DRIVING GREEN BUILDINGS IN THE RESIDENTIAL SECTOR THROUGH RATING TOOLS

APRIL 2015

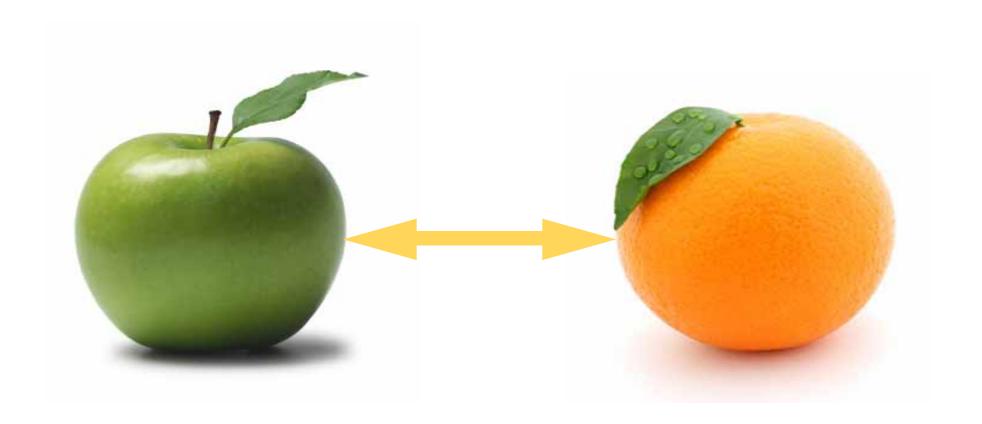
Presented by Manfred Braune Chief Technical Officer, GBCSA



South Africa pre-2007







How green is green?

How to compare buildings?



rating tool





40 on Oak, Melrose Arch, Johannesburg

No 2 Silo, V&A, Cape Town

now we can compare (we have a standard)



Design & As Built Rating



Interiors Rating?



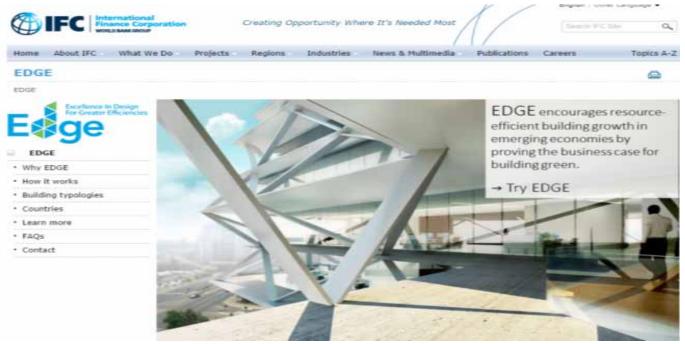
Existing Building Performance Rating?





GBCSA is launching new rating tool in residential: EDGE

GBCSA has partnered with the World Bank (IFC) and the NHBRC to offer a green building rating tool for homes – contact <a href="maintenant-maint





The journey of greening your own home.

EDGE is a simple online rating tool with 3 categories:



Green Star SA:

- residential projects with full professional team
- Project wanting to target leading form of certification (4, 5 or 6 Star)
- more exclusive marketing proposition
- covering more, including waste, transport, management, emissions (8 categories)

EDGE:

- residential projects with small professional team
- Project wanting to target basic form of certification – certified or not certified
- not exclusive marketing proposition
- covering only energy, water and embodied energy of materials (3 categories)



EDGE certification process:

Self Assessment Design submission Certificate

Site Inspection EDGE Certificate

Project

EDGE AP

EDGE AP

GBCSA









EDGE tool launch next steps:

- IFC finance for GBCSA start-up costs
- GBCSA appoint project manager
- Final adjustments to EDGE tool: Technical Working Group do you want to get involved?
- GBCSA board approval & final tool launch
- Pilot projects register





