City Centre Sustainable Housing Design Competition

**Workshop 1: The Competition Processes**

Date: 20 March 2024  
Time: 16:00-18:00  
Venue: Online hosted by the CIB

Presenter: Francine van Tonder
This competition is initiated by the International Council for Research and Innovation in Building and Construction (CIB) Working Commissions 116 Smart and Sustainable Built Environments, and 107 Construction in Developing Countries, with support from Nelson Mandela University.

**City Centre Sustainable Housing Design Competition**

Sponsored by: the National Home Builders Registration Council (NHBRC) and Boogertman and Partners (B+P).

Exhibition and prize giving hosted by: Nelson Mandela University at the 18th Built Environment Conference.
City Centre Sustainable Design Housing competition workshops
03 Jul 2023 — The City Centre Sustainable Design Housing competition in South Africa is a joint initiative of the CIB Working Commissions in Architectural...

City Centre Sustainable Housing Design Competition 2024 - CIB
10 Mar 2024 — The second City Centre Sustainable Housing Design competition is open to students in South African architecture institutions.

People also ask:
- What is the meaning of sustainable housing?
- What is the sustainable design competition?
- What is sustainable housing development UK?
City Centre Sustainable Housing Design Competition 2024

March 10, 2024 | No Comments

The 2024 webpage
The City Centre Sustainable Housing Design competition in South Africa is a joint initiative of the CIB Working Commissions in Smart and Sustainable Built Environments (W116), and Construction in Developing Countries (W107).

The City Centre Sustainable Housing Design competition (CCSHDC) is for teams of undergraduate architectural students, and students in other disciplines at thirteen South African universities. It is sponsored by the National Home Builders Registration Council (NHBRC) in South Africa and Boogertman and Partners (B+P) and is being hosted by the Nelson Mandela University.
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### Workshop 4

**Wednesday 10th April 16:00 – 18:00 SAST (GMT+2)**

- Indigenous Knowledge Systems – TBC
- Innovative and Sustainable Building Technologies – Isaac Hartley (NHBRC)
- Closing remarks and discussion – Jeremy Gibberd, Francine van Tonder

[Register for the workshops now]

### About the CCSHD competition

The competition is open to teams of undergraduate students at the following architectural learning sites:

- Cape Peninsula University of Technology – Architectural Technology and Interior Design
- "urban University of Technology – Department of Architecture

[Newsletter Subscription]
This competition is initiated by the International Council for Research and Innovation in Building and Construction (CIB) Working Commissions 116 Smart and Sustainable Built Environments, and 107 Construction in Developing Countries, with support from Nelson Mandela University.

City Centre Sustainable Housing Design Competition

Sponsored by: the National Home Builders Registration Council (NHBRC) and Boogertman and Partners (B+P).
Exhibition and prize giving hosted by: Nelson Mandela University at the 18th Built Environment Conference.
The competition has a focus on environmental, economic, and social sustainability, diversity and inclusion, sufficiency, self-build, unit design, strategies for the future and innovative materials. This is reflected in the prizes that will be awarded (see Prizes) and will addressed in the workshop series (see Workshops).

**Site**
The site is located in Gqeberha, Eastern Cape. The closest corner is Community Street and 5th Avenue; with Walmer Primary School to the west and the Chief Dawid Stuurman International Airport to the east. The site is 3.2 Km from the Gqeberha city hall. The site is 10 hectares.

- Site coordinates for Google Earth are: 33°59'04"S 25°36'26"E
- Further site information and photos are coming soon.

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Sustainable Design – Housing Competition
11 March 2024
The 2024 site
The 2024 site
The 2024 site
The 2024 site
The 2024 site
The 2024 site
Evaluation criteria
The following evaluation criteria will be used to judge the competition.

- Explore environmental sustainability (ES)
- Support economic sustainability (EC)
- Value social sustainability (SO)
- Enable diversity and inclusion within the population (ID)
- Encourage self-sufficiency and self-build (SB)
- Envisage and prepare strategies for the future (FS)
- Create comfortable, adaptable and flexible housing units (UD)
- Promote innovative building technologies and indigenous materials (IB)
- Respond to the site opportunities and challenges
- Enhance the lives of residents and neighbours.

Accommodation Schedule
A table should be provided on the sheet which details the type and size of functions accommodated in the following way:

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Overall number</th>
<th>Overall floor area (m2)</th>
<th>Overall coverage (m2)</th>
</tr>
</thead>
</table>

The 2024 brief
• Respond to the site opportunities and challenges
• Enhance the lives of residents and neighbours.

