

# New Homes New communities

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## The need for domestic refurbishment

- Housing in the Uk accounts for 27% of the UK's CO2 emissions
- By 2050, 80 % of the housing we will be living in already exists
- 23 million homes are in need of refurbishment
- We need to refurbish 13,400 homes per week to meet CO2 reduction targets
- That's 80 homes every hour!

## Eco Home Refurbishment case study



A familiar 1960s detached house CO 2 - 10.9 tonnes per year House is cold, draughty, and expensive to run



.....to a Super Home that will have reduced its energy use by over 75%

### Original interior



- •Outdated, inefficient kitchen and bathrooms
- •Compromised UPVC windows
  •Dark surfaces and dust catching
- •Damp and mould forming due to poor ventilation and insulation







## Complete strip out inside and out















## Refurbished exterior





- Sweet chestnut cladding (with insulation backing)
   Velfac Aluminium windows
   Painted refurbished tile roof

- •Insulating render
  •Wall u value has gone from 1.62 wmk to 0.52 wmk

# Eco interiors a case for eco aesthetics









## Connecting with communities Getting rid of waste.....





- •Building materials/ fixtures/ fittings
- Cooker, kitchen cabinets
  Timber joists, flooring, doors
  Furniture
- •Rubble/ earth

Building reclaim yards -Tiger re-use-it

Free cycle/ green cycle

Wood recycling network

Social Enterprises – Emmaus, YMCA

Gumtree & local press, E Bay Separated skips

## Old Home Super Home Network

House emissions reduced from 10.9 tonnes to 4.2 – 62% reduction.

Awarded Super Home status A network of 100 homes across the country opening their doors twice a year

<u>www.sustianable-</u> energyacademy.org.uk





## Community

pooling resources and skills

- Resource and hardware sharing EcoModo
- Skill sharing -Freeconomy <u>www.justfortheloveofit.org</u>
- Freecycle and Greencycle











## Brighthelm Project

2,250 sq m commercial space 400 person conference, events venue 3530 sq m garden space



Church and Community centre Dwindling congregation Anti social element Financially unsustainable



Green Living centre, church & community Retrofit centre Green business hub Sustainable seminars and courses Horticultural centre

## Brighthelm Garden proposal







Horticultural training space Tensile canopy training area Café Garden Performance space Rainwater harvestings

