



## C-Plan

### Online Energy Statements Compliance Checking



### Background to C-Plan

- Review of energy statements across 33 LBs for GLA
- Developed by ECSC and Thameswey with London South Bank University
- Designed specifically to assess planning compliance
- Prototyped with local authority planners in 2008
- PAS Case Study
- Purchased by LGYH for use by all LPAs





## Yorkshire LPAs piloted development and use

### Local Authorities

Use the links below to go direct to local authority C-Plan and Sustainability Checklist tools

**Surrey**





**Hertfordshire**




**Yorkshire**







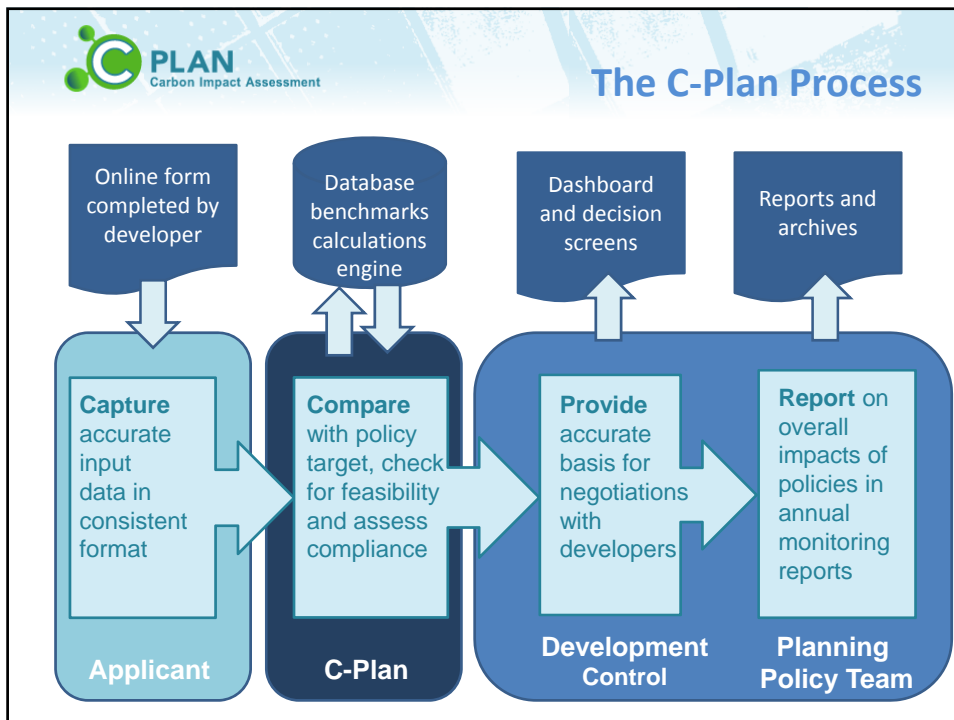









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**PLAN**  
Carbon Impact Assessment

## Scalable and flexible for different policy targets

25,000m <sup>2</sup> new office tower	76 new 1 and 2 bed apartments	35,000m <sup>2</sup> McLaren sports car factory	Extension to shopping centre
 <p>GSHP, roof mounted wind turbines and connection to off-site CCHP</p>	 <p>10% energy efficiency improvement over Part L and combination of SHW and PV</p>	 <p>Integrated energy strategy using advanced MVHR and cooling, connection to on-site CHP</p>	 <p>Low energy fit out and roof mounted PV to achieve RE and CO<sub>2</sub> reduction targets</p>

**PLAN**  
Carbon Impact Assessment

### Three Rivers District Council Adopted Core Strategy (2011)

**CP1**  
*Overarching Policy on Sustainable Development*

**Requirements for Applicants**

Applications for all new residential development of one unit and above and for all new commercial development will be required to submit a 'CPLAN Energy and Sustainability Statement' demonstrating the extent to which sustainability principles have been incorporated into the location, design, construction and future use of proposals, and the expected carbon emissions.