**Accommodation Schedule**
A table should be provided on the sheet which details the type and size of functions accommodated in the following way:

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
<th>Overall number (occupants/users)</th>
<th>Overall floor area (m²)</th>
<th>Overall coverage (m² and percentage, ex. 48%)</th>
</tr>
</thead>
</table>
| Housing units             | (Example) 100 no 1 bed, 30 m² units  
                             | 200 no 2 bed, 60 m² units           | 2200                    | 66 000 m²                                      | 48 000 m² 48%                              |
| Work units                | (Example) 12 no 2 person, 30 m² units  
                             |                                  | 24                      | 360                                            |
| Other amenities and/or    |                                       |                                  |                         |                                               |
| activities in your proposal |                                     |                                  |                         |                                               |
| Subtotals                 |                                       |                                  |                         |                                               |

**Key:** Key features (sustainability, inclusion etc.) that have been incorporated in designs should be labelled on the sheet and described in a key as follows:
### Key

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Sustainability (EN)</td>
<td></td>
</tr>
<tr>
<td>EN 1</td>
<td></td>
</tr>
<tr>
<td>EN 2</td>
<td></td>
</tr>
<tr>
<td>Economic Sustainability (EC)</td>
<td></td>
</tr>
<tr>
<td>EC 1</td>
<td></td>
</tr>
</tbody>
</table>

The following key should be used:

- EN for Environmental Sustainability i.e. EN1 for feature 1 etc.
- EC for Economic Sustainability i.e. EN1 for feature 1 etc.
- SO for Social Sustainability i.e. SO1 for feature 1 etc.
- ID for Inclusion and Diversity i.e. ID1 for feature 1 etc.
- SB for Self-Build and Self Sufficiency i.e. SB1 for feature 1 etc.
- UD for Unit Design i.e. UD1 for feature 1 etc.
- FS for Future Strategy i.e. FS1 for feature 1 etc.
- IB for Innovative Building Technologies i.e. IB1 for feature 1 etc.

### Judges

The panel of judges will consist of representatives from the following organisations:
• EN for Environmental Sustainability i.e. EN1 for feature 1 etc.
• EC for Economic Sustainability i.e. EN1 for feature 1 etc.
• SO for Social Sustainability i.e. SO1 for feature 1 etc.
• ID for Inclusion and Diversity i.e. ID1 for feature 1 etc.
• SB for Self-Build and Self Sufficiency i.e. SB1 for feature 1 etc.
• UD for Unit Design i.e. UD1 for feature 1 etc.
• FS for Future Strategy i.e. FS1 for feature 1 etc.
• IB for Innovative Building Technologies i.e. IB1 for feature 1 etc.

Judges
The panel of judges will consist of representatives from the following organisations:

• International Council for Research and Innovation in Building (CIB)
• National Home Builders Registration Council (NHBRC)
• Boogertman and Partners (B+P)
• National Department of Human Settlements (DHS)
• Council for Scientific and Industrial Research (CSIR)
• Pretoria Institute of Architects (PIA).

Submissions
Submission should be made by sending 1 no. A1 (594 x 841 mm) size page in portrait orientation, which presents and explains the proposal of each team. The A1 sheet should include plans, sections, elevations, and three-dimensional representations; as well as diagrams and text that explain the approach and solutions, as indicated above.
The judging
The judging
The judging
Submission requirements

International Council for Research and Innovation in Building (CIB)
National Home Builders Registration Council (NHBRC)
Boogertman and Partners (B+P)
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Submission Requirements
Submit 1 no. A1 (594 x 841 mm) size page in .pdf file format per team. The file name must be labelled, in the bottom right-hand corner of the page, with the three-digit number allocated to the submission. For example “135” in 16-size text. Each architectural learning site will be provided with 25 three-digit reference numbers.
Should your architectural learning site not formally participate in the competition then you can request a number from: CIBCityCentreSustainableDesign@gmail.com

Please ensure that there are no identifiers such as names or university information on your sheet. All entries must be anonymous.

Submission will be made to CIBCityCentreSustainableDesign@gmail.com. Submissions will open on the 10th of May 2024 and close on the 17th of May 2024. Allow at least 2 hours for your submission as information on all the participants in your group must be captured. No submissions will be accepted after this date. We recommend that you submit early to avoid any technical issues. An acknowledgement of receipt email will be sent with the reference number to the team members listed in each submission.

Copyright of submissions
The organisers reserve the right to use any submitted material for non-profit making promotions, and publications in academic research, academic journals and at academic conferences. The participants of the competition submissions will be credited in all cases.

Competitors
The competition is open to teams of undergraduate students at the following architectural learning sites:
Competitors
The competition is open to teams of undergraduate students at the following architectural learning sites:

- Cape Peninsula University of Technology - Architectural Technology and Interior Design
- Durban University of Technology - Department of Architecture
- Nelson Mandela University - School of Architecture
- Tshwane University of Technology - Department of Architecture and Industrial Design
- University of Cape Town - the School of Architecture Planning and Geomatics
- University of Johannesburg - Architecture
- University of KwaZulu-Natal - Architecture, Planning & Housing
- University of Pretoria - Department of Architecture
- University of the Free State - Department of Architecture
- University of the Witwatersrand - School of Architecture and Planning
- School of Explorative Architecture, Cape Town
- School of Architecture & Spatial Design, STADIO
- Inscape Education Group, Architectural Technology.

