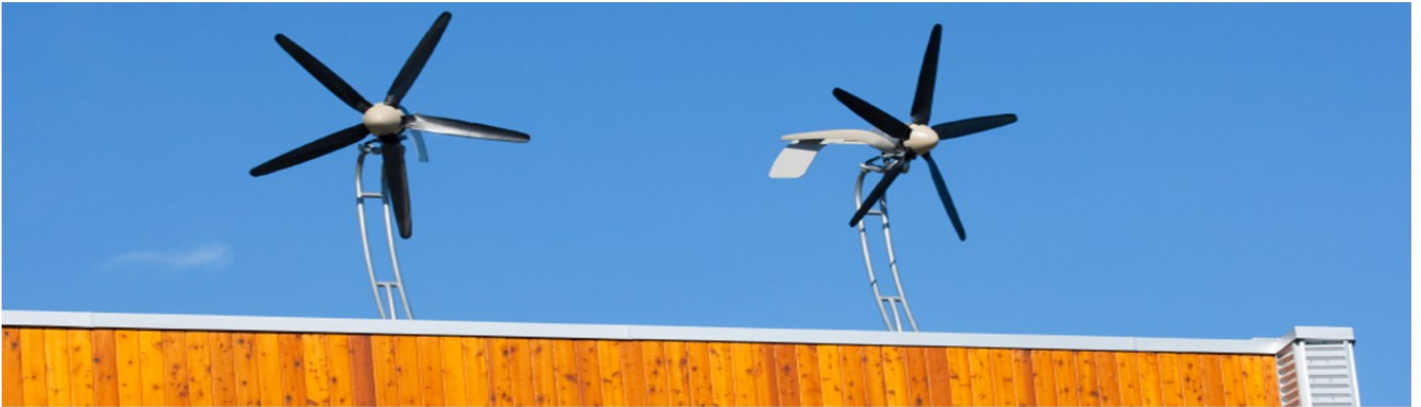


# The Code for Sustainable Homes—Summary Services Overview

The Communities and Local Government's Code for Sustainable Homes (the 'Code') is the national mandatory standard for the sustainable design and construction of new homes. The Code aims to reduce carbon emissions and create homes that are more sustainable. All new homes built in the UK must be rated against the Code and meet a minimum code level 3, with social housing required to meet code level 4.



## What is the Code?

The Code measures the sustainability of a new home against nine categories of sustainable design and sets a 6 level rating system to communicate the overall sustainability performance of a new home. There are a number of mandatory elements within the Code which must be attained in order to gain a rating, with additional 'tradable' credits available to increase the rating and provide a more sustainable design.

## Feasibility Assessments/Design Stage Guidance

A significant proportion of credits (both mandatory and tradable) available are related to energy consumption and CO<sub>2</sub> emissions, particularly reduced emission rates (compared to the Building Regulations Part L), heat loss parameters and installation of Low/Zero Carbon Technologies.

Sol are fully qualified to undertake LZC feasibility studies compliant with the requirements of the Code. Our study (typically carried out at RIBA Stage C) would establish the most appropriate LZC energy source for the development and as required would cover:

- Energy generated from the LZC source per year;
- Payback taking into account Feed-in-Tariffs and Renewable Heat Incentive Schemes and available grants;
- Whole life cost and life cycle impact of potential specification in terms of carbon emissions;
- Land use and Local planning requirements;
- All technologies appropriate to the site and energy demand of the development;

In addition, Sol has a very close working relationship with a number of technology providers and is able to provide impartial and technically robust appraisals and assessments where LZC technologies may provide benefit to any given scheme.

## Sol Environment Ltd

Sol Environment are independent sustainability advisors who can carry out a range of design reviews and post completion assessments to enable certification against the scheme. Sol are fully licensed to deliver Code assessments for new-build and renovated developments.

In addition to being able to deliver Code Assessments, Sol are able to deliver a high level of engagement and support to help each project achieve the desired rating. Our close involvement with the project team helps provide a consultancy service that brings further value to the design and development team through the identification of 'easy wins' in terms of design and cost.

Through a close working relationship, Sol can provide advice on those categories where a development would be best able to achieve credits.

## Sol Environment's Code and BREEAM Services

Sol Environment has provided innumerable clients with carbon and sustainability advice. Our services can assist development teams achieving the Code, optimising their schemes to provide the maximum available credits and assessment of the scheme to allow certification.

These services can be broken down into distinct task areas, namely;

- LZC feasibility and assessment
- Detailed design team advice and support
- Management systems and resource efficiency
- Code and BREEAM Pre-assessments
- Registration and Assessment to CSH and BREEAM requirements

