BuildDesk Carbon Checker v1.8.1.004 SBEM v5.2.d patch 01 Release notes

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1 Overview

This version of Carbon Checker incorporates SBEM v5.2.d patch 1. This version of SBEM supports EPC and Part L calculations in Wales. The majority of the changes to this version of Carbon Checker involve supporting this revised version of SBEM.

This version also includes:

- the ability to globally edit glazing and window settings for a project rather than having to change them individually
- revised behaviour for calculating the default air flow rate of solar collectors
- a fix for a bug that led to potential errors with calculations involving brise-soleils.

2 Changes associated with supporting calculations in Wales

2.1 Project settings

2.1.1 Types of analysis

The type of analysis "EPC Wales" is available again and a new type of analysis "Wales Building Regulations Part L 2014" has been added.

Here is the complete list of types of analysis of CC v1.8.1 incorporating SBEM v5.2.d:

Type of Analysis	England Building Regulations Part L 2013
	England Building Regulations Part L 2013
	EPC England
	EPC Wales
	Building Bye-laws Jersey Part 11
	Wales Building Regulations Part L 2014

For calculations in Scotland and Northern Ireland, users should continue to use CC v1.7.3.

2.1.2 Checkbox for LENI-Calculation carried out available for Wales

Has LENI calculation been carried out?

This checkbox is located on the "Building Settings" tab and is enabled for the types of analysis "England Building Regulations Part L 2013", "EPC England", "EPC Wales", "Wales Building Regulations Part L 2014" as in iSBEM v5.2.d.

2.1.3 Special considerations – Changed combo box items for date of manufacture

of manufacture	After 31 July 2014	•
	After 31 July 2014	
	6 April 2014 - 31 July 2014	
	1 October 2010 - 5 April 2014	
	6 April 2006 - 30 September 2010	
	1 April 2002 - 5 April 2006	
	Pre 1 April 2002	

2.1.4 Checkbox for gas availability

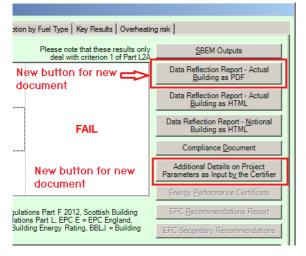
Date (

The Checkbox for gas availability has been moved outside the frame "Addition Parameters for Scottish Building Regulation" and is now also available for the types of analysis "EPC Wales" and "Wales Building Regulations Part L 2014" as in iSBEM v5.2.d.

	Building Regulations Part L 2014		•	Weather Zone		▼
Stage of Analysis As built			•	NOS Level	Level 3	*
Additional check of Bu	ilding Regulation	Γ	EPC is produced in We	Ish language		
🔲 Tick if main gas suppl	y is available to development site _N		Create HTML Data Refl	ection Reports		
Additional Parameters for	or Scottish Building Regulation — 😽					
Type of EPC	Actual	Ψ.	Type of Building	Other buildings		~
Main renewable source	From calculation	$\overline{\mathbf{v}}$	📕 Building implemen	ts lighting voltage reduction	on scheme.	
📕 Building is fully natu	rally ventilated and will not overheat	witho	ut the need for any mech	anical ventilation		

2.2 Result Screens

2.2.1 New buttons for additional output documents



2.2.2 New note for rules over grid with historic results

Current and previous results

Note to Rule: BR = Building Regulations (England Building Regulations Part L 2013, Northern Ireland Building Regulations Part F 2012, Scottish Building Regulations 2010), BR W = Wales Building Regulations Part L 2014, BR IRL = Republic of Ireland: Building Regulations Part L, EPC E = EPC England, EPC NI = EPC Northern Ireland, EPC SC = EPC Scotland, EPC W = EPC Wales, BER IRL = Republic of Ireland: Building Energy Rating, BBLJ = Building Bye-laws Jersey Part 11

2.2.3 Corrected units

Units are corrected to kgCO2/m²/yr as in iSBEM v5.2.d throughout all result screens and charts.