For 2024 one international architectural learning site is invited to participate namely:
Architectural learning sites invited to participate

- University of Wyoming – department of Civil and Architectural Engineering and Construction Management

Teams must consist of two to six members. A member may only form part of one team. Members from other disciplines such as Human Settlements, Construction Management, and Biology could be included.

**Important dates**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission due date</td>
<td>17th of May 2024</td>
</tr>
<tr>
<td>Judging dates</td>
<td>30th / 31st of May 2024 in Pretoria</td>
</tr>
<tr>
<td>5 min video submission due date</td>
<td>10th of June 2024</td>
</tr>
<tr>
<td>Members and proposal submission from 12 finalist groups</td>
<td>Hosted at the 18th Built Environment Conference Construction 5.0: Towards a Collaborative and People-Centered Industry, 15 July 2024 at Nelson Mandela University</td>
</tr>
</tbody>
</table>
Prizes

<table>
<thead>
<tr>
<th>Overall Scheme</th>
<th>South African Rands (ZAR) (75 500-00 total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First prize</td>
<td>10 000-00</td>
</tr>
<tr>
<td>Second prize</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Third prize</td>
<td>5 000-00</td>
</tr>
<tr>
<td>Sustainability Prizes</td>
<td></td>
</tr>
<tr>
<td>Environmental</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Economic</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Social</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Merit Prizes</td>
<td></td>
</tr>
<tr>
<td>Future strategy</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Self-build and sufficiency</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Unit design</td>
<td>7 500-00</td>
</tr>
<tr>
<td>Sponsors Prize</td>
<td></td>
</tr>
<tr>
<td>Innovative building technologies</td>
<td>8 000-00</td>
</tr>
</tbody>
</table>

Hosted at the 18th Built Environment Conference Construction 5.0: Towards a Collaborative and People-Centered Industry, 15 July 2024 at Nelson Mandela University
The 2023 winners
The 2023 winners: first, second and third
The 2023 winners: environmental, economic, and social sustainability

**Submission 104**
University of Cape Town, School of Architecture Planning and Geomatics.
1) Grethe Geringer.
2) Jade Camacho.
3) Leigh Jansen.

**Submission 162**
Tshwane University of Technology, Department of Architecture and Industrial Design.
1) Sandile Matsaba.
2) Keanu Klaasen.

**Submission 254**
Nelson Mandela University, School of Architecture.
1) Kellan Jones.
2) Ricardo Diedericks.
3) Tiane Oelofse.
4) Theuns janse van Rensburg.

WINNER – ENVIRONMENTAL SUSTAINABILITY
WINNER – ECONOMIC SUSTAINABILITY
WINNER – SOCIAL SUSTAINABILITY
The 2023 winners: innovative building technologies and indigenous materials, and honourable mentions.
The 2023 winners: honourable mentions

Submission 105
University of Cape Town, School of Architecture Planning and Geomatics.
1) Neighcar Kgokaboya.
2) David Dlamini.

Submission 250
Nelson Mandela University, School of Architecture.
1) Adam Bowers.
2) Coenraad Pretorius.
3) Justin Bartlett.

Submission 255
Nelson Mandela University, School of Architecture.
1) Priscilla Banda.
2) Josie Handman.
3) Kayla Iveson.
One A1 submission per group

and

not one A1 per person in the group.

So.

Only one person should submit, and only one A1 sheet should be submitted.
International Council for Research and Innovation in Building and Construction

The Future of the City Centre Network, with support from the University of Pretoria, and Nelson Mandela University, and sponsorship from the National Home Builders Registration Council (NHBCR) and Boogertman and Partners (BHP)

Congratulations

Amahle Ngcakane
Hlonela Gulwa
Lihle Gule
Nelson Mandela University, School of Architecture

on their achievement in the 2023 City Centre Sustainable Housing Design Competition

Winner - First Place

Prof Jeremy Odendaal
Professor of Architecture, Nelson Mandela University

Prof PhD Rezaali
Coordinator of CIB W83 Construction in Developing Countries

27th October 2023

International Council for Research and Innovation in Building and Construction

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Congratulations

Grethe Geringer
Jade Camacho
Leigh Jansen
University of Cape Town, School of Architecture Planning and Geomatics

on their achievement in the 2023 City Centre Sustainable Housing Design Competition

Winner - Environmental Sustainability

Prof Jeremy Odendaal
Professor of Architecture, Nelson Mandela University

Prof PhD Rezaali
Coordinator of CIB W83 Construction in Developing Countries

27th October 2023

International Council for Research and Innovation in Building and Construction

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Congratulations

Bontle Donatus
Entle Makinta
Tshwane University of Technology, Department of Architecture and Industrial Design

on their achievement in the 2023 City Centre Sustainable Housing Design Competition

Honourable Mention

Prof Jeremy Odendaal
Professor of Architecture, Nelson Mandela University

Prof PhD Rezaali
Coordinator of CIB W83 Construction in Developing Countries

27th October 2023
What questions do you have for me?