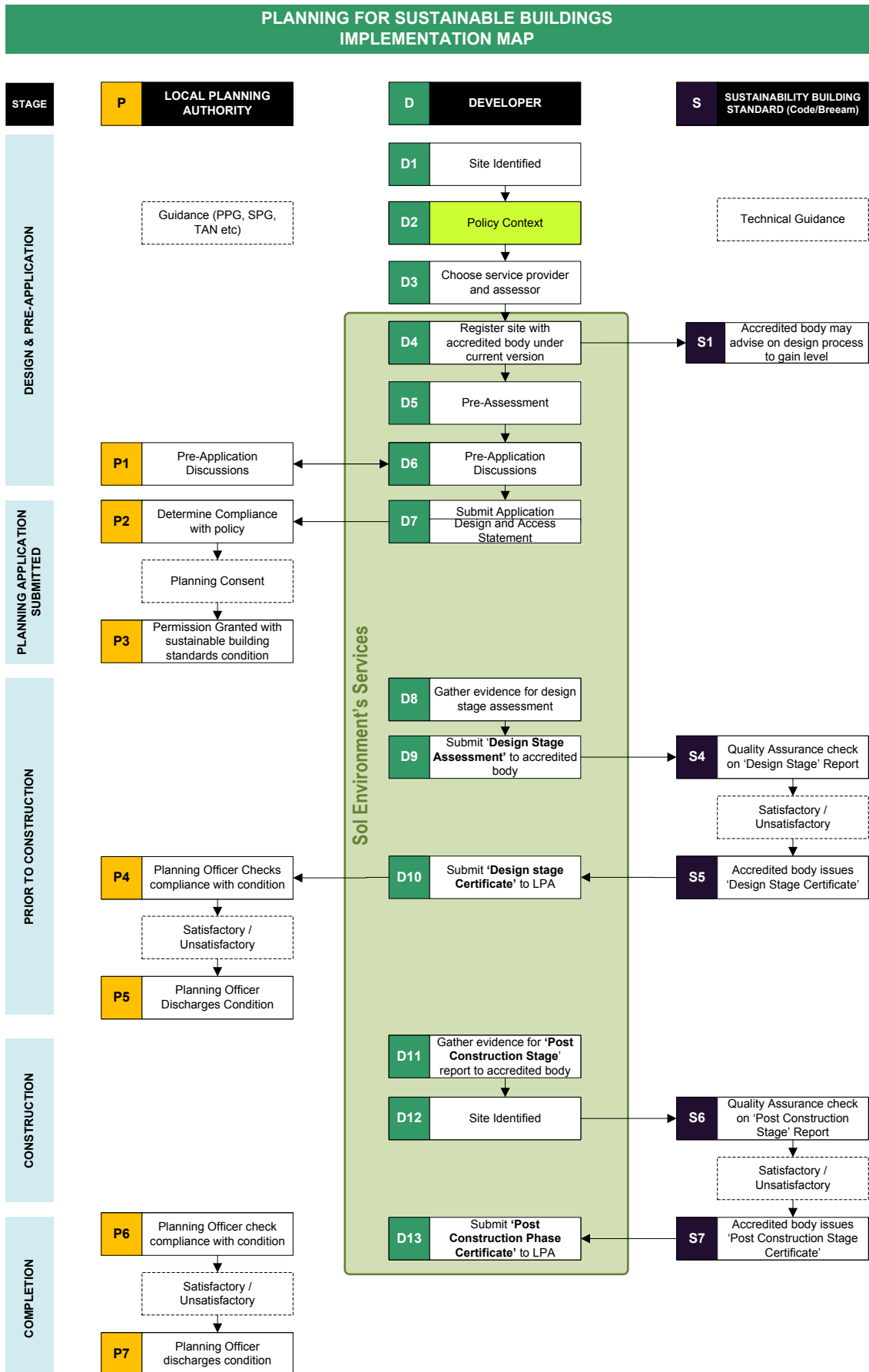
For further information please contact;

✉: [enquiries@sol-environment.co.uk](mailto:enquiries@sol-environment.co.uk)

☎: +44 (0)1684 572727



# Code for Sustainable Homes - Planning Process Overview and Implementation Map



For further information please contact;

✉: [enquiries@sol-environment.co.uk](mailto:enquiries@sol-environment.co.uk)

☎: +44 (0)1684 572727



# Code for Sustainable Homes & BREEAM - Sol Services Overview

CODE FOR SUSTAINABLE HOMES; ASSESSMENT STRUCTURE AND SOL'S CSH / BREEAM SERVICES			
Category	Weighted credits available	Issues	Sol's CSH / BREEAM Services
Energy & CO <sub>2</sub> Emissions	36.4	Ene 1: Dwelling emission rate Ene 2: Building fabric energy eff Ene 3: Internal lighting Ene 4: Drying space Ene 5: Energy labelled white goods Ene 6: External lighting Ene 7: LZC technologies Ene 8: Cycle storage Ene 9: Home office	- Energy audits - Feasibility studies - Renewable energy assessments - Renewable Heat Incentive/Feed-In Tariff opportunities appraisals
Water	9	Wat 1: Indoor water use Wat 2: External water use	- Resource efficiency audits - Water calculations - Rainwater/Grey water feasibility
Materials	7.2	Mat 1: Env Impact of materials Mat 2: Responsible sourcing of materials – Basic building elements Mat 3: Responsible sourcing of materials – Finishing elements	- Desktop material sourcing studies (FSC, EMS certification etc) - Green guide directory assistance
Surface Water Run-off	2.2	Sur 1: Surface water run-off Sur 2: Flood risk	- Flood risk assessments - SUDs feasibility studies/advice - Peak flow run-off assessments
Waste	6.4	Was 1: Storage of household wastes Was 2: Construction waste mangmnt Was 3: Composting	- Waste/Duty of Care audits and advice - Site waste management plans - Compliance with composting standards (PAS 100:2008)
Pollution	2.8	Pol 1: GWP of insulants Pol 2: NO <sub>x</sub> emissions	- Insulation materials assessment and advice - NO <sub>x</sub> calculations and secondary heating exemptions
Health & Wellbeing	14	Hea 1: Daylighting Hea 2: Sound insulation Hea 3: Private space Hea 4: Lifetime Homes	- Daylighting calculations - Robust Detail material reviews - Lifetime homes assessments
Management	10	Man 1: Home user guide Man 2: Considerate Construction Sch Man 3: Construction Site Impacts Man 4: Security	- Home information packs - Resource efficiency toolkits
Ecology	12	Eco 1: Ecological value of site Eco 2: Ecological enhancement Eco 3: Protection of ecology Eco 4: Change in ecology Eco 5: Building footprint	- Ecology reports - Enhancement opportunities - Ecological value calculations - Footprint calculations

Design Stage & Post-Construction Stage CSH Assessments

For further information please contact;

 enquiries@sol-environment.co.uk

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