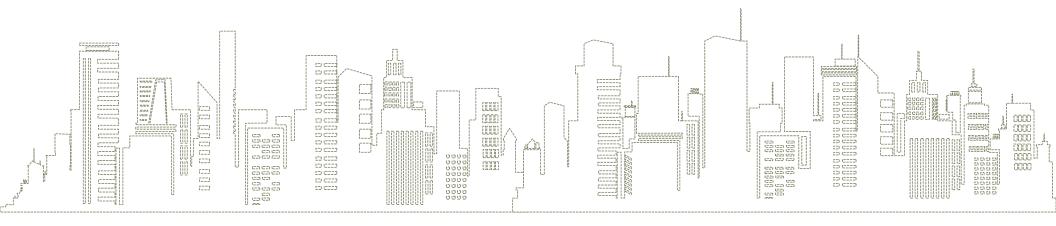


How do rating tools transform the market?

1. FIND LEADERS

2. FOLLOWERS WILL COME

3. VALUE CHAIN IMPACTED



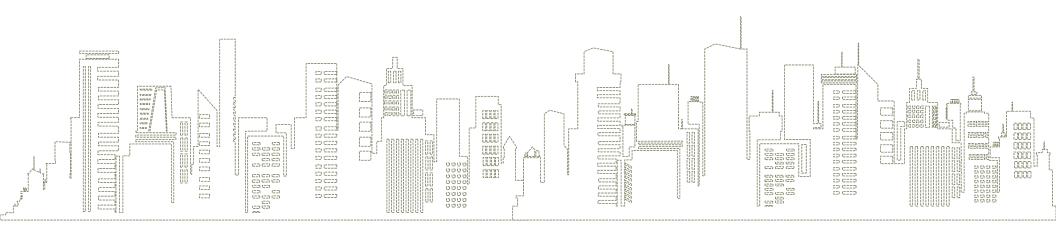
Green buildings will become standard practice.



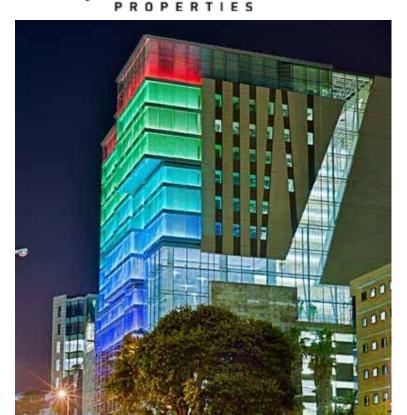


MARKET TRANSFORMATION

CASE STUDY: PROPERTY OWNER REDEFINE



PDEFINE 2010 – did not see value of green buildings



Redefine: 2014 Annual Report: p86 "In the South African context sustainability has reached a stage of maturity where by few (if any) premium grade buildings are developed without seeking a benchmark green rating"

"green buildings in the Redefine portfolio are envisaged to have a positive effect on asset value while reducing multi-tenant vacancy rates"

2014 – Mike Ruttel, Executive Director for Development says:



