homes Cool Planet" plan has been designed and structured to be a working document that will assist others to support the E.C.A in striving to facilitate the targets laid down under H.E.C.A.

SECTION 1 of Warm Homes Cool Planet outlines the scope of the Act in that it places responsibility on the local Authority to facilitate a 30% energy efficiency improvement in the stock, identify the measures required to bring about this improvement and inform the Secretary of State of the findings. Section One also covers the range of measures defined under the Act and as importantly the mandatory elements to be met by the E.C.A.

SECTION 2 of the report requires the E.C.A to provide a demographic overview of its administrative area including:- population size, age, tenure and a description of the housing stock in both the public and private sectors.

SECTION 3 draws together the Authority knowledge of the housing stock in its administrative area by requiring the E.C.A to estimate the total energy consumption utilised in the city housing, describe the measures that will facilitate a 30% energy efficiency improvement and identify the cost of those measures. The Act also requires the E.C.A to identify through theoretical modelling, the emissions of CO₂ to atmosphere brought about through the burning of fossil fuel for energy use in the home and the saving after the application of H.E.C.A. measures.

SECTION 4 gives a brief overview of the Local Authority's strategic aims and sets down a framework for discussion in seeking to secure affordable warmth (the ability to stay warm within the occupants means) and support the health and well being of Leeds residents. This section also notes and recognises that, due to the time constraints in preparing this report for the Secretary of State for the Environment, the Authorities strategies may require to be reviewed in future years to recognise and support, wherever practicable, the objectives of the Act.

SECTION 5 is self-explanatory in that the E.C.A will seek to develop and explore initiatives that endeavour to facilitate a 30% energy efficiency improvement in the housing stock, Action Statements have been categorised, for ease of identification, as follows:

- Awareness and promotion
- Monitoring/Evaluation
- Personal Circumstances including health and job creation
- Environmental/sustainable energy
- Finance

Note: The action statements contained within this report are not seen as definitive and will be reviewed and added to as the plan develops over its fifteen year term.

SECTION 6 and **7** offer details on the housing stock's base energy position in the Leeds district at 1st April 1996 with the intention of updating this information annually from 1997 to 2011. Data, when available, will include information on housing and population growth, housing condition, improvement take-up, appliance and product sales and environmental emissions etc. Also, groups and organisations assisting the E.C.A., directly or indirectly, to meet the city's target under the H.E.C.A.

APPENDICES 1 to **9** cover the mandatory response, required under the Act, to the Secretary of State for the Environment, encompassing information, advice, education, promotion, the making of grants and loans and the implementation of work as notified to the E.C.A.

APPENDIX 10 meets Section 2(5) of the Act and Guidance Circular 2/96 3.17 which state E.C.A.'s should consult with a wide range of groups and bodies, businesses and individuals in the preparation of the plan. The E.C.A should also establish a working relationships, wherever practicable, with the business community to support and promote greater energy efficiency in residential accommodations. This appendix lists the bodies, groups and business institutions who have been asked for comment, assistance or to actively participate in the furtherance of the 30% energy efficiency improvement in the housing stock.

APPENDIX 11 as defined in Guidance Circular 2/96 4.28, allows the E.C.A. to outline to the Secretary of Ste for the Environment what stops should be taken to allow the Secretary of State to assist with (or encourage others to assist with) measures set out in the Authority's plan. This appendix will be updated annually to highlight the action taken by the Government in assisting the E.C.A. to discharge its responsibility under the Act.

APPENDIX 12 summarises the elements of the E.C.A.s' report that the Department of the Environment have identified as warranting special attention and have therefore been prioritised in the order requested.

1.0 INTRODUCTION

1.01 WARM HOMES COOL PLANET- A HOME ENERGY EFFICIENCY AND CONSERVATION PLAN 1996 TO 2011.

Warm Homes Cool Planet has been formulated to meet the City Council's statutory duty under the terms of the Home Energy Conservation Act 1995 (H.E.C.A) to prepare and publish a report outlining measures that will significantly improve the energy efficiency of the city's residential accommodation.

2.0 SUMMARY

'Warm Homes Cool Planet', the Leeds Energy Conservation Authority's (E.C.A.) 15 year energy efficiently and conservation plan seeks to meet the challenge of the Home Energy Conservation Act (H.E.C.A.) 1995 by identifying practicable and cost effective measures that it hoped will bring about substantial progress towards a 30 per cent energy efficiency saving in the city's housing stock. A duty has been placed on the E.C.A. to identify and cost measures that will bring about at least a 30 per cent energy efficiency improvement in the Leeds Housing Stock. At current costs, the report identifies, to the Secretary of State for the Environment a resource requirement in excess of £775 million (as at 1 April 1996) over the 15 year term. The Secretary of State for the Environment, upon receipt of the report will take such steps as considered desirable in order to assist with or encourage other persons to assist with the measures set out in the Plan.

It is important to note that the Home Energy Conservation Act (1995) places no resource responsibility on the Energy Conservation Authority to meet H.E.C.A. targets. The Authority responsibility under the Act is to prepare and publish a report identifying energy conservation measures which it considers practicable, cost-effective and likely to result in significant improvements in energy efficiency of residential accommodation in its area and to report its finding to the Secretary of State for the Environment for deliberation. The subject to annual review as part of the Housing Strategy preparation.

The city Council recognises that the lack of immediate resource should not be ground for inaction and the E.C.A. would therefore wish to build upon its success in the energy field, notably the Department of Housing Services' nationally recognised lead status in energy efficiency in public sector housing. The councils Energy and Environment Centre, one of a limited number in the country committed to raising awareness to achieve a sustainable environment for Leeds, through providing advice covering energy efficient housing improvement. Furthermore, the Energy Unit of Leeds Design Consultancy who are supportive to the aims and objectives of the Authority's housing functions.

In the first instance, the E.C.A. has called together a broad range of interested parties, including members of the business and financial sectors, voluntary and statutory groups, housing providers and Leeds residents to assist in exploring the most appropriate method to increase public awareness of the need for improved energy efficient housing. The E.C.A. will develop, in consultation with a broad range of interested parties, an information infrastructure to accelerate energy efficient improvement to housing in the City. This in turn, it is hoped, will facilitate the take up of energy efficient goods, services and financial packages to assist in the meeting of the H.E.C.A. targets.

The council also recognises that there is currently a high level energy efficient improvements taking place in the City that is currently not measured and will therefore begin to attempt to register these improvements against the City's targets, thereby reducing the call for additional resource on the Secretary of State and/or others.

The main objectives of the E.C.A outlined in **'Warm Homes Cool Planet'** Action Statements will be to maximise energy efficiency investment within current resources across all sectors, stimulate further support within existing or limited increase in resource, and to submit these findings to the Secretary of State for the Environment, through annual submission.

The E.C.A. **'Warm Homes Cool Planet'** strategies and strategy revisions will be receptive to the needs of all Leeds residents and will seek to secure support for the City's plan to achieve the demanding target of 30% energy efficiency improvement by the year 2011.

SECTION 1

THE ACT

3.0 THE HOME ENERGY CONSERVATION ACT 1995

- 3.01 The Home Energy Conservation Act 1995 (H.E.C.A) came into force on 1 April 1996 and requires that energy conservation authorities (local housing authorities) prepare and publish a report to be submitted to the Secretary of State by 30 November 1996.
- 3.02 Reports should set out measures that the energy conservation authority consider practicable, cost effective and likely to result in significant improvements in energy efficiency of residential accommodation in its administrative area.
- 3.03 The Secretary of State on receipt of the report and which satisfies the Act will set a timetable for the submission of progress reports and will take such steps as considered desirable to assist and encourage others to assist with the measures outlined
- 3.04 Residential Accommodation is defined under the Act and Acts revisions as premises occupied or intended to be occupied as separate dwellings and forming the whole or part of a building. It also covers mobile homes which are dwellings for council tax purposes, houseboats and buildings in multiple occupation.
- 3.05 The Act places emphasis on the importance of improving the energy efficiency of residential accommodation to address the environmental impact energy use in the domestic sector is responsible for and to ensure that households have access to affordable warmth.
- 3.06 The Act does not require an Energy Conservation Authority to implement all the measures which it identifies. Some measures will be outside an authorities control, such as works to housing which is not in its ownership. Authorities should regard their role as **facilitators** of change.
- 3.07 The Act provides that authorities may consult in the preparation of the report with a wide range of people and organisations who can themselves achieve, or encourage or assist others to achieve, improvements in energy efficiency relevant to the Act.

4.0 THE AIM OF THE ACT

- 4.01 The aim of the Act is for Energy Conservation Authorities to identify measures which compared with the 1 April 1996 will lead to a **30%** improvement in energy efficiency in all residential accommodation in their administrative area.
- 4.02 The Act does not set any deadline for the achievement of the saving, but the Secretary of State will expect reports to show a strategy for making at least substantial progress towards the 30% target over a 10 to 15 year period and this progress reported annually via the authorities Housing Investment Programme returns to the Department of The Environment.

4.03 Improvement in energy efficiency has been defined to be the reduction in energy use for space, water heating, lighting, appliances and cooking in the home.

5.0 THE MEASURES

5.01 The Act provides that energy measures include: -

- Information
- Advice
- Education
- Promotion
- Making Grants and Loans
- Carrying out Works

5.02 The Act neither states nor implies that measures identified in the report need be limited to those implemented by the Authority. Improvement works carried out by agencies, bodies, landlords or individuals should also be included along with an Authority's administrative area.

5.03 The list of measures is not exclusive and energy conservation authorities may include further elements they consider practicable, cost effective and likely to contribute to significant improvements in the energy efficiency of residential accommodation.

5.04 Authorities are also encouraged to raise the awareness within their organisation of elected members and staff and at all levels regarding energy efficiency, conservation and climate change.

6.00 THE REPORTS MANDATORY AND DISCRETIONARY ELEMENTS UNDER THE ACT

6.01 The Report and subsequent annual updates must include: -

- I. A brief description of the residential accommodation in the district, both Public and Private Sector **(see Section 7.0)**
- II. An assessment of the current energy efficiency of the housing stock **(see items 8.03,9.01,9.02,9.03)**.
- III. A description and cost of the measure which the Authority considers will achieve a 30% improvement in energy efficiency of the stock over 10 and up to 15 year period **(see item 9.04)**.
- IV. An assessment of carbon dioxide **CO₂** saved by the applications of the measures **(see item 10.0)**.
- V. A personal circumstances statement covering health, poverty and/or special needs. **(see item 11.9)**

6.02 WORKS AND ADVICE TO BE PROVIDED IN THE E.C.A's AREA

The report must include the following:

- I. Works to be carried out by the Authority on its own Stock **(See Appendix 1)**
- II. Works to be carried out or funded by the Authority on other stock
(See Appendix 2)
- III. Works to be carried out by Housing Associations on their stock
(See Appendix 3)
- IV. Works to be carried out by other agencies on any stock **(See Appendix 4)**
- V. Works to be carried out by owners/private landlords as a result of advice/encouragement **(See Appendix 5)**
- VI. Grants or loans to be given by the Authority **(See Appendix 6)**
- VII. Initiatives to encourage householders to undertake works **(See Appendix 7)**
- VIII. Initiatives to encourage householders to change behaviour **(See Appendix 8)**
- IX. Initiatives to involve other organisations/agencies in encouraging changes of behaviour **(See Appendix 9)**

6.03 DESIRABLE ELEMENTS

It is considerable that as and when appropriate, or when data becomes available that the following elements may be included in the report or subsequent reviews:

- i. A statement of the likely number of jobs created by the application of measures **(Not applied)**
- ii. A assessment of the decrease in Sulphur Dioxide (**SO₂**) and Oxides of Nitrogen (Nox) **(Not applied)**
- iii. Average savings on fuel bills and kilowatt hours of fuel used **(Not Applied)**
- iv. Anything the authority considers appropriate **(Section 5 and Appendix 11)**

6.04 HELPFUL REPORT INCLUSIONS

It would be helpful if authorities could indicate:

- i. Who has been consulted **(See Appendix 10)**
- ii. Likely resource from 'outside' the authority e.g. grants, private sector funding **(Finance, if available, is outlined in Appendix 4,5,7,8,9)**
- iii. Likely use of outside agencies **(See appendix 1 to 9 and Section 5)**
- iv. Data Collection Strategies **(See Section 5)**
- v. Action which the Authority wishes the Secretary of State to pursue to assist and encourage others to support measures set out in E.C.A's report.
(See Appendix 11)

SECTION 2

THE LEEDS HOUSING STOCK

7.0 DESCRIPTION OF LEEDS METROPOLITAN DISTRICT- INCLUDING PUBLIC AND PRIVATE SECTOR HOUSING

7.01 LEEDS DISTRICT

Both in terms of area and population, Leeds is the second largest Metropolitan District in the UK. Its boundaries extend some 15 miles east-west and 13 miles north-south. Only about a third of the city's 217 square miles are built up: the rest is mainly green built countryside. Leeds is home to a population of some 725,569 people. Most of the population live within the compact suburban city surrounded by a rural area containing many free-standing towns and numerous small villages.



7.02 PUBLIC SECTOR HOUSING

7.02 PUBLIC SECTOR HOUSING

The councils housing stock amounts to 76,907 dwellings at 1 April 1996, 62% of the stock compromise houses and bungalows situated in semi-detached pairs or short terraces. The majority of flats and maisonettes are located within 3,789 low-rise blocks below 6 storeys, containing over 21,000 individual dwellings. Almost 12% of the stock however comprises flats within high-rise developments, situated in 138 blocks of between 6 & 25 storeys.

Around 32% of the Councils stock dates before the war-this includes a number of miscellaneous acquired dwellings and 2,466 back-to-back properties that date to before the first world war. A similar proportion of the stock was built during the early post-war period (1945-65).

7.03 PRIVATE SECTOR HOUSING

The City of Leeds contains a private sector housing stock of some 223,593 dwellings. Over 89% of homes are houses and bungalows, with approximately 14% of these being detached. Flat and maisonettes are both medium and low-rise. Of the low rise, a significant proportion have been created from the conversion of houses.

Traditional low rise construction of cavity brick under conventionally pitched tile or slate roofs predominate. A significant proportion of dwellings, however are of solid brick and/or stone. Other forms of construction include, concrete and timber framed properties and or a number of Pre Reinforced Concrete dwellings.

Over 84% of the City's private sector stock is owner-occupied with private rented dwellings accounting for 10% and housing association 6% of this sector.

7.04 STOCK CONDITION SURVEY-ENERGY GRADE PUBLIC AND PRIVATE SECTOR

The Government's Standard Assessment Procedure (SAP) applies a rating to dwellings on a scale of 1 to 100 this as an expression of heating and hot water costs against floor areas. The higher SAP numbers' are associated with more energy efficient homes and lower numbers with less energy efficient dwellings. The average UK property falls in the range SAP 30 to 40.

Leeds City Council public sector dwellings have an audited mean SAP of 37, with private sector dwellings graded at SAP 49 (mean) based upon the 1994 stock condition survey data.

