SCP in the Construction Industry: Building Rating Systems
WE ARE A MEMBER ORGANISATION THAT WORKS TO INSPIRE A BUILT ENVIRONMENT IN WHICH PEOPLE AND PLANET THRIVE.
WHAT WE DO

1. WE ADVOCATE

2. WE TRAIN

3. WE CERTIFY
Since 2007, the GBCSA and its membership community have worked across commercial, residential and public sectors to pioneer the rapid momentum of green building in South Africa to ensure that buildings and homes are designed, built and operated in an environmentally sustainable way.
Thulani Kuzwayo | Managing Executive: Public Sector
WHY BUILDINGS
GREEN BUILDING FACT 1: BUILDING GREEN IS ESSENTIAL

50% ALMOST HALF OF ALL ENERGY GENERATED IN THE WORLD IS USED BY BUILDINGS. MORE THAN HALF OF ALL RESOURCES ARE USED IN CONSTRUCTION.

GLOBAL CONSTRUCTION IS RESPONSIBLE FOR

- 40% END-USER ENERGY CONSUMPTION
- 40% SOLID WASTE GENERATION
- 12% FRESH WATER USAGE
By 2030, cities will account for 73 percent of world energy use. In most cities, buildings account for more than half of this consumption.

75 percent of the urban infrastructure that will exist in 2050 hasn’t been built yet, presenting a huge opportunity to shape more resource-efficient cities.
## WHY GREEN BUILDINGS?

- Building green is an opportunity.

1. To use resources efficiently.
2. To address climate change.
3. To create healthier communities.
4. To build better environments for all.

## WHY GREEN HOMES?

- Better for your purpose and for your profit.

1. Green homes have lower operating costs.
2. Green homes are more efficient.
3. Green homes provide a higher rate of return.
4. Green homes promote wellness and comfort.
EXAMPLES OF BUILDING RATING SYSTEMS
ECOLOGY ELIGIBILITY CRITERIA: e.g. No development on Land with High Ecological and Agricultural Value

ENERGY ELIGIBILITY CRITERIA: e.g. 10% Efficiency Improvement on SANS 10400-XA
CERTIFICATION TOOLS

DESIGN & AS-BUILT
- NEW BUILD
  - OFFICE
- NEW BUILD
  - RETAIL CENTER
- NEW BUILD
  - PUBLIC & EDUCATION
- EXISTING & NEW
  - SOCIO - ECONOMIC CATEGORY

INTERIOR
- NEW & EXISTING
  - INTERIORS

EXISTING BUILDINGS
- EXISTING BUILD
  - EXISTING BUILDING PERFORMANCE

ENERGY WATER PERFORMANCE V1
PRECINCT SCALE

SUSTAINABILITY BEYOND BUILDINGS

Governance, Livability, Economic Prosperity, Environment, Innovation
200 CERTIFICATIONS SEPTEMBER 2016

*Predicted savings going forward per annum

2,8MILLION

Currently there is over 2,8 MILLION Square meters of certified space in South Africa’s Green Star SA buildings - or the equivalent of 400 rugby fields

These Green Star SA buildings will save a total of 336 million kilograms of carbon emissions - the same as taking 84000 cars off the road

Plus, they will save 260 million litres of water per annum which equates to a single day’s water consumption of 100 million people

19500

The Green Star SA certified projects will produce a combined annual savings of 280 million kilowatt hours of electricity - the equivalent of powering 19500 households per annum

260 MILLION LITRES OF WATER

R ENERGY

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<tr>
<th>KWH per annum saved</th>
<th>Litres per annum saved</th>
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<td>280 000 000 KWH</td>
<td>260 000 000 ltrs</td>
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 ECOLOGICAL FOOTPRINT of major cities exceeds their territory
  e.g. Lagos, Bangkok and Guayaquil

 RAPID INCREASE in share of Global Emissions from cities
  in the **Global South**
let’s make a built environment in which people and planet thrive

_www.gbcssa.org.za_