*"The Council has piloted the use of C-PLAN, a carbon assessment and monitoring tool, since 2008. This has clearly been a collaborative process which has enabled the Council to secure consistently higher levels of performance than the minimum standard set by the Building Regulations 2010. The requirement for a minimum of 10% of carbon emissions savings to be obtained from on-site renewable/low carbon technology has emerged from consultations and monitoring by C-PLAN. In these circumstances it is clear that the strategy's pro active approach to encouraging sustainable development is justified and meets the viability tests in paragraph 33 of the PPS1 Climate Change Supplement"*

**INSPECTOR'S REPORT ON THE EXAMINATION INTO THE THREE RIVERS DISTRICT COUNCIL CORE STRATEGY DEVELOPMENT PLAN DOCUMENT 16 September 2011**

**PLAN Carbon Impact Assessment**

Project Name: WBDH-New Housing-Queen Elizabeth Drive, Normanton  
 Planning Reference: N/A  
 The estimated baseline energy consumption for this development, if constructed to meet 2010 Part L Building Regulations, is 302,330 kWh per year. After proposed energy efficiency measures are applied, the energy consumption is estimated to be 296,401 kWh per year. The Carbon Saving required by Policy D 27 for this development is estimated as 10 % saving from low carbon technologies. This means a 3,211 kg CO2/yr saving is required. The actual saving achieved through the installation of Low or Zero Carbon Technologies in this development is 29,337 kg CO2/yr (9.7%), the savings from Energy Efficiency Measures only are 13,054 kg CO2/yr (19.73%).

Savings from Low or Zero Carbon Technologies: 9% 10% 20% 30% 40% 50% 60% Savings Target Met

ID	Building Group No.	Building Use	CO2A m2	kWh Savings	CO2 Savings	Energy Efficiency Standard	L07 Technology 1	L07 Technology 2	L07 Technology 3
165	1	semi-detached/flat terrace	1884	33,276 kWh	17,689 kg CO2	20 Per Cent Improvement Improvement Over T10	Photovoltaics	None Selected	None Selected
166	2	semi-detached/flat terrace	1834	22,689 kWh	11,770 kg CO2	20 Per Cent Improvement Improvement Over T10	Photovoltaics	None Selected	None Selected

Final CO2 Emissions	Energy Consumption (kWh)	CO2 Savings	Energy Savings
29,337	296,401	3,211	13,054

Final CO2 Emissions	Energy Consumption (kWh)	CO2 Savings	Technology	Readability Score
29,337	296,401	3,211	With Energy Efficiency & CHP & Renewable	100

**PLAN Carbon Impact Assessment**

Projects

Welcome aidan.dunsdon@live.co.uk

Project ID	Date Created	Project	Planning Reference	Local Authority	Policy Target	Project Description	Checklist	Project Compliance	Submit Project
131	10/31/2012 10:19 AM	Sheffield Test		Sheffield City Council	10% Energy Saving Required	Minor Residential	1 EDIT 2 EDIT 3 EDIT 4 SUBMIT	451 (0 %) kWh/yr	Submitted Stage 1
165	11/21/2012 10:17 AM	Fern Bank	12/00288/FUL	Doncaster Metropolitan Borough Council	10% Energy Saving Required	Major Residential	1 EDIT 2 EDIT 3 EDIT 4 SUBMIT	1,932 (3 %) kWh/yr	Submitted Stage 1
174	12/7/2012 10:53 AM	WBDH-New Housing-Queen Elizabeth Drive, Normanton	Not Applicable	Wakefield City of Wakefield Metropolitan District Council	10% Required	Major Residential	1 EDIT 2 EDIT 3 EDIT 4 SUBMIT	29,337 (65 %) kg CO2/yr	Submitted Stage 1
179	12/12/2012 07:56 PM	Pewsey Vale Richmond	12/00540/FULL	RICHMONDSHIRE DISTRICT COUNCIL	0% Carbon Saving Required	Major Residential	1 EDIT 2 EDIT 3 EDIT 4 SUBMIT	1,652 (13 %) kg CO2/yr	Submitted Stage 1



## C-Plan Service

- Clear, consistent and accurate 'dashboards' for non-specialists
- Web pages 'personalised' to each local authority
- Configuration to local policy requirements and targets
- A full suite of energy, carbon and sustainability tools aligned with SAP
- Developer input forms linked directly to LPA web content
- Instant on-line referral facility for planning officers
- Complete technical support for planning officers from energy specialists
- Regularly updated database with figures based on actual developments
- Training and user support for planners



## C-Plan Costs

- Development and configuration costs met by LGYH
- Unlimited user licence for all LPAs in Yorkshire and Humber
- First 12 months hosting and support FOC to LPAS
- £500 annual licence year 2 onwards



[www.sustainabilityplanner.co.uk](http://www.sustainabilityplanner.co.uk)

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