7.05 TOTAL STOCK NUMBERS

The City has total of 300,500 dwellings (at 1st April 1996) comprising:-

76,907	Local Authority homes	(26%)
12,394	Housing Association dwellings	(4%)
<u>211,199</u>	Private Sector properties	(70%)
300,500	Total stock at 04.04.96	(100%)

7.06 NEW HOUSEHOLD TRENDS

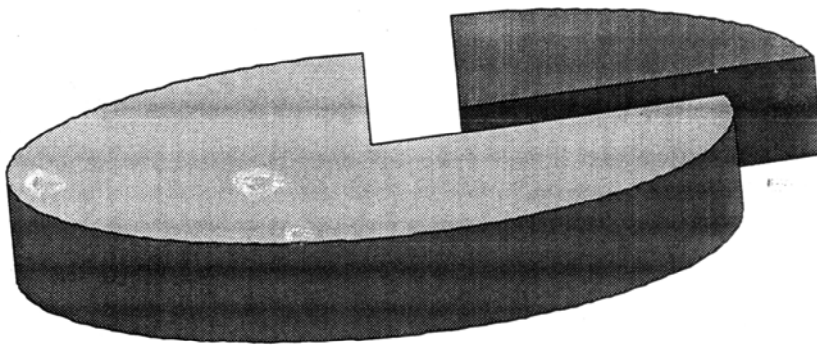
Population trends indicate growth in the Leeds District in excess of 4,500 occupants to over 730,200 people by 2001. It is predicted that up to 8,400 new households will be formed by the new millennium to meet this demand. This is in line with national trends. There is also likelihood of a reduction in larger families and in older person households, this matched by a significant increase in the requirement for single person units.

SECTION 3

ENERGY DATA

H.E.C.A. MEASURES

That have been applied



That could be applied

8.0 THE DESCRIPTION OF THE CURRENT ENERGY EFFICIENCY LEVEL OF THE CITY STOCK AT 1ST APRIL 1996

8.01 STANDARDISED APPROACH

The Authority's 1994 stock condition survey comprehensively audited 2,425 private sector dwellings to National Home Energy Rating level 0 accuracy and 5,992 dwellings to enhanced level 1. The authority has for the purpose of initial standardisation of UK reports, submitted data based upon the Building Research Establishments spreadsheet methodology supported, wherever necessary by BREDEM based energy modelling.

8.02 STANDARD ASSUMPTIONS

The B.R.E. spreadsheet calculation methodology is based upon an assessment of the energy consumption for heating and hot water set against built form, age, heating, glazing, fuel type and insulation.

The Authority recognises that approximately 16% of household energy consumption is utilised for lighting, appliance use and cooking based upon B.R.E. Domestic Energy Factfile data. B.R.E spreadsheet methodology does not recognise this element, therefore theoretical lighting, appliance and cooking energy consumption has been calculated and incorporated into the overall City figure.

8.03 DATA ANALYSIS-FINDING BASED UPON THEORETICAL ENERGY MODELLING AS AT 1ST APRIL 1996

Number of dwellings (Cross Tenure Total)	300,500		
Owner occupied dwellings	178,270		
Local Authority dwellings	76,907	}	Section 6 (13.01)
Private Rented dwellings	23,652		
Housing Associations and others Including mobile homes and houseboats	12,671		
Level of housing of unfitness	13%		(13.02)

<i>IMPROVEMENT OPTIONS</i>	<i>THE NUMBER OF DWELLINGS WHERE ENERGY MEASURES COULD BE APPLIED</i>	<i>DWELLINGS ALREADY HAVING MEASURES APPLIED</i>
Hot water tank insulation	25,984	239,385 (13.03)
Draught-stripping	300,500	162,270 (13.04)
Cavity wall Insulation	186,082	33,495 (13.05)
Loft Insulation (50mm or more)	240,987	168,690 (13.06)
Double glazing:	300,500	168,280
▪ Full House		90,150
▪ Half House		51,085 (13.07)
▪ Living Room only		27,045
Heating Systems:	300,500	
▪ Condensing boilers		*
▪ Central heating (under 12 years old)		126,210
▪ Central heating (over 12 years old)		108,180 (13.8)
▪ Room heaters		66,110

* (Not available)

9.0 DESCRIPTION OF THE MEASURES REQUIRED TO ACHIEVE A 30% ENERGY EFFICIENCY IMPROVEMENT IN THE HOUSING STOCK AND THE FINANCIAL RESOURCE INVOLVED

9.01 HEATING AND DOMESTIC HOT WATER

Theoretical modelling was carried out to ascertain the most cost effective and practicable solution to achieving 30% energy efficiency improvement in the housing stock based upon the B.R.E spreadsheet methodology. A further improvement was identified through the provision of good housekeeping energy advice. This has been entered as a separate element as the E.C.A cannot guarantee the sustainability of savings based upon use of systems and appliances brought about through good housekeeping energy advice. The following summates the finding of the H.E.C.A audit for Leeds:

<i>IMPROVEMENT OPTIONS</i>	<i>TOTAL DWELLINGS REQUIRING UP-GRADE</i>	<i>TENURES</i>
Provide		
	12,599	All
▪ Cylinder jackets to current standards		
▪ Loft insulation to current Building Regulations (1996)	72,296	All
▪ Cavity wall insulation	152,587	All
▪ British Standard or equivalent draughts stripping	138,230	All
▪ High efficiency heating systems	174,290	All
▪ Whole dwelling double glazing	93,524	P.R., H.A. and L.A.

P.R. = Private rented; H.A. = Housing Association; L.A. = Local Authority

Cost of measures as at 1 April 1996

▪ Cylinder jacket provision	£126.00
▪ Loft insulation	£13,338,628
▪ Cavity wall insulation	£44,212,385
▪ Draught stripping	£17,693,440
▪ High efficiency heating systems	£491,275,000
▪ Double glazing (whole house)	£191,724,000
Total Up-Grade Cost	<u>£758,369,453*</u>

* (excluding Energy Advice delivery)

Theoretical energy consumption in the housing stock (heating and domestic hot water) at 01.04.96	32,411,297 GJ
Theoretical energy consumption after the application of measures	22,722,122 GJ
(including good housekeeping energy advice)	20,449,910 GJ
Energy efficiency improvement after capital measures are applied	30%
Energy efficiency improvements including good housekeeping energy advice	37%

15 year Programme annual expenditure Excluding inflationary costs)

£50,557,964

*NOTE

Leeds costs are based upon City Council contract rates applied to 30% of the stock (LA and HA dwellings) and individual property 'one-off' grade costs plus V.A.T. for the remaining 70% (private sector dwellings).

9.02 APPLIED ENERGY MEASUREMENTS COST AND SAVINGS (LIGHTING, COOKING AND APPLIANCES)

Theoretical modelling was carried out utilising BREDEM based software to evaluate energy expanded for cooking, lighting and power in the City's housing.

The following summarises the finding of the theoretical model:

6,173,580 GJ as defined by energy modelling represents cooking, lighting and appliance use based on standard occupancy.

To achieve a 30% energy efficiency improvements it has been assumed the most practicable and cost effective means of providing savings in this sector are: -

	Energy saved
The provision of 5 low energy lamps per household to 300,500 dwellings.	1,481,660 GJ
A further saving in energy consumption will be affected through replacement of appliances for lower energy equivalents to target households and good housekeeping energy advice.	370,414 GJ
Energy use lighting/appliance and cooking	6,173,580 GJ

	Energy saved
Energy saving by appliance or lamps and higher efficiency appliances	1,852,074 GJ
Energy consumption after application of products	4,321,506 GJ
Energy efficiency saving	30%

9.03 TOTAL ENERGY SAVING (AFTER ALL MEASURES HAVE BEEN APPLIED)

Theoretical Energy Consumption at 1st April 1996	38,584,877 GJ
Theoretical Energy Consumption after application of all measures (at 1/4/2011)	27,043,620 GJ
Theoretical Energy saving after application of all measures plus energy advice	24,771,416 GJ
Energy Efficiency Saving	Total 30%
Energy Saving plus advice	Total 36%

It is important to note that the data presented has been compiled from a range of information sources including the Authority's Stock Condition Survey 1994. New data, as and when available, will be added to the E.C.A's database with a view to refining the present information on the Energy Performance of the stock over time.

9.04 TOTAL COST OF MEASURES

The Energy Conservation Authority shall endeavour to facilitate the uptake of: -

Measures to be applied to all potential dwellings

Tenure

Whole dwelling double glazing	P.R., H.A. and L.A.
High efficiency heating	All
Draught proofing	All
Loft insulation top-up	All
Cavity wall insulation	All
Cylinder jackets to current standards	All
Value of work at 1 st April 1996	£758,369,453

The E.C.A will also promote the take up of: -

- 5 low energy lamps per household **Cost £10,367,000**
- Change of appliances on failure to higher efficiency equivalent*
- Good housekeeping energy advice **Cost £ 6,010,000**

Energy advice will be required to play a major part to facilitate a change of behaviour of domestic energy consumers and therefore a value of £20 per household has been calculated to provide one 'low cost' visit to every home in the City, supported by 5 direct mail-shots to each dwelling over a 15 year period.

Total cost of measure and advice delivery

Heating/hot water/fabric improvements	£758,369,453
Lighting and appliances enhancement	£ 10,367,000
Energy advice delivery	<u>£ 6,010,000</u>
1. TOTAL COST	<u>£774,746,453</u>
2. Total 15 year programme (excluding inflationary costs)	<u>£51,649,764 per annum</u>

* (Not available)

Note: No cost has been allocated to change of appliance as it has been assumed that this would be a natural process, brought about by industry improvements and a general higher level of awareness on behalf of the appliance recipient for the need to conserve energy.

10.0 AN ASSESSMENT OF CARBON DIOXIDE (CO₂) SAVED AFTER THE APPLICATION OF MEASURES

10.01 HEATING AND DOMESTIC HOT WATER USAGE CO₂ BASELINE AT 1ST APRIL 1996

Based upon Building Research Establishment (BRE) calculation methodology theoretical Carbon Dioxide levels for heating and hot water usage in the Leeds City's housing stock is approximately:

Total estimated carbon dioxide emissions : 2,334,149 Tonnes CO ₂ per annum

**10.02 LIGHTING APPLIANCE AND COOKING
UTILISATION CO₂ BASELINE AT 1st APRIL 1996**

Lighting Appliance and cooking energy consumption assessment has been made by utilising BREDEM based calculation procedure and based upon standard occupancy levels in City housing.

Total estimated carbon dioxide emissions :
836,061 Tonnes CO₂ per annum

10.03 TOTAL ESTIMATED CARBON DIOXIDE DOMESTIC HOUSING STOCK BASELINE AT 1ST APRIL 1996

Total estimated carbon dioxide emission baselines.

Heating and hot water	2,334,149	}	Tonnes CO ₂ per annum
Lighting, appliance and cooking	836,061		
Total City CO₂ baseline	3,170,210		

10.04 ESTIMATED CARBON DIOXIDE BASELINE (POST IMPROVEMENTS) AT 1ST APRIL 2011

Total estimated carbon dioxide emission baselines.

- I. Heating and domestic hot water CO₂ emission after improvement measures are applied:

1,751,609 Tonnes CO₂ per annum

- II. Total estimated CO₂ emission from lighting, appliance and cooking utilisation after improvement measures are applied:

III.

542,882 Tonnes CO₂ per annum

Estimated total CO₂ baseline after all efficiency improvements have been applied

	1,751,609	}	Tonnes CO ₂ per annum
	<u>542,882</u>		
SUB-TOTAL	<u>2,294,491</u>		
Including Energy Advice	<u>2,157,271</u>	}	
CO ₂ 1996 Baseline	3,170,210		
CO ₂ 2011 Baseline	2,157,271		
Percentage CO ₂ saved	32%		

10.05 EMPIRICAL ENERGY CONSUMPTION CO₂ STATISTICS

Empirical data has been provided for gas and electricity energy utilisation in the Leeds Metropolitan District housing stock for the year 1995. Extrapolated data has been added regarding solid fuel and oil consumption, converted to millions of tonnes carbon dioxide. The figure calculated would initially suggest either an under heating of the Leeds housing stock, under occupancy of dwellings, or both, this set against the theoretical CO₂ energy model requested under the Act.

Theoretical figures, based upon assumed energy take-up in the home indicate that total carbon dioxide emissions from the City's housing stock at 1st April 1996 is approximately:

3,170,210 Tonnes CO₂ per annum

Empirical data based upon fuel company statistics and extrapolated data on oil and solid fuel usage a figure of :

1,671,284 Tonnes CO₂ per annum

47% lower

Therefore , if increased comfort is taken by all residents after improvement, disregarding energy advice a 623,207 tonnes carbon dioxide increase will occur in the City rather than the desired decrease. It is envisaged that a possible pro-rotta down turn in **CO₂** related may take place, as it is assumed many occupants in under-occupied dwellings may still not feel pre-disposed to heat all of their homes when rooms are not in use. If good housekeeping energy advice is successfully applied and sustained the **CO₂** increase would be limited to 485,987 tonnes **CO₂** per annum.

SECTION 4

PERSONAL CIRCUMSTANCES

11.0 LEEDS CITY COUNCIL STRATEGIC OBJECTIVES- PERSONAL CIRCUMSTANCES STATEMENTS

11.01 ENERGY INEFFICIENCY-THE CONSEQUENCES

Inadequately heated and insulated homes can lead to discomfort, dissatisfaction and in some cases financial hardship among occupants: moreover if the money for fuel is simply not available, occupants will heat frequently, leading to potential health problems, dampness and condensation, damage to decorations and in extreme cases the building structure.

11.02 IMPROVED ENERGY EFFICIENCY

Improved energy efficiency in the form of high efficiency well-controlled heating sources combined with increased levels of insulation can enhance the living standards of occupants. The benefits being: -

- I. Warmer more comfortable homes.
- II. Improved quality of life
- III. Reduced expenditure on energy allowing households to spend more income on essentials
- IV. Fewer problems with cold and damp dwellings which can exacerbate dampness and ill health.
- V. Less risk of using high cost source point heaters
- VI. Reduced risk of cold related problems for the elderly, infirm or families with young children
- VII. The likely reduction in so called environmentally damaging emissions brought about from the burning of fossil fuels.

11.03 THE COUNCILS STRATEGIC OBJECTIVES

Leeds City Council's corporate objectives encompass the call for improved personal circumstances of all residents as expressed in the City's 'Vision of Leeds' statements:

Leeds should endeavour to become and be recognised as: -

- I. One of the principal and progressive cities in Europe within ten years.
- II. Having a diverse and successful economy adapting to change
- III. Providing a growing standard and quality of life accessible to all citizens, in an improving environment.

- IV. Seeking to achieve world class standards in the skills and qualifications of its workforce.

11.04 LEEDS CITY COUNCIL CORE VALUES

The Authority is progressing and integrating the following values into Council policy thereby striving to achieve improvements for all members of the community.

- I. Equality of opportunity for all
- II. To combat inequality and poverty
- III. The protection of the local and global environment

11.05 LEEDS CITY COUNCIL COMMUNITY SERVICES GROUP - KEY AIMS

The Community Services Group seek to improve the health and well being of the whole community through the integration of the following strategic aims: -

- I. To ensure the authority has an integrated and co-ordinated response to community needs.
- II. To ensure all sections of the community have safe and easy access to high quality services.
- III. To meet housing needs.
- IV. To ensure the provision of a wide range of quality training and education
- V. To meet the social care needs of people in Leeds.

