

# *Inspiring Better Buildings*

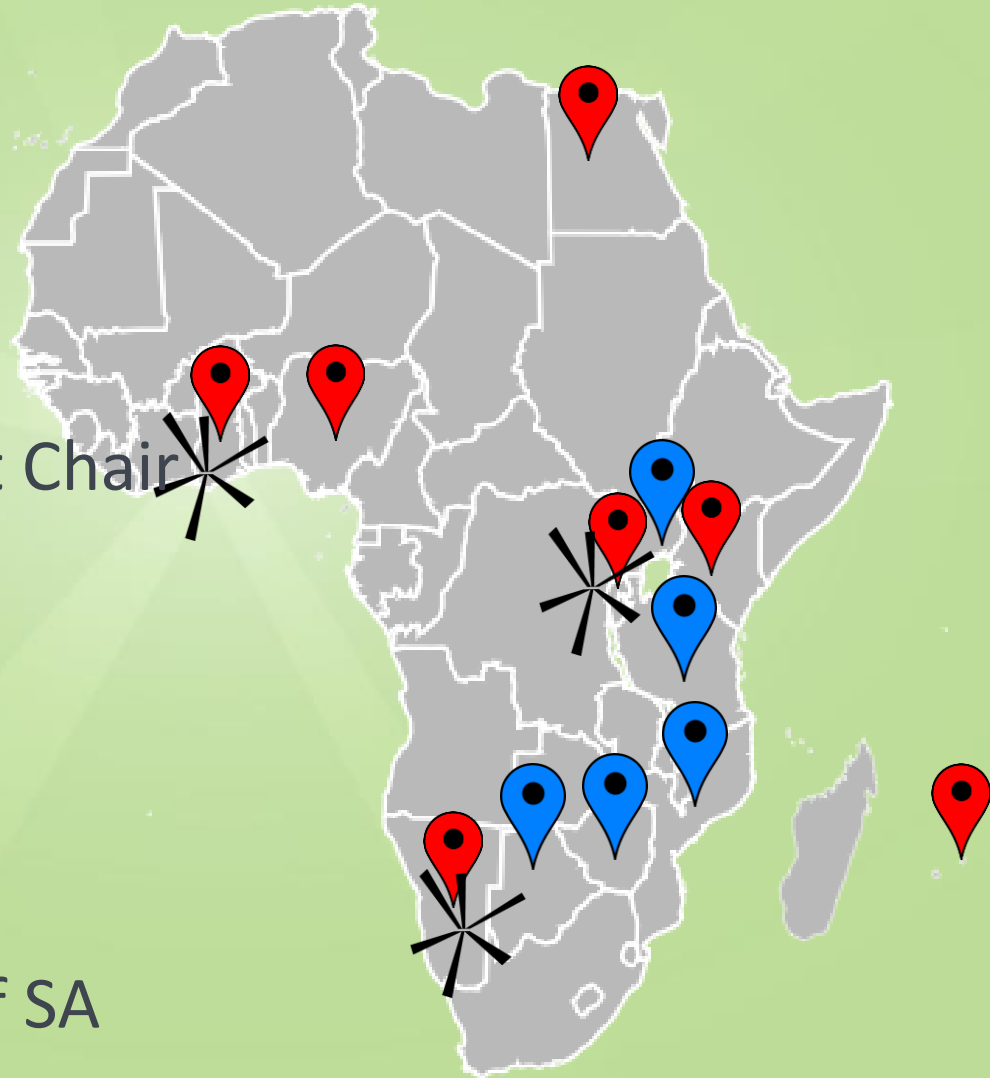


**GREEN  
BUILDING  
COUNCIL**  
SOUTH AFRICA

# Green Building Council SA

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- South Africa's lead green building authority
- Established in 2007
- 13th member and current Chair of the WorldGBC
- Chair Africa GBC Region
- 140 Green Star Africa certifications, 3 outside of SA



# Cato Manor Green Street - COP 17

*Where the environment & development agendas meet*

Green upgrade to 30 low income houses in Durban, South Africa ahead of COP17 international climate change talks in Dec 2011.

Upgraded houses are 30 m<sup>2</sup> and were built in 2006 for an average of 5 people per house. Fairly typical of almost 3 million government subsidized homes built in last 15 years.





# Cato Manor Green Street - COP 17



**No hot water  
on tap** in the house.



**Paraffin heaters**  
health & safety risk



**Skills training  
& 'green jobs'**



**Wonderbag  
insulation cookers**  
save energy cost &  
time, and are safer.



# MY GREEN HOME

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My  
**GREEN**  
HOME  
—

Join the family who  
changed their home  
to help change the world.



# COUNTING THE SAVINGS



# RESIDENTIAL GREEN BUILDING TOOL

## #Aspiration

7 year projection of 1.3 million green homes, with annual power savings equal to 3,300 acres of solar farms, water savings of 38 million cubic metres, and savings of a million tons of CO2 per year.



EDGE is a new green building certification programme developed to empower the residential property market to design and build resource-efficient buildings. Globally EDGE has the potential to achieve 20% transformation of the construction sector in just 7 years.



# PILOT: Socio-Economic Category (SEC)

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## New category for green building rating systems

To recognise that social and economic factors are important to address broader sustainability issues, which are particularly relevant for South Africa and other developing countries.