2.2.4 Revised results screens for different types of analysis

Wales Building Regulations Part L 2014

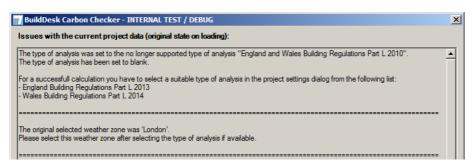
Wales Building Regulations Part L 2014					As i	in iSBE	As in iSBEM v5.2.d Please not deal with				SBEM Outputs		
coz	2 Emissions Actu	al (BER	36	8.54 kgC0	D2/m²/yr		Primary	Energy A	Actual (Bl	PEC)	2043.58 kV	Vh/m²/yr	Data Reflection Report - Actual Building as PDF
co2	O2 Emissions Notional 308.71 kgCO2/m²/yr			Primary Energy Notional				1763.42 kWh/m²/yr		Data Reflection Report - Actual Building as HTML			
c02	CO2 Emissions Target (TER) 308.71 kgCO2/m²/yr			Primary	Primary Energy Target (TPEC)			1763.42 kWh/m²/yr		Data Reflection Report - <u>N</u> otiona Building as HTML			
cor	2 Emissions PAS	S	s NO			Primary	Energy F	PASS		NO		Compliance Document	
Crit	erion 1 PASS		NC										Additional Details on Project Parameters as Input by the Certific
JIII	enon 1 PASS		NC	, ,									Energy <u>Performance</u> Certificate
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EPC Wales

=	PC Wales									SBEM Outputs			
Building Emissions Rate (BER) Target Emissions Rate (Part L)							377.7	377.7 kgCO2/m²/yr				Data Reflection Report - Actual Building as PDF	
							308.7 kgCO2/m²/yr			в		Data Reflection Report - Actual Building as HTML	
Typical Emissions Rate (Typical) Standard Emissions rate (SER) EPC Rating							1029 kgCO2/m²/yr 481.6 kgCO2/m²/yr				E B-C	Data Reflection Report - <u>N</u> otional Building as HTML	
												Compliance Document	
							39			в		Additional Details on Project Parameters as Input by the Certific	
							00	39				Energy Performance Certificate	
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2.3 Opening existing projects

If the existing project's type of analysis is: "England **and Wales** Building Regulations Part L 2010", the following dialog is displayed:



3 Other changes

3.1 Change For Global Window Settings

Users can now globally edit glazing and window settings for a project rather than having to change them individually. This new feature will help users to make quick changes to projects and assess the effect on the building's energy performance.

Global Windows			
Percentage Change			
			Increase
Glazing Percentage Change	0.0		Decrease
About to Develop Charge			
Absolute Percentage Change Set Absolute Glazing Percenta			et Absolute
Set Absolute Glazing Percente	age 0.0	· <u> </u>	et Absolute
<u>E</u> dit Glass Type		Edit <u>W</u> indow S	ettings
Set glazing and window settings			
	lazing and window se	ttings	
	lazing and window se	-	
Edit <u>G</u> lass Type		Edit Window S	ettings
Valls	E Roc	ofs	
	Vorth		
North-West	F	North-East	
✓ West	Flat		🔽 East
South-West	F	South-East	
	South		
	J. Journ		
	Turn Off All Directions	;	
		1	
	Close		

The new features are found in the frame headed "Set glazing and window settings"

Apply glazing and window settings

Takes the glass and window types specified (see buttons below) and applies the changes to the windows specified in the "*Include*" section.

Edit Glass Type Button

This is the glass type that will be applied to the "*Included*" windows when the Apply button is clicked.

Edit Window Settings

These are the window settings that will be applied to the "*Included*" windows when the Apply button is clicked.

3.2 Solar Collectors – Default Value for Design Air Flow Rate

The default value for the design air flow rate is calculated and displayed as shown below.

you know the Design Air Flow Rate?	
No, use the default 0,4	40 m³/s
Yes, design air flow is:	1,50 m³/s
Yes, design air flow is:	1,50 m³/s
	No, use the default 0, Yes, design air flow is: Cancel

If you choose the option for the default value for the Design Air Flow Rate for a specific solar collector, this is calculated by multiplying [a standard value from an SBEM table] by [the total area of this solar collector].

3.3 Bug fix for brise-soleil

The brise-soleil option in the window-settings dialog was failing to pass the correct flag through to SBEM. This has been corrected.

Shading Position	None (no shading)	•
Shading Colour	Black	Y
Shading Translucency	High translucent	V
Frame Factor	0.10 🔹	Display Window
Transmission Factor	1.00 🔹	Tick if over-hang is a brise-soleil
Surface Area Ratio	1.00 🛨	
Surface Area (m²)	34.2000 📩	
Area ratio covered by rooflight	1.00 📩	The area ratio covered by rooflight is only used for calculation of roofs.