11.06 LEEDS CITY COUNCIL DEPARTMENT OF HOUSING SERVICES - STRATEGIC KEY OBJECTIVES

The Department of Housing Services, key strategic objectives are: -

- I. To assess accurately the condition of the housing stock within the City, tackle unfit housing, maximise the improvement of housing in disrepair and **enhance energy efficiency in housing across all tenures.**
- II. To assess accurately the present and changing housing needs and aspirations of the people of Leeds in order to target resources more effectively.
- III. To contribute to local initiatives which help to create healthy and safe social environments within which residents can enjoy their homes.
- IV. To maximise the provision of affordable housing in the City by developing and strengthening partnerships.

11.07 HOUSING SERVICES ENERGY POLICY OBJECTIVES

Leeds City Council, Department of Housing Services Energy Policy 'Energy 2000' sets out key strategic objectives to the year 2000 for public sector housing in the city. They are:

- I. To seek to secure affordable warmth for low income occupants.
- II. Reduce energy consumption in the public sector housing stock by 15%
- III. Combat the incidence of dampness and condensation.
- IV. Limits the City's public housing stock contribution to the sum of global warming.
- V. Promote the Principals of 'Energy 2000' to private landlords and housing agencies.
- VI. Maximise the use of resources allocated to energy efficient improvements.
- VII. Involve residents in the ongoing development of the departments energy plan.

The 'Energy 2000' core values seek to achieve an increase in the number of warm, dry affordable energy efficient public sector dwellings in the City and limit the housing stock's carbon dioxide burden on the environment.

11.08 ENERGY HEALTH AND AFFORDABLE WARMTH - THE BACKGROUND

I. Hypothermia

The UK suffers from a large number of 'excess winter deaths' in contrast to a much lower numbers in colder European countries. The problem being uniquely British and is believed to be linked to inadequately heated and insulated dwellings. It is estimated that for every 1 degree centigrade (mean) drop in temperature over the winter period an extra 40,000 deaths are likely to occur.

II. Dampness and Condensation

Studies carried out in Scotland link dampness and ill-health. Clear effects on the health of children were found, with a high incidence of respiratory and/or bronchial symptoms. Headaches, diarrhoea, aches and pains were more often reported in these households. Further studies involving mould spores samples being taken indicate that specific symptoms could be directly related to the presence of certain mould spores.

III. Affordable Warmth

A comparatively high proportion of low income households 'total expenditure' is committed to purchasing fuel, more than twice the proportion spent by middle income households, Clearly this place addition financial pressure on these able to afford fuel, and directly contributes to a further deterioration of already difficult to heat homes. Over 8 million households are in fuel poverty in the United Kingdom and live in the most thermally inefficient, cold, draughty homes in Europe. This problem is exacerbated by the application by fuel companies of gas and electricity

token and credit meters in the poorest households, leading to many people living in real and constant fear of self-disconnection of their fuel supply due to a lack of income.

11.09 A PERSONAL CIRCUMSTANCES STATEMENTS

- I. The overall objectives of the Authority is to maintain and enhance Leeds' position as a vibrant city geared to meeting the needs of all the community in terms of economic, social and cultural development whilst protecting the most vulnerable members in society.
- II. The E.C.A. currently operates an Affordable Warmth Policy for public sector housing under the Authority's energy strategy. 'Energy 2000'. This Strategy seeks to achieve affordable warmth for occupants where homes have been identified for improvements through established and recognised energy efficiency and conservation benchmarks. These are:
 - a) **Whole dwelling up-grades** should achieve better than Standard Assessment Procedure **SAP 70 rating**.
 - b) **Partial property improvements** shall progressively take dwellings to better than Standard Assessment Procedure **SAP 55 rating**.
 - c) Designers should seek to secure **affordable heating** for occupants based upon **7% of net mean income** for Benefit level occupants (standard occupancy) [Note: Designers are urged wherever practicable to include domestic hot water charges within the 7% target sum.]
 - d) **Energy 'Worst First' Investment targeting** – Energy Efficient Improvement priority should be given to **dwellings under** the Authority's Public Sector **SAP Mean rating of 37**.

- III. It is the E.C.A.'s intention to offer for consultation and discussion the viability of extending and applying the Authority's affordable warmth standards, in the form of a Code of Practice, to all dwellings in the City, irrespective of tenure. Comments will be sought from range of housing providers and owners, and once consultation has been completed, the E.C.A will issue an amended affordable warmth Code of Practice in its annual returns to the Department of the Environment.
- IV. The E.C.A. will also secure comment and seek review, where appropriate, of all the City Council's strategies having an energy related 'Personal Circumstances' inter-relationships. Strategies identified include:
- The Health Strategy
 - The Strategy for Older People including special needs
 - Green Strategy
 - Housing public and private rented and owner occupier strategies
 - Urban Regeneration Strategy
 - Planning, including the Unitary Development Plan
 - Anti-poverty Strategy
 - Community Care Strategy
 - Homelessness Strategy
 - Voluntary Sector Strategy
 - Empty Property Strategy
 - Housing Association Strategy
 - Housing Associations and Managing Agents (HAMA) Strategy
 - Home Ownership Strategy

The above list is not exhaustive and will also encompass any strategy that is deemed to have the requirement to including personal circumstance statements that seek to assist vulnerable members of the community secure warm, dry, affordable, environmentally protective energy efficient homes in the Leeds district.

The E.C.A. will give feedback regarding strategy amendments in both the end of year returns requested by the Department of the Environment and the **Warm Homes Cool Planet** annual update and review.

SECTION 5

Energy Conservation Plan

ACTION STATEMENTS

(Revised in 2007)

12.00 **WARM HOMES COOL PLANET-ACTION STATEMENTS**

‘Warm Homes Cool Planet’ Leeds Energy Conservation Authority’s (E.C.A) 15 year Energy Efficiency and Conservation Plan for housing in its administrative area. Seeks to outline the actions that the E.C.A considers will facilitate improvements in the energy efficiency of the stock and will discharge its responsibilities under the Home Energy Conservation Act (1995). The Secretary OF State for the Environment has sated in the Home Energy Conservation Act (1995) Guidance Circular 2/96 (3.1) that E.C.A.s will be expected to show strategies that make substantial progress towards a 30 per cent energy efficiency improvement in the housing stock in its administrative area over a 10 year and up to 15 years period. The following energy efficiency related Action Statements have therefore been formulated in compliance with the H.E.C.A. guidance and grouped under the following categories:

- Awareness and promotion (A)
- Monitoring and Evaluation (M)
- Personal circumstances including health and job creation (P)
- Environmental/sustainable energy (E)
- Finance (F)
- All Categories (ALL)

		Category
Action 1	<p><u>Natinal H.E.C.A Lead Officers Forum</u> The E.C.A will establish with others, a national network of local authorities with the aim of generating mutual support for H.E.C.A., including standardised approaches to data gathering, monitoring and evaluation promotion, implementation, application of measures, finance, renewable, environmental protection and corporate strategies.</p>	All
Action 2	<p><u>Housing Forum H.E.C.A. Working Group</u> A working group will be formed as a sub-group of the Leeds City Council Housing forum with the aim of building links with the widest possible range of partners to assist in H.E.C.A. strategy evaluation, implementation and support. Members will be drawn from industry, commerce, the financial sector, fuel utilities, the statutory and voluntary sectors, housing providers, environmental groups, academia, tenant and community groups</p>	All
Action 3	<p><u>Leeds City Council Departmental Lead Officers Forum</u> A cross departmental working group will be formed of lead officers with the aim of establishing and developing a corporate energy strategy to meet H.E.C.A. OBJECTIVES. Officers will disseminate information to departmental section heads and maximise current resource in support of the Warm Homes Cool Planet aims and objectives.</p>	All

		Category																				
Action 4	<p><u>Leeds City Council Department of Housing Services Lead Officers Forum</u></p> <p>A working Group of officers from the Department of Housing Services will be formed with the aim of maximising the use of public sector resource in support of H.E.C.A., the evaluation of future initiatives and funding sources and assistance with data gathering requirements in support of the E.C.A's strategic objectives.</p>	All																				
Action 5	<p><u>Annual E.C.A Targets (Dwellings)</u></p> <p>The E.C.A will seek to promote the need for the application of the following annual measures in the Leeds District cross tenure Housing Stock</p> <table border="0"> <tr> <td>Cylinder jacket provision</td> <td>8,400</td> </tr> <tr> <td>Loft insulation top-up</td> <td>4,800</td> </tr> <tr> <td>Cavity wall insulation installations</td> <td>10,200</td> </tr> <tr> <td>Draught proofing installation</td> <td>9,200</td> </tr> <tr> <td>High efficiency boiler installation</td> <td>11,600</td> </tr> <tr> <td>Whole dwelling double glazing installation</td> <td>6,200</td> </tr> <tr> <td>Energy advice visits/audits/surveys</td> <td>20,000</td> </tr> <tr> <td>Low energy lamps per annum</td> <td>100,200</td> </tr> <tr> <td>Direct energy advice mail shots</td> <td>100,200</td> </tr> <tr> <td>Minimum 2% reduction in Carbon dioxide emission target</td> <td></td> </tr> </table>	Cylinder jacket provision	8,400	Loft insulation top-up	4,800	Cavity wall insulation installations	10,200	Draught proofing installation	9,200	High efficiency boiler installation	11,600	Whole dwelling double glazing installation	6,200	Energy advice visits/audits/surveys	20,000	Low energy lamps per annum	100,200	Direct energy advice mail shots	100,200	Minimum 2% reduction in Carbon dioxide emission target		All
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Action 6	<p><u>Annual Progress of H.E.C.A</u></p> <p>Appendices 1-9 indicate works, funding or advice to be provided by groups bodies, individuals and the Authority in support of the City's H.E.C.A. targets, The headings are as follows:</p> <p>Appendices: -</p> <ol style="list-style-type: none"> 1. Works to be carried out by the Authority on its own stock 2. Works to be carried out by the Authority on other stock 3. Works to be carried out by Housing Associations on their stock. 4. Works to be carried out by other agencies on any stock 5. Works to be carried out by owners/private landlords as a result of advice and encouragement. 6. Grants or loans approved by the Authority. 7. Initiatives to encourage householders to undertake work 8. Initiatives to encourage householders to change behaviour 9. Initiatives to involve other organisational/agencies to 	All																				

	<p>encourage change of behaviour.</p> <p>Subsequent annual H.E.C.A returns will show estimated and actual achievements year on year against the E.C.A.s' target figure under Section 7/14.0</p>	
		Category
Action 7	<p><u>Comprehensive Energy Database and data capture</u></p> <p>To allow the E.C.A to maintain and evaluate the progress of the plan, a comprehensive energy database will be established by the E.C.A.. The database will be designed to offer year on year monitoring of the Plans' progress, and as will be designed to offer the opportunity of data capture on improvements taking place in all housing sectors, thereby maximising the number of 'Auditable Improvements' able to be set against the City's 30% target and thereby enabling the targeting of resources to the areas in most need.</p>	All
Action 8	<p><u>Energy audits public sector housing</u></p> <p>It is expected that a minimum of 5,000 dwellings per annum will be required to be energy surveyed/audited to allow the Authority to refine its current 'Energy 2000' objectives and best use of resources under H.E.C.A. Once completed details will be added to the H.E.C.A. data base</p> <p>Target:5,000 per annum</p>	All
Action 9	<p><u>Private sector energy audits and surveys</u></p> <p>The E.C.A will facilitate the take-up of energy audits/surveys in all housing tenures through promotion to building professionals, financial institutions, mechanical and electrical engineers, fuel companies, landlords and owner occupiers, etc, and via the Leeds Energy and Environment Centre. Data recovery will be sought to enhance the H.E.C.A. database.</p> <p>Target: 14,000 energy surveys/audits per annum.</p>	All
Action 10	<p><u>Housing Association energy audits</u></p> <p>Hosing Associations support will be sought to provide energy audit details on all dwellings up-grades carried out by the Associations. Energy audit information will also be requested from the associations for entry on the H.E.C.A. database. The E.C.A will also seek to assist Housing Associations to secure wherever practicable, external resources in support of H.E.C.A. objectives.</p> <p>Target: 1,000 survey/audits per annum</p>	All
	<p><u>Note:</u> Surveys/audit bodies will be encouraged to collect data to assist in special needs, health, social and financial targeting. Audits will be required to contain data supportive of BREEAM environmental grading of dwellings being applied.</p>	
Action 11	<p><u>Energy profiling</u></p> <p>Energy profiling of the housing stock will be established with annual updates by E.C.A area postal district/ward</p>	All
Action 12	<p><u>Energy Database</u></p> <p>The feasibility of allowing access to the E.C.A. database to authorised users will be assessed with a view to expanding the range of building professional who may be able to add to or supplement energy improvement data collected</p>	A M E
Action 13	<p><u>Special needs support</u></p> <p>The H.E.C.A energy database will be interfaced wherever practicable with information on 'need' to refine and enhance</p>	A P M

	the Authority's targeting of services to older people and people with special needs.	
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		Category
Action 14	<u>Condensation and dampness grading and response</u> To assess the feasibility of interfacing a 3 point condensation grade with the H.E.C.A energy grading structure and identify at risk dwellings and residents.	All
Action 15	<u>Ad-Hoc heating insulation and glazing improvements</u> Established a means of recovering energy related information from installers, building professionals, occupiers, trade outlets, landlords, financial institutions etc. Regarding the number of individual improvements taking pace in the City that are supportive of H.E.C.A. objectives.	M
Action 16	<u>Independent energy grading/surveying</u> Establish a means of recovering energy audit/survey data carried out in the E.C.A.s' area pre-H.E.C.A.. Assess viability of accessing independent energy Audit/survey data from the 1April 1996 carried out in the E.C.A's area.	M
Action 17	<u>Energy Conservation Authority support team</u> The department of Housing Services Energy Unit currently has members of staff dealing with rented sector energy issues. It is crucial therefore working groups (Actions 1 -4) support of database and data gathering (Actions 5-16) and the expansion, promotion and implementing of energy initiatives cross tenure in the City and progress of the fifteen year plan is fulfilled. The Unit will require additional resources to service the increased demands of H.E.C.A..	ALL
Action 18	<u>Energy-Annual Report</u> The E.C.A., further to its duty to respond to the Secretary of State for the Environment will publish annual information on the progress the Plan's aims and objectives under Section 7 of this report	ALL
Action 19	<u>Secretary off State for the Environment-Request of the E.C.A for Assistance</u> The E.C.A. will include within (Appendix 11 of this report) annual updates on the assistance given by the secretary of State in facilitating support for the H.E.C.A. objectives.	ALL
Action 20	<u>Bulk contract provision</u> The E.C.A. shall evaluate the feasibility of providing either as part of a local authority contracts discount rate improvement packages for public and private sector occupants.	A F
Action 21	<u>Service and energy performance contracts</u> Assess the feasibility of establishing service and energy performance contracts to stimulate resource for investment in energy efficiency improvements	ALL
Action 22	<u>Discount product scheme</u> The feasibility of establishing a discounted product scheme will be assessed to offer individuals and small business access to lower cost energy efficient goods and services.	ALL
Action 23	<u>Consortium projects</u> Assess the viability of establishing inter-authority and cross-boundary /city consortium projects in support of H.E.C.A.	ALL