### SEC Addresses:

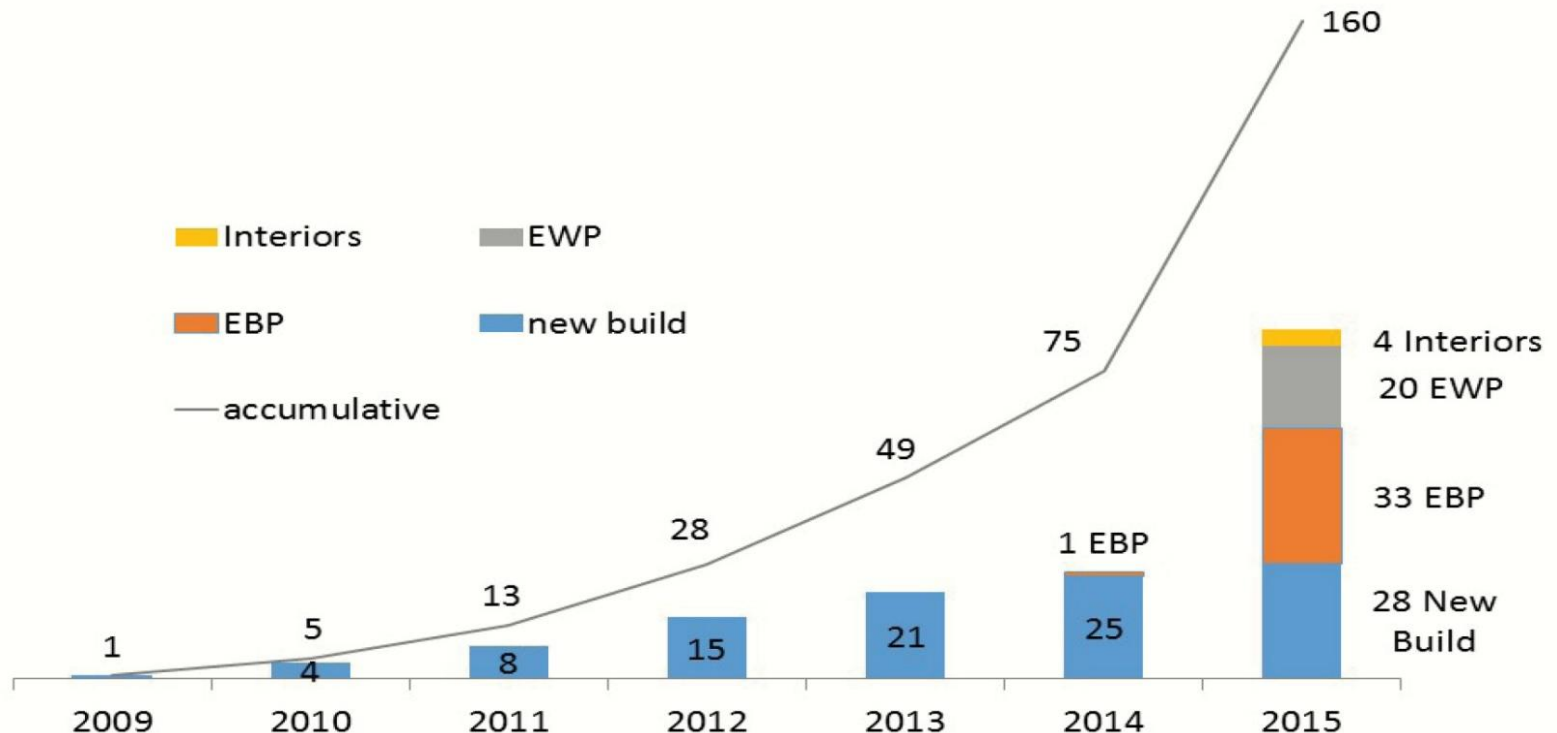
- Education
- Skills development
- Job creation
- Well-being of Workers





# TOTAL CERTIFICATIONS & PROJECTED TRENDLINE

## TOTAL GREEN STAR SA & GBCSA CERTIFICATIONS - 140



\*EBP – Existing Building Performance rating tool

\*EWP – Energy & Water Performance tool

# IMPACTS OF GREEN BUILDINGS

## TOTAL GREEN STAR SA CERTIFIED SPACE

**2.2 MILLION** <sup>m<sup>2</sup></sup><sub>GFA</sub>

TOTAL GREEN STAR SA  
ENERGY SAVINGS



**159** MILLION KILOWATT HOURS OF  
ELECTRICITY PER YEAR

TOTAL GREEN STAR SA  
EMISSIONS SAVINGS



**208** MILLION KILOGRAMS OF  
CARBON EMISSIONS

TOTAL GREEN STAR SA  
WATER SAVINGS



**302** MILLION LITRES OF WATER  
SAVED

# GBCSA COP 21 - pledge

1. Target of 2500 commercial green building certifications by 2020 (which are on average 30% more energy efficient than the South African legislated standard for energy efficiency)
2. A target of 10 000 residential green building certifications by 2020 (certifications per home).
3. A target of 12 000 professionals to be trained in green building principles and practices by 2020.
4. The GBCSA commit to introducing a net zero/positive certification scheme by 2020 for buildings, which will cover energy/carbon and possibly also cover water and waste

