



# ANNUAL CONFERENCE 2012

**NEIL JEFFERSON**

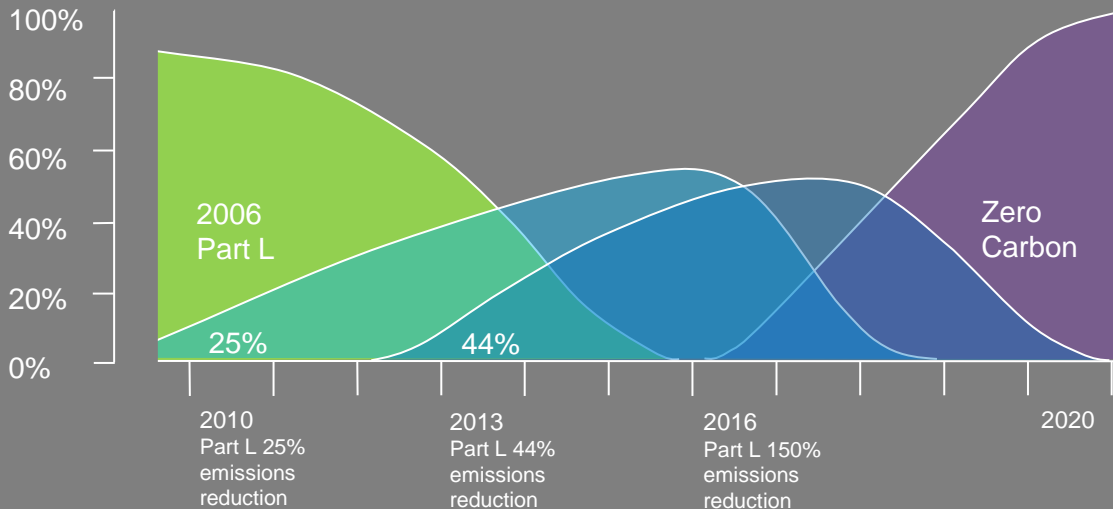


FACILITATING THE MAINSTREAM DELIVERY OF LOW AND ZERO CARBON HOMES



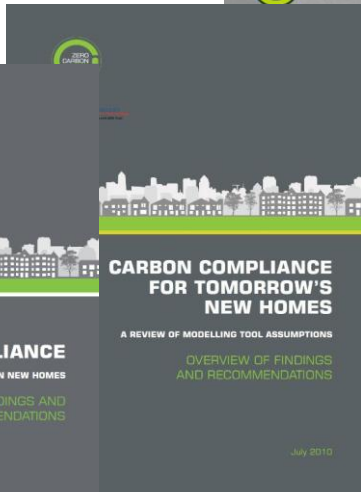
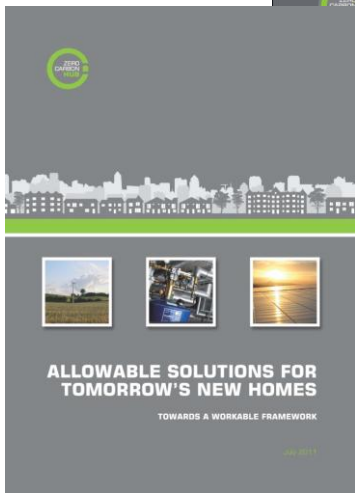
# THE JOURNEY TO ZERO CARBON

% of homes built





# WHAT DO WE KNOW SO FAR...





# WHAT DO WE KNOW SO FAR...



**Carbon Compliance limit =  $11\text{kgCO}_{2(\text{eq})}/\text{m}^2/\text{yr}$**

	<b>Fabric specification</b>	+	<b>Heat technology</b>	+	<b>Zero carbon electricity</b>
<b>On-gas grid</b>	FEES	+	Gas boiler	+	1.6 kWp PV (12 m <sup>2</sup> )
<b>On-gas grid</b>	'PassivHaus'	+	Gas boiler + 4m <sup>2</sup> SHW	+	None required
<b>Off-gas grid</b>	FEES	+	Air source heat pump	+	1.9 kWp PV (13 m <sup>2</sup> )
<b>With community heat network</b>	Advanced FEES	+	Gas CHP	+	None required



# CODE LEVEL 6 HOMES





# CODE LEVEL 5 HOMES





# CODE LEVEL 5 HOMES





# INTERNATIONAL PERSPECTIVE



NHBC FOUNDATION  
Housing excellence in partnership with NHBC build







## SKILLS AND TRAINING

### EVENTS AIMED AT PLANNERS AND BUILDERS

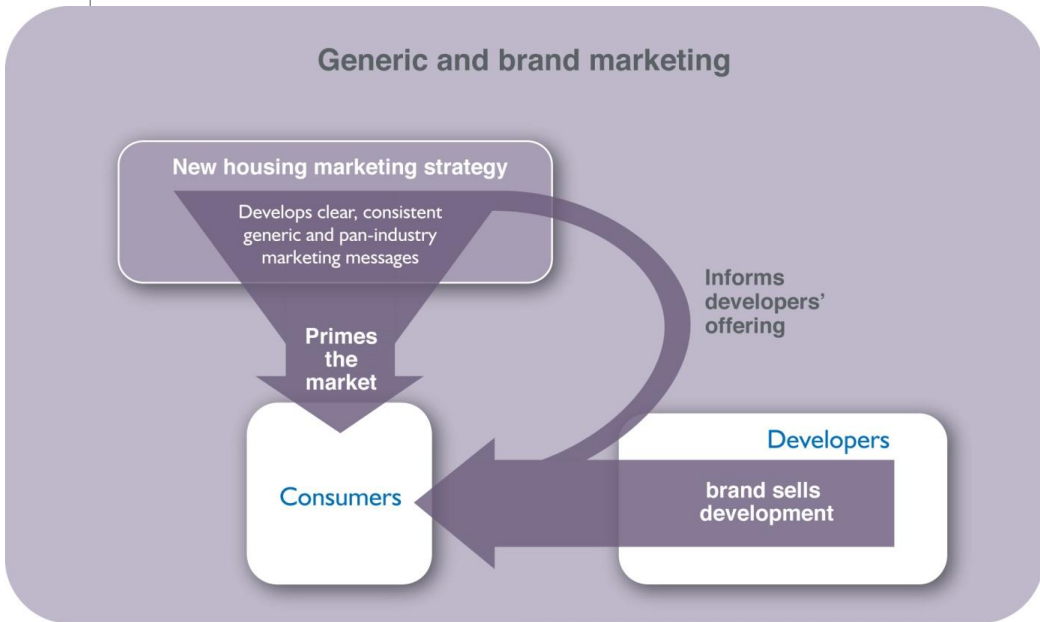
- 9 February 2012
- Guildhall, Hull
- A few spaces available

Nearer to  
zero

Planning for zero carbon  
homes from 2016



# CONSUMER ENGAGEMENT





# FUTURE OF THE ZERO CARBON HUB