	OBJECTIVES	
Action 24	<u>Fuel company-least cost planning</u> To discuss with fuel utility company representatives the viability of applying a 'least cost planning' ethos to local energy provision in housing to stimulate improvements	ALL
		Category
Action 25	<u>Energy supply company status</u> The E.C.A. shall support the completion of a feasibility study to assess the viability of the E.C.A. providing either through sub-contract, or indirectly , energy purchase and supply on behalf of Leeds residents, including the provision of heating, insulation and glazing measures.	ALL
Action 26	<u>External funding sources</u> The E.C.A. shall with immediate effect will endeavour to secure monies to enhance and support the works under Action 5 . Funding sources currently available are: <ul style="list-style-type: none"> ▪ Yorkshire Electricity ▪ The Energy Saving Trust ▪ The European Union ▪ The Housing Corporation ▪ Energy Action Grants Agency ▪ Others 	F
Action 27	<u>Guarantee Schemes</u> The E.C.A shall discuss with local and national financial institutions and bodies the viability of establishing guarantee schemes designed to bolster market confidences and stimulate energy efficient works, product and service take-up in all housing tenure groups.	F A
Action 28	<u>Rent Link</u> The E.C.A. will evaluate the viability of 'rent linking' to energy improvements based upon 50/50 split in fuel cost savings against inherited rent payments to fund improvements.	F A
Action 29	<u>Rental of products and appliances</u> The E.C.A shall assess the viability of establishing internal and external rental packages for occupants to secure low energy appliances, cookers and lamps.	F A
Action 30	<u>Rent Holidays</u> The E.C.A. shall evaluate 'rent holidays' for council tenants wishing to invest in energy efficiency improvements of their home, 50% paid by the occupant 50% given by the Authority as a rent holiday.	F A
Action 31	<u>Low Energy Zones</u> The E.C.A. shall evaluate the visibility of establishing low energy zones of excellence throughout the City for promotion, targeting of resources and in attracting external finance.	F A E
Action 32	<u>Council Tax Support</u> The E.C.A. shall evaluate the legality of facilitating Council Tax adjustments against energy efficiency improvements in support of H.E.C.A (based upon the improved SAP grade of dwellings).	ALL
Action 33	<u>Credit Union; 'soft loan/low' or skewed interest loans.</u> The E.C.A. shall expose with external financial institutions	F A

	the viability of establishing finance packages designed to support the take-up of improvement measuring under Action 5.	
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		Category
Action 34	<u>Lease Packages</u> The E.C.A. shall explore with external financial institutions and bodies the viability of establishing lease packages to support the take-up of improvement measures under Action 5.	F A
Action 35	<u>Private Sector Finance</u> The E.C.A. shall explore the viability of leveraging private sector finance into the Authority in support of improvements under Action 5.	F A
Action 36	<u>Local Authority Grants and Loans</u> The E.C.A. shall explore the viability and legality of establishing new grants and loans in support of Action 5.	F A
Action 37	<u>Housing Repair Fund</u> Assess the feasibility, through the establishment of a combined housing repair fund via a Friendly Society or similar body to support improvements under Action 5.	ALL
Action 38	<u>Energy Grant Targeting</u> Assess the feasibility of enhancing the Authority's role in HEES block targeting and seek to secure external resources, when available, to be targeted to owners in most need	ALL
Action 39	<u>Health Grants</u> Assess the feasibility, in conjunction with health service providers how best to facilitate energy grants structured to both improve the energy efficiency of a given dwelling, whilst maintaining or enhancing the health of the occupant	F P
Action 40	<u>Discretionary Grants</u> Assess the feasibility of enhancing existing discretionary grants in support of H.E.C.A	F A
Action 41	<u>Grant Block Targeting Scheme</u> Assess the feasibility and benefit of block targeting resources to the areas or neighbourhoods of greatest need	ALL
Action 42	<u>Housing fitness</u> Assess the feasibility of interfacing energy grading with housing fitness assessments	P
Action 43	<u>Energy Planning</u> Assess the feasibility of enhancing local Planning Guidance through a Code of Practice for new build and housing refurbishment in support of H.E.C.A	A P E
Action 44	<u>Affordable Warmth Policies and Personal Circumstances Statements</u> Under 11.09 the E.C.A. will consult fully on the viability of extending 'Energy 2000' Affordable Warmth standards for the Councils own dwellings to the whole of the City's housing stock in the form of a voluntary Code of Practice.	A P
Action 45	<u>Personal Circumstances Policy</u> As discussed under 11.09, the Authorities strategies shall, wherever practicable, encompass 'Personal Circumstances Statements' in support of the H.E.C.A.	P
Action	<u>Winter warmth initiatives</u>	P

46	Initiatives will be assessed that support older people, people with disabilities, those with special needs and families with young children who live in poorly insulated or badly heated homes.	
		Category
Action 47	<u>Fuel poverty initiatives</u> Initiatives will be assessed that support the alleviation of fuel poverty in the E.C.A.s' area	P
Action 48	<u>Community Care Initiatives</u> Initiatives will be assessed to expand energy information and provision through the Community Care infrastructure of Social Services, Health Trusts and Voluntary organisations and to develop policies wherever practicable.	A P
Action 49	<u>Translations service-ethnic minority community support</u> Initiatives will be assessed to provide translation support to all energy information under H.E.C.A..	A P
Action 50	<u>Intersectoral working</u> Initiatives will be assessed to provide improved contact and working between sectors to assist the H.E.C.A. objectives	A P
Action 51	<u>Job creation potential and monitoring</u> Data collection regarding energy related employment will be assessed, including the viability of stimulating employment creation through energy efficiency investment.	A M P
Action 52	<u>Joint Health and Housing Needs Assessment</u> Assess the feasibility of establishing health, housing and benefits needs assessment procedures in support of the Primary Healthcare Strategy for Leeds.	MP
Action 53	<u>Practice profile support</u> Assess the feasibility of supporting the development of GP practice profiles as outlined in the Primary Healthcare Strategy for Leeds.	A P M
Action 54	<u>Advice and Information</u> Assess the viability of providing energy advice and information for occupants, in conjunction with other service providers.	A
Action 55	<u>Energy Advice Network</u> Assess the feasibility of establishing a city support network for energy advice provision and quality assurance.	A P
Action 56	<u>Neighbourhoods heating advisers</u> Assess the viability of establishing a city wide neighbourhoods heating advice scheme and skills training initiatives.	A P
Action 57	<u>Energy awareness-occupants</u> The E.C.A. shall monitor the energy improvement in the housing stock on an annual basis. Energy audits/surveys will also be carried out and information made available to occupants to raise awareness	A M
Action 58	<u>Voluntary and statutory sector information request</u> Assess the viability of providing support to voluntary and statutory sectors to broaden the range of energy advice delivery in the E.C.A's area	A M P
Action 59	<u>Promotion of energy efficiency issues</u> Assess the viability of establishing initiatives to promote energy efficiency throughout the Leeds housing stock shall	ALL

	be assessed.	
Action 60	<u>Stimulate of energy efficiency product marketing</u> Discussion shall take place with the wholesale/retail sector to establish a structure that may assist in the accelerated purchase of low energy products	A F
		Category
Action 61	<u>Initiatives to change behaviour</u> Initiative will be established to stimulate and change perceptions towards energy efficiency take-up	A M E
Action 62	<u>Thermographic Imaging</u> Assess the viability of providing thermo graphic images of occupants' dwellings pre and post improvements, to stimulate product/service take-up and for quality assurance purposes.	A M E
Action 63	<u>Education and Promotion</u> The E.C.A shall promote understanding of energy advice and information, including environmental issues to local schools, colleges and tertiary education establishments.	A E
Action 64	<u>Inter Active Software</u> The E.C.A. shall develop with library services a comprehensive internet software network, accessible at all larger libraries and local authority public offices to provide advice, information and data gathering facilities in support of Action 5/6	A M
Action 65	<u>Energy advice calendar</u> The E,C,A. shall develop sustainable energy advice calendar for residents of Leeds including a survey forms for data gathering under H.E.C.A.	ALL
Action 66	<u>Training and advice</u> The E.C.A. shall establish a training structure to provide a volume energy advice function in the city.	A
Action 67	<u>Council Tax mail-out</u> The E.C.A shall evaluate the viability of utilising Council Tax mailings to provide effective energy advice information delivery mechanisms	A
Action 68	<u>Energy Charter Mark and Merit Scheme</u> Assess the viability of establishing recognition of 'best Practice' in support of H.E.C.A.. Sectors shall include Finance, wholesale/retail product sales, job creation, new technology development, design, refurbishment, CHP and Agenda 21/environmental protection. Merit schemes may include affordable warmth or special needs support initiatives.	A
Action 69	<u>Targeting of dwellings below SAP 37</u> Energy 'Worst First' targeting will be assessed for expansion from council dwellings into all housing tenures, based upon existing local authority 'Energy 200' objectives of targeting dwellings under SAP 37	P E
Action 70	<u>Targeting of dwellings having inefficient and obsolete heating systems and appliances</u> The feasibility of targeting dwellings having inefficient or obsolete heating equipment shall be assessed	P E
Action 71	<u>Targeting of dwellings having poor or inadequate levels of insulation</u> The feasibility of identifying and targeting dwellings having poor or inadequate levels of insulation shall be assessed	P E
Action	<u>Targeting of dwellings having single glazing</u>	P

72	The feasibility of initiatives to stimulate owners to undertake double glazing upgrades of dwellings shall be assessed.	E
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		Category
Action 73	<u>Combined energy packages</u> The feasibility of identifying and targeting dwellings with a package of measures designed for a given generic 'Shell Type' will be assessed.	P E
Action 74	<u>Technical, professional and administrative services</u> The E.C.A. shall evaluate the possibility of the Authority or H.E.C.A. partners providing a technical or administrative function to facilitate greater take-up of energy efficiency improvements.	A M F
Action 75	<u>Codes of Practice</u> Assess the feasibility of establishing Codes of Practice covering energy grading, policy technical standards, products efficiency and service provision for goods and service providers in the E.C.A's area	A M E
Action 76	<u>Leeds City Council Energy Units-Corporate Position</u> Corporate initiatives and measures to address energy efficiency and environmental impact shall in all instances be developed jointly by the Leeds Design Consultancy-Energy Unit., Leeds Energy and Environmental Centre and the Department of Housing Services Energy Unit.	ALL
Action 77	<u>Combined Heat and Power</u> Schemes will be assessed on all local authority estate or block improvements to ascertain whether CHP may be utilised in conjunction with other energy consumers such as schools, sports centres, commerce and industry.	ALL
Action 78	<u>Renewable technology</u> Schemes and technology providing sustainable energy will be assessed for their ability to support H.E.C.A. objectives.	E F
Action 79	<u>Environmental emissions</u> Sulphur Dioxide and oxides of nitrogen levels will be included, wherever practicable, in future H.E.C.A. returns. All schemes will be assessed to limit emissions of environmentally damaging products of combustion or discharge.	M E
Action 80	<u>Energy Interlinking</u> The feasibility of interfacing housing, metropolitan buildings, commerce and industry will be assessed to assist with and facilitate greater take-up of products and services, with particular emphasis on renewable technology and CHP utilisation.	ALL
Action 81	<u>Methane-refuse Site Gas extraction</u> The feasibility of ethane extraction from refuse sites, particularly for CHP plant will be assessed in support of H.E.C.A. objectives.	E
Action 82	<u>Group and District</u> The feasibility of schemes will be assessed for their role in supporting both CHP use and limiting environmental emissions to atmosphere.	E F
Action 83	<u>Appliance Refurbishment Scheme</u> The feasibility of establishing a 'white goods' refurbishment	P E

	scheme will be assessed.	
Action 84	<u>Employment creation scheme</u> The feasibility of the Authority bidding for HEES Network Installer status in the Leeds District will be assessed.	P E
		Category
Action 85	<u>Benchmark Costs</u> Benchmark costs will be published on heating, glazing installation and energy efficiency products on an annual basis to assist in an improved understanding of likely costs and benefit's brought about through energy efficiency improvements	A F
Action 86	<u>Appliance sales</u> Initiatives will be asessed to stimulate greater availability of energy efficient appliances and their purchase by residents	A E
Action 87	<u>DIY insulation and product sales</u> Initiatives will be assessed to stimulate greater take-up of DIY products to enhance energy saving in the home.	A E
Action 88	<u>Mobile Homes</u> Schemes will be assessed to apply measures, both fixed and removable, to achieve 30% energy efficiency improvement in mobile homes	P
Action 89	<u>Dwellings in multiple occupation</u> Schemes will be assessed to apply measures both fixed and removable, to achieve a 30% energy efficiency improvement to dwellings in multiple occupation.	P
Action 90	<u>Houseboats</u> Schemes will be assessed to apply measures to achieve a 30% energy efficiency improvements in this sector	P
Action 91	<u>Fuel bill and energy savings</u> Date collection systems will be assessed to establish the viability of including billing and energy saving data in future annual returns.	P
Action 92	<u>Friends of the Earth CO₂ Targets</u> The E.C.A recognize the need to support the Friends of the Earth carbon dioxide targets and will therefore endeavour to stimulate a greater awareness and understanding of environmental targets for the city.	A E
Action 93	<u>Medium to high cost measures as defined at 1st April 1996</u> The viability of medium to high cost measures, particularly renewable energy provision, both passive and active will be assessed	M F

SECTION 6

*STATISTICAL
BREAKDOWN OF THE
ENERGY RELATED
ELEMENTS OF THE LEEDS
HOUSING STOCK
AS AT 1ST APRIL 1996*

DATA AT 1ST APRIL 1996

13.1 LEEDS HOUSING TOTAL STOCK BY AGE AND BUILT FORM

Number of dwellings in each category

Total Number of dwellings

	Built Form	Detached	Semi	Terrace	Bungalow	Flat	Total
Owner Occupied	Pre 1919	3706	7071	43603	145	683	55208
	1919-1944	6981	33563	8172	3142	1521	53379
	1945-1964	4741	26560	2922	4130	2072	40425
	1965-1980	8361	7012	2556	4989	2769	25687
	Post 1980	4942	2620	1189	2138	1682	12571
Owner Occupied	Total	28731	76826	58442	14544	8727	187270
Local Authority	Pre 1919	37	597	3671	20	548	4873
	1919-1944	44	10929	4676	217	3365	19231
	1945-1964	48	11539	1308	1189	11770	25854
	1965-1980	13	1217	8561	828	13094	23713
	Post 1980	169	1038	491	800	738	3236
Local Authority	Total	311	25320	18707	3054	29515	76907
Private Rented	Pre 1919	936	681	8402	11	4345	14375
	1919-1944	228	1960	1136	44	714	4082
	1945-1964	177	843	324	55	269	1668
	1965-1980	430	317	55	72	582	1456
	Post 1980	580	159	63	39	1230	2071
Private Rented	Total	2351	3960	9980	221	7140	23652
HA/ Others	Pre 1919	12	22	2700	3	1426	4163
	1919-1944	18	68	571	22	102	781
	1945-1964	22	92	248	36	203	601
	1965-1980	26	54	162	25	2344	2611
	Post 1980	16	46	494	196	3763	4515
HA/ Others	Total	94	282	4175	282	7838	12671
All tenures		31487	106388	91304	18101	53220	300500

