

Status of Green Building in South Africa

Presented at NBI seminar, COP17, Durban

Manfred Braune, PrEng, GBCSA Technical Executive 7 December 2011

Why participate in such events at COP17?





Presentation Overview 1. Two realms: regulatory & voluntary 2. Celebrate progress: regulatory 3. Celebrate progress: voluntary 4. Looking ahead 5. Conclusion Mayfair on the Lake – 4 Star Design rating

Need for both 'compulsory' & 'voluntary' benchmarks

Legislated Compulsory Standards:

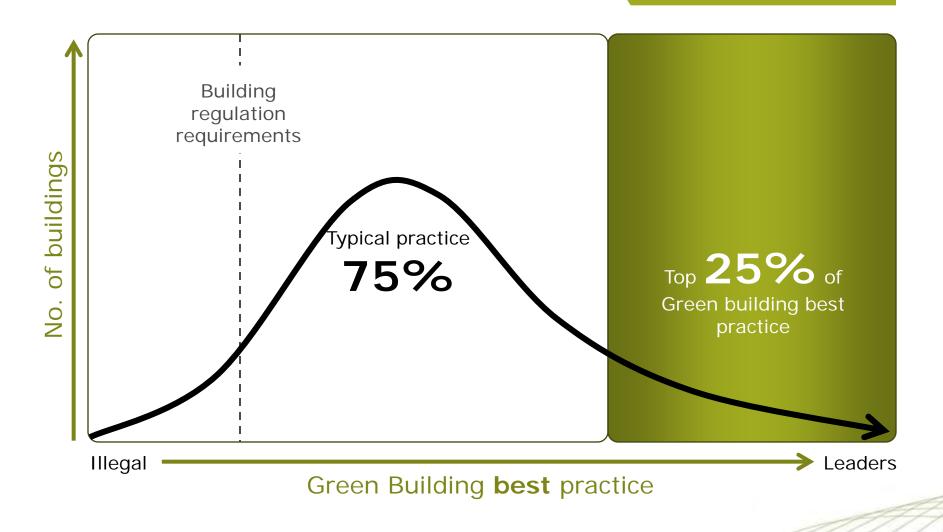
Ensure that a minimum compulsory standard for sustainable development is nationally required and implemented by all – these must adapt and become more stringent and broad-based over time.

Voluntary Benchmarks & Leadership:

Provides stretch targets for leaders to go beyond minimum compulsory standards – draws organisations into new levels of transformation beyond legislated requirements.



GBCSA's approach is to pull the market forward





VISION

The Green Building Council of South Africa will lead the transformation of the South African property industry to ensure that all **buildings** are designed, built and operated in an environmentally sustainable way.





CEEBRALE MOMENTS

Celebrate Landmark Moments - COP17 hosted

Proud moment in SA's history

COP17 hosted in Durban

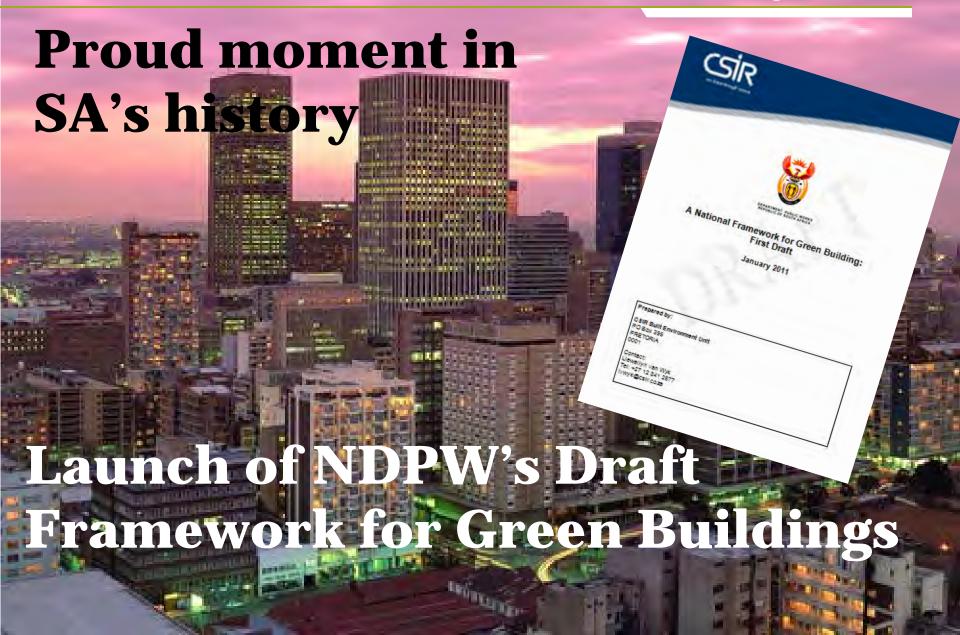
opportunity to showcase South Africa's leadership and the challenges faced by developing countries, and be the voice of Africa to the world. Green Building agenda has had significant presence.



SANS 10400 part XA promulgated

in Nov 2011 – South Africa's first compulsory national standard for energy efficiency in buildings was passed

Celebrate Landmark Moments - New Policy Dev.