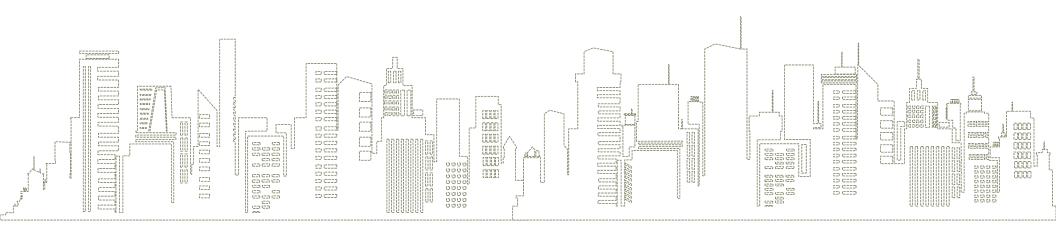
R 30 Billion property fund



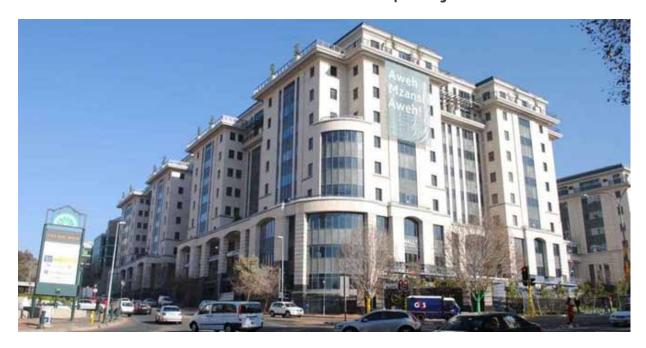


MARKET TRANSFORMATION

CASE STUDY: PAINT INDUSTRY LOW VOC PAINTS



2008 – first Green Star SA project: in SA: Nedbank, Johannesburg



No local VOC free paint!



Dulux changed processes to produce one low VOC range locally.