Section 6/13.0 Statistical Breakdown of the Leeds Housing Stock as at 1st April 1996

HOUSING FITNESS BY AGE AND BUILT FORM AT 1ST APRIL 1996

13.2

Number of dwellings and % of those which are unfit

Fitness													
Built Form	Detached		Semi		Terrace		Bung		Flat		Total		
OO	Pre 1919	3706	3%	7071	10%	43603	23%	145	0%	683	9%	55208	20%
	1919-1944	6981	15%	33563	6%	8172	14%	3142	10%	1521	2%	53379	9%
	1945-1964	4741	14%	26560	22%	2922	16%	4130	4%	2072	3%	40425	18%
	1965-1980	8361	2%	7012	3%	2556	2%	4989	3%	2769	5%	25687	3%
	Post 1980	4942	0%	2620	3%	1189	0%	2138	0%	1682	0%	12571	1%
OO	Total	28731	7%	76826	12%	58442	20%	14544	4%	8727	3%	187270	13%
LA	Pre 1919	37	14%	597	14%	3671	14%	20	14%	548	14%	4873	14%
	1919-1944	44	10%	10929	10%	4676	10%	217	10%	3365	10%	19231	10%
	1945-1964	48	7%	11539	7%	1308	7%	1189	6%	11770	7%	25854	7%
	1965-1980	13	11%	1217	11%	8561	11%	828	11%	13094	11%	23713	11%
	Post 1980	169	0%	1038	0%	491	0%	800	0%	738	0%	3236	0%
LA	Total	311	5%	25320	8%	18707	11%	3054	6%	29515	9%	76907	9%
PR	Pre 1919	936	29%	681	24%	8402	33%	11	14%	4345	32%	14375	32%
	1919-1944	228	0%	1960	39%	1136	32%	44	31%	714	21%	4082	32%
	1945-1964	177	0%	843	26%	324	56%	55	11%	269	57%	1668	34%
	1965-1980	430	0%	317	0%	55	0%	72	0%	582	17%	1456	7%
	Post 1980	580	0%	159	0%	63	0%	39	0%	1230	4%	2071	2%
PR	Total	2351	12%	3960	29%	9980	33%	221	10%	7140	26%	23652	28%
HA	Pre 1919	12	0%	22	89%	2700	8%	3	0%	1426	7%	4163	8%
	1919-1944	18	0%	68	0%	571	16%	22	0%	102	0%	781	12%
	1945-1964	22	0%	92	9%	248	22%	36	0%	203	0%	601	10%
	1965-1980	26	0%	54	0%	162	2%	25	0%	2344	9%	2611	8%
	Post 1980	16	0%	46	0%	494	30%	196	0%	3763	5%	4515	7%
HA	Total	94	0%	282	10%	4175	12%	282	0%	7838	6%	12671	8%
All tenures		31487	7%	106388	11%	91304	11%	18101	5%	53220	10%	300500	13%

DOMESTIC HOT WATER CYLINDER JACKET POTENTIAL BY SECTOR

13.3

Hot Water Tank Insulation

Number of Dwellings with a Hot Water Tank and % of those dwellings with tank insulation

Built Form	Detached	Semi	Terrace	Bung	Flat	Total
OO	Pre 1919	3311 93%	5958 95%	32748 94%	73 100%	42562 94%
	1919-1944	6446 96%	28036 96%	6858 96%	2710 99%	45020 96%
	1945-1964	4494 97%	23568 97%	2622 98%	3911 100%	36277 97%
	1965-1980	8184 99%	6318 99%	2307 98%	4782 99%	24121 98%
	Post 1980	4653 99%	2272 96%	1020 100%	2138 98%	11525 98%
OO	Total	27088 97%	66152 96%	45555 95%	13613 99%	159505 96%
LA	Pre 1919	22 100%	422 92%	1381 93%	7 97%	2030 91%
	1919-1944	30 100%	8503 98%	3771 94%	159 86%	14490 96%
	1945-1964	48 100%	10148 95%	1140 98%	1172 91%	23291 96%
	1965-1980	13 100%	1075 99%	7842 97%	750 97%	20262 96%
	Post 1980	169 100%	1036 100%	462 100%	768 100%	3160 100%
LA	Total	282 100%	21184 97%	14596 96%	2856 95%	63233 96%
PR	Pre 1919	878 98%	629 93%	6260 83%	11 50%	10797 87%
	1919-1944	187 100%	1773 93%	970 88%	40 91%	3546 90%
	1945-1964	181 100%	741 89%	270 82%	49 82%	1453 88%
	1965-1980	428 82%	226 76%	43 92%	73 88%	1300 85%
	Post 1980	580 80%	159 100%	40 100%	39 100%	1939 94%
PR	Total	2255 91%	3527 91%	7584 84%	213 88%	19035 88%
HA	Pre 1919	7 67%	22 82%	2374 90%	3 100%	3607 93%
	1919-1944	18 100%	64 99%	428 96%	23 67%	598 94%
	1945-1964	22 100%	89 98%	193 100%	36 45%	518 92%
	1965-1980	26 100%	54 100%	161 96%	24 85%	2038 96%
	Post 1980	16 100%	46 100%	494 97%	196 77%	3450 91%
HA	Total	89 97%	274 98%	3650 93%	282 73%	10211 93%
All tenures		29714 97%	91137 96%	71384 94%	16964 98%	251984 95%

DRAUGHT PROOFING POTENTIAL BY SECTOR

13.4 Draught proofing

Number of dwellings and % of those with draught proofing (more than 39%)

	Built Form	Detach		Semi		Terrace		Bungalow		Flat		Total	
OO	Pre 1919	3706	56%	7071	53%	43603	50%	145	44%	683	46%	55208	51%
	1919-1944	6981	72%	33563	74%	8172	61%	3142	83%	1521	58%	53379	72%
	1945-1964	4741	80%	26560	80%	2922	68%	4130	86%	2072	60%	40425	79%
	1965-1980	8361	84%	7012	87%	2556	68%	4989	88%	2769	58%	25687	81%
	Post 1980	4942	87%	2620	68%	1189	71%	2138	96%	1682	74%	12571	81%
OO	Total	28731	77%	76826	75%	58442	54%	14544	87%	8727	61%	187270	69%
LA	Pre 1919	37	11%	597	27%	3671	8%	20	17%	548	11%	4873	11%
	1919-1944	44	34%	10929	20%	4676	29%	217	59%	3365	26%	19231	24%
	1945-1964	48	29%	11539	28%	1308	100%	1189	34%	11770	35%	25854	35%
	1965-1980	13	92%	1217	19%	8561	24%	828	26%	13094	20%	23713	22%
	Post 1980	169	6%	1038	14%	491	100%	800	13%	738	23%	3236	28%
LA	Total	311	18%	25320	24%	18707	29%	3054	28%	29515	27%	76907	26%
PR	Pre 1919	936	21%	681	21%	8402	18%	11	0%	4345	31%	14375	22%
	1919-1944	228	59%	1960	53%	1136	21%	44	43%	714	22%	4082	39%
	1945-1964	177	59%	843	43%	324	37%	55	43%	269	28%	1668	41%
	1965-1980	430	48%	317	44%	55	71%	72	34%	582	46%	1456	47%
	Post 1980	580	90%	159	100%	63	0%	39	44%	1230	49%	2071	63%
PR	Total	2351	49%	3960	47%	9980	19%	221	38%	7140	34%	23652	32%
HA	Pre 1919	12	60%	22	0%	2700	31%	3	0%	1426	21%	4263	28%
	1919-1944	18	39%	68	54%	571	48%	22	19%	102	44%	781	47%
	1945-1964	22	72%	92	67%	248	63%	36	31%	203	16%	601	46%
	1965-1980	26	95%	54	27%	162	75%	25	74%	2344	35%	2611	39%
	Post 1980	16	57%	46	65%	494	47%	196	77%	3763	53%	4515	54%
HA	Total	94	68%	282	51%	4175	39%	282	66%	7838	41%	12671	41%
All tenures		31487	75%	106388	62%	91304	44%	18101	76%	53220	35%	300500	54%

DATA AT 1ST APRIL 1996

CAVITY WALL INSULATION POTENTIAL BY SECTOR

13.5

Cavity wall insulation

Number of dwellings with cavity walls and % of those with wall insulation

	Built Form	Detach	%	Semi	%	Terrace	%	Bungalow	%	Flat	%	Total	%
OO	Pre 1919	464	0	2051	7	3027	10	40	0	76	25	5659	8
	1919-1944	5020	18	27918	4	4595	5	2333	23	853	23	40719	7
	1945-1964	2790	16	21378	11	2757	8	3816	33	1893	14	32634	14
	1965-1980	6230	41	5522	14	2433	20	4957	40	2617	16	21760	29
	Post 1980	3532	63	2130	55	1189	45	2138	75	1645	32	10634	57
OO	Total	18036	34	58999	9	14001	13	13285	41	7085	20	111406	18
LA	Pre 1919	20	43	364	21	396	6	7	21	94	0	881	13
	1919-1944	14	0	9807	8	3157	11	210	0	3286	13	16474	9
	1945-1964	48	0	10025	8	1053	2	1172	9	10129	5	22427	6
	1965-1980	11	40	1037	34	5170	53	750	27	11527	22	18495	32
	Post 1980	139	6	818	6	405	12	583	10	670	6	2615	8
LA	Total	232	9	22051	9	10181	31	2722	14	25706	14	60892	15
PR	Pre 1919	20	0	79	0	300	0	0	0	408	0	806	0
	1919-1944	92	0	902	32	427	0	30	53	408	25	1860	22
	1945-1964	165	0	559	0	61	0	52	14	203	0	1040	1
	1965-1980	406	0	287	0	55	100	68	64	459	22	1275	16
	Post 1980	580	77	159	60	61	100	39	100	459	55	1298	69
PR	Total	1262	35	1986	19	904	13	190	56	1937	24	6279	24
HA	Pre 1919	0	0	0	0	419	0	0	0	0	0	419	0
	1919-1944	9	0	42	31	271	23	23	0	0	0	345	22
	1945-1964	22	32	89	21	219	0	36	0	203	50	570	22
	1965-1980	26	38	54	15	149	16	24	0	1731	53	1984	48
	Post 1980	16	57	46	22	494	18	170	72	3462	53	4188	49
HA	Total	73	36	231	22	1552	11	253	48	5396	53	7505	43
All tenures		19603	34	83266	10	26638	20	16449	36	40124	21	186082	18

DATA AT 1ST APRIL 1996

LOFT INSULATION POTENTIAL BY SECTOR (UPGRADE TO 15MM)

13.6

Number of dwellings with access to loft and % of those dwellings with more than 50 mm. insulation

	Built Form	Detached		Semi		Terrace		Bung		Flat		Total	
OO	Pre 1919	3613	74%	6440	73%	37065	70%	113	71%	158	48%	47388	71%
	1919-1944	6516	83%	33169	74%	7739	70%	3006	79%	357	70%	50787	75%
	1945-1964	4462	82%	26244	78%	2917	75%	3955	81%	571	76%	38149	78%
	1965-1980	8082	86%	7012	75%	2556	67%	4853	87%	750	61%	23253	80%
	Post 1980	4942	90%	2602	89%	1189	77%	2138	98%	693	67%	11564	89%
OO Total		27615	84%	75467	76%	51466	70%	14066	85%	2528	66%	171142	76%
LA	Pre 1919	35	35%	518	55%	1414	20%	7	18%	142	18%	2116	29%
	1919-1944	44	93%	10925	51%	4610	46%	217	48%	384	55%	16180	50%
	1945-1964	48	84%	11539	52%	1308	52%	1187	47%	1133	66%	15215	53%
	1965-1980	13	50%	1217	50%	8561	57%	828	73%	1944	69%	12563	59%
	Post 1980	169	99%	1038	60%	491	57%	800	37%	154	63%	2652	55%
LA Total		309	87%	25237	52%	16384	50%	3039	51%	3757	64%	48726	53%
PR	Pre 1919	566	52%	480	36%	6243	44%	11	50%	1048	44%	8347	44%
	1919-1944	187	80%	1841	35%	1075	53%	42	58%	142	3%	3288	42%
	1945-1964	149	78%	767	43%	262	27%	48	47%	25	29%	1250	44%
	1965-1980	383	88%	244	76%	55	41%	55	73%	30	20%	767	77%
	Post 1980	580	93%	159	100%	63	63%	39	100%	191	100%	1032	94%
PR Total		1864	77%	3490	43%	7698	45%	196	67%	1436	47%	14685	49%
HA	Pre 1919	10	100%	20	80%	2467	64%	3	100%	375	20%	2875	59%
	1919-1944	18	64%	67	48%	527	46%	23	49%	2	50%	636	46%
	1945-1964	22	63%	93	70%	227	90%	36	0%	42	84%	420	76%
	1965-1980	26	84%	50	57%	158	64%	24	59%	392	100%	650	86%
	Post 1980	16	100%	38	100%	372	90%	196	100%	1231	79%	1853	84%
HA Total		92	79%	268	67%	3751	66%	282	80%	2042	72%	6434	69%
All tenures		29880	83%	104462	69%	79299	64%	17582	79%	9764	64%	240987	70%

DATA 1ST APRIL 1996

WHOLE DWELLING DOUBLE GLAZING POTENTIAL BY SECTOR

13.7

**Double Glazing
Number of Dwellings and % of those with double glazing**

Built Form	Detached	Semi	Terrace	Bung	Flat	Total							
Owner Occupied	Pre 1919	3706	25%	7071	19%	43603	21%	145	44%	683	13%	55208	21%
	1919-1944	6981	32%	33563	37%	8172	30%	3142	49%	1521	29%	53379	36%
	1945-1964	4741	46%	26560	48%	2922	37%	4130	56%	2072	41%	40425	48%
	1965-1980	8361	55%	7012	52%	2556	36%	4989	58%	2769	35%	25687	51%
	Post 1980	4942	64%	2620	45%	1189	42%	2138	79%	1682	36%	12571	56%
Owner Occupied	Total	28731	45%	76826	41%	58442	24%	14544	58%	8727	34%	187270	37%
Local Authority	Pre 1919	37	0%	597	7%	3671	11%	20	11%	548	12%	4873	11%
	1919-1944	44	7%	10929	21%	4676	16%	217	20%	3365	37%	19231	23%
	1945-1964	48	24%	11539	16%	1308	21%	1189	27%	11770	23%	25854	20%
	1965-1980	13	0%	1217	10%	8561	5%	828	59%	13094	17%	23713	14%
	Post 1980	169	7%	1038	7%	491	29%	800	50%	738	0%	3236	19%
Local Authority	Total	311	9%	25320	17%	18707	11%	3054	41%	29515	21%	76907	18%
Private Rented	Pre 1919	936	8%	681	4%	8402	4%	11	0%	4345	9%	14375	6%
	1919-1944	228	42%	1960	18%	1136	7%	44	0%	714	12%	4082	15%
	1945-1964	177	32%	843	32%	324	16%	55	0%	269	13%	1668	25%
	1965-1980	430	32%	317	36%	55	20%	72	0%	582	30%	1456	30%
	Post 1980	580	77%	159	60%	63	0%	39	44%	1230	13%	2071	35%
Private Rented	Total	2351	35%	3960	22%	9980	5%	221	8%	7140	12%	23652	13%
HA/ Others	Pre 1919	12	0%	22	0%	2700	14%	3	0%	1426	0%	4163	9%
	1919-1944	18	7%	68	36%	571	11%	22	9%	102	9%	781	13%
	1945-1964	22	29%	92	48%	248	0%	36	16%	203	6%	601	11%
	1965-1980	26	16%	54	4%	162	44%	25	74%	2344	11%	2611	14%
	Post 1980	16	57%	46	52%	494	36%	196	77%	3763	40%	4515	41%
HA/ Others	Total	94	22%	282	34%	4175	16%	282	63%	7838	23%	12671	22%
All tenures		31487	44%	106388	35%	91304	19%	18101	55%	53220	22%	300500	30%

