



AFFORDABLE HOMES STRONG COMMUNITIES

Fit for the Future - the Green Homes Retrofit Manual

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Why ?

- Government target: **80%** reduction in CO₂ emissions
- – domestic housing sector: 27% CO₂ emissions
- 27 million homes – 4 million social homes
 - 1% replacement rate
- The Housing Corporation GOLD Award





Pre 1850



1919-1944



1850-1899



1945-1964



1900-1918



1966-1980

The Questions

- The housing stock?
- Technology?
- What are you doing?

The Answers

- = An Environmental Assessment Methodology
- = Fit for the Future
- = Get a strategy

Wat 1 Internal Water Use

Credits available: 9

Aim

To reduce consumption of potable water in the home.

Credit Compliance Requirements

All properties being assessed must comply. Credits are awarded on the basis of dwellings being assessed meeting the following targets:

Credits	Water consuming appliances
1	Toilet flush $\leq 6l$
1	Composting toilet
1	Taps with flow regulators OR Aerating taps OR Auto shut off taps
1	Shower flow rate $\leq 9l/min$
1	Standard or small bath
1	'Best Practice' washing machine
1	'Best Practice' dishwasher
1	Grey water re-cycling
1	Mains water meter

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Structure

- **Delivery:** Strategy
Funding
- **Technologies:** Overview to guide decisions
- **Technical supplement**
- **Case Studies**

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- Chapter 3 Saving Carbon: getting the basics right
- Basic technologies, Low and Zero Carbon, Water & Waste, Environmental matters, Behaviour:
 - In a Nutshell
 - Useful to know
 - Description of technology
 - Current thinking
 - Advantages and disadvantages
 - Suitability Key
 - Case studies
- Part 2 Technical issues and details
 - Case studies

Conclusion and Recommendations

- Table 9.1: Costs and Benefits
 - SAP
 - Ecohomes XB
 - What can be done for little or no additional cost

- 10 Recommendations
 - Start now
 - Environmental Strategy, Policy, Action Plan
 - Water test boiler installations
 - Exploit CERT

Meanwhile, in a street
in Oxford this summer ...



Improving the Environmental Performance of existing stock



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