Celebrate landmark moments - cidb best practice



In 2011 cidb gazetted 4 Star Green Stär SA as government's best practice benchmark for their own buildings – out of the 20 buildings currently registered for Green Star, 4 are government.



Celebrate landmark moments - ESKOM incentives



ESKOM has developed a whole new range of highly accessible financial incentives with less red tape and a broad range of applications





World Green Building Council - GBCSA full member 2007

- 1. Australia
- 2. Brazil
- 3. Canada
- 4. Germany
- 5. India
- 6. Japan
- 7. Mexico
- 8. New Zealand
- 9. Taiwan
- 10. UAE

- 11. UK
- 12. USA
- 13. South Africa
- 14. Argentina
- 15. Columbia
- 16. Netherlands
- 17. Poland
- 18. Romania
- 19. Singapore
- 20. Spain







pre-2008: green claims



how do you compare?



greenstar



24 Richefond Circle

Vodafone Innovation Centre

now we can compare

Examples of leadership in market transformation



Menlyn Maine, Tshwane – all buildings to be Green Star SA certified



Examples of leadership in market transformation



Green Star SA in 2008 lead to local low VOC paint production



Green Star SA 'Asset' Rating Tools developed - four



Office



Retail Centre / Shopping Centre



Multi Unit Residential



Public & Education Building PILOT







GBCSA lead the green retrofit of 30 homes



The British High Commission in South Africa is the main funder of this project.



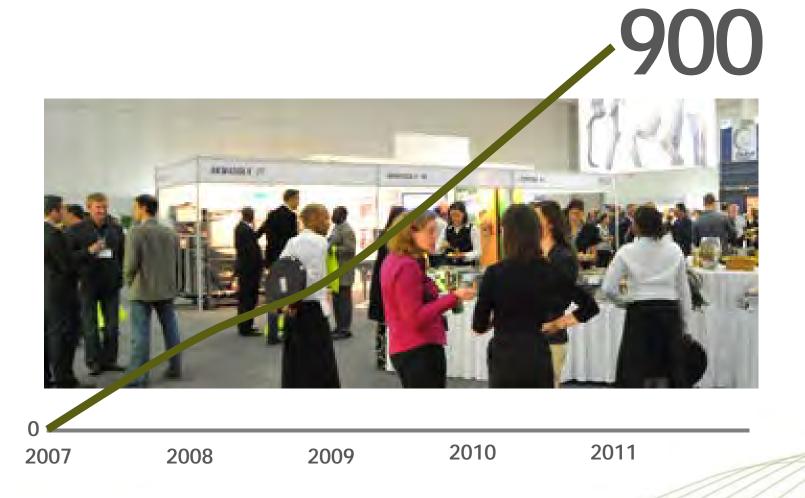








GBCSA Members





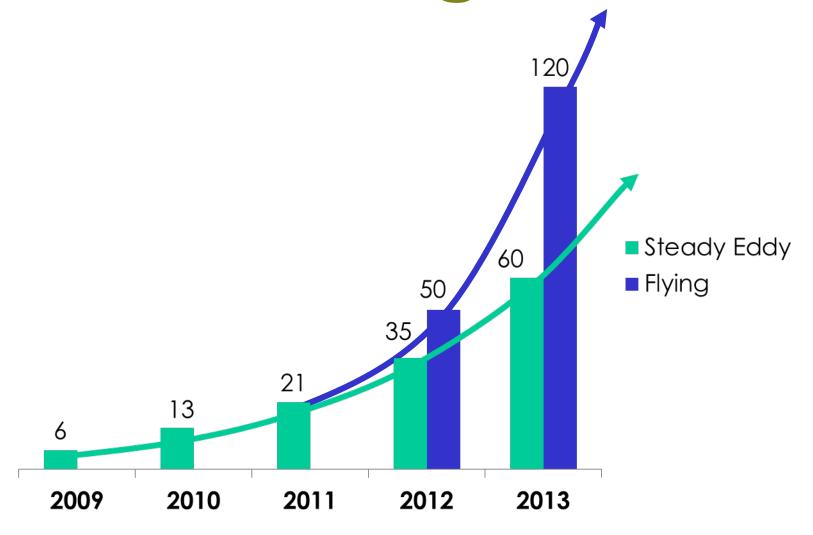




GBCSA will begin the development of a neighbourhood scale rating tool in 2012

buildings in context of cities

Growth in Registrations





asset rating

operational rating



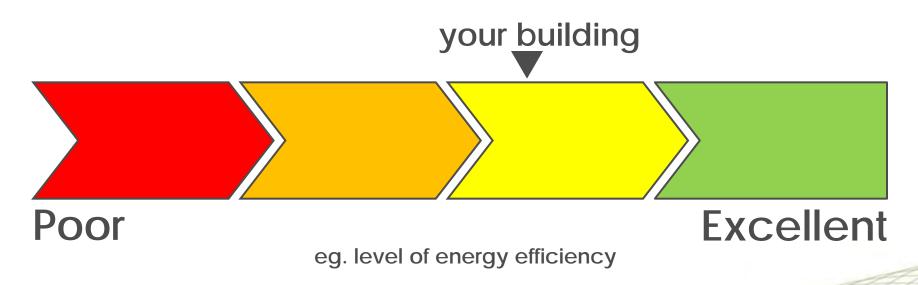




asset ısatairigngfbhisk line?