DATA AT 1ST APRIL 1996

HEATING SYSTEMS POTENTIAL FOR UPGRADE BY AGE/EFFICIENCY

13.8

Double Glazing

Number of Dwellings and % of those with heating systems that would benefit from being upgraded

	Built Form	Detached	Semi	Terrace	Bung	Flat	Total						
OO	Pre 1919	3706	51%	7071	46%	43603	53%	145	73%	683	48%	55208	52%
	1919-1944	6981	44%	33563	62%	8172	76%	3142	23%	1521	17%	53379	58%
	1945-1964	4741	64%	26560	64%	2922	58%	4130	21%	2072	14%	40425	57%
	1965-1980	8361	79%	7012	38%	2556	67%	4989	32%	2769	41%	25687	53%
	Post 1980	4942	37%	2620	32%	1189	25%	2138	41%	1682	13%	12571	32%
OO	Total	28731	57%	76826	58%	58442	56%	14544	28%	8727	25%	187270	53%
LA	Pre 1919	37	70%	597	97%	3671	98%	20	50%	548	95%	4873	97%
	1919-1944	44	16%	10929	91%	4676	91%	217	70%	3365	97%	19231	92%
	1945-1964	48	98%	11539	72%	1308	95%	1189	73%	11770	81%	25854	78%
	1965-1980	13	85%	1217	49%	8561	67%	828	60%	13094	68%	23713	66%
	Post 1980	169	81%	1038	42%	491	81%	800	82%	738	64%	3236	65%
LA	Total	311	73%	25320	79%	18707	82%	3054	71%	29515	77%	76907	78%
PR	Pre 1919	936	49%	681	80%	8402	48%	11	50%	4345	36%	14375	46%
	1919-1944	228	33%	1960	28%	1136	95%	44	9%	714	55%	4082	51%
	1945-1964	177	26%	843	89%	324	32%	55	12%	269	53%	1668	63%
	1965-1980	430	89%	317	14%	55	0%	72	24%	582	19%	1456	38%
	Post 1980	580	0%	159	27%	63	45%	39	19%	1230	68%	2071	44%
PR	Total	2351	41%	3960	49%	9980	52%	221	18%	7140	43%	23652	47%
HA	Pre 1919	12	0%	22	49%	2700	19%	3	0%	1426	28%	4163	22%
	1919-1944	18	18%	68	69%	571	37%	22	10%	102	23%	781	37%
	1945-1964	22	28%	92	54%	248	46%	36	16%	203	47%	601	45%
	1965-1980	26	39%	54	46%	162	7%	25	0%	2344	7%	2611	8%
	Post 1980	16	100%	46	0%	494	6%	196	0%	3763	9%	4515	8%
HA	Total	94	38%	282	47%	4175	21%	282	3%	7838	13%	12671	16%
All tenures		31487	56%	106388	62%	91304	59%	18101	35%	53220	54%	300500	58%

SECTION 7

*Annual Updates
Energy Plan Progress
Statistical Analysis*

1997 – 2011

14.00 ANNUAL REPORT

14.01 ANNUAL UPDATE

Updates on the progress achieved through the application of measures facilitated through the H.E.C.A. in the Leeds District will be added to this section annually. Data will be available up to and including the year 2011 on request from the E.C.A.

14.02 DATA FIELDS

It is intended that if and when available the E.C.A. will provide annually by 31st October each year up to 2011 the following data:

- i. Population trends
- ii. Housing stock by age, build form and tenure
- iii. House condition updates
- iv. Wherever practicable: -
 - heating and domestic water installation upgrades
 - insulation installations (both loft and cavity)
 - glazing installations (whole dwelling)
 - draught-proofing installations
 - new technology installations
- v. New initiatives involving Combined Heat and Power and shared energy sites
- vi. Energy advice visits / surgeries / events / mobile / office based / audits / surveys
- vii. Leaflet volume
- viii. Percentage increase/decrease in sales of: -
 - low energy refrigeration
 - ECO label goods
 - low energy lamps
 - DIY insulation products
- ix. The total energy saved in that year after improvement
- x. The total **CO₂** saved in that year after improvement
- xi. Cost of measures
- xii. Resources shortfall
- xiii. SAP ratings

- xiv. Environmental indicators
- xv. Health indicators
- xvi. Job creation indicators
- xvii. Grants and loans provided
- xviii. Finance arrangements
- xix. Organisations assisting the E.C.A.
- xx. Support and encouragement from the Secretary of State for the Environment (**see Appendix 11**)
- xxi. Annual summary report
- xxii. Amendments to the H.E.C.A. Plan or legislation
- xxiii. Miscellaneous elements

14.03 REPORT ACCESS

Reports and annual update will be available for public viewing at all Leeds City Council main libraries, Neighbourhood Housing Offices and 'One Stop Shops'.

14.04 CHARGES

At the discretion of the E.C.A. a nominal charge may be requested for reports and data.

14.05 CONTACT WITH THE E.C.A.

The Energy Conversation Authority can be contacted at the following address:

***The Energy Conservation Authority,
Leeds City Council,
Department of Housing Services,
Selectapost 12, Thoresby House,
2A, Great George Street,
Leeds LS2 8BB***

Contact : Principal Energy Officer – Alan Jones

Please Note: To assist in the efficient operation of the E.C.A. company representatives will only be seen in the first instance via postal contact to secure an appointment.

APPENDICES

1. Works to be carried out by the Authority on its own stock.
2. Works to be carried out or funded by the Authority on other stock.
3. Works to be carried out by Housing Associations on their stock.
4. Works to be carried out by other agencies on any stock.
5. Works to be carried out by owners/private landlords as a result of advice and encouragement.
6. Grants or loans to be given by the Authority.
7. Initiatives to encourage householders to undertake work.
8. Initiatives to encourage householders to change behaviour.
9. Initiatives to involve other organisations/agencies in encouraging change of behaviour.
10. Businesses, groups, organisations, Local Authority departments and individuals consulted or involved with H.E.C.A.
11. Requests to the Secretary of State for the Environment to support or encourage others to assist the E.C.A. to achieve H.E.C.A. objectives.
12. Department of the Environment summary index.

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	New central heating system installation to include cavity wall and roof insulation to latest standards.	1 (1996) 2 (1996)	Estimated Number: 1355 Estimated Number: 1200	Property Services
2	Cavity wall insulation installed on wall tie replacement.	1 (1996)	Estimated Number: 186 Estimated Number: 175	Property Services
3	Dry lining utilised on improvement works.	1 (1996)	Estimated Number: not available	Property Services
4	Cellar improvement works to include ceiling insulation.	1 (1996)	Estimated Number: not available	Property Services
5	On boiler replacements with gravity primaries a pumped system is installed.	1 (1996)	Estimated Number: not available	Property Services
6	On heating installations T.R.V.'s are installed along with primary heating control such as Y plan.	1 (1996)	Estimated Number: 303	Property Services
7	Yearly – all gas appliances serviced, gas pressure and flues checked.	1 (1996)	Estimated Number: 60000	Property Services
8	On void and service work all visible pipe work/cylinder insulation is checked and re-secured and any missing replaced.	1 (1996)	Estimated Number of dwellings: 7000	Property Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
9	Replace failed single glazed windows in the prior to paint programme – with PVCu, double glazed units.	1 (1996) 2	Estimated number of windows: 1708 and : 4594 Target: 1200	Property Services
10	External doors, when replaced, are renewed with units comprising high performance door panels, double glazed lights, and draught stripping.	1 1 2	Estimated Number: 2000 : 400 : 400 per annum	Property Services Development
11	All floor replacements completed with insulated slabs.	1 (1996)	Estimated Number: not available	Property Services
12	Buildings in multiple occupation heating control upgrades.	1-3 (1996)	To be determined	Property Services
13	On sheltered boiler replacement high performance units are installed along with suitable controls i.e. Optimum Start Compensation Sequencing	1-3 (1996)	2 per annum	Property Services
14	Building Management Systems to be installed when new plant is added.	1-3 (1996)	Estimated Number: 2 per annum	Property Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
15	All commercial boilers in BIMOS serviced annually including efficiency checks.	1 (1996)	Estimated number: 44 per annum	Property Services
16	Programmed use of high efficiency boilers on replacements.	3 (1996)	Capital cost implications set against benefit to be determined	Property Services
17	Provide more detailed energy advice following servicing as well as product literature.	1	To be determined	Property Services
18	Establish ventilation policy including advice.	3	To be determined	Property Services
19	Establish bench mark efficiency for appliance specification.	1/2	To be determined	Property Services
20	On new electrical installation low energy lamps to be provided (domestic).	1-3	To be determined	Property Services
21	In BIMOS lamp replacement for low energy version	1	To be determined	Property Services
22	On cylinder replacement in electrical properties pre-insulated E7 cylinder will be provided.	1	Estimated Number: not available	Property Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
23	On re-roofing roof insulation to be installed to current regulation.	1 (1996)	Estimated number: 350 Target : 1020 Target : 980	Property Services Development
24	Phased introduction of domestic boiler replacement in programme every year.	1997/98 2	To be determined	Property Services
25	Introduction of standard systems to match dwelling type and therefore improve efficiency.	2	To be determined	Property Services
26	Insulation and draught proofing social services buildings in multiple occupation through HEES/BIMO Grant Scheme.	1996 (1)	No. of Sites Data provided No. of Individual Units: Data provided	LDC Energy Unit on behalf of Social Services
27	Insulation and Draught proofing of Residential Care Homes.	Commence (1) 1996	No. of Sites Data provided No. of Individual Units: Data provided	LDC Energy Unit on behalf of Social Services
28	Establish Energy Good Housekeeping Plan for Buildings in Multiple Occupation and implement.	2	No. of Hostels Data provided	Housing Homeless and Advisory Services
29	Request assessment of insulation and heating improvements to Hostels including cost implications.	2/3	No. of Hostels Data provided	Housing Homeless and Advisory Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
30	Ensure energy efficiency is included in all refurbishment schemes for BIMOS and individual special needs accommodation.	1	Brett Gardens Shaftesbury House	Housing Homeless and Advisory Services
31	Assess/review services charge structure for both voluntary and statutory sector housing to promote the efficient use of energy.	3	To be determined	Housing Homeless and Advisory Services
32	Establish energy monitoring to hostels and BIMOs.	2	To be determined	Housing Homeless and Advisory Services
(Above SAP 70)				
33	Housing improvement Belle Isle North SBN3 Conversion of elderly persons units and supported living including warden and guest accommodation.	1996/97	Target : 24 units Target : 10 units	Development
34	TBN6	1997/8	Target : 100 units	Development
35	Gipton South housing improvements	1996/97	Target : 127 units	Development
	TGS4	1996/97	Target : 79 units	
	TGS5	1996/97	Target : 101 units	
	TGS6			
36	Halton Moor estate housing improvements	1996/97	Target : 87 units	Development
	THM4	1997/98	Target : not available	
	THM5			

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
37	Ebor Gardens Estate housing improvements		(Above SAP 70)	
	TEG 05	1996/97	Target : 109 units	Development
	TEG 06	1996/97	Target : 74 units	
	TEG 08	1996/97	Target : 120 units	
	TEG 10	1996/97	Target : 98 units	
	TEG 11	1997/98	Target : Estimate 152 units	
	TEG 12	1997/98	Target : Not available	
38	Saxton Garden Estate/East Bank high rise refurbishment and group heating/C.H.P. New build (Housing Association)	2	Target: Estimate 448(Heating released for feasibility study) Target: Not available	Development
39	Re-roofing multi-storey blocks.	1 2	Phase 1: 74 units Target : 3 blocks Target : 3 blocks per annum	Development
40	Anti Damp Programme (ROKER)	1 2	Target : 25 units Target : 743 units Target : 840 units	Property Services Development
41	Lift replacement	1 2	Target : 6 Blocks Target : 10 lifts Target : 10 per annum	Property Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont

Ref No	Measure of Service provided	Target Timescale	Date	Comments	Organisation supporting action
42	Asbestos removal and refurbishment.	1		Target : 29 units	Property Services
43	Fuel Savers – Livett – Cartwright dwellings	1		Target : 16 units	Property Services
		2		Target : 20 units	Property Services
44	Fuel Savers – Under insulated homes- low rise	1		Target : 450 units	Property Services
		2		Target : 450 units	Property Services
45	Fuel Savers – Wimpey No-fines 3 storey walk up blocks	1		Target : 38 units	Property Services
46	Fuel Savers – Void enhancement	1		Target : 10 units	Property Services
47	Fuel Savers – HEES block targeting	1		Target : 5800 units	Property Services
		2		Target : 5200 units	
48	Greenthorpe enveloping		1996/97	Target : 35 units	Development
49	Morley enveloping		1997/98	Target : 55 units	Development
50	Sandford internals		1997/98	Target : 29 units	Development

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY THE AUTHORITY ON ITS OWN STOCK

Appendix 1 cont.

