

From: The Green Organisation no-reply@thegreenorganisation.info
Subject: The Green Apple Awards for Environmental Best Practice
Date: 28 June 2020 at 15:09
To: brianspecman@icloud.com

TG

Thank you for your application. Your entry will be processed soon.

International Green Apple Awards for Environmental Best Practice

Thanks for your entry. Your submission has
been processed.

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SECTION 1

PROJECT TITLE Green Building Calculator

ENVIRONMENTAL IMPROVEMENT

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SECTION 2 -
SECTORS AND
CATEGORIES

PLEASE INDICATE

YOUR MOST APPROPRIATE SECTOR AND
CATEGORY BY USING THE TICK BOXES. IF
YOU TICK MORE THAN ONE BOX, THESE
WILL BE COUNTED AS ADDITIONAL
ENTRIES AND YOU WILL BE INVOICED
ACCORDINGLY.

BUILDING & CONSTRUCTION

CATEGORIES This indicates the area in
which your project/activities applies. NB: If you
tick more than one box they will be counted as
additional entries and you will be invoiced
accordingly.

CARBON REDUCTION

SECTION 3

NO

No

SECTION 4

PROJECT AIM • To bring 45 years of experience and 20
years of environmental know-how to help
accelerate the adoption of low carbon building
methods and materials

- To help fill the technology gap in architectural education and provide some readymade solutions with competent building solutions
- Enable building designers to do their own building energy and environmental analysis as they assemble their building design
- To do what I have been wanting Quantity Surveyors to do, to add some intelligence to the design and decision making process with instantaneous cost feedback and automatic Bills of Quantities
- To allow client and designer to work out cost and energy optimised solutions with instant feedback
- To give design professionals easy access to multiple calculations on many aspects all in one place
- To combine costs and performance in one tool to enable well informed decision making

SECTION 5

- PROJECT ACHIEVEMENTS**
- By GreenApple Award application deadline GBC will be 20 days old
 - Version V1.0.0. is autonomous, enabled for easy development and already multi-functional
 - Early discussions on LinkedIn about the possibility of a designer's whole house calculator to engage robustly with costs, energy efficiency, in use, embodied and sequestered carbon were welcomed and started a number of discussions, zoom meetings and request to know more.
 - Interested parties so far include a multitude of disciplines:
 - o Manufacturers, self-builders, building designers, energy assessors, surveyors, project managers, retrofit co-ordinators, suppliers, students, university lecturers, architectural practitioners, BIM developers, one planet development advisors, trainers, software advisors, builders.
 - International interest is growing during 20 days:
 - o Wales, Holland, Belgium, France, Germany, Australia,
 - o Potential to develop regional or national product and LCA datasets,
 - o Euros and other currencies can be added to future versions.
 - o U value (UK) and R values (International) are already part of GBC
 - o We do not anticipate an imperial measurement version (Despite USA potential market)

- Already an Architect engaged in domestic Deep-Retrofit-First has asked for:
 - o Specific developments: in version 1 and others for version 2
 - o Started discussions and introduce BIM expertise from the beginning to avoid cul-de-sacs and dead-ends.

SECTION 6

YOUR WRITTEN SUBMISSION

WHAT THE JUDGES ARE LOOKING FOR

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What was involved?

Bringing together numerous of my standalone Excel calculators, into a singular multifunctional Green Building Calculator (GBC) to thoroughly interrogate a building design for professional users.

- WasteCost@lite calculator
- Whole Building Energy and Carbon in use calculator
- Whole Building Embodied Energy Embodied Carbon, sequestered carbon calculator
- Elemental Comparison Calculator

During development I will investigate it becoming a BIM App, to do all that (CAD + BIM) hype claims is one day possible, but still shows little sign of materialising:

- To interrogate the BIM model and do full cost, energy and full environmental analysis
- CAD + BIM = 3D Computer Aided Design + Building Information Modelling

Why did I build Green Building Calculator?

I want clients with aspirations and objectives for a Healthy, Environmental, Useful building:

- To know they can engage a building designer who has the tools and skills to meet their brief
- To be able to invest well and get what they want; not be driven down the business as usual cost cutting route
- To know that their environmental design will survive all the way to completion on site

I want Cost Planners & Quantity Surveyors to:

- Do Value Engineering not cost cutting disguised as Value Engineering;
- Create the 'Green Building Price Book'

I want

• multi-functional materials, products and systems to replace singular function alternatives and succeed in Value Engineering processes

• Specification Substitution to be done with all facts and figures available about the consequence of every change, other than just cost savings for the contractor or client

I want Environmental consultants, energy advisors:

• to model buildings, find their weaknesses in terms that building designers cannot continue to ignore

I want building designers to be able to:

- Do their own Cost Planning without a QS, based on the cost of doing it greener and better, not just cheapest wins every time
- Immediately understand the environmental impact of their construction or refurbishment methods and make better informed choices of materials or products
- Compare alternative scenarios easily and quickly and to begin to build an understanding of the consequences of their choices and in time be able to intuitively choose lower impact methods
- Intelligently interrogate the bill of materials and do environmental analysis on the fly.
- Access generic materials and product datasets at their fingertips to adopt, apply and interrogate designs
- Know where a product was invented to be used and not risk its inappropriate application
- Close the performance gap: energy, airtightness, etc.

• Have access to competent elemental assembly datasets to choose from and adopt or adapt competently, if in the absence of know-how to assemble their own.

• Have multi-functional tools that interrogates the same building model/dataset that they only have to build once

• Submit to architectural competitions and awards that insist on embodied energy, embodied carbon and sequestered carbon and energy and carbon in use, as part of the criteria for success with an appropriate weighting.

I want tenderers and constructors to:

- be able to price the job properly, not chasing some false economy cost plans,
- be paid the right price for the right job

- allow trades people to have the time to care and do a competent job using proper materials

- to ensure the job is a 'proper job' for the designed life of the building

I want BIM to live up to its expectations and hype and to do all the wonderful things I want to be able to do

What did it cost and how was it paid for?

- Over 440 hours taken to reach launch Version 1.0.0. initially in 2017-18 and during COVID-19 lockdown, all at my own expense.

- At National Minimum Living Wage = £4k.

- In addition £8k creating a marketing and delivery mechanisms, videos, website and social media.

- Inheritance money and COVID-19 lockdown has allowed the time to not have to chase paid work during GBC development.

Future development will depend upon user purchases, prices are set low to encourage purchase and enable rapid development

- £4.88 for students and self builders Wales