What is an energy/water operational rating?

- Position your building's actual performance (consumption) against industry performance (consumption)
- Position your buildings within your own portfolio





Final Tool

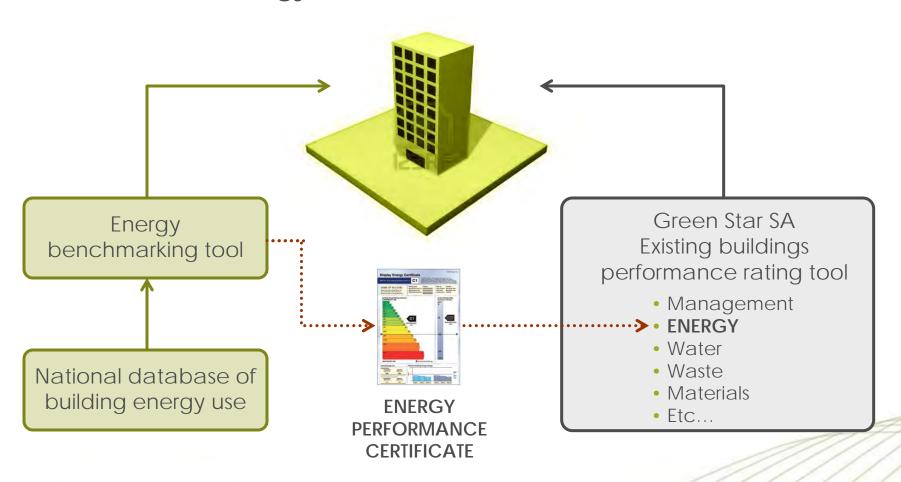


- ONLINE User Interface
- Freely Accessible (self assessment)
- Option for Independent Certification by GBCSA (at a cost)
- Anonymous Data Entry
- Portfolio Management (ex. Energy Star Portfolio Manager)



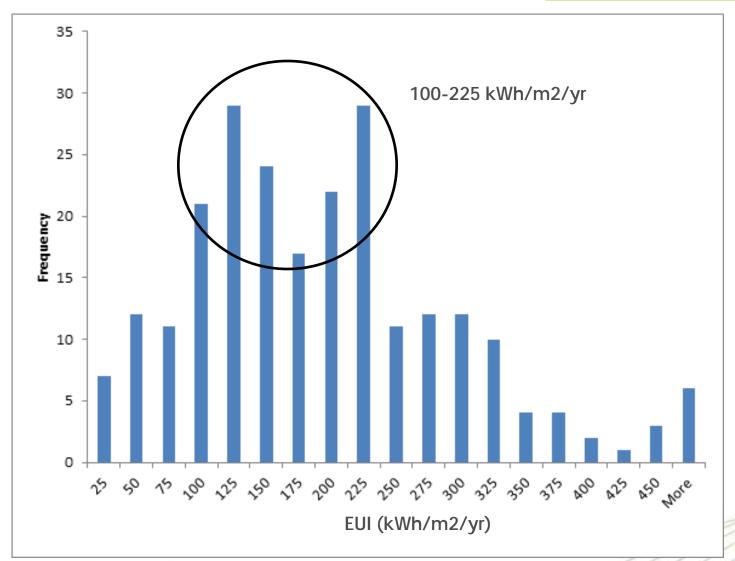
Benchmarking Tool Application in Green Star SA

Using an external Energy Benchmarking tool (similar to how LEED in the USA uses Energy Star) linked into overall tool.





Benchmarking Tool - draft data collection results





Sponsorship of the Tool

- **Growthpoint** have committed to sponsor R1.5 million of the tool development cost in 2011.
- A further R1.5 million is required before mid 2012 (GBCSA in discussions with various organisations)
- Further R 11.5 million required over the next 3-5 years, to further develop the tool/survey in other sectors



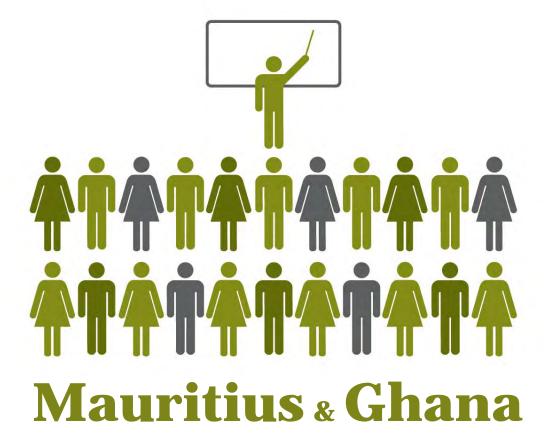
EDUCATION



have attended the AP Course

345 Green Star AP's

EDUCATION



GBCSA Convention & Exhibition 2012





Conclusion



Mayfair, Umhlanga- 4 Star Design rating



Questions



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Thank you

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