Ref No	Measure of Service provided	Target Timescale	Date	Comments	Organisation supporting action
51	Greenthorpe externals	1997/98		Target : 60 units	Development
52	Middleton externals	1997/98		Target : 50 units	Development
53	Multi storey remedial programme	1996/97 1997/98		Target : 3 Blocks - 300 units Target : 10 Blocks - 488 units	Housing Services
54	Remedial structural repairs	1996/97 1997/98		Target : 1139 units Target : 750 units	Housing Services
55	Adaptations for the elderly	1996/97		Target : 1 Block - 100 units	Development
56	Cottage flat conversions	1996/97 2		Target : 9 Target : 12	Development
57	Maisonette adaptation	1996/97		Target : 8	Development

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT OR FUNDED BY THE AUTHORITY ON OTHER STOCK

Appendix 2

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	30 Neighbourhood Community Care Schemes covering 7000 elderly persons providing advice and assistance with draught-proofing, low energy lighting, thermal lined curtains, bedding and clothing and the provision of fuel grants.	1	Annual Cost £850,000 Target: 7000 occupants	Department of Social Services
2	Identify energy 'Worst First' specific house types requiring improvements based upon the House condition survey dates, covering 60,000 Urban Renewal Area dwellings.	1	Discretionary energy grants targeted at Urban Renewal Areas. Energy Target: S.A.P.55	Housing Services Urban Renewal
3	Provide low energy lamps to hostel clients	2	Estimated Number of Lamps per annum: to be determined	Single Strategy
	Landlords obligation to safety	1	Target: 12 units	Property Services
	Airey stabilisation		Further : 463	
	Lindsey Parkinson Crosswall underpinning	1	Target 15 Estimated Number: 175	Property Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY HOUSING ASSOCIATIONS ON THEIR OWN STOCK

Appendix 3

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	L.F.H.A. Install sealed unit double glazing (cost £2 - 5000 per house)	1	Wish to work with the E.C.A. on future project/initiatives. Works carried out to approx 30 units per annum. Mainly back to backs and through terrace pre 1919.	Leeds Federated Housing Association (L.F.H.A.)
2	Dry lining external walls with styro foam backed plasterboard (cost £700 - 1200 per house)	1	Works carried out to approx 30 units per annum. Mainly back to backs and through terrace pre 1919.	L.F.H.A.
3	Install 'passivent' an intelligent passive ventilation system (cost £650 – 800 per house)	1	As above.	L.F.H.A.
4	Replace stone flag floors with suspended timber (cost £200 – 400 per house)	2	It is hoped to continue this work in the near future until all pre 1919 housing stock is brought up to standard	L.F.H.A.
5	200mm of roof insulation (cost £600 per house)		As above.	L.F.H.A.
6	Draught proofing external doors/or replacement of external doors if in poor condition (£100 – 350 per house)		As above.	L.F.H.A.

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY HOUSING ASSOCIATIONS ON THEIR OWN STOCK

Appendix 3 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
7	Upgrade central heating system to fit new radiators/boiler (cost £1 - 3000 per house)	3	These works are funded by Housing Corporation Major Repairs funding to a large extent, this may not be available in the future. Target number: not available	L.F.H.A.
8	N.B.H.A. The Association currently provides new build housing to NHER 8/SAPs 80/85 and would continue to do so.	1	Not included under HECA at present but noted. Number of dwellings in 1996: target not available	N.B.H.A.
9	Future improvements would include more sensitive heating controls, use of 'K' glass, further use of multipoint water heaters.	1 1998/99	Number of dwellings : target not available	N.B.H.A.
10	Possible future installation of gas condensing boiler systems.	3	Number of dwellings: Target 2000	N.B.H.A.
11	Major repairs to (timber frame houses/flats) to include: Upgrading loft insulation, double glazed windows (possible use of 'K' glass), high efficiency boilers with improved controls of central heating systems		Number of dwellings: Target 91	N.B.H.A.

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY HOUSING ASSOCIATIONS ON THEIR OWN STOCK

Appendix 3 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
13	R.H.A. Energy policy in place with a commitment to review energy efficiency improvements and advice delivery.	1	493 dwellings brought up to stock average SAP53	Ridings Housing Association
14	Staff training	2	Seek to achieve better than SAP60 (mean) 15% CO ₂ reduction 13.4% heating cost downturn.	
15	A.T. Energy policy ongoing	1	Target CO ₂ and running cost reductions High SAP Targets	Anchor Trust
16	W.S.T. Energy policy ongoing	1	Target: NHER 5 to 7 (refurb) NHER 8.5 (new build) Affordable Warmth under £8 per week	William Sutton Trust

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY OTHER AGENCIES ON ANY STOCK

Appendix 4

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Completion of re-glazing to bed spaces (50% complete) at Lupton flats (BIMO) with PVCu double glazed replacement windows.	2	No. of units : 320 N. of units : Target 640 No. of units per annum : Target 64 Completion date: year 2000	University of Leeds
2	Draw up a scheme to fit new PVCu double glazed windows to student bed spaces at James Brillie flats (BIMO)	3	Number of units : target 440	University of Leeds
3	Energy strategy in place.	1	10% reduction in energy costs by late 1997	St Annes Shelter and Housing Action (SAS+HA)
4	Staff training.	2/3	To be determined	SAS+HA
5	Advice, information and staff newsletter.	1	Circulation 1000 copies	SAS+HA
6	Environmental action guide and transport information.	3	Circulation to all dwellings	SAS+HA
7	Increased loft insulation.	2/3	10 dwellings per year	SAS+HA
8	High efficiency heating systems	2	10 dwellings per year	SAS+HA
9	Controls upgrade.	2	10 dwellings per year	SAS+HA
10	Passivent installation	2/3	2 dwellings per year	SAS+HA

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

WORKS TO BE CARRIED OUT BY OWNER/PRIVATE LANDLORD

Appendix 5

AS A RESULT OF ADVICE AND ENCOURAGEMENT

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Provide information to landlords on most appropriate heating for low income households.	2	Estimated number of landlord contacts per annum : to be determined	Housing Homeless and Advisory Services
2	Lease management schemes include additional clauses covering improvements and advice.	2	To be determined	Housing Homeless and Advisory Services
3	Lease/private housing management schemes funding arrangement to support energy efficiency.	2	To be determined	Housing Homeless and Advisory Services
4	Promote energy efficiency when renovation grant surveys are undertaken and provide information.	1	Estimated dwellings/Contacts in 1996/97 : 3500	Housing Homeless and Advisory Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

GRANTS AND LOANS TO BE GIVEN BY AUTHORITY

Appendix 6

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Highway Noise Insulation Scheme Secondary glazing and loft insulation	1 3	Number to be completed : 87 dwellings (Grants to continue) Dwellings as identified	Department of Highways and Transport Department of Highways and Transport
2	To provide energy efficiency grants to achieve better than SAP 55 in pre 1919 dwellings.	1	Estimated Number 1996/97 : 100 Estimated Number 1997/98 : 100	Housing Services Urban Renewal
3	Disabled Facilities Grants to include energy efficiency elements.	1	Estimated number of dwellings 1996/97 : 766	Housing Services Urban Renewal
4	Grant assistance for minor works, renovation and homes in multiple occupation to include energy efficiency elements.	1	Number 1996/97 HMO: 17 Minor works: 322 Renovation: 565	

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO ENCOURAGE HOUSEHOLDERS TO UNDERTAKE WORK

Appendix 7

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Display of leaflets and posters in the public areas of all offices.	1/2/3	Number of public outlets :5 Public throughput: 5000 per week Leaflet numbers: to be determined	The Benefits Agency
2	Energy saving grants for cavity wall insulation, loft insulation and low energy lamps available to low income owner occupiers whose main source of heating is an electric system.	1	Number of grants: (Not available)	Yorkshire Electricity
3	Information delivery via Building Regulations approval process for new, refurbished and altered dwellings.	3	Number of clients receiving information: 1996 estimate : to be determined	Department of Planning
4	Provision of advice and information to tenants of residential accommodation managed by the agency.	2	Number of clients receiving information: 1996 estimate	Leeds Development Agency
5	Distribute energy saving information leaflets at 'One Stop Service' sites.	1/2	Number of public outlets: 3	CB&R Advice and Benefits
6	Highlight access to grants to fund energy saving work e.g. Home Energy Efficiency Scheme.		Number HEES leaflet: not available HEES Face to Face Advice: Estimate not available	CB&R Advice and Benefits

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO ENCOURAGE HOUSEHOLDERS TO CHANGE BEHAVIOUR

Appendix 8

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Low energy lamp initiative. To provide 18,000 free low energy lamps to the elderly and disabled and persons on low income. 2 lamps per household.	1 To complete 1996	Number of dwellings+ : target 9,000 (2 lamps per dwelling)	Department of Housing Energy Unit in liaison with Social Services Voluntary Sector, Elderly Aid teams and Tenant Groups – Supported by Yorkshire Electricity SOP Scheme
2	Promote employee awareness at organisations visited with the provision of D.O.E. literature related to domestic dwellings.	1	Number Companies visited in 1996: (to be determined) Number of leaflets distributed: (to be determined)	Regional Energy Efficiency Office
3	Provision of energy related advice to vulnerable people in the community, receiving day care and home care. Also young people leaving care schemes and other people receiving visits from occupational therapists, sheltered housing wardens and welfare benefit advisers.	2	Number of houses visited: target 17000 Number of day care clients: Estimate 3500 Number of individual visits 1996: to be determined Number of staff already trained to give energy advice: not available Number of staff available to be trained: to be determined	Department of Social Services

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO ENCOURAGE HOUSEHOLDERS TO CHANGE BEHAVIOUR

Appendix 8 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
4	Undertake the analysis of postal energy surveys and provide appropriate advice by return.	1	Approx 3,500 surveys per annum	Leeds Energy and Environment Centre
5	Provide training in energy related matters to Environmental Health Officers within the Environment Department.	3	Number to be trained: Estimate 20	Leeds Energy and Environment Centre
6	Provide training on energy advice to Social Services to enable e.g. home helps to offer advice on the operation of heating systems.	2	Number to be trained: Estimate 20	Leeds Energy and Environment Centre
7	Promote HEES grants.	1	Number of telephone referrals: estimate 500 per annum Number of leaflets provided: estimate 500 per annum	Leeds Energy and Environment Centre
8	Provide energy and environmental related information from the energy advice centre to: Employer Local groups and individual members of the public	1	No. of clients: estimate 1000 per year No. of leaflets provided : estimate 40000 per year Excluding 3500 survey completions under 8/4 and advice under 9/6	

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO ENCOURAGE HOUSEHOLDERS TO CHANGE BEHAVIOUR

Appendix 8 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
9	On new occupancy of local authority dwellings occupants are given advice by LA or LA appointed staff.	1	Estimated number of visits: 7000	Housing/Property Services
10	Provide advice to hostel occupants.	1/2	Estimated number of clients per annum: to be determined	Housing Homeless and Advisory Services
11	Provide leaflets/guides to hostel occupants.	1/2	Estimated number of clients per annum: to be determined Estimated number of leaflets per annum: to be determined	Housing Homeless and Advisory Services
12	Provide HEES Grant advice to hostel clients.	1	Estimated number of clients per annum: to be determined	Housing Homeless and Advisory Services
13	Train all front line staff in energy efficiency and advice.	1	Staff trained : 53 Staff to be trained 1996/97 : 6 1997/98:6	Housing Services Urban Renewal
14	Provide detailed energy information to the public.	2	Number of public outlets: 5	Housing Services Urban Renewal
15	Maintain a programme of energy efficiency through grant assistance.	1	To continue pending future resource requirements and review	Housing Services Urban Renewal

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO ENCOURAGE HOUSEHOLDERS TO CHANGE BEHAVIOUR

Appendix 8 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
16	Home visits to include energy advice and guides.	2	To be assessed	Housing Services/Money Advice Team/Private Sector Team (HS/MAT/PST)
17	Repair visits to include referral to Environmental Health Officers for full survey and energy guide.	2	To be assessed	HS/MAT/PST
18	Debt counselling to include energy advice.	2	To be assessed	HS/MAT/PST
19	Counter visitors to have energy advice service highlighted to them; staff training to include energy advice elements.	1	To be assessed	HS/MAT/PST
20	Energy policy including energy advice.	2	Energy advice/staff training/HEES grant targeting	William Sutton Trust

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN *Appendix 9*
ENCOURAGING CHANGES IN BEHAVIOUR

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
1	Social Housing Programme offering a package of measures for energy efficiency improvements in electrically heated housing.	1	Local Authorities and Housing Associations have been invited to bid for funding until March 1997	Yorkshire Electricity
2	Light Against Crime scheme offering low energy lamps at a discount price.	1	Members of Neighbourhood Watch Schemes eligible to purchase 2 low energy lamps for £7.45	Yorkshire Electricity
3	Replacement of existing GLS luminaries in communal areas of mulgti-residential buildings with vandal-proof Bulkhead fittings using low energy lamps.	1	Funding available to local authorities and housing associations until March 1997	Yorkshire Electricity
4	Partnership working to improve access to information.	1	Promote energy saving particularly to older people. Number: to be determined	CB&R Advice and Benefits
5	Leeds Energy and Environment Centre (LEEC) to undertake business advice surveys with domestic knock-on.	1	Number: estimate 100 per annum	Leeds Energy & Environment Centre
6	Provide energy related advice to people visiting the LEEC for small business information when domestic energy information can be imparted.	1	Number: Excluding 8/4, 8/8 clients: 150 per annum	Leeds Energy & Environment Centre

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (futur

**INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN
ENCOURAGING CHANGES IN BEHAVIOUR**

Appendix 9 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
7	Promote energy conservation issues via the Leeds Environment City Initiative.	1	Ongoing	Leeds Energy & Environment Centre
8	Provide links with local schools and colleges promoting energy conservation.	2	12 visits per annum (Mobile Unit)	Leeds Energy & Environment Centre
9	Gather information via Estate Action process.	3	Data base requirement	Department of Planning
10	Address energy related matter in the SRB process.	3	Support Housing Services	Department of Planning
11	Gather and disseminate energy related information via the building control site inspection process.	3	Number clients per annum : Estimate not available	Department of Planning
12	Use the Planning and Building Centre's exhibition and public area for display purposes.	3	Number of leaflets provided: Estimate not available	Department of Planning
13	Consider potential of database within GIS framework.	3	Discuss with Housing Services	Department of Planning
14	Consider aims of HECA in UDP process.	3	Discuss with Housing Services	Department of Planning
15	Dissemination of information on energy conservation to developers, architects, funders and construction companies in relation to residential development.		Discuss with ECA	Leeds Development Agency

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

**INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN
ENCOURAGING CHANGES IN BEHAVIOUR**

Appendix 9 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
16	Make purchasers of land for residential development aware of the requirement to reduce energy consumption of any subsequent residential development.	2	Discuss with ECA 12 visits per annum (Mobile Unit)	Leeds Development Agency
17	Undertake pro-active business development work with companies operating in the supply and installation of energy efficiency measures.	2	Pending approval by LDA Senior Management team : to be determined	Leeds Development Agency
18	Consider the potential for energy supply facilities in new commercial developments or for commercial premises to contribute to efficiency measures in residential areas.	3	Pending approval by LDA Senior Management team : to be determined	Leeds Development Agency
19	Undertake visits providing energy related advice.	1	350 per year	Care and Repair
19a	Provide advice to contractors.	1	20 per year	Care and Repair
20	Utilise the fully automatic local meteorological station which provides and records vertical profile data on wind speed, direction and temperature, relative humidity etc., to provide information as requested. (CO ₂ SO ₂ NO _x)	7 1	Installed June 1996 Data to be made available to E.C.A. for benchmarking	Department of Highways and Transportation

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

**INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN
ENCOURAGING CHANGES IN BEHAVIOUR**

Appendix 9 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
21	Provide energy advice leaflets.	1	Number of leaflets : 2000	Care and Repair
22	Inform landlords regarding energy efficiency benefits.	2	To be assessed	Housing Services/Money Advice Team/Private Sector Team (HS/MAT/PST)
23	Promote energy efficiency to other organisations.	2	To be assessed	HS/MAT/PST
24	Posters and leaflets in all public outlets.	2/3	Outlets: 5 (See App 7.1)	Leeds Benefit Agency
25	HEES posters and leaflets in all public outlets.	1	Outlets: Not available (See App 7.1) Customer volume: 500 per week	Leeds Benefit Agency
26	Change corporate stance in support of H.E.C.A.	2	Position to be determined, possibly around environmental and cost benefits	Nationwide Building Society
27	Assess viability of providing data on low energy appliance sales and E..O. labelled products.	2	To be determined	Dixon Store Group
28	Assess supporting the E.C.A.'s plan.	2	To be determined	Dixon Store Group

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

**INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN
ENCOURAGING CHANGES IN BEHAVIOUR**

Appendix 9 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
29	All valuation surveys to include offer fro energy audits.	1	To be informed	Britannia
30	Energy policy to be reviewed.	2	To be determined	(Building Society)
31	All valuation surveys to include offer fro energy audits.	1	To be informed	Yorkshire Building Society
32	Energy information disseminated in both primary and core health care settings.	2	To be determined	Leeds Health Authority
33	Energy policy to be implemented.	2	Would like to work closely with E.C.A. in support of H.E.C.A.	Leeds Jewish Housing Association
34	Provide data on insulation sales by volume, secondary glazing, low energy lamps on a percentage of lamp turnover.	1	Benchmark figures provided	B & Q Beeston
35	Advice with mortgage packs.	1	Number: Not stated	Newcastle Building Society (NBS)
36	Financial package to support energy improvement.	1	Number: Not stated	NBS
37	Support Housing Associations Energy Policy	1	Ongoing	NBS
38	Energy advice to schools	1	Number: Not stated	British Gas Trading

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

**INITIATIVES TO INVOLVE OTHER ORGANISATIONS/AGENCIES IN
ENCOURAGING CHANGES IN BEHAVIOUR**

Appendix 9 cont.