2015 - multiple low VOC paints locally available, no premium



All because of one Green Star project

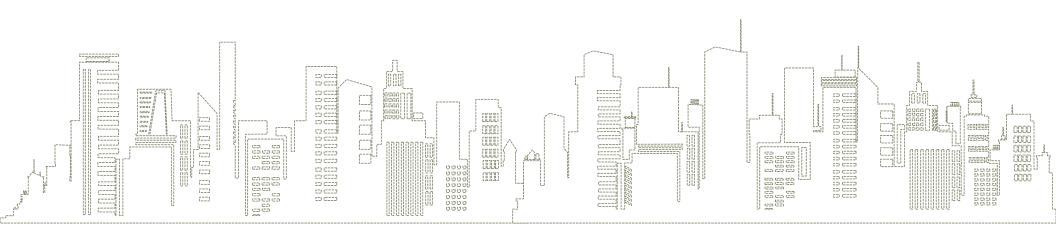


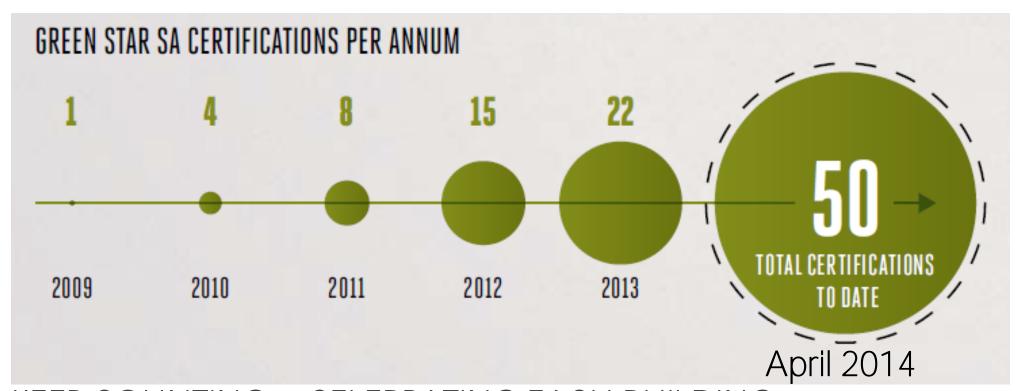






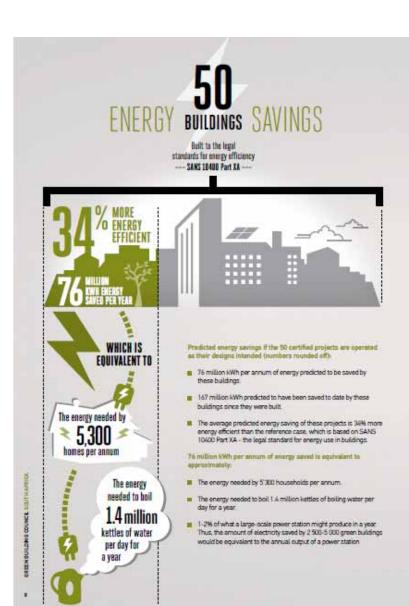
COUNTING THE GROWTH & IMPACT

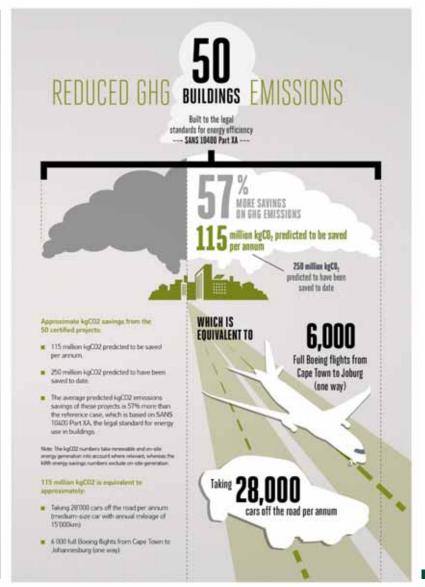




KEEP COUNTING & CELEBRATING EACH BUILDING







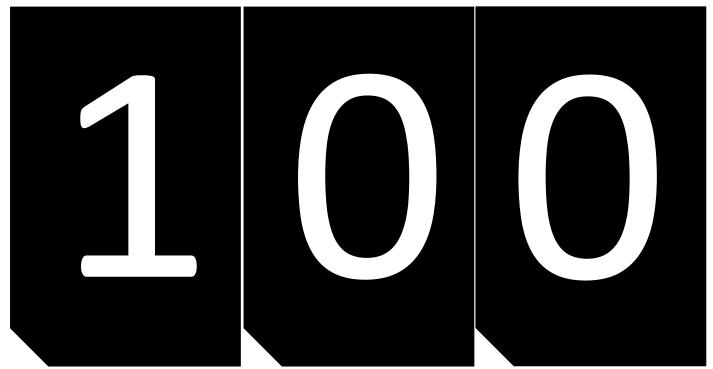




April 2013



CERTIFICATIONS BY APRIL 2015 ??









The journey of one family...



A short video of how one family did it...







ESTIMATED SAVINGS FOR ONE YEAR



WEBSITE – www.mygreenhome.org.za





LOW COST

SPEND UNDER R1000 TO LIFT SAVINGS TO ABOUT 30%





Install a low-flow shower head

Your shower may be so wasteful that it's actually illegal. Some municipalities ban shower heads that use more than 10 litres of water per minute. To check yours, do the "Bucket Test." Hold a bucket under the shower spray for 12 seconds and see if you collect more than 2 litres. Replacing an inefficient shower rose with a low-flow version could save you hundreds of rands a year. Modern low-flows are aerated, so you feel a blast of water, not a trickle. And replacing a shower rose is surprisingly easy. This YouTube video shows you how.





Connect a timer to your geyser

A programmable timer can help your budget and the nation, by keeping your geyser off during certain periods like Eskom's peak hours of 5 to 9 pm. Timers are essential for solar geysers. Prices start at around R350 plus electrician, but consider paying for a Geyserwise, for thermostat control without having to climb into the roof to adjust the temperature on the geyser.



Keep your geyser and its pipes snugly insulated

Give your geyser a hand; place your palm on top of the cylinder and on adjacent pipes. If you feel heat, it's being wasted and you paid for it. Buy a geyser blanket and insulation for the first few meters of outlet pipe from one of <u>Eskom's approved suppliers</u>. Blankets cost about R200 – R400; and pipe insulation usually less than R100.



In summary – Why a Green Rating Tool for Homes?

- Rating Tools transform the market upstream & down
- Rating Tools can be used as a design guide
- Rating Tools provide a means for independent verification of green credentials by a trusted body
- Green homes will cost less to live in, and save you money
- Green rated homes will sell for more
- Banks will provide preferential finance to homes that are green rated – lower risk customer







SAVE THE DATE GBCSA Convention 3 – 6 NOV 2015

THANK YOU

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