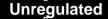
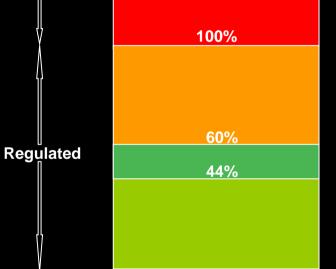
## Zero Carbon Homes and the Wider Policy Context



### Paul Morrell HMG Chief Construction Adviser

#### 150% (45kgCO2/m2/year)





## Addressed by other regulatory instruments (EU ETS, product regulations etc)

#### **Buy-out on cost-effective basis**

### Addressed by cost effective on-site measures Minimum standard for fabric efficiency

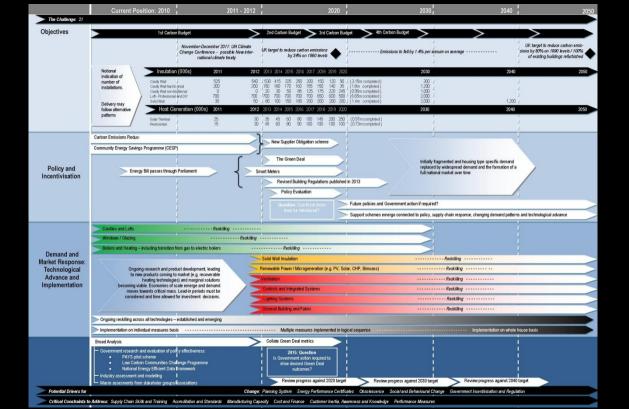






## Making a market







### Government interventions re carbon reduction

Policy	Objective	Payee
Renewable Obligation	Main support scheme for large-scale renewable electricity projects, placing an obligation on suppliers of electricity to source an increasing proportion of their electricity from renewable sources	Energy companies
EU emission trading scheme	Each EU member state must develop a National Allocation Plan, approved by the European Commission, setting an overall cap on the total emissions allowed from all the installations covered by the System.	Energy companies and energy intensive industries
Carbon Reduction Commitment	Mandatory Carbon Cap and Trade Scheme for large non-energy intensive business and public sector organisations.	Large non-energy intensive industries
Feed-in-Tariffs	Support for small-scale renewable electricity via a requirement on electricity suppliers to pay a tariff to Small-scale low-carbon generators.	Energy companies
Renewable heat incentive	Financial support to stimulate uptake of renewable heat	Paid directly by HM Treasury
Climate Change Levy	Tax on the use of energy in industry, commerce and the public sector	Business and public sector
Enhanced Capital Allowances	100% first-year Tax relief allowing the full cost of an investment in designated energy- saving plant and machinery to be written off against the taxable profits.	Treasury
Product Policy	Sets minimum energy efficiency standards for energy using products.	Product manufacturers

### Government interventions (cont'd)

Building Regulations	Energy efficiency requirements (including progressive tightening of Part L) of Building Regulations	Builders, clients
Zero-Carbon Homes (ZCH)	All new homes to be built to a zero carbon standard from 2016	Builders, clients
Zero Carbon for New Non-Domestic	All new non-domestic to be built to zero carbon standard from 2019	Builders, clients
Carbon Emission Reduction Target (CERT)	Obligation on energy suppliers to increase the uptake of energy efficiency and carbon reduction measures in the Household sector.	Energy companies
Community Energy Savings Programme	Requires gas and electricity suppliers and electricity generators to deliver energy saving measures to domestic consumers in specific low income areas of Great Britain. CESP has been designed to promote a 'whole house' approach and to treat as many properties as possible in defined areas.	Energy companies
EPBD	Requires all EU countries to enhance their building regulations (minimum energy performance requirements), set standards for major refurbishments, and to introduce energy certification schemes for buildings (EPCs & DECs in UK). All countries are also required to have inspections of boilers and air-conditioners.	Property Owners & occupiers
Smart Metering	Roll-out of smart or advanced meters to non-domestic and domestic customers not previously required to have them.	Energy companies





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