Ref No	Measure of Service provided	Target Date Timescale	Comments	Organisation supporting action
39	Support the E.CA.'s objective to maintain improved health through housing improvement.	1	To be determined	Leeds Community and Mental health Services
40	Support the E.C.A.'s objectives (reviewing loan structures)	2	To be determined	Norwich and Peterborough Building Societies.
41	Develop increased awareness of environmental and sustainable issues including energy	2	Training packs for schools: to be determined	Department of Education
		2	In service training for teachers: to be determined	Department of Education
42	Develop Young Energy Savers Scheme in partnership with South Leeds Groundwork Trust and E.S.S.O.	1	Energy audits for schools: to be determined	Department of Education South Leeds Groundwork Trust E.S.S.O.
43	Utilize N.H.B.C. Homefile Magazine for information delivery E.C.A./H.E.C.A.	2	Information and support to be determined	N.H.B.C.

TARGET/TIMESCALE: 1. Currently provided/ ongoing 2. Planned (short/medium term) 3. Planned (future)

Appendix 10

***LIST OF ORGANISATIONS CONSULTED
IN THE PREPARATION OF WARM HOMES – COOL
PLANET***

***LEEDS HOUSING FORUM –
HOME ENERGY CONSERVATION ACT WORKING GROUP
MEMBERS***

Benefits Agency

Frontline B C/First Tec

Beazer Partnership Homes

Leeds and Holbeck Building Society

National House Building Council

Federation of Master Builders

Bradford and Bingley Building Society

Care and Repair (Leeds)

North British Housing Association

Sanctuary Housing Association

Ecology Building Society

Leeds Tenants Involvement Committee

Halifax Building Society

Energy Working Group (Environment)

Leeds CMHS N.H.S. Trust

Employment Service

Age Concern

Bradford and Northern Housing Association

Leeds Metropolitan University – Policy Research Institute

British Gas Trading

The Ridings Housing Association

Leeds Chamber of Commerce and Industry

Royal National Institute for the Blind

FINANCIAL INSTITUTIONS

BUILDING SOCIETIES

Alliance and Leicester Building Society
Bradford and Bingley Building Society
Britannia Building Society
Chelsea Building Society
The Ecology Building Society
Halifax Building Society
Leeds and Holbeck Building Society
Nationwide Building Society
Newcastle Building Society
Northern Rock Building Society
Norwich and Peterborough Building Society
Scarborough Building Society
Skipton Building Society
Woolwich Building Society
Yorkshire Building Society

BANKS

Abbey National plc
Bank of Scotland
Barclays Bank plc
Co-operative Bank plc
Lloyds Bank plc
Midland Bank plc
National Westminster Bank
The Royal Bank of Scotland
TSB plc
Yorkshire Bank plc

ETHICAL INVESTMENT COMPANIES

Tridos Bank

Juniper Asset Management

A.E. Sharpe

N.P.I.

HEALTH AUTHORITIES

Leeds Health Authority (Leeds Healthcare)

Leeds Family Health Authority

Leeds Community and Mental Health Trust

OTHERS

University of Leeds

- Department of Social Policy
- Residential and Commercial Services Division
- Student Housing Officer

Leeds Metropolitan University

- Faculty of the Built Environment
- Director of Residential Estates
- Students Union

UNIPOL

Friends of the Earth

Leeds Housing Concern

Leeds Shaftesbury Project

Timble Housing Project

Palace Youth Project

Inter-Agency Project

LYPHT

Touchstone

Leeds Residential Property Owners Association

Housebuilders Federation

Builders Merchants Federation
Beazer Homes
Lovell Partnership (Northern) Limited
Frank Haslam Milan and Co. Limited
Keepmoat
CORGI
Yorkshire Electricity plc
British Gas Transco
British Gas Home Energy
Government Office for Yorkshire and the Humber

HOUSING ASSOCIATIONS

Abbeyfield Pudsey Society
Anchor Housing Association
Bradford and Northern Housing Association
Carr Gomm Society
Chantry Housing Association
Dyers Company Housing Association
English Churches Housing Group
Habinteg Housing Association
Hanover Housing Association
Harewood Housing Society
Harrison Potter Trust
Headrow Housing Group
Hunslet Housing Co-operative
Isis Housing Co-operative
Jephson Housing Association
Kate Hargrave Almshouses
Leeds Federated Housing Association
Leeds Jewish Housing Association
Leeds and Yorkshire Housing Association
Manningham Housing Association
Marsden Memorial Homes

Martha Walker Almshouses
Mary Morris International Residence Limited
North British Housing Association
Norther Counties Housing Association Limited
Railway Housing Association
The Ridings Housing Association
The Robin Slater Charity
Sanctuary Housing Association
St. Anne's Shelter and Housing Association
Stonham Housing Association
The William Sutton Trust
Tangram Housing Co-operative
Unity Housing Association
York Housing Association
Yorkshire Ladies Council Hostels
Yorkshire Metropolitan Housing Association

LEEDS M.P.S AND M.E.P. (AS AT 1ST APRIL 1996)

Mr. S. Batiste M.P.
Mr. D. Fatchett M.P.
Mr. G. Mudie M.P.
Mr. T. Kirkhope M.P.
Dr. K. Hampson M.P.
Mr. J. Battle M.P.
Mr. J. Gunnell M.P.
Mr. W. O'Brien M.P.
Sir Giles Shaw M.P.
Mr. M. McGowan M.E.P.

LEEDS CITY COUNCIL – DEPARTMENTS

Department of Community Benefits and Rights

Department of Education

Department of Social Security

Department of Highways and Transportation

Department of Leisure Services

Department of Planning

Department of Housing Services

- Housing Services Agency / Management
- Housing Renewal and Environmental Health Group
- Finance Section
- Property and technical Services Group
- Energy Unit
- Development Group
- Homeless and Advisory Group

Leeds Environment Department – Leeds Energy and Environment Centre

Leeds Development Agency

Leeds Design Consultancy – Energy Management Unit

DATA REQUESTED FROM

A. and M. Insulations Limited

Miller Pattison Limited

Cosytherm Limited

Yorkshire Window Company Limited

L. and W. Insulations Limited

B. and Q. Limited

Jewsons Builders Merchants

Wickes Building Supplies

Currys Limited

Norweb

Comet Limited

Leeds Industrial Co-operative Society

Appendix 11

Requests to the Secretary of State for the Environment to support or encourage others to assist with measures set out in this Energy Conservation Authorities HECA. Plan " Warm Homes Cool Planet as defined by D.O.E. Circular 2/96 (4.28)

No	Suggested steps to assist the E.C.A. to meet the aims and objectives of the H.E.CA. plan Warm Homes Cool Planet.	Government Response	Date of Response
1.	<p>The E.C.A. request:</p> <p>1. The V.A.T. on fuel to be reduced to the lowest permissible level.</p> <p>2. That V.A.T on energy saving products to be reduced to the lowest permissible level.</p> <p>3. That local authority V.A.T exception be extended for use in offering 'bulk contract' rate measures to the private sector.</p> <p>4. That the Local Government (Goods and Services) Act 1970 and the (Miscellaneous Provisions) Act 1976 be reviewed to allow local authorities the ability to offer energy efficiency goods, services and energy to all housing sectors</p> <p>5. That Part 5 of the Local Government Act 1972 be reviewed to allow local authorities greater involvement in the establishment of Energy Supply Companies.</p> <p>6. That resource be provided to local authorities to pilot and establish and establish Energy Supply Companies nationally.</p> <p>7. That legislation be reviewed to allow energy efficiency lease/rental packages to be developed.</p> <p>8. That H.E.E.S. resource be reinstated to 1995-96 levels. Be property/energy grade based by occupants means. Include non-means tested over 60's Be broadened to include other</p>		

	energy saving measures. Be co-ordinated by the E.C.A		
9.	That the private members Energy Conservation {Fifteen year programme} Bill be supported.		
10.	That the private members Energy Conservation {provision of Information} Bill be supported.		
11.	That resource be provided to meet the financial shortfall between local energy efficiency investment and H.E.C.A. target spend outlined.		
12.	That 'pump-priming' resource be made available on an equal or better than 2:3 ratio (2 local resource: 3 Government/private sector resource).		
13.	That E.C.A;s be made the 'conduit' for all energy related housing resources.		
14.	That funding for energy efficiency improvement is continued under Standards of Performance (S.O.P) or S.O.P. equivalent schemes.		
15.	That 'least cost planning' be applied to fuel companies and shippers.		
16.	That resource be provided to support and enhance data collection and processing by the E.C.A., including public domain data-capture software.		
17.	That information and data release be facilitated on: built form' heating, insulation, glazing, tenure, retail appliance sales product. D.I.Y. products, finance packages and energy related employment, health and empirical fuel consumption.		
18.	That a U.K standard is advanced for energy related data capture		
19.	That stock condition surveys and Census include energy data to N.H.E.R. level 2.		
20.	That credit union legislation be reviewed to support H.E.C.A initiatives.		
21.	That energy and E.C.O. labelling of energy appliances and products be established and accelerated.		

<p>22.</p> <p>23.</p> <p>24.</p> <p>25.</p> <p>26.</p> <p>27.</p> <p>28.</p>	<p>That the term 'cost effective' and practicable be clarified under Circular 2/96.</p> <p>That government review 'pay back' periods for E.C.A's and local housing providers to accommodate higher cost products having an environmental benefits.</p> <p>That national strategic energy targets are set and released by government to meet a minimum 15 year objective</p> <p>That H.E.C.A be reviewed in allowing City or Area energy plans to be formulated for total energy utilisation in the E.C.A.'s administrative area.</p> <p>That Health Authorities and Trusts provide financial resource to support H.E.C.A in striving to provide warm dry homes.</p> <p>A national 'think' tank/forum' be established to develop energy plans at a national level.</p> <p>That the local authorities H.E.C.A. national network be administered supported by government.</p>		
<p>29.</p> <p>30.</p> <p>31.</p> <p>32.</p> <p>33.</p>	<p>That Local Planning Guidance be developed to encompass Better than current regulation standards Planning assessment to include: design and energy issues such as C.H.P/ renewable/ nergy cascading /passive gain/orientation etc.</p> <p>That local authorities 'rent caps' be reviewed to facilitate energy efficient improvements linked to S.A.P.</p> <p>That housing Benefit rules be reviewed to facilitate energy efficient improvements linked to S.A.P.</p> <p>That the National Curriculum be reviewed and enhanced to promote a greater understanding of energy efficiency amongst students.</p> <p>That a national Code of Practice be supported to facilitate the</p>		

	<p>E.C.S.'s work in the following sectors.</p> <ul style="list-style-type: none"> • Private landlords utilisation of S.A.P • Retail low energy application/product sale • Wholesale low energy appliance/product sale <p>34. That the regulatory structure be re-organised to combine electricity, gas, water, telecommunications, and petrochemical industries, to assist and support in clarifying secondary issues effecting H.E.C.A. under one body.</p> <p>35. That capital receipts from the sale of Council houses be released to local authorities to finance improvements works including energy efficiency.</p> <p>36. That additional credit approval (to be determined) is given to local authorities to assist the E.C.A in support of H.E.C.A.</p> <p>37. That BREEAM assessment be extended to include housing refurbishment interfaced with S.AP.</p>		
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Appendix 12

DEPARTMENT OF ENVIRONMENT SUMMARY INDEX

LOCAL AUTHORITY: LEEDS ENERGY CONSERVATION AUTHORITY

SUBJECT	REPORT PAGE/PARAGRAPH NUMBER	OTHER COMMENTS OR RELEVANT REFERENCES
Description of the residential accommodation and its energy efficiency as at 1 st April 1996	Section 2 (7.0) Section 3 (9.0)	
Identification of the measures which will ensure at least 30 per cent, improvements in energy efficiency	Section 3 (9.0)	
Percentage improvement identified from the measures 36%	Section 3 (9.03)	36%
Timetable for implementation of the measures identified 15 years	Summary Section 3 (9.01/7) Section 3 (9.04/2)	15 years
Cost of the measures identified £774,746,453	Section 3 (9.04/1)	£774,746,453
Decrease in CO ₂ emissions as a result of the implementation of the measures identified 1,012,939 tonnes CO ₂ per annum	Section 3 (10.0)	Please note Section 3 (10.5)
Do you have a policy for taking into account personal circumstances? YES	Section 4 (11.0/11.09)	Affordable warmth (11.09)
Steps you would want the Secretary of State to take assist with the measures identified.	Appendix 11	See Preface Appendix 11

Other Comments:

The E.C.A recognise that energy efficiency investment is currently taking place in all housing tenures throughout the City. It is apparent therefore that the £775 million resource requirement outlined in the H.E.C.A. plan is a 'worst case scenario' cost.

The first priority of the E.C.A. will be to identify, quickly and accurately, current energy investment in the Leeds housing stock, thereby highlighting the resource shortfall occurring, which will be reported to the Secretary of State for the Environment.

Note: Improvement measures have been identified to meet the Acts requirements of cost effective and practicable, this as defined by the E.C.A. FOR Leeds. These measures exclude external cladding, dry lining, renewable technology and some